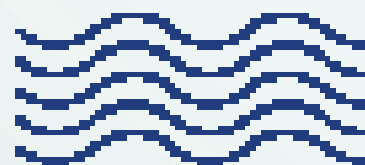


KHWAJA FAREED
UEIT
RAHIM YAR KHAN



**KHWAJA FAREED UNIVERSITY OF ENGINEERING
& INFORMATION TECHNOLOGY**

PROSPECTUS 2019-20

FOR THOSE WHO WANT TO BECOME FUTURE LEADERS



Khwaja Fareed University
established by the
Government of Punjab



Khwaja Fareed University is
recognized by Higher Education
Commission of Pakistan



Engineering Degree Program
approved by Engineering Council
of Pakistan



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Vision

To become a world-class University that contributes significantly to the development of regional economy and uplift of local community by becoming a power house of intellectual and human capital generation.

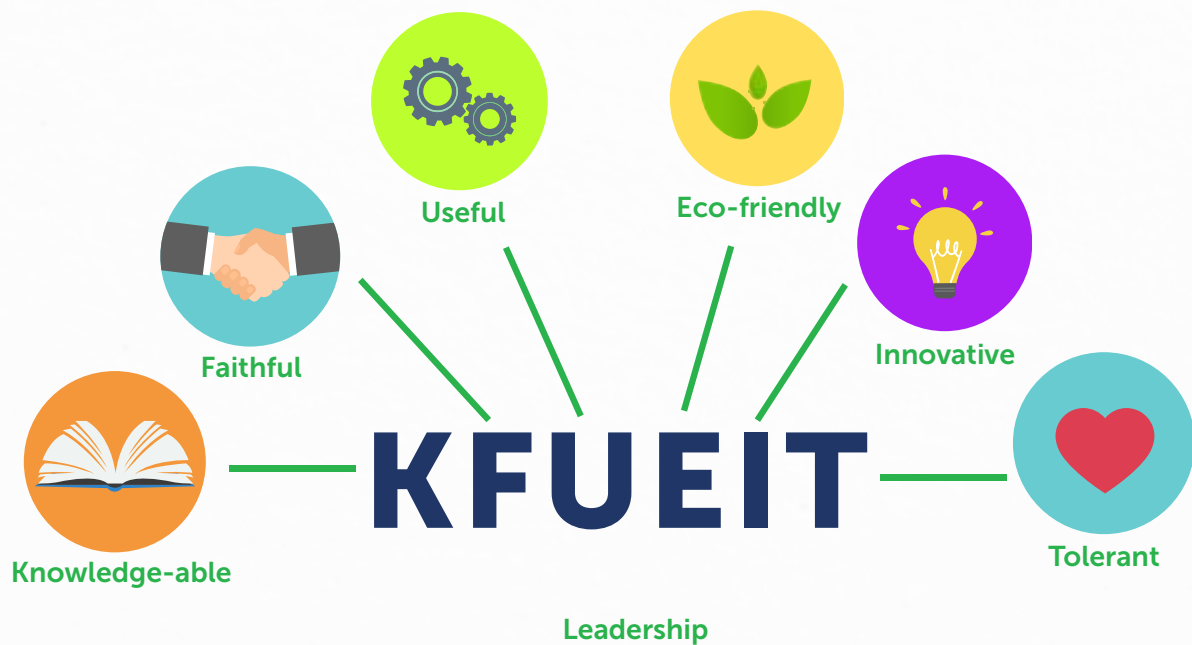
Mission

1. To offer an educational experience wherein:
 - (a) The curriculum and its delivery conform to international standards
 - (b) The students are provided an environment for wholesome development of their personality and creative potential
 - (c) The graduates produced are most sought after by prospective employers
2. To conduct research to solve local and national problems requiring knowledge based solutions

Goals & Objectives

1. Establish 30 world-class undergraduate degree programs in six domains of Sciences & Mathematics, Engineering, Information & Communication Technology, Life Sciences & Healthcare, Management, Social & Legal Sciences, Humanities & Arts.
2. Conduct research in inter-disciplinary areas of local and national need to produce intellectual capital (Knowledge, Solutions, Intellectual Property (IP)) and Human Capital (PhDs):
 - Applied & Open Source Information Technology (Education, Health and Agriculture)
 - Embedded Systems (Next Generation Smartphones, Tablets, Security Cameras, Home Automation Systems, Building Controls Systems, Factory & Production Line Automation for Agri-based Industries, Electric Vehicles Control Systems)
 - Biotechnology (better crops and fruit varieties)
 - Food Science & Technology
 - Water Resource Engineering / Management
 - Environmental Science & Engineering
 - Renewable Energy (Biomass, Solar PV, Wind and others)
 - Information Security (Information Assurance, Cyber Warfare, Digital Forensics)
 - Materials Engineering (Solid Electrolytes, Organic Photovoltaics, Nano-Materials)
 - Power Storage, Conversion & Management
 - Heritage Studies
 - Engineering Management, Healthcare Management and Supply Chain Management

Core Values



Khwaja Fareed University of Engineering & Information Technology
Rahim Yar Khan

Chancellor's Message



All institutions of higher education have a responsibility to advance knowledge and understanding through education and research so as to contribute in the economic and cultural spheres of any society. The government wants the universities to focus on their role and enable people to develop their capabilities by realizing their potential both personally and at work.

The promotion of education, specially the higher education in southern Punjab, is amongst the top most priorities of the government. I believe that improvement in quality of teaching and research, a positive change can be brought in the prevailing socio-economic condition of this area.

Khwaja Fareed University of Engineering & Information Technology is committed to provide its students a supportive learning environment. Additionally, the University recognizes that the students must be well prepared to become valuable members of society. In order to address these demands, the University must continuously upgrade itself, academically and administratively, so that it is in a position to attain the standards that will allow its students to excel in their future pursuits.

I wish Khwaja Fareed University of Engineering & Information Technology, Rahim Yar Khan best of luck towards attainment of its academic goals.

Chaudhry Mohammad Sarwar

Governor Punjab

Pro Chancellor's Message



The Government of Punjab under able leadership of the Chief Minister, Sardar Usman Buzdar is committed to catapult higher education to the international standards and to spread the reach of high quality higher education to every nook and corner of the Punjab. In this connection establishment of the Khwaja Fareed University of Engineering and Information Technology, Rahim Yar Khan is a flagship project of this government. The Government of Punjab has already invested nearly Rs. 4 Billion for the Phase-1 of the establishment of KFUEIT, RYK wherein core academic and supporting buildings and essential infrastructure has already been put in place.

I am pleased to note that as the after Phase-1, further plans are already in the pipeline for the Phase-2 of the project which will enhance this University by providing more land and more state of the art infrastructure and facilities. Phase-2 will be double in magnitude of its initial phase and will include provision for Faculty Development Program and Endowment Fund to ensure the long-term sustainability of the University. Government of the Punjab believes that this investment in our youth will pay dividends in the long run to the province and to the nation by producing next generation of leaders. Furthermore, I am satisfied to see that under provincial government's guidance KFUEIT is adopting the best practices in higher education and is striving to integrate with the community and regional economy. I urge the youth of the South Punjab Region to make full use of this University in fulfilling their educational and career aspirations and I assure them that they will find me responsive to their feedback and suggestions. My support and best wishes are with the students, faculty and staff of the University.

Raja Yasir Humayun Sarfraz

Minister for Higher Education Government of the Punjab

Vice Chancellor's Message



I welcome you to explore and choose the Khwaja Fareed University of Engineering & Information Technology (KFUEIT), Rahim Yar Khan for the fulfillment of your educational and career development goals. KFUEIT is the first public sector university located in the deep southern Punjab region and has been established under the vision of the Government of Punjab to bolster the educational opportunities for highly talented and hardworking youth of the region. Being the only public sector university in a 200 km radius, and situated at the confluence of the hitherto most deprived regions of the three provinces of Punjab, Sindh and Balochistan, the University is fully cognizant of its responsibilities towards the community and the region. Hence, under a massive development grant of nearly Rs. 6 Billion, in the first phase, by the Government of Punjab, KFUEIT is rapidly developing its physical infrastructure of modern buildings and state of the art teaching and laboratory facilities. Following the initial phase, a second phase of development has also been launched to add top off the line academic, residential and recreational facilities on the campus.

KFUEIT has a lofty vision to become a world-class university that contributes significantly to the development of regional economy and uplift of local community by becoming a power house of intellectual and human capital generation. To achieve this sublime vision the University is fully committed in its mission to offer an educational experience where the curriculum and its delivery conform to international standards, the students are provided an environment for wholesome development of their personality as well as creative potential, and the graduates produced are the most sought after by prospective employers. So far the response of the industry and community towards the quality of KFUEIT graduates has been very encouraging. KFUEIT is offering a broad spectrum of academic programs in all areas of knowledge. The variety and number of our academic program offerings are fully matched by the high quality of our teaching and learning environment.

KFUEIT is also committed to conduct applied research to solve local and national problems requiring knowledge based solutions. Under a well-considered plan, the high priority research areas for the University are identified to be Food, Environment, Energy, Water, Health, Information & Communication Technology and Manufacturing. KFUEIT is aware of the changes on the global level and the national need for transformation towards a knowledge economy, where all sectors of the economy will depend significantly on use of information and information processing tools to deliver products and services in a competitive and profitable manner. At KFUEIT, we have aligned our curriculum and all systems of teaching and research, as well as institutional operations, towards being an agent for this much needed transformation.

The set of core values which form the guiding principles permeating all our activities at KFUEIT, and are being inculcated in the students as well as being practiced by the University administration and faculty can be easily remembered through the University acronym KFUEIT. That is, we want our students, faculty and staff to be Knowledge-able, Faithful, Useful, Eco-friendly, Innovative and Tolerant.

I hope that after going through this prospectus and visiting the KFUEIT Campus or the Official KFUEIT website and Facebook pages you will be in the perfect position to choose KFUEIT as your university. I look forward to you becoming a part of the KFUEIT community where you will be welcomed by a highly qualified and caring faculty as well as a helpful University administration.



Engr. Prof. Dr. Athar Mahboob, Tamgha-e-Imtiaz
Vice Chancellor



Senior Dean's Message



“

Khwaja Fareed University of Engineering and Information Technology is a wonderful initiative by Government of Punjab and in particular, the role played by then Chief Minister, regional politicians and business community for the establishment of this great institution. We hope that Inshallah this university will become a world class university with hard work and continuity of support from the present and future governments. There is no doubt that establishing this university is a blessing for the people of South of Punjab and it should be exploited to its full potential with continuity of support and use it as a hub to connect to the world for business and education purposes.

Our future lies in knowledge-based economy and these types of initiatives are the building blocks towards that vision. We should play our role in the world with positive attitude and make contributions for good of humanity. We cannot live in isolation and therefore need to adopt World Class practices in our day to day living, in our industry and businesses, otherwise we will be left behind even more than what we are now.

Our wide range of educational programs at undergraduate and graduate level including BS, MS/MPhil and PhD are of the highest standard and we have plans to benchmark our performance with the world class universities. Whatever gaps exist in our performance, we should have the willpower to achieve those world class targets which have been established by the International universities and institutions. I would ask our young people who are intelligent and full of energy to set your sights high and show that you can fulfil your own, your parent's and your nation's dreams. You are the future of this nation and do not disappoint them.

KFUEIT team is anxious to take this university forward and I have already seen great results towards making it a world class university. As our great leader Quaid-e-Azam said "with faith, discipline and selfless devotion to duty, there is nothing worthwhile that you can not achieve". In a short period of four years since the establishment of this University, we have made great progress and achieved 2024 targets at the end of 2018. Now KFUEIT is offering 94 programs in Engineering, Management, Basic Sciences, Humanities, Social Sciences, Allied Health Sciences, Computer Science and Information Technology. The student numbers Inshallah will increase from 5,000 to 10,000 in August 2019. This University is also striving towards self-sustainability business model by effective utilization of resources for delivery of teaching programs, Research and Innovation work and Entrepreneurship activities.

We are planning to engage with wider community by offering flexible, multi-disciplinary and e-learning programs, both for full time students and working professionals from industry and businesses.

I wish all our students best of luck and hope that whatever you do in life will be for good of humanity because we are part of the World in this global village where we should learn to live in peace and harmony with each other.

Engr. Prof. Dr. Mohammad Munir Ahmad

BSc Mech Eng (UET, Lahore), MSc, PhD (UK),
CEng, MIMechE, FIEI, Eur Ing (EU-FEANI)

”

Members Syndicate of KFUEIT



Mian Muhammad Shafi

Member of Punjab Assembly (PP-258)

Mian Shafi Muhammad has a dynamic political background. He belongs to Tehsil Khanpur, District Rahim Yar Khan. He has served as Vice Chairman, District Council during 1990-93 and 1997-99. Besides his services as a politician since 2008, he is also a progressive agriculturist and a versatile businessman. He has the honour of successful completion of long Workshop on National Security held in the National Defence University in 2010. At present, he is representing ruling party PTI as Member Provincial Assembly of the Punjab from Constituency PP-258 (Rahim Yar Khan-III) in the last General Elections of 2018.

He believes that quality education is the basic right of every citizen of Pakistan. In this context, he is of the strong view that provision of quality higher education is the key tool to elevate the people of the deprived region of the South Punjab to an equal footing of other developed regions of the Punjab. In his point of view, establishment of Khwaja Fareed University of Engineering and Information Technology, Rahim Yar Khan (KFUEIT, RYK) is a very positive initiative in the public interest, which would serve as a power house for human capital generation and economic growth in the region.

While becoming Member of Syndicate of KFUEIT, he is fully committed to support at his best to all the measures to strengthen the academic life of the University along with its infrastructure development. During his formal visit at KFUEIT, after becoming Member of its Syndicate, he showed ample satisfaction on the pace of progress and efforts made so far by the University Leadership in the overall academic and infrastructure development of the University in terms of student number, academic programs, faculty strength, advance lab equipment and other allied dynamics. He believes that in the forum like Syndicate, political will and participation plays a key role in making decisions in the best public interest.



Chaudhry Masood Ahmad

Member of Punjab Assembly (PP-257)

Chaudhry Masood Ahmad is a senior cum seasoned politician, rendering welfare services to the people of District Rahim Yar Khan since decades. At present, he has been offering his political services as Member of the Provincial Assembly of Punjab, part of the ruling party since

August 2018. He believes that Government of the Punjab is focusing on the development of education sector, specially the higher education and the promotion of education in the Southern Punjab, is amongst the top most priorities of Government of the Punjab. He is of the great vision that deprivation of the people of the Southern Punjab can only be compensated with the provision of quality higher education in the region.

In light of his lofty vision towards the promotion of higher education in the Southern Punjab, he is keenly interested to contribute at his best in the establishment and development of Khwaja Fareed University of Engineering and Information Technology, Rahim Yar Khan. In this regard, Government of the Punjab graced him with the membership of the Syndicate of KFUEIT. During his formal visit at KFUEIT, as Member Syndicate, he shared his comments with the media personnel that he is very happy to see the progress and development in the University and is eager to play his role in resolving all the outstanding issues of the University pending with Government of Punjab including, but not limited to financial issues. He is committed to offer his unconditional support for the academic growth and future infrastructure development of the University while being a part of its Syndicate.



Tree Plantation by Syndicate Members of University



KFUEIT

رحیم یار خان
RAHIM YARKHAN



S RYK

RYK and KFUEIT – History and Culture

Rahim Yar Khan, a city situated extreme south of Southern Punjab, is a vibrant and progressive city. Previously known as Noshehra was named Rahim Yar Khan in 1809 by Nawab Muhammad Sadiq Khan after his first son. In 1930 the city was designated as a District Headquarter and in 1942 became an industrial zone and Cotton Centre with advent of several industrial units and factories all over the town. Two landmark factories of Abbasia Textile Mills and Sadiq Vegetable & Oil Mills (now Unilever) were established in 1950, which added more in the urbanization of the city. This urbanization continued since then and now the city is one of the modern district headquarters in Punjab with decent civic facilities and infrastructure.

Rahim Yar Khan is strategically located in an area, which is converging point of three provinces (Punjab, Sindh and Baluchistan) of Pakistan. This geographical location makes this city the centre of not only the health & education but for business, trade and agriculture of Southern Punjab, Northern Sindh and Eastern Baluchistan as well. Known as one of the largest producers of cotton and sugarcane, RYK has an Agri-based economy of 65% population. Leading industrial units of RYK include Unilever, Coca Cola Beverage, FFC, 7 Sugar Mills Plants, Ahmad Oriental Textile and Ahmad Fine Textile Mill with dozens of Marble, Cotton Ginning, Flour & Oil Mills and Poultry Feed units.

This part of the province has always been struggling for development and opportunities for higher studies. The parents were forced to look for bigger cities up north or extreme south of country in order to explore higher education options for their children. The closest locations on both sides of this city having a dedicated university, Bahawalpur and Sukkur, are at a distance of around 200 km each. In this scenario, students were bound to opt for incremental expenditures in bigger cities besides academic expenses while getting exposed to severe competition against limited seats in many institutions.

In these circumstances, the establishment of very first Engineering & Information Technology University in Rahim Yar Khan is surely nothing lesser than a blessing for Southern Punjab, Northern Sindh and North Eastern Baluchistan. Established in 2014 under Punjab Assembly Act XIV, the Khwaja Fareed University of Engineering & Information Technology (KFUEIT) Rahim Yar Khan, started its journey with merely 4 rooms, 5 faculty members and admission intake in 4 degree programs.



After the appointment of its very first Vice Chancellor in September 2015, KFUEIT embarked upon a tremendous growth track and started elevating the ladder every year. The vibrant leadership of the Vice Chancellor, Engr. Prof. Dr. Athar Mahboob (TI) along with his very young and energetic team left no stone unturned in achieving targets of decades in just few months not only in terms of physical infrastructure but in academic excellence as well. Despite lots of stumbling blocks and bottlenecks, this roller coaster journey of exponential growth did not slow down owing to untiring commitment and dedication of the Vice Chancellor and his young team.

Situated on Abu Dhabi Road Rahim Yar Khan, a beautiful and state of the art campus of KFUEIT is spread over 275 acres and is equipped with all modern facilities where more than 600 employees including 200 teaching faculty members are performing their duties in making this university a premium institution of the country in days to come. The fast-paced growth and such an increase in number of students is evident of the fact that this University is effectively serving the needs of the region and contributing towards the development of regional economy. As per the safest estimates, KFUEIT has been able to reverse the flight of capital of around 2 billion per annum from regional economy of this region, which was previously being spent in central and upper part of Pakistan.

Particularly for girls, this university is an even bigger blessing, because many of the degree programs are of great interest to female students matching their education aspirations and future endeavors. The year 2019 has also been scheduled to be yet another successful venture for KFUEIT. After the admissions of Fall 2019, KFUEIT will register its name in leading universities of country by growing to 19 departments, 94 degree programs, over 100 PhD qualified faculty members and crossing milestone of 10,000 students.

Where KFUEIT is aggressively on its way to become a premium institution of this country in minimum possible time at one end, the severe financial crisis that is hitting this university in last one year and adversely affecting its growth on another end. With the shortage and non-releases of necessary funds from government for university, the achievement of aggressive targets seems difficult to achieve. Against all the odds, the leadership of university aims the wholesome development of students besides academic excellence and has never compromised on extracurricular activities in doing so. KFUEIT keeps arranging and hosting dozens of extracurricular activities including sports gala, seminars, exhibitions, declamation contests, Na'at and Qir'at contests, Pakistan Day, Defence Day, Kashmir Day, Eid Milad un Nabi, Dramatic Performance, Students societies and many other events within and outside the campus to develop and motivate the students.



KFUEIT – At a Time-Scale Glance

Milestone	2014	2017	2018	2019*	2020**
Academic Programs	4	14	41	94	120
Total No. of Students	200	2,000	4,800	10,000	15,000
Total Female Students	10	700	2,200	3,800	4,500
Total No. of Faculty	5	130	200	225	250
No. of PhDs	1	55	90	110	150
Land (Area)	218	275	275	275	450
Built-up Space (Sq. ft.)	0	150,000	500,000	1.0 mil	1.5 mil
No. of Classrooms & Labs	4	40	140	180	220
Internet Bandwidth (Mbps)	0	90	460	700	1,000
Library Books	0	16,000	30,000	100,000	150,000
No. of Engineering Degree Programs	2	4	14	28	35
No. of CS&IT Degree Programs	2	3	6	10	15

* Planned after Fall 2019 admissions ** Projected numbers for next year end



KHWAJA FAREED
UEIT
RAHIM YAR KHAN



Why KFUEIT?

A Premium Institution in Making:

- Visionary and Professional Leadership
- Strategic location at the confluence of three provinces, serving needs of significant population
- Exponential growth in past and aggressive plans for future
- State of the art infrastructure, ICT network, automation and facilities
- Latest laboratories with commercial testing facilities
- Prime focus on research and commercialization with 12 research centres
- Attracting competent and qualified faculty
- MoUs of mutual cooperation and development with International Universities / Institutions
- Offering outcome based and futuristic programs with associated lab and research platforms
- Strong vigilance and feedback system for improvement
- Connected with contemporary World and latest research / happenings
- International seminars, conferences and engagements with eminent guest speakers
- Industrial collaboration and partnerships
- Professional work culture driven by young and energetic employees

Career Oriented Education:

- Educational trips
- Internship and placements
- Guest speakers and seminars
- Job fairs and Mock interviews
- Entrepreneurship events
- Open House and Projects Exhibitions

Personal Development Opportunities:

- Being part of different student societies
- Skill development through volunteer work
- Teaching Assistance and Research Associates opportunities
- Event management

Extracurricular Activities:

- Sports (Cricket, football, badminton, table tennis, volleyball, tug of war, chess and athletics)
- Students Societies
- Pakistan Day, Defence, Quaid Day, Iqbal Day
- Religious Events (Qir'at & Na'at Competitions, Eid Milad-un-Nabi)
- Seminars, Mushaira and Bait Baazi
- Declamation contests
- Body building competition, women pink day,
- Fun fairs, cultural days,
- Welcome & farewell parties

فاش فریدائے وعظ سُناتوں
عالم جاہل شاہ گداکوں
جے کوئی چاہے فقر فناکوں
اپنے آپ کُوں گولے

حضرت خواجہ غلام فریدؒ

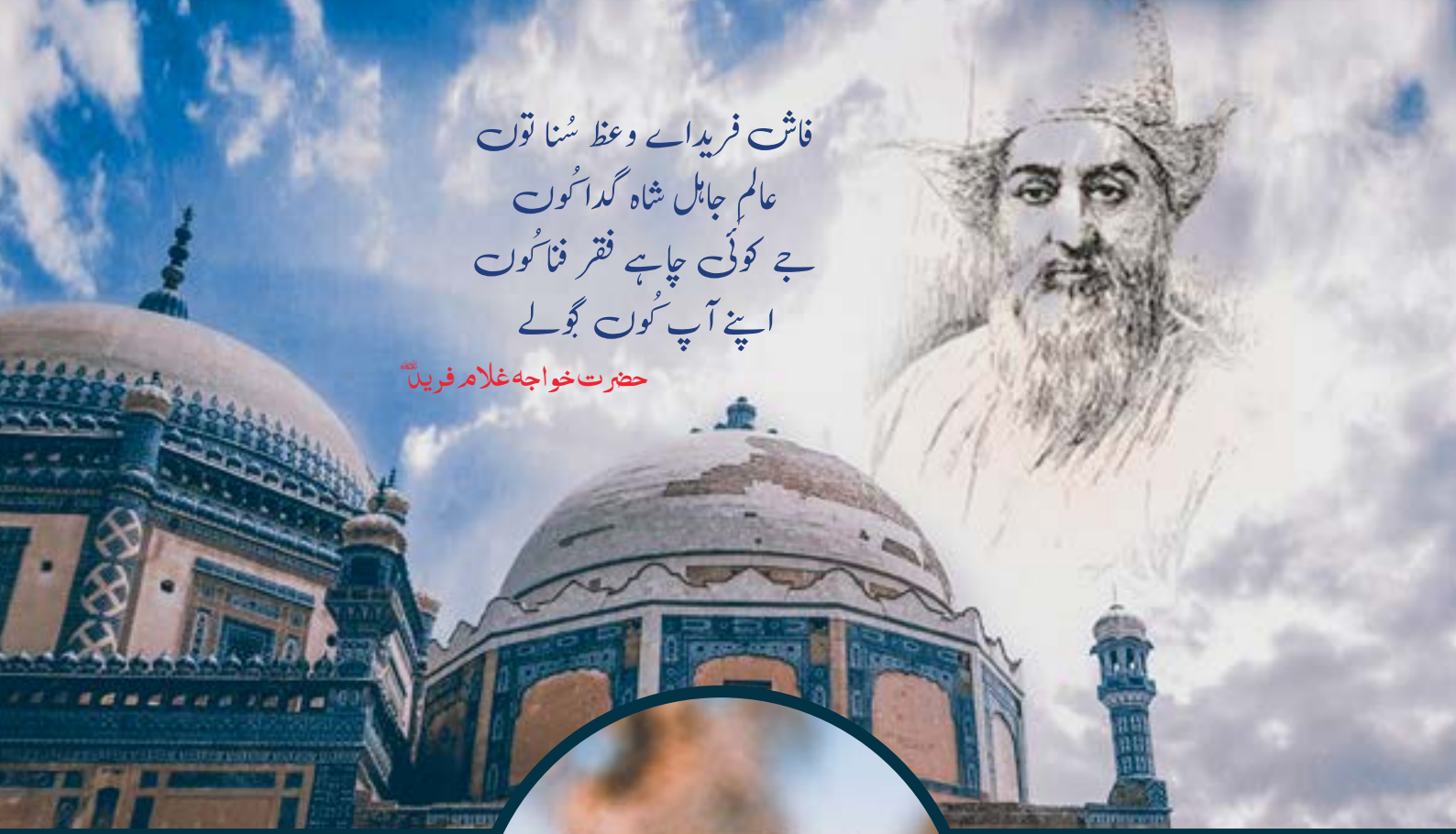


Photo Clicks By : Usman Tariq



In and Around KFUEIT

In Campus Salient Features:

- A scenic and modern campus spread over 275 acres
- Highly qualified faculty members with 100 Phds
- Latest ICT Infrastructure and automation
- Advance Research Labs with Commercial Testing services
- Active Research center of Computing, Engineering and Basic Sciences Departments
- Vigilant Security Department including Quick Response Force
- Active student societies, clubs and associations
- Career Counseling and Industrial Placement Center
- Numerous extracurricular and Sports opportunities
- Hi speed internet connectivity
- Latest technology multimedia enabled lecture theatres and classrooms
- Transportation Facilities
- Full-time access to digital library
- Hostel facilities
- Medical Center (dedicate male and female Medical Officers)
- Inhouse UFS Cafeteria

Around Campus – Amenities and Places to Visit

- Nice places to visit in and around RYK city
- **Cholistan Desert, Bhong Mosque, Derawar Fort, Pattan Minara**
- Rahim Yar Khan: Decently developed city with all necessary education, health, hangout and shopping facilities
- Geographical hub of three provinces
- Landmark industries (Unilevers, Coca Cola, FFC, Fatima Fertilizers, Engro Fertilizer, Sugar Mills, Cotton & Oil Mills etc)
- Premium Education institutions (university, medical college, public and private schools & colleges)



Transportation & Connectivity

- RYK has modern modes of transportation and logistics available. Travelers get multiple options including but not limited to international airport, quality bus travel (Daewoo, Faisal Mover, President Line etc), rail connectivity and many other touchpoints of goods movement. Daily flights are available for Karachi, Lahore and Islamabad besides dedicated stopover of all top class railway trains. The air linkage is very instrumental for the business, political and corporate activities for the people of this area. The strategic geographic location of city is all set to get benefit from CPEC motorway route touching city with two interchanges.
- University has its own fleet of transport commuting within RYK, Sadiqabad, Khanpur and Zahir Pir.

DERAWAR FORT



CHOLISTAN DESERT



BHONG MOSQUE



PATTAN MINARA



KFUEIT

International Linkages & Collaborations

Introduction and Overview

In its effort to promote quality education, KFUEIT started collaborations with eminent universities of the region in 2018 both national and international. In this regard, MoUs have been signed with two universities of Malaysia and ICCBS, University of Karachi. These collaborations will open excellent academic and research opportunities for students and faculty members.



**University Utara
Malaysia**



**UTHM
Malaysia**



**ICCBS
University of Karachi**

Cholistan Heritage Museum

A Project to Discover the Glory of Desert and Hakra River Civilization



Under the guidance and supervision of International Eminent Archaeologist, a museum named “Cholistan Heritage Museum” is being established at Khwaja Fareed University of Engineering & Information Technology (KFUEIT) Rahim Yar Khan. The museum carries significant importance for KFUEIT and Rahim Yar Khan, because the students of BS Heritage Studies will have hands-on opportunities to work on this project of discovering the glory of Cholistan Desert and Hakra River Civilization.

Core Objectives

- Project and preserve history and cultural heritage
- Become a heritage research and training institution
- Establish Analytical Laboratories
- Create database of cultural heritage
- Establish an Information Wing on heritage
- Create Exploration and Excavation Wing
- Create Museum Educational Services
- Promote Tourism in Southern Punjab and beyond
- Study and Document desert and nomadic life

Proposed Galleries of Museum:

- Prehistoric Culture and The Indus / Harappan Civilization
- Islamic and Medieval History and Arts
- Buddhist, Brahmanical and Jain History and Arts
- Sikh and the British History and Arts
- Cholistan and Rural Landscapes
- Folk Arts and Traditions
- Khwaja Ghulam Fareed Gallery of Religious and Spiritual Heritage
- (Arabic, Persian, Urdu, Sindhi, and Saraiki / Punjabi manuscripts)
- The Quaid-I-Azam Gallery of Pakistan Movement
- Friends of Museum Gallery
- Children’s Gallery
- Reference Library of books, photo archives and videos

Archaeological Field Research and Training Program

Titled as "A Multidisciplinary and Collaborative Project of Heritage Research and Capacity Building in Southern Punjab with Focus on Bahawalpur Region, 2019 – 2024", a programme of field research and training in various aspects of archaeology and heritage has already been approved by Government of Punjab. This field project is based at Khwaja Fareed University of Engineering & Information Technology (KFUEIT) with following team:

- **Engr. Prof. Dr. Athar Mahboob (TI)**
- **Dr. Khalil Ahmed**
- **Dr. Haroon Rasheed**

Vice Chancellor and Chief Coordinator
Assistant Professor of Heritage Studies
Assistant Professor/HoD, Civil Engineering



KFUEIT and SCARP

Joint Venture for Tree Plantation in Cholistan Desert

Introduction

Salinity Control and Reclamation Project (SCARP) was launched by WAPDA with financial assistance of World Bank in 1981 due to rise of water table to 1-2 ft below ground level. Large area of District Rahim Yar Khan was turned into wasteland due to saline water. SCARP was launched to reclaim salinity affected lands and facilitate agriculture development by lowering ground water table. The project became operational under Punjab Irrigation Department in 1989 and its operational & maintenance responsibility was handed over to Pak Army. The pumped out brackish water is spread in desert ensuring max losses by evaporation. The project has so far reclaimed 1.34 Million Acre Ft (MAF) of land in District RYK.

Background

Presence of excessive salts and sand content around SCARP Pondage makes it difficult to carry out any Plantation around SCARP lakes. Very High Temp in summers and very low (around 00c) in winters with pondage waters of over 20,000 Total Dissolved Solids also makes survivability of plants a challenge. Moreover, growth rates of any plants which survived is very very slow.

Study

The Study was conducted by a team of Khawaja Fareed University of Engineering and Information Technology (KFUEIT) headed by Vice Chancellor Engr. Prof. Dr. Athar Mehboob (TI), Rana Mujeeb Arjumand and Head of Horticulture Department, Qazi Rizwan. Special procedure was adopted to carry out plantation to protect roots of plant from excessive salts attack.

Pilot Project Plantation

2x Plots with capacity of 50x plants were selected around SCARP lakes at GWB and plants are placed at distance of 20 ft in shape of orchard and covered its sides with bush fence to guard against grazing animals. A special Nursery plastic tube was vertically erected and placed inside hole of 3' dia & 3' deep and filled with sweet soil. Plants were then placed in sweet soil and being given sweet water.

Khawaja Fareed University of Engineering & Information Technology (KFUEIT) has collaborated in this project by initiating a mega tree plantation. The Horticulture Department of KFUEIT has so far planted more than 200 trees in Cholistan desert. The plants planted in this pilot project include Sapodilla, Mulberry, Pilkhan, Arjun, Neem, King Ficus, Kachnar. Besides this, more than 100 plants of Mangroves have also been brought from Karachi and are planted in 3 different conditions:-

- Total Saline Water.
- Planted in Saline and mix with Sweet Water.
- Planted under shade to take care of extreme temps.

Results and outcome of growth are being maintained regularly for upscaling the project in future.



Come and Visit Us

Who to Contact?

Admission related queries

Admission Office

Marketing, Press & PR

Department of Marketing & Communications

Student Affairs

Directorate of Students Affairs

General queries

Office of the Registrar

Campus Visit

We welcome the delegates and visitors to come and get briefed about KFUEIT along with a Campus Tour. In this regard, a prior approval and scheduling from the concerned departments will be required subject to availability of slots and academic activities.

Please contact our Marketing & Communication Department for any such visit plan:

Call: +92 (68) 5882411

OR

Email: pro@kfueit.edu.pk

A large-scale construction site is shown at sunset. Several tall tower cranes are visible against a sky with soft, colorful clouds in shades of blue, orange, and yellow. In the foreground, the skeletal frame of a multi-story building is under construction, with some windows already installed. The overall scene conveys a sense of active development and infrastructure growth.

**Infrastructure
& Development**

Section

2

Infrastructure & Development

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PLANNING & DEVELOPMENT AT KFUEIT

Introduction

The development of Khwaja Fareed University of Engineering and Information Technology, Rahim Yar Khan started in 2014 when the Government of Punjab provided 220 Acres of land for its campus on Abu Dhabi Road, Rahim Yar Khan about 5 km outside the city limit. Thereafter, through the involvement of the University of Engineering & Technology, Lahore under the dynamic leadership of its then Vice Chancellor, Lt. Gen. (Retd.) Akram Khan, a PC-1 of Rs. 3,847 Million was prepared and subsequently approved by the Planning & Development Board, Punjab for the Establishment of Khwaja Fareed University of Engineering & Information Technology, Rahim Yar Khan. M/S NESPAK, the world-renowned National Engineering Services of Pakistan, were engaged as Consultants for Engineering Design and Resident Engineering Supervision for Campus Construction. Significant progress on campus development started after the first duly appointed Vice Chancellor of the University, Engr. Prof. Dr. Athar Mahboob, Tamgha-e-Imtiaz joined on 2 September 2015. Dr. Athar Mahboob formed a core team and started fast track execution of the project by shifting classes and administration to University's own campus on Abu Dhabi Road in few renovated buildings. After due process of following PPRA regulations several contracts for construction of buildings and infrastructure development were awarded by April 2016. Subsequently, remainder of the works were awarded by December 2017.



S. No.	Title	Submitted To
1	Establishment of KFUEIT, Rahim Yar Khan (RYK) Phase-1 (Revision)	Higher Education Department (HED), Government of the Punjab
2	Establishment of KFUEIT, RYK Phase-2	HED, Government of the Punjab
3	Long Term Sustainability Project for KFUEIT	HED, Government of the Punjab
4	Provision of Necessary Infrastructure and Supporting Facilities for High Quality Education at KFUEIT, RYK	Higher Education Commission (HEC)
5	Establishment of Centre for Research and Innovation in Food, Energy, Environment, Material and Forensic Science	HEC

During the initial phase of the University (2015-18), Project Department / Project Management Unit was established at KFUEIT to undertake fast track development of physical infrastructure of the University under the PC1 for Establishment of Khwaja Fareed University of Engineering and Information Technology, Rahim Yar Khan. At present a number of buildings and physical infrastructure projects stand completed due to the herculean efforts made by team members of the Project Department and the Campus Construction Committee members. The tremendous growth in student numbers and variety and large number of academic programs being offered at the University, within a short span of three years, is a testament to the sincere and untiring efforts made by the team members of the Project Department and Campus Construction Committee members. With a view to further streamline the process of physical development of the University, and as already envisaged earlier, Planning & Development Department was activated at the University in October 2018.

In this section information is provided about the various development plans and PC-1's prepared by the University to realize its vision and objectives, as per its Act and to contribute to regional and national economy in a significant manner. The purpose of these plans is to create physical infrastructure of the University consisting of, but not limited to, Buildings and Classroom Facilities, Teaching and Research Laboratories, Academic Departmental Offices, Library Facilities & Campus Study Spaces, Recreation / Athletic Spaces, Food Service Areas, Plant Maintenance, Administrative Offices, Central Services, Health Service Facilities, Common Use & Student Activity Spaces, Assembly and Exhibition Facilities, Residential Spaces, etc. Furthermore, these plans also document the requirements of transport, laboratory equipment, teaching aids, furniture, books and other specialized equipment for the University campus development. Lastly, the current Master Plan on 275 Acres and a proposed one on approximately 600 Acres are provided in this section.

Establishment of KFUEIT RYK, Phase-1

Khwaja Fareed University of Engineering & Information Technology was established in 2014 under The Punjab Assembly passed Act (Act XVI of 2014) for KFUEIT on 29th May 2014. In the beginning, classes of BS Electrical Engineering, BS Mechanical Engineering, BS Computer Science and BS Information Technology were started in Government College of Technology, Rahim Yar Khan. It moved to its own campus in January 2016. Initial PC-1 Phase-1 of worth PKR 3,847 Million was prepared and submitted by UET Lahore in April 2014 to Higher Education Department. It mainly included purchase of land, physical infrastructure development such as construction of 6x academic buildings, hostels for students and faculty, common facilities, residences, external development, horticulture and procurement of lab equipment, books, furniture and transport facilities.



Due to some important factors such as increase in the cost of development and quantities, revised rates of bi-annuals, budget constraints, increase in material cost, a revision of Phase-1 was submitted in April 2019 against PKR. 6,108.31 Million, which is under revision phase.

1.1 Physical Development Plan & Progress Summary of Phase-1

Following is the current progress and future plan summary for Phase-1 which shows the status of the physical infrastructure and supporting facilities:

S. No.	Description	Physical Progress (in % age)	Status / Plan
1	Land	100	Completed
2	Academic Buildings		
	a. Construction Work of Department of Electrical Engineering	100	Completed
	b. Construction Work of Department of Mechanical Engineering	100	Completed
	c. Construction Work of Department of Information Technology & Computer Science	85	*Dec. 2019
	d. Construction Work of Department of Computer Engineering & ICT	100	*Dec. 2019
	e. Construction Work of Department of Civil Engineering	100	Completed
	f. Construction Work of Department of Basic Sciences, Humanities and Business Management	85	*Dec. 2019
3	Hostels		
	a. Hostel for 150 students	25	June 2020
	b. Faculty Hostel	75	*Dec. 2019
4	Building of Common Facilities		
	a. Construction Work of Library	25	*June 2020
	b. Construction Work of Admin Block + Two Rooms one each for Tube well and Electric substation.	25	*June 2020
5	Residential Buildings	75	*Dec. 2019
6	External Development etc.		
	a. Infrastructure Development (Main Boulevard Road)	100	Completed
	b. Infrastructure Development (Water Supply, Sewerage, Roads)	80	*Dec. 2019
	c. Boundary Wall	100	Completed
	d. Four Gates and Pillars etc.	100	Completed
	e. Overhead reservoir 75,000 Gallon @ 150M/Gallon	80	*Dec. 2019
	f. Tubewell of 01 Cusec	100	Completed
	g. WAPDA Connections & Security Charges	45	*Dec. 2019
7	Horticulture / Tree plantation	100	Completed
8	Lab Equipment	100	Completed
9	Books	100	Completed
10	Furniture	100	Completed
11	Transport	100	Completed
12	Contingencies	100	Completed

* All dates provided are relative to funds availability, if funds will be released in June 2019

“In an effective classroom, students should not only know what they are doing, they should also know why and how ”

-Harry Wong

1.2 Buildings, Covered Area and Cost Summary as per Revised PC-1 Phase-1

The details of physical infrastructure along with covered area and cost are as follow:

S. No.	Description	Total Covered Area (in sq. ft.)	Revised Cost (in PKR Million)
1.	Land	-	266.78
2.	Academic Buildings		1,442.196
	a. Department of Electrical Engineering	66,648	243.871
	b. Department of Mechanical Engineering	72,584	248.202
	c. Department of Information Technology & Computer Science	59,944	237.056
	d. Department of Computer Engineering & ICT	66,342	232.160
	e. Department of Civil Engineering	73,332	256.824
	f. Department of Basic Sciences, Humanities & Business Management	66,264	224.083
3.	Hostels		316.476
	a. Hostel for 150 Students	57,186	199.807
	b. Faculty Hostel (07 Sets)	35,840	116.669
4.	Building of Common Facilities		410.979
	a. Main Library	79,382	235.789
	b. Construction Work of Admin Block + Two Rooms	43,674	175.190
5.	Residential Buildings		223.292
6.	External Development etc.		647.58
	a. Infrastructure Development		441.96
	b. Boundary Wall		79.66
	c. Four Gates and Pillars etc		1.687
	d. Overhead Reservoir 50,000 Gallon @ 150/M Gallon		20.42
	e. Tubewell of 01 Cusec		4.34
	f. Sui Gas Connection & Security Charges		42.521
	g. WAPDA Connections & Security Charges		56.989
7.	Mega Project Allowance @ 4.167 %		85.273
8.	Horticulture / Tree Plantation		70.74
9.	Consultancy Services @ 5%		147.78
10.	Lab Equipment		1,040.85
11.	Books		30.21
12.	Furniture		87.32
13.	Transport		92.65
14.	Contingencies		308.27
15.	Recurring Expenditure for FY 2014 – 15 to 2018 – 19		938.00
Total			6,108.310

“A man who wants to lead orchestra must turn his back on the crowd”

-Max Lucado

2. Establishment of KFUEIT RYK, Phase-2

As KFUEIT is a multi-billion project, therefore it is divided into phases. The new infrastructure requirements that are included in Phase-2 were either not included, or left over in Phase-1 and not sufficient with the increase in number of students.

Phase-2 was submitted against PKR 2,000 Million in May 2019. Funds amounting Rs. 370 Million has been allocated in the ADP 2019-20, by the Government of the Punjab, against estimated cost of Rs. 2,000 Million for Phase-2 to provide additional facilities. Whereas remaining amount PKR 1,630 Million has been projected in 2020-21 and 2021-22, respectively.

Likewise Phase-1, Phase-2 will mainly include physical infrastructure development. A summary of Phase-2 is as follow:

S. No.	Title	Description
1	Hostels	4x Hostel for Student
2	Supporting Buildings	a) Mosque b) Transport Yard c) Medical Center
3	New Boundary Wall	5,800Rft
4	Infrastructural Works	a) High Voltage Distribution Network within Campus b) Water Filtration Plant c) Horticulture d) Waste Disposal Station
5	Revenue Items	a) Information Technology Infrastructure b) Transport c) Library Books d) Furniture

3. Long Term Sustainability Project for KFUEIT, RYK

Long Term Sustainability (LTS) for KFUEIT has following two parts

S. No.	Title	Total Cost (in PKR Million)
1	Faculty Development Programme	6,090
2	Endowment Fund	2,000
Total Cost of the Project		8,090

i. Faculty Development Programme (FDP):

FDP will produce 250 - 350 PhD qualified individuals in the next 5 years with the use of 50 international scholars in order to fulfil the high quality faculty requirements of KFUEIT and other educational, research and development organisations in the Punjab as well as throughout Pakistan.

ii. Endowment Fund:

Public sector institutions like KFUEIT requires financial assistance to sustain its operations. Most of the public sector universities are highly dependent on the annual grant provided by the Higher Education Commission of Pakistan. Keeping in view, KFUEIT prepared a well thought out Business Plan under Endowment Fund seeded by a grant of PKR 2,000 Million from the Government of Punjab.

This project was submitted in March 2019. LTS funding if implemented faithfully, will ensure the long term sustainability of KFUEIT and will enhance entrepreneurship opportunities, more industrial collaborations and contribution in filing patents etc.

4. Provision of Necessary Infrastructure and Supporting Facilities for High Quality Education at KFUEIT, Rahim Yar Khan

The PC-1 for Provision of Necessary Infrastructure was submitted to HEC in August 2018. The objective of the proposed PC-1 is to strengthen KFUEIT, RYK by providing additional required physical infrastructure and facilities essential for higher education which were left out during Phase-1 due to limited funds.

These requirements include infrastructure consisting of high-voltage electrification work, 2.5 MW On-grid Solar Power System, IT networking within campus and 200 computers for labs. Laboratory equipment for new disciplines such as Chemical Engineering, Agricultural Engineering and Food Science & Technology are required to provide the essential missing facilities and to accommodate the foreseen growth in students, faculty and other staff numbers.

S. No.	Description	Total Cost (in PKR Million)
1	Infrastructure Works High-Voltage Electrification	1,209.78
2	2.5 MW On-grid Photo-Voltaic Solar Power Solution Miscellaneous Items	

5. Establishment of Center for Research & Innovation in Food, Energy, Environment, Material and Forensic Science

Research and Innovation are among the main drivers of higher education development that leads to economic growth. Research and Innovation Centre is the appetite and desire of the students to innovate and to do something entirely new.

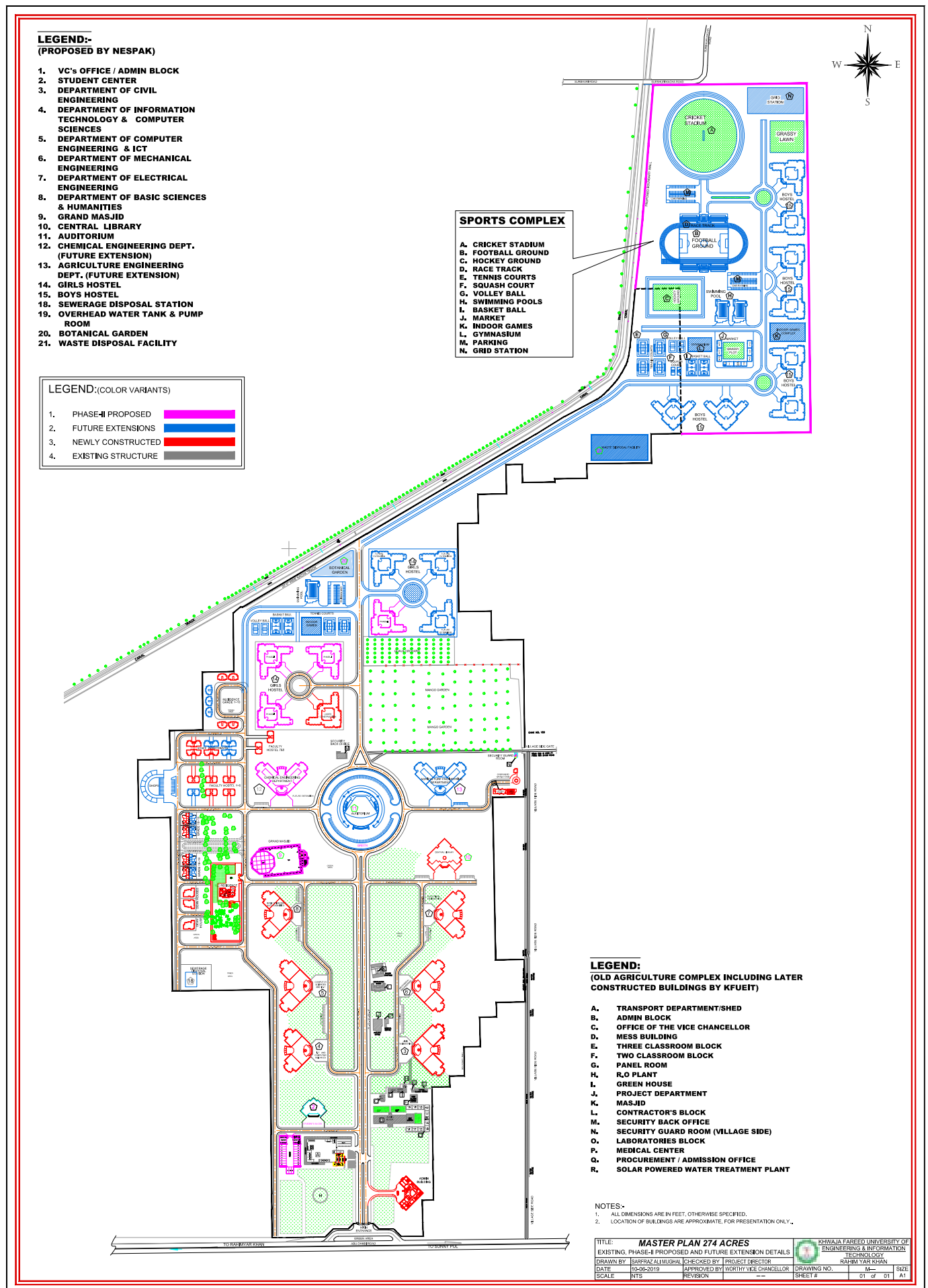
PC-1 for the Establishment of Centre for Research and Innovation was submitted to HEC in March 2019 against PKR 2,323 Million for their necessary actions. Summary for the proposed PC-1 is as follow:

S. No.	Title	Total Cost (in PKR Million)
1	Construction Work of Innovation Centre	2,323.09
2	2.5 MW Solar Power Plant	
3	Installation of Anaerobic Digester	
4	Revenue Items	
	(a) Library Books	
	(b) Lab Equipments	
	Bio-Chemistry Labs	
	Bio-Technology Labs	
	Food Science & Technology Lab	
	Forensic Labs	

Land and Master Plan Layout

KFUEIT is located in South-East of Rahim Yar Khan city, approximately 15 km away from city centre whereas approx. 23 km from main National Highway N5.

At present, KFUEIT has 274 acres of land but it aims to acquire adjacent area of 311 acres of additional land in near future. KFUEIT plan to acquire additional land is to minimise security risk, as current land area is irregular in shape which increases security and surveillance cost. Moreover, the additional land adjacent to KFUEIT campus is an agricultural land and value of the land is affordable which will certainly increase with the passage of time. Additional land will be utilised for further expansion of academic buildings, hostels for faculty and students, residences along with admin block, student center, grand mosque, central library, auditorium, botanical garden, solar power plant, grid station, agricultural research farm, technology park, waste treatment facility (anaerobic digester), dairy research farm, museum for heritage, indoor sports complex, gym and other developmental projects.

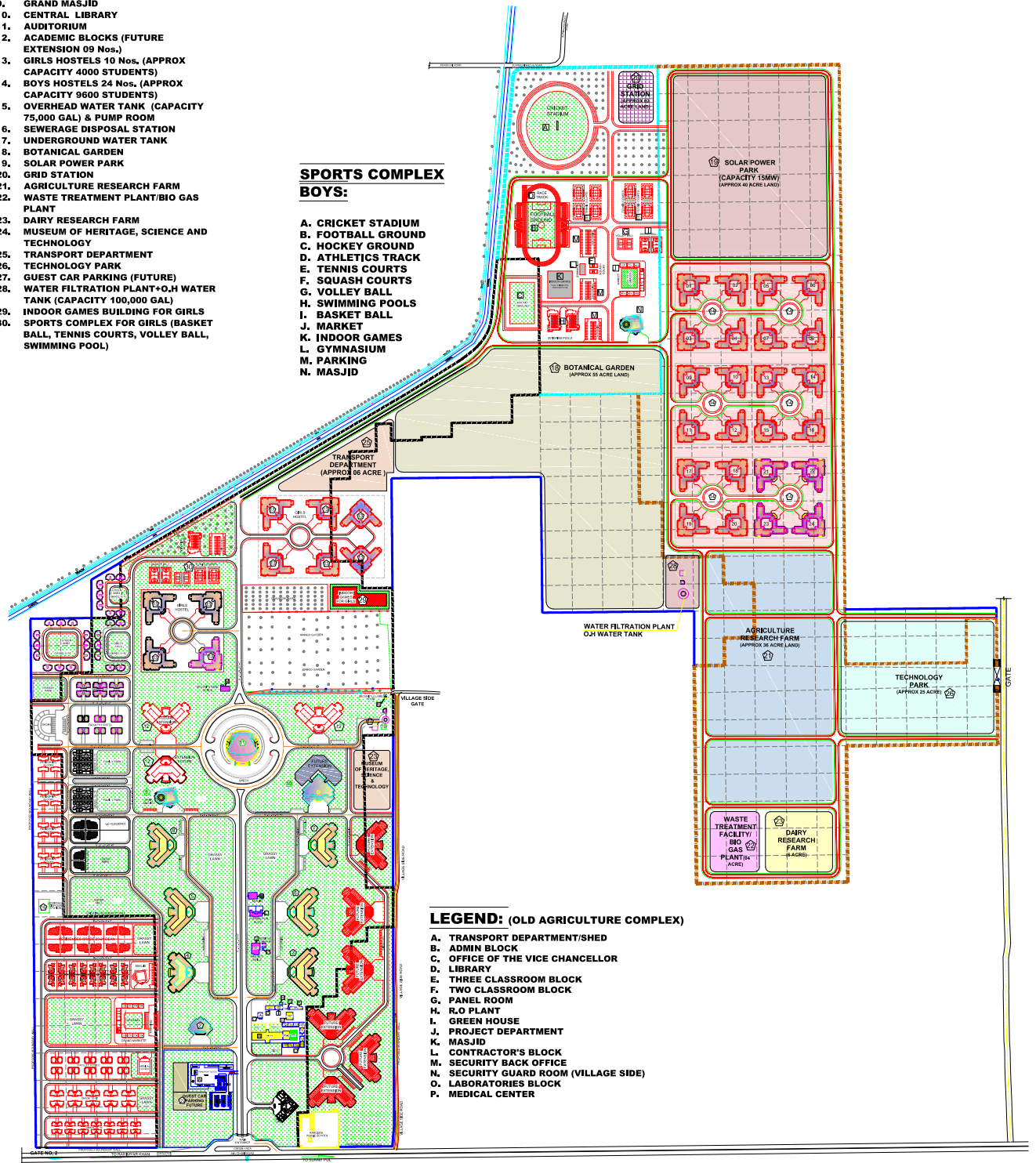


LEGEND:

1. VC's OFFICE / ADMIN BLOCK
2. STUDENT CENTER
3. DEPARTMENT OF CIVIL ENGINEERING
4. DEPARTMENT OF INFORMATION TECHNOLOGY & COMPUTER SCIENCE
5. DEPARTMENT OF COMPUTER ENGINEERING & ICT
6. DEPARTMENT OF MECHANICAL ENGINEERING
7. DEPARTMENT OF ELECTRICAL ENGINEERING
8. DEPARTMENT OF BASIC SCIENCES & HUMANITIES
9. GRAND MASJID
10. CENTRAL LIBRARY
11. AUDITORIUM
12. ACADEMIC BLOCKS (FUTURE EXTENSION 09 Nos.)
13. GIRLS HOSTELS 10 Nos. (APPROX CAPACITY 4000 STUDENTS)
14. BOYS HOSTELS 24 Nos. (APPROX CAPACITY 9600 STUDENTS)
15. OVERHEAD WATER TANK (CAPACITY 75,000 GAL) & PUMP ROOM
16. SEWERAGE DISPOSAL STATION
17. UNDERGROUND WATER TANK
18. BOTANICAL GARDEN
19. SOLAR POWER PARK
20. GRID STATION
21. AGRICULTURE RESEARCH FARM
22. WASTE TREATMENT PLANT/BIO GAS PLANT
23. DAIRY RESEARCH FARM
24. MUSEUM OF HERITAGE, SCIENCE AND TECHNOLOGY
25. TRANSPORT DEPARTMENT TECHNOLOGY PARK
26. GUEST CAR PARKING (FUTURE)
27. WATER FILTRATION PLANT+O.H WATER TANK (CAPACITY 100,000 GAL)
29. INDOOR GAMES BUILDING FOR GIRLS
30. SPORTS COMPLEX FOR GIRLS (BASKET BALL, TENNIS COURTS, VOLLEY BALL, SWIMMING POOL)

SPORTS COMPLEX BOYS:

- A. CRICKET STADIUM
- B. FOOTBALL GROUND
- C. HOCKEY GROUND
- D. ATHLETICS TRACK
- E. TENNIS COURTS
- F. SQUASH COURTS
- G. VOLLEY BALL
- H. SWIMMING POOLS
- I. BASKET BALL
- J. MARKET
- K. INDOOR GAMES
- L. GYMNASIUM
- M. PARKING
- N. MASJID

**LEGEND: (OLD AGRICULTURE COMPLEX)**

- A. TRANSPORT DEPARTMENT/SHED
- B. ADMIN BLOCK
- C. OFFICE OF THE VICE CHANCELLOR
- D. LIBRARY
- E. THREE CLASSROOM BLOCK
- F. TWO CLASSROOM BLOCK
- G. PANEL ROOM
- H. R.O PLANT
- I. GREEN HOUSE
- J. PROJECT DEPARTMENT
- K. MASJID
- L. CONTRACTOR'S BLOCK
- M. SECURITY BACK OFFICE
- N. SECURITY GUARD ROOM (VILLAGE SIDE)
- O. LABORATORIES BLOCK
- P. MEDICAL CENTER

NOTES:-

1. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SPECIFIED.
2. LOCATION OF BUILDINGS ARE APPROXIMATE FOR PRESENTATION ONLY.

TITLE: MASTER PLAN 586 ACRES				KIRWAJIA FARIED UNIVERSITY OF ENGINEERING & INFORMATION TECHNOLOGY	
EXISTING AND PROPOSED				RAHIM YAR KHAN	
DRAWN BY	SARFAT ALMUGHAL	CHECKED BY	PROJECT DIRECTOR	DRAWING NO.	01 of 01
DATE	10-26-2019	REVISION	APPROVED BY	SHEET #	01
SCALE	NTS	REVISION	---	SIZE	A1

Information & Communication Technology (ICT)

Introduction

From its very inception, Khwaja Fareed University of Engineering & Information Technology (KFUEIT) is Convinced that, if it wants to achieve its lofty objectives, it would require very strong Information & Communication Technology (ICT) infrastructure. Provision of state-of-the-art ICT facilities to its faculty, students & administrative staff are the cornerstone for development of Khwaja Fareed University of Engineering & Information Technology. With this in view, we at KFUEIT have perfected an ICT infrastructure design, through which we have implemented all sorts of information systems with ZERO cost for the software component, by leveraging open source technologies. For the hardware and networking components we have implemented solutions with long life and low cost. Additionally, with a minimum number of supporting staff, the deployed IT infrastructure gives KFUEIT, a leading edge over all other universities in the region.

The Campus incorporates cutting-edge ICT technologies to provide triple play services (data, voice and video) to the whole campus. This includes University Data Center, Campus-wide Fiber Optical Network and Wi-Fi mesh for high-speed data connectivity, video conferencing, IP-telephony, IP Fax facility, Smart class rooms and various other interactive features for entire campus. Solutions that we have made operational at KFUEIT for the academia include the technologies of learning management, university management, project management, communication and collaboration, virtual private network, thin client computing and multimedia services. At KFUEIT, our focus is to facilitate the adoption of open source software and technologies, in order to strengthen the technological base of the country and, at the same time, use the less money, thus saved for development of physical infrastructure.

KFUEIT Data Center

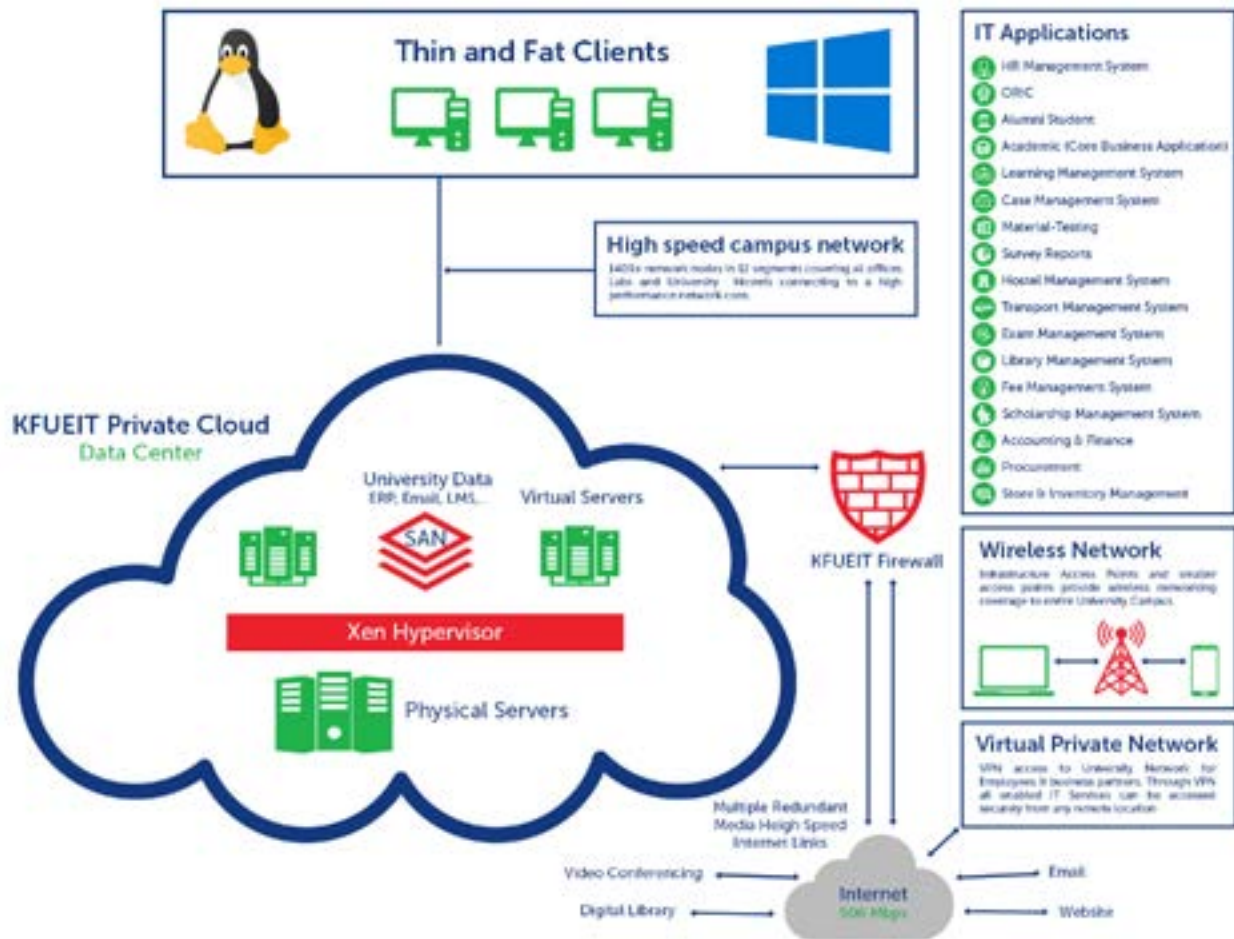
University mini datacenter is developed in accordance to common standards including fire detection, alarm & suppression system, redundant AC units, precision UPS & power system, CCTV and access control system for remote monitoring. KFUEIT data center is acting as hub for dissemination of LAN, Internet, IP-telephony, IP-Fax and Web Services, Server Farm which includes LMS, MIS, ERP, Firewalls, Wireless LAN Controller, Directory servers, Proxy, Email, Web, Network Management System, Backup and many more). More hardware has been added in data center in 2019 including additional racks for housing additional servers and large LCD for network monitoring.

“The growth and development of people is the highest calling of leadership”

-Harvey Firestone

KFUEIT Private Cloud

ICT infrastructure has been developed, based on the cloud computing paradigm. Keeping in view the security of information and requirements of a teaching and research university, both private as well as public clouds are leveraged. The private cloud consists of KFUEIT's own data center and a well designed high performance campus network.

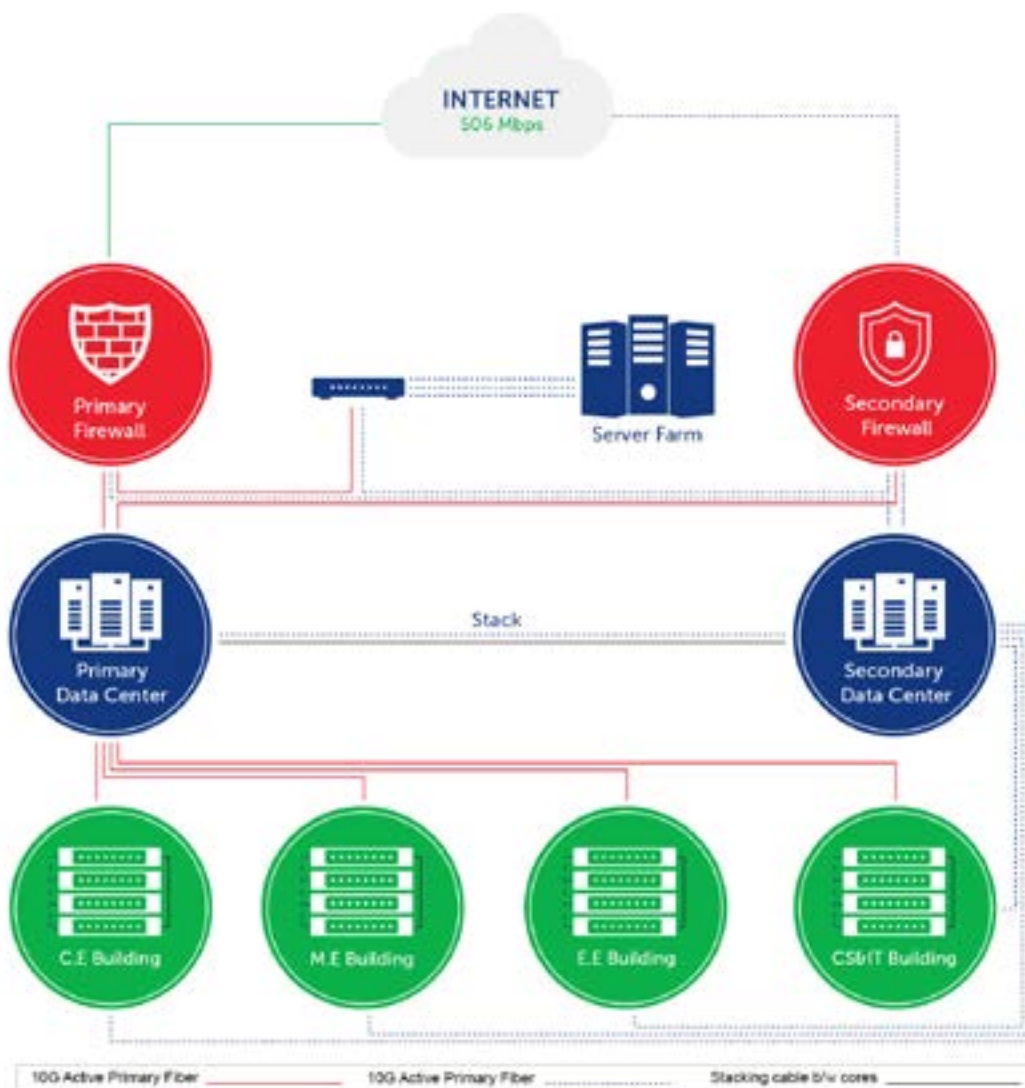


“What you do has far greater impact than what you say”

-Stephen Covey

KFUEIT Campus Network Infrastructure

Campus Network consist of collapsed core architecture which includes security, distribution and access layers. The network backbone comprises of primary & backup fiber optic links to network & communication rooms of each academic building. This is a hub-and-spoke architecture using routing and switching. High end switching fabric core and distribution switches, firewalls with high transmission rate ranging from 10 to 40 Gbps are commissioned. Gigabit Access Network has also been commissioned to ensure high-speed computing at user level. Access switches of high switching capacity are installed to handle data and multimedia traffic, efficiently. Redundant fiber optic links from each access switch to primary & secondary distribution switches are available for reliable layer-3 connectivity to each LAN user. It is important to mention here that device and link redundancy has been maintained at every level to ensure un-interrupted ICT services to users.. Switch to user connectivity is provided through top-of-the-line Gigabit Unshielded Twisted Pair (UTP) copper cabling. In order to monitor and manage the whole network, proprietary Network Management Systems (NMS) are being used. Since KFUEIT hostels are currently located at city area , in order to facilitate the intranet and internet services at hostel point to point wireless links are commissioned at all boys and girls hostel.

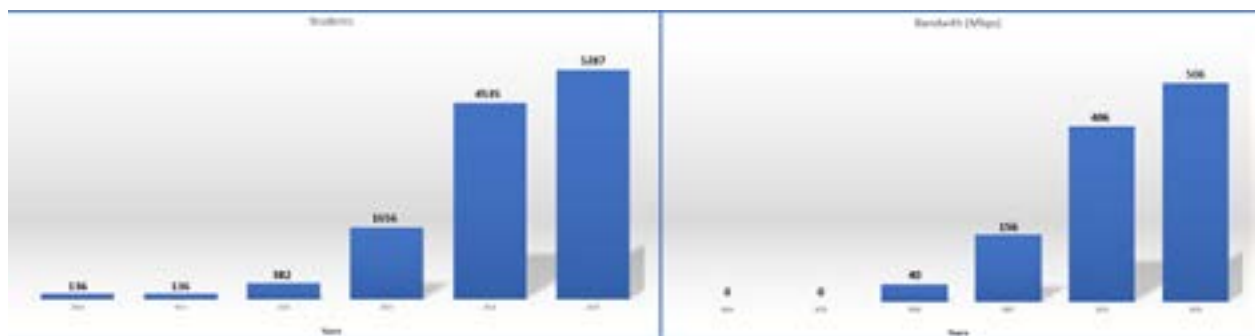


KFUEIT Smart Campus Technology

Taking advantage of technological advancements, University has implemented Wi-Fi mesh network throughout the campus. Wireless indoor and outdoor Access Points (APs) have been installed to give internet/network access to students, faculty and staff. Internet access has also been provided at all hostels through this network. It employs latest wireless protocol 802.11n with each AP providing a bandwidth up to 300 Mbps to the users. A total number of 70 APs are installed all around the campus and hostels.

High Speed Internet

High speed internet is available, round the clock, at campus and hostels for all the students, faculty and staff of University. Since KFUEIT ICT department was established in 2016 and it was their key preference to ensure the provision of high speed internet and IT facilities to the university users. Year wise students and internet bandwidth statistics are shown below.



IP Telephony & Fax

An integrated, modular, state-of-the-art communication server that supports advanced IP business-class Telephony System are operational at KFUEIT. Voice over IP (VoIP) system is based on Asterisk PABX Enterprise solution providing voice and data over a single network. The system is highly reliable having features such as voice mail and supports IP and PC soft phones, automatic call distribution, call-routing software, call-forwarding, automatic transfer of incoming calls, automated attendant, voice activated management of incoming calls, voice guides for external callers etc. It gives a unified view of the network as well as the necessary functions and features for centralized management, bulk operations, simplicity, and scalability. A total of 200 users were provided telephone facility till 2018. KFUEIT have also implemented cutting edge technology by providing IP Fax facility at the campus. Web Explorer can be used for composing and viewing fax messages which travel on network and are sent and received through IP Fax Server installed at data center.

Class Room Technology

Our classrooms, seminar halls and conference rooms are equipped with most modern technology for effective working. These devices include electronic rostrums and multimedia projectors. The electronic rostrums provide lecturer/presenter one touch control over IT/multimedia facilities (multi-media projector, projection screen, computer, LAN/Internet, audio equipment etc) available in classrooms, lecture halls, seminar halls, conference rooms etc.

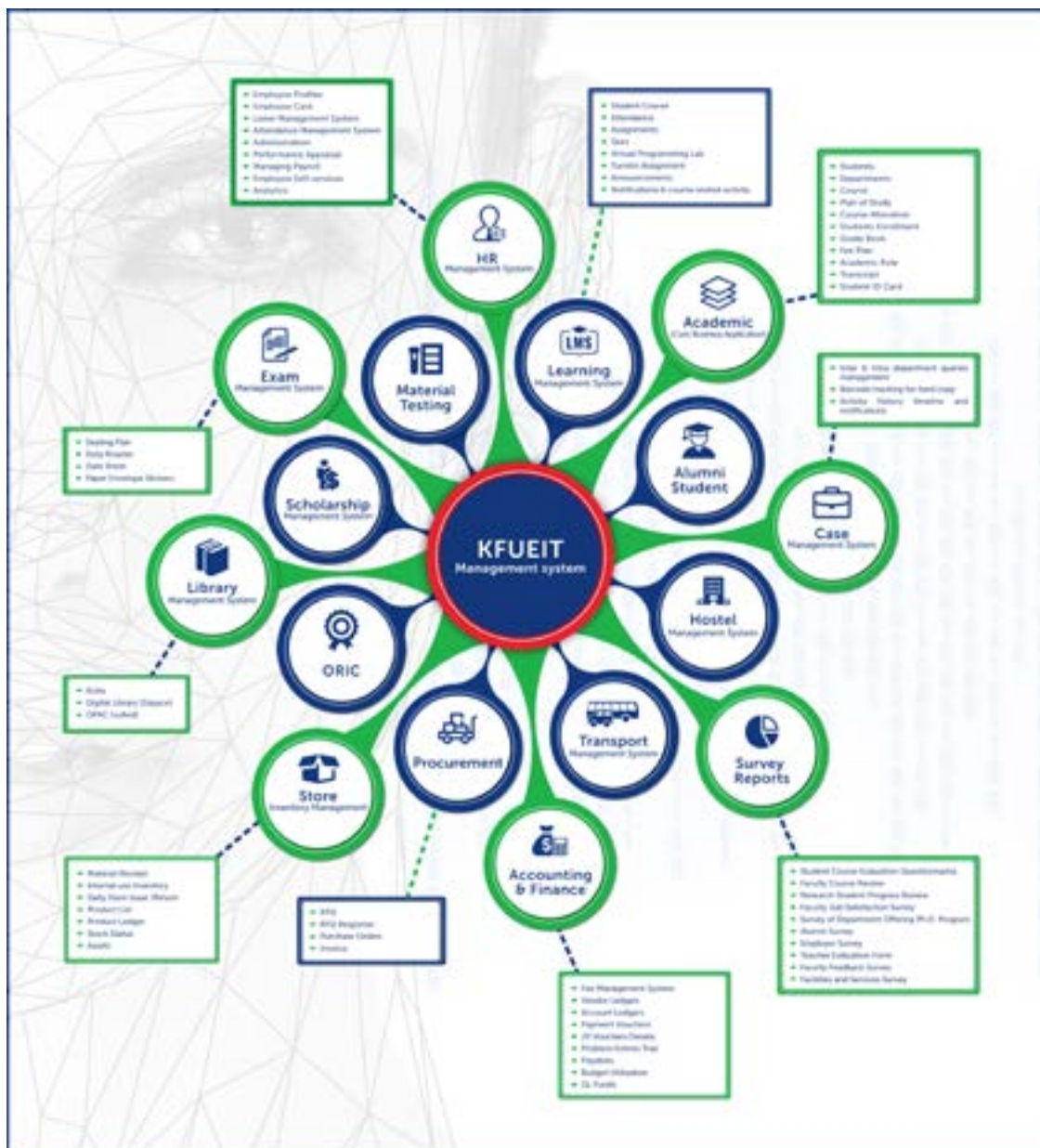
*“Never give an order that
can't be obeyed”*

-General Douglas MacArthur

KFUEIT Management System

KFUEIT management system enables students to access all of their applications at a single point of location. Following IT services are accessible at MY KFUEIT through single sign on

- **Home**
 - News Feed
 - Plan of Study
 - Current Enrolments
 - Transcript
 - Roll Number slip
 - Surveys
 - Semester fee voucher
 - ID Card fee voucher
- **HR Management System**
- **LMS (Learning Management System)**
- **Exam Management System**
- **Scholarship Management System**
- **Timetable Management System**
- **Library Management Systems**
- **Transport Management Systems**
- **Hostel Management System**
- **Store and Inventory Management**
- **Accounting & Finance System**
- **Feedback Survey Reports**
- **Case Management System**
- **Webmail**
- **ORIC**
- **Software Downloads**
- **Manuals**
- **Open Courseware**
- **Contact Directory**



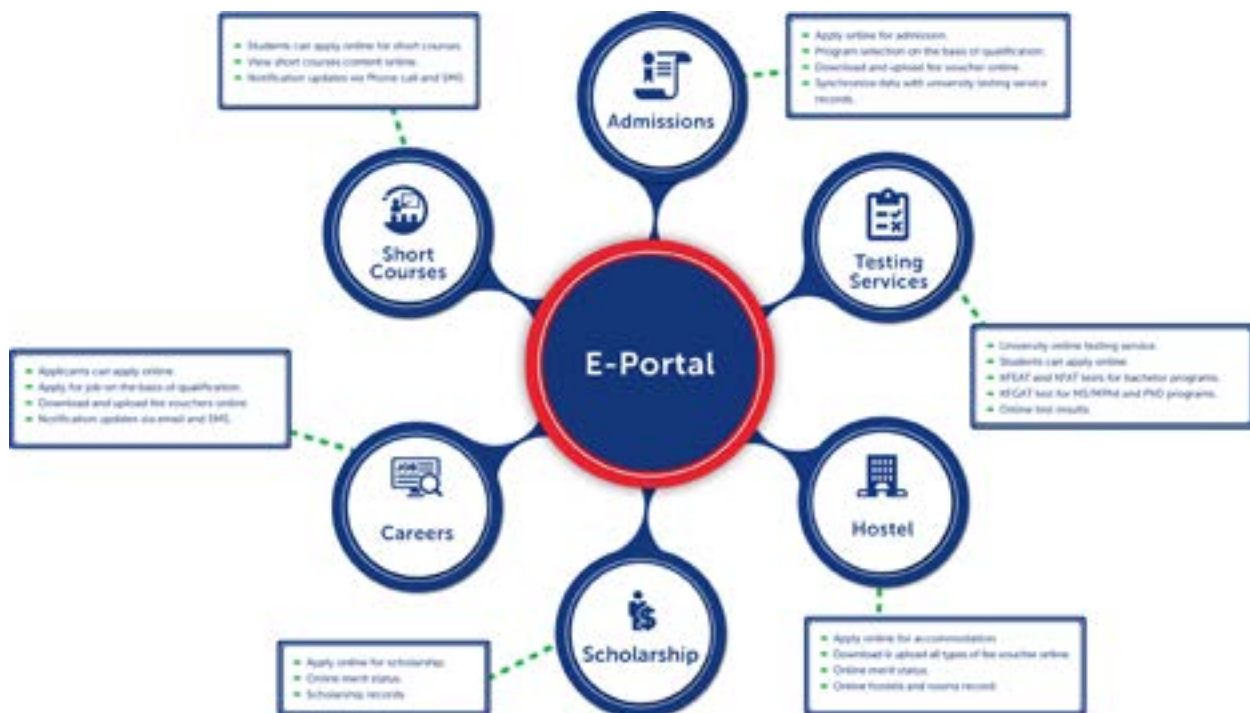
Learning Management System (LMS)

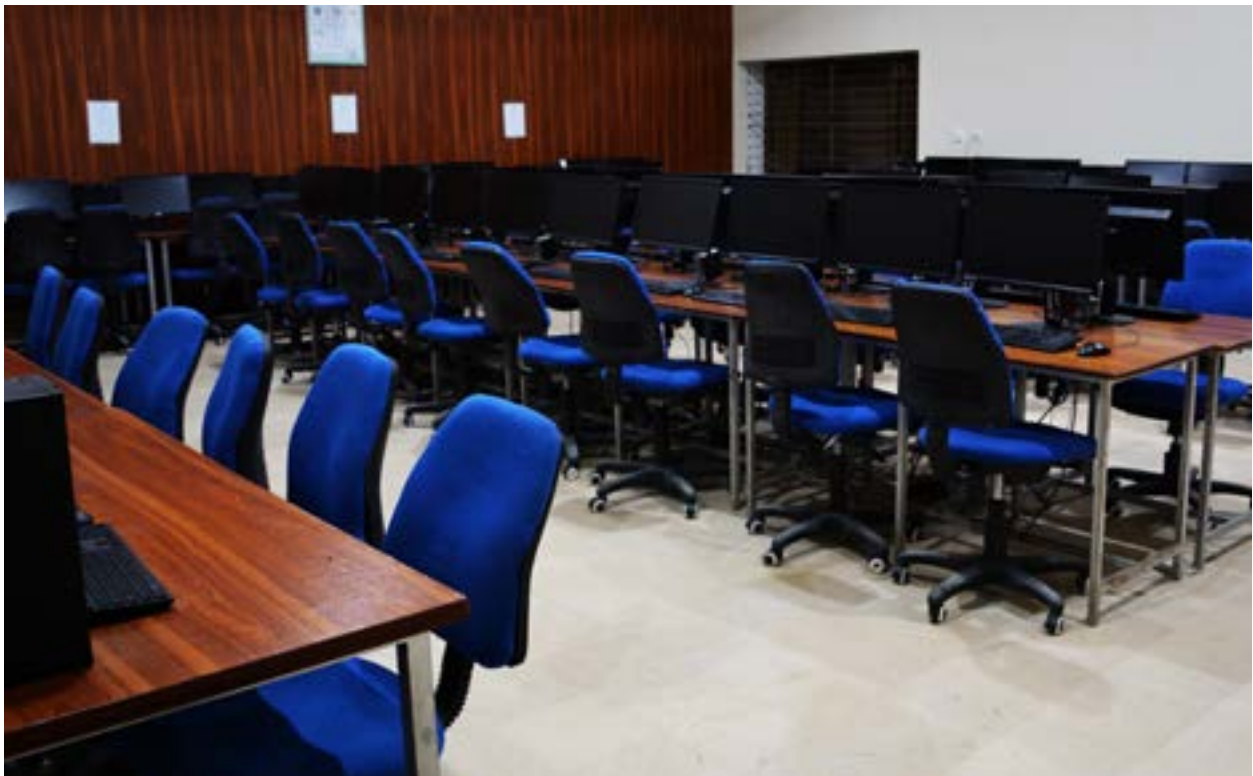
LMS provides the facility for students and teachers to manage their academic records of each semester with following components

- Student course
- Attendance
- Assignments
- Quiz
- Virtual Programming Lab
- Turnitin Assignment
- Announcements
- Notifications and course related activity or resource

KFUEIT E-Portal

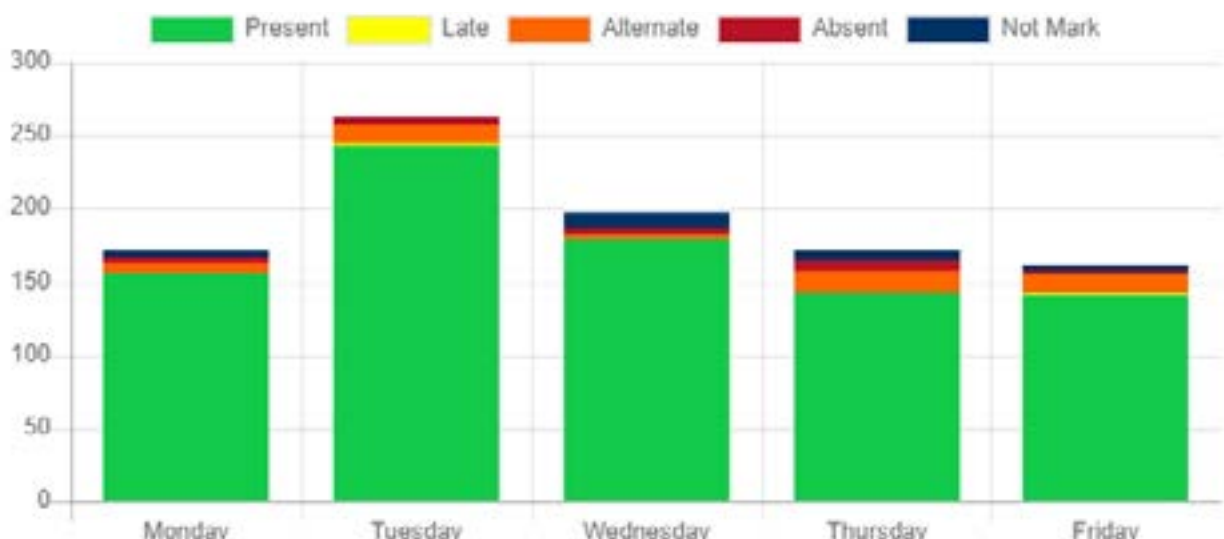
Online application software has many benefits over traditional paper-based application system. In traditional paper-based process thousands of applicants need to queue up for collecting their application forms and then need to come again for submitting their application forms to the relevant departments. This was a tedious process for both applicants and the departments of the University. ICT Department has developed in-house an application system at the University i.e. KFUEIT E-Portal which has successfully been implemented and practiced at the University since 2016. KFUEIT E-Portal facilitates the new applicants to use online system for their all kind of online application procedures like if applicant wants to apply for Admission, Tests, Short courses and Careers he/she can simply do it from a single web platform. He/She just needs to sign up to E-Portal and will ready to go for applying according to his/her requirement. Once the user gets sign-up at E-Portal, the same information will be entertained throughout the whole process of applicant's application process. This also help the departments





KFUEIT Time Table Management System

At the start of every semester, one of the foremost responsibilities of university time table department is to create a timetable for the teachers and students. As simple as this task sounds, in actuality, it can be a complex challenge to manage the availability of teachers, infrastructure and facilities according to the needs of the students. It is obvious that manual time table management can be a frustrating and highly time-consuming task at University scale like KFUEIT where we have to manage the thousands of students, hundreds of teachers with the best utilization of limited resources like classrooms and labs. KFUEIT time table management system is state of the art application and it generates class wise, teacher wise and room wise



Lectures Attendance By Day (Last 5 Days)

KFUEIT Visitor Management System

In many universities, visitors are still registered using a handwritten paper log. While this method is perceived as easy but slow, it provides virtually no security and leaves visitor information available for anyone to see. KFUEIT ICT department developed an automated visitor management system which is integrated with University other core applications like CBA and MIS. Automated visitor management systems lend a more professional appearance to check in systems, enhance security and meet compliance mandates for the collection and auditing of visitor data.

KFUEIT Feedback Survey System

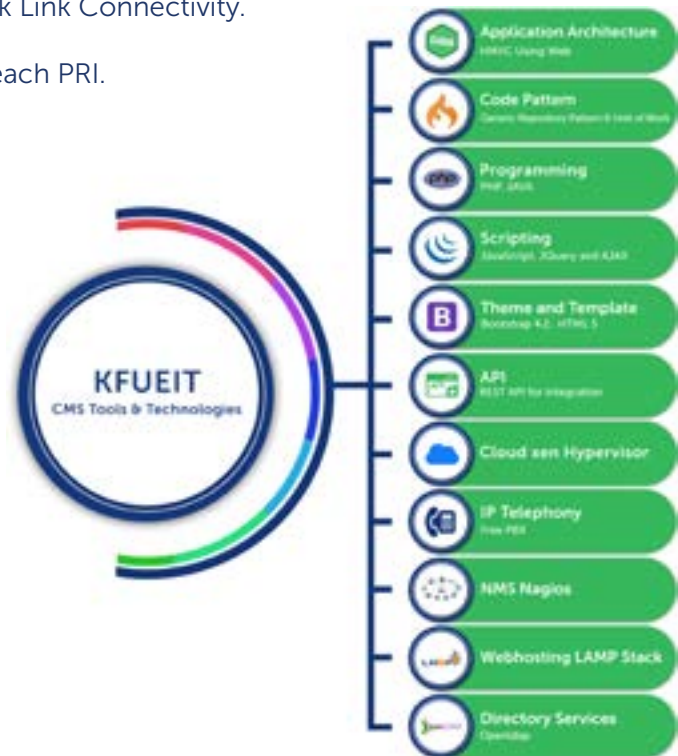
The feedback students provide about teaching on their end-of-semester course evaluations can be valuable in helping you improve and refine your teaching. Soliciting mid-semester student feedback has the additional benefit of allowing you to hear your students' concerns while there is still time in the semester to make appropriate changes. At KFUEIT we have implemented online student feedback survey system which is conducted twice in a semester before midterm and final term exams.

KFUEIT Survey system facilitates role-based access to its users where students feedback surveys about the teachers are kept confidential during the semester and are disclosed only with Quality Enhancement Cell management. Feedback survey system is very flexible and it allows role base users access to the system. KFUEIT Quality Enhancement Cell department initiate and conducts the online surveys from the student and employees. As shown below the

A Glimpse of IT Facilities Available at KFUEIT

KFUEIT ICT facilities are being continuously upgraded to keep them in sync with fast paced advance in computing technologies. The KFUEIT believes that a modern IT environment for students, faculty and administration is absolutely essential for providing quality education. To achieve this objective, the recently commissioned state-of-the-art ICT infrastructure will allow easy accessibility to students, faculty, administration, as well as parents and alumni, enabling them to interact with one another. The KFUEIT ICT department provides computing facilities to staff, faculty, and students. It also develops plans with objectives and actions that help achieve a highly competitive and technology-intensive environment for the Institute. Few of the major IT services provisioned at the campus are as follows:

- University Mini data center.
- Campus Networking and IT Infrastructure with 1400+ wired nodes.
- High-speed inter campus connectivity over fiber optics cable with transmission rate up to 10Gbps.
- WiFi facility all over campus and in hostels with 70+ wireless access points.
- Point to Point Radio links between Main Campus and hostels sites located outside in city area.
- High speed Internet links of 506Mbps CIR bandwidth available at KFUEIT through multiple fiber and radio links.
- HEC Pakistan Educational Research Network Link Connectivity.
- HEC Digital Library Access
- 2 PRI lines with 30 phone lines available at each PRI.
- 400+ Computers for Students
- All labs connected via high-speed LAN.
- Video conferencing system.
- Online admissions.
- Online Job Portal
- HR Management System
- LMS (Learning Management System)
- Exam Management System
- Scholarship Management System
- Timetable Management System
- Library Management Systems
- Store and Inventory Management
- Accounting & Finance System
- Lectures Attendance System
- Visitor Management System
- Case Management System
- ORIC
- Open Courseware
- Hostel
- Online Testing System
- Transport Management Systems Management System
- Online surveys for end-semester students feedback
- Turnitin Access for Faculty and Student
- E-rostrums and multimedia projectors for classrooms, labs and seminar halls
- University website, Facebook page and LinkedIn page.
- Video Surveillance System (NVR Based 100+ IP cameras)
- VPN for secure data access from remote locations.
- Directory Services.
- Round the clock e-mail systems available for faculty, staff and students
- IP Telephony and IP Based Fax System.
- Firewall for data protection.
- Biometric based attendance system.
- Campus ID Card Printing.
- Linux based systems with windows operating system.



TREE PLANTATION & BOTANICAL GARDEN

Horticulture department of the university has been developing a botanical garden for recreational and research purposes.

A botanical garden is a garden dedicated to the collection, cultivation, preservation and display a wide range of plants labelled with their botanical names. It may contain specialist plant collections such as cacti and other succulent plants, herb gardens, plants from particular parts of the world, and so on; there may be greenhouses, shadehouses, again with special collections such as tropical plants, alpine plants, or other exotic plants. Visitor services at a botanical garden might include tours, educational displays, art exhibitions, open-air theatrical and musical performances, and other entertainment.

Botanical gardens are often run by universities or other scientific research organizations, and often have associated herbaria and research programmes in plant taxonomy or some other aspect of botanical science. In principle, their role is to maintain documented collections of living plants for the purposes of scientific research, conservation, display, and education, although this will depend on the resources available and the special interests pursued at each particular garden.

Over the years, botanical gardens, as cultural and scientific organisations, have responded to the interests of botany and horticulture. Nowadays, most botanical gardens display a mix of the themes mentioned and more; having a strong connection with the general public, there is the opportunity to provide visitors with information relating to the environmental issues, especially those relating to plant conservation and sustainability.

The history of botanical gardens is closely linked to the history of botany itself. The botanical gardens of the 16th and 17th centuries were medicinal gardens, but the idea of a botanical garden changed to encompass displays of the beautiful, strange, new and sometimes economically important plant trophies being returned from the European colonies and other distant lands. Later, in the 18th century, they became more educational in function, demonstrating the latest plant classification systems devised by botanists working in the associated herbaria as they tried to order these new treasures. Then, in the 19th and 20th centuries, the trend was towards a combination of specialist and eclectic collections demonstrating many aspects of both horticulture and botany.

Moreover, an ultra high density mango orchard has also been developed in the university. A new technology in the world of mango in which almost 1100 plants have been planted in one acre for research and revenue purposes.







A photograph of a library with tall, white shelving units. The shelves are filled with books and several large, orange-colored folders or dividers. The lighting is soft, coming from within the shelves, creating a warm and organized atmosphere. The text 'Academics Section 3' is overlaid on the bottom half of the image.

Academics

Section 3

Academics

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Academic Calendar Fall 2019

Events	Date/Day	Remarks
Registration of Courses for New Students	Aug 19 – Aug 26, 2019	(without late fee)
Fall Semester 2019 begins	August 19, 2019	Commencement of classes
Last Date for withdrawal from a Course without fee penalty	August 26, 2019	Last Day
Youn e Ashura*	Sept 09 – Sept 10, 2019	Holidays (Tentative)
Eid Milad-un-Nabi (12 Rabi-ul-Awal)**	November 9, 2019	Holiday (Tentative)
Allama Iqbal Day	November 9, 2019	Holiday
Mid-Term Examinations	Oct 15 – Oct 22, 2019	
Semester Teaching ends	December 18, 2019	
Final Examination	Dec 13 – Dec 20, 2019	
Quaid-e-Azam Day	December 25, 2019	Holiday
Winter Break	Dec 23 – Jan 10, 2020	For students only
Spring Semester 2020 starts	January 13, 2020	

* Subject to the appearance of Moon of 1st day of Moharram

**Subject to appearance of Moon of 1st day of Rabi-ul-Awal

Academic Calendar Spring 2019

Events	Date/Day	Remarks
Registration of Courses for New Students	March 11 – 18, 2019	(without late fee)
Spring Semester 2019 begins	March 11, 2019	Commencement of classes
Last Date for withdrawal from a course without fee penalty	March 18, 2019	Last Day
Pakistan Day	March 23, 2019	Holiday
Labor Day	May 01, 2019	Holiday
Mid-Term Examinations	May 07 – 14, 2019	
Eid-Ul-Fitr*	June 4 - June 6, 2019	Holidays (Tentative)
Semester Teaching ends	July 12, 2019	
Final Examination	July 15 – July 21, 2019	
Semester Break	July 22 – Aug 18, 2019	For students only
Eid-Ul-Azha**	Aug 11 – Aug 13, 2019	Holidays (Tentative)
Independence Day	August 14, 2019	Holiday
Fall Semester 2019 starts	August 19, 2019	

*Subject to the appearance of Moon of 1st day of Shawal

** Subject to the appearance of Moon of 1st day of Zilhaj

Academic Calendar Spring 2020

Events	Date/Day	Remarks
Registration of Courses for New Students	Jan 13 - Jan 20, 2020	(without late fee)
Spring Semester 2020 begins	January 13, 2020	Commencement of classes
Last Date for withdrawal from a course without fee penalty	January 20, 2020	Last Day Holiday
Kashmir Day	February 5, 2020	
Mid-Term Examinations	March 10 - March 17, 2020	
Pakistan Day	March 23, 2020	Holiday
Labour Day	May 1, 2020	Holiday
Semester Teaching Ends	May 13, 2020	
Final Examination	May 14 - May 21, 2020	
Eid-ul-Fitr*	May 23 - May 25, 2020	Holidays (Tentative)
Semester Break	May 22 - May 27, 2020	For students only
Summer Semester 2020 Starts	May 28, 2020	

* Subject to the appearance of Moon of 1st day of Shawal

Office of Research, Innovation & Commercialization (ORIC)

Engr. Dr. Muhammad Saif Ur Rehman

Director ORIC

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Email: saif@kfueit.edu.pk



KFUEIT leadership has a clear R&D vision about the future of university. We are determined to make KFUEIT national technology leader by creating an integrated R&D ecosystem. This ecosystem will connect our researchers (faculty and students) with external as well as internal stakeholders. In order to achieve this ambition, KFUEIT has created the Office of Research, Innovation & Commercialization (ORIC) at KFUEIT in 2016. ORIC has developed its TALL vision "Establish a proactive R&D ecosystem based on Training; Awareness; Linkage and Launching approach to make KFUEIT the national technology leader". This TALL vision will have a three stage ORIC development framework so that KFUEIT may create a socio-economic impact. We will reach our R&D goals through achieving ORIC vision by motivating, facilitating and guiding our faculty members to comply with their individual and organizational R&D goals.

To maximize the impact of R&D, ORIC carries out a set of activities that serve as inputs to the university departments and the academic community. ORIC has taken several initiatives in order to establish an active KFUEIT R&D ecosystem. ORIC is actively involved in:

- Promoting research ecosystem at KFUEIT
- Collaborating with other national and international research organizations
- Creating and nurturing innovative ideas
- Communicating research, networking, fellowship and award opportunities to the faculty and students
- Designing KFUEIT Strategic R&D Plan and core research areas
- Creating a database for potential funding agencies
- Promoting KFUEIT-industry linkage
- Organizing national, and international events (conferences / seminars / workshops / symposiums)

ORIC TALL

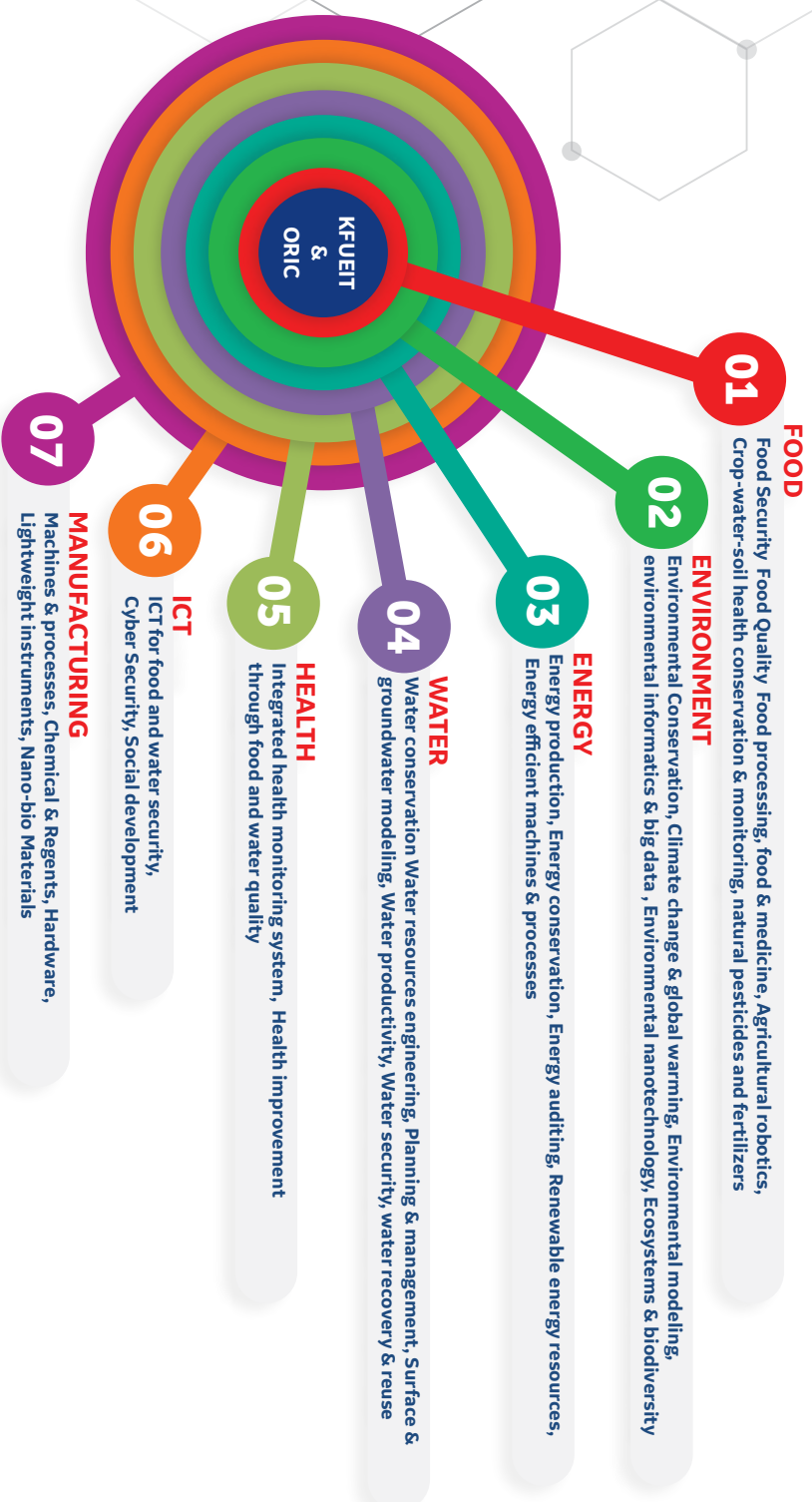
"Establish a proactive
R&D ecosystem based on

*"Never give up
Today is hard,
tomorrow is worse,
but the day after tomorrow
will be sunshine"*

-Jack MA



RESEARCH | INNOVATION | COMMERCIALIZATION



” **ACHIEVE ORIC VISION BY MOTIVATING, FACILITATING AND GUIDING FACULTY MEMBERS TO COMPLY WITH THEIR INDIVIDUAL AND ORGANIZATIONAL R&D GOALS**

“

A futuristic robotic hand, primarily white with blue and black mechanical details, is shown reaching upwards. The index finger is extended and glowing with a bright blue light. In the background, a translucent, digital representation of the Earth is visible, composed of a grid of points and lines, with a blue and white color scheme. The overall scene is set against a dark, starry background with streaks of light, suggesting a high-tech or space-themed environment.

Faculty of Engineering

Department of

Agricultural Engineering

Introduction and Overview

Pakistan's economy is primarily agrarian based as agriculture sector is contributing about 21% to its GDP, employing 45% of its work force, and providing livelihood to more than 67% of its population, which is residing mostly in the rural areas. The contribution of this sector in economy is heavily dependent on adequate supply of irrigation water, state of the art modern as well as low cost farm equipment and structures and safe environment. At the same time, it is also needed to provide alternative energy sources and post-harvest food preservation technologies to ensure food security as post-harvest losses in fruits and vegetables could reduce production as much as 25-40%.



Keeping these issues in view, the Department of Agricultural Engineering at Khwaja Fareed University of Engineering and Information Technology, Rahim Yar Khan has been established. The Department is proud of its infrastructure, highly accomplished and talented academia and well equipped laboratories for a comprehensive training in water, mechanization, environmental and computer modelling aspects of agriculture. Department also aims to be a hub in faculty professionalism and entrepreneurial development in agricultural engineering. The Department has opened its doors to the public to boost its professional and industrial dialogue through university industry linkage, outreach programs, internship for students and MOUs with public/private sectors.

Programs being offered

BS Agricultural Engineering

MS Agricultural Engineering

BS Agriculture

(Agronomy, Agricultural Extension, Agricultural Economics, Entomology, Horticulture)

MS Water Resources Management*

* Subject to approval / NOC from HEC / Competent Authority / Accreditation Body

Vision

The vision of agricultural engineering department is to become a prestigious Seminary of Learning and Innovation Global excellence in training, research and innovation in water and environment management, farm mechanization, agro-processing, renewable energy and crop-soil-water productivity

To promote sustainable agricultural development and preserving the ecosystems through optimal use of indigenous resources for precision agriculture, consequently achieving sustainable development of Rural Areas in close collaboration with farming community.

To produce highly skilled professionals by imparting professional education, training and skills at undergraduate and graduate level in the field of Agricultural Engineering with special focus on resolving issues faced by the farming community.



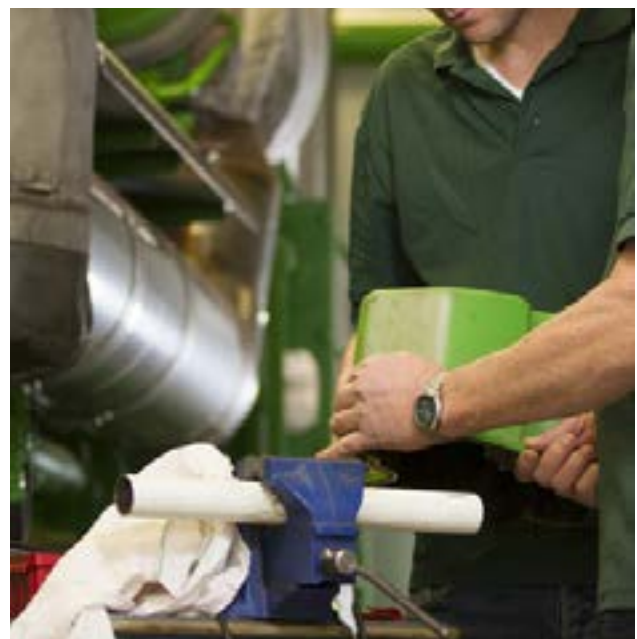
Key Facts

- Agricultural engineering is the area of engineering concerned with the improvement and advancements in the water management, bringing innovation in the mechanization and ensuring the food security through precision agriculture.
- The use of modern tools like Global Positioning System and satellite Derived Remote Sensing and GIS, GPS operated farm machinery revolutionize the agriculture and brought the prosperity in the farming community.
- The professionals (teachers/researchers) aimed to excel imparting education and training pertaining to water resources management and utilizing the water resources of the country in an efficient manner.
- Department plans to impart professional education, training and produce skilled manpower at graduate and postgraduate level in the field of Agricultural Engineering with special focus on resolving issues faced by the farming community.
- The department has foreign qualified Faculty members and state of the art laboratories in the field of Agricultural Engineering.
- The department has on campus Water and Agricultural Mechanization Research Station (WAMRS).

Mission

The mission of Agriculture Engineering Department is:

- State of the Art Training: To promote student's learning in Agricultural engineering and related disciplines to achieve excellence in Agriculture sector.
- Services and Entrepreneurship: To serve the nation by providing trained engineers to plan and execute the public and private sector projects pertaining to food security and natural resources management through engineering & technology principles.
- Discovery and Innovation: To bring indigenous and global professionals together who can exploit local wisdom and novel solutions for mitigation of regional and global challenges of climate change, water use efficiency and food security.



Scheme of Study

BS Agricultural Engineering

4 Years (8 Semesters) Program

Semester 1

S. No.	Course Code	Course Title	Credit Hours	
			Theory	Lab
1	AGEN-1101	Metallurgy & Workshop Practices	2	0
	AGEN-1201	Metallurgy & Workshop Practices Lab	0	1
2	AGEN-1103	Engineering Drawing & Graphics	1	0
	AGEN-1203	Engineering Drawing & Graphics Lab	0	1
3	AGRI-1101	Basic Agriculture	2	0
	AGRI-1201	Basic Agriculture Lab	0	1
4	MATH-1101	Calculus	3	0
5	ENGL-1118	Functional English	3	0
6	ISLS-1112	Islamic Studies/Ethics	2	0
Semester Credit Hours			13	3
			16	

Semester 2

S. No.	Course Code	Course Title	Credit Hours	
			Theory	Lab
1	AGEN-1104	Engineering Mechanics	2	0
	AGEN-1204	Engineering Mechanics Lab	0	1
2	AGEN-1106	Computer Aided Design	1	0
	AGEN-1206	Computer Aided Design Lab	0	1
3	AGEN-1102	Fluid Mechanics	2	0
	AGEN-1202	Fluid Mechanics Lab	0	1
4	ENGL-1119	Communication Skills	3	0
5	MATH-1102	Linear Algebra	3	0
6	PHYS-1123	Engineering Physics	2	0
	PHYS-1223	Engineering Physics Lab	0	1
Semester Credit Hours			13	4
			17	

Semester 3

S. No.	Course Code	Course Title	Credit Hours	
			Theory	Lab
1	AGEN-2101	Engineering Thermodynamics	2	0
	AGEN-2201	Engineering Thermodynamics Lab	0	1
2	AGEN-2103	Engineering Hydrology and Climate Change	2	0
	AGEN-2203	Engineering Hydrology and Climate Change Lab	0	1
3	AGEN-2105	Surveying	1	0
	AGEN-2205	Surveying Lab	0	1
4	AGEN-2107	Hydraulic Machinery & Pipe Flow	2	0
	AGEN-2207	Hydraulic Machinery & Pipe Flow Lab	0	1
5	CPEN-1110	Introduction to Computing	2	0
	CPEN-1210	Introduction to Computing Lab	0	1
6	MATH-2107	Engineering Numerical Analysis	2	0
	MATH-2207	Engineering Numerical Analysis Lab	0	1
Semester Credit Hours			11	6
			17	

Semester 4

S. No.	Course Code	Course Title	Credit Hours	
			Theory	Lab
1	AGEN-2102	Mechanics of Materials	2	0
	AGEN-2202	Mechanics of Materials Lab	0	1
2	AGEN-2104	Levelling	1	0
	AGEN-2204	Levelling Lab	0	1
3	AGEN-2106	Soil Mechanics	2	0
	AGEN-2206	Soil Mechanics Lab	0	1
4	AGEN-2108	I.C. Engine	2	0
	AGEN-2208	I.C. Engine Lab	0	1
5	AGRI-1102	Soil Science	1	0
	AGRI-1202	Soil Science Lab	0	1
6	STAT-2104	Probability and Statistics	3	0
7	PAKS-1113	Pakistan Studies	2	0
Semester Credit Hours			11	6
			17	

Semester 5

S. No.	Course Code	Course Title	Credit Hours	
			Theory	Lab
1	AGEN-3101	Open Channel Hydraulics	2	0
	AGEN-3201	Open Channel Hydraulics Lab	0	1
2	AGEN-3103	Remote Sensing and GIS	2	0
	AGEN-3203	Remote Sensing and GIS Lab	0	1
3	AGEN-3105	Fundamentals of Environmental Engineering	2	0
	AGEN-3205	Fundamentals of Environmental Engineering Lab	0	1
4	AGEN-3107	Machine Design	2	0
	AGEN-3207	Machine Design Lab	0	1
5	AGEN-XXXX/ AGEN-XXXX	AGEN Elective-I	2	0
			0	1
6	SSCI-2111	Professional Ethics	2	0
7	SSCI-1111	Sociology for Engineers	2	0
Semester Credit Hours			14	5
			19	

Semester 6

S. No.	Course Code	Course Title	Credit Hours	
			Theory	Lab
1	AGEN-3102	Farm and Earth Moving Machinery	2	0
	AGEN-3202	Farm and Earth Moving Machinery Lab	0	1
2	AGEN-3104	Irrigation Engineering	2	0
	AGEN-3204	Irrigation Engineering Lab	0	1
3	AGEN-3106	Soil and Water Conservation Engineering	2	0
	AGEN-3206	Soil and Water Conservation Engineering Lab	0	1
4	AGEN-3108	Farm Structures and Materials	2	0
	AGEN-3208	Farm Structures and Materials Lab		1
5	AGEN-XXXX/ AGEN-XXXX	AGEN Elective-II	0	3
6	HLTH-1113	Basic Health Awareness	2	0
Semester Credit Hours			10	7
			17	

Semester 7

S. No.	Course Code	Course Title	Credit Hours	
			Theory	Lab
1	AGEN-4101	Engineering Principles of Precision Farming	2	0
	AGEN-4201	Engineering Principles of Precision Farming Lab	0	1
2	AGEN-4105	Agricultural Process Engineering	2	0
	AGEN-4205	Agricultural Process Engineering Lab	0	1
3	AGEN-4103	Manufacturing and Reverse Engineering	2	0
	AGEN-4203	Manufacturing and Reverse Engineering Lab	0	1
4	AGEN-4107	Principles of Energy Engineering	3	0
5	AGEN-4109	Project & Report-I	0	3
6	AGEN-XXXX/ AGEN-XXXX	AGEN Elective-III	3	0
7	SSCI-3120	Constitution and Legal System of Pakistan	2	0
Semester Credit Hours			14	6
			20	

Semester 8

S. No.	Course Code	Course Title	Credit Hours	
			Theory	Lab
1	AGEN-4102	Drainage Engineering	2	0
	AGEN-4202	Drainage Engineering Lab	0	1
2	AGEN-4104	Pumps and Tube wells	2	0
	AGEN-4204	Pumps and Tube wells Lab	0	1
3	AGEN-4106	Project & Report II	0	3
5	AGEN-XXXX/ AGEN-XXXX	AGEN Elective-IV	3	0
6	MSCI-2111	Engineering Economics and Management	3	0
Semester Credit Hours			13	3
			16	

List of Elective Courses

Elective - I

S. No.	Course Code	Course Title	Credit Hours	
			Theory	Lab
1	AGEN-3109	Boiler Engineering & Power Plants	2	0
	AGEN-3209	Boiler Engineering & Power Plants Lab	0	1
2	AGEN-3111	Water Management Engineering	2	0
	AGEN-3211	Water Management Engineering Lab	0	1
3	AGEN-3113	Farm Irrigation Systems	2	0
	AGEN-3213	Farm Irrigation Systems Lab	0	1
4	AGEN-3115	Quantity Survey and Cost Estimation	2	0
	AGEN-3215	Quantity Survey and Cost Estimation Lab	0	1
5	AGEN-3117	Environmental Management System in Industry	3	0

Elective - II

S. No.	Course Code	Course Title	Credit Hours	
			Theory	Lab
1	AGEN-3110	Instrumentation & Measurements	2	0
	AGEN-3210	Instrumentation & Measurements Lab	0	1
2	AGEN-3112	Energy Resources and Management	2	0
	AGEN-3212	Energy Resources and Management Lab	0	1
3	AGEN-3114	Ground Water Hydrology	2	0
	AGEN-3214	Ground Water Hydrology Lab	0	1
4	AGEN-3116	Water Supply and Sewerage	2	0
	AGEN-3216	Water Supply and Sewerage Lab	0	1
5	AGEN-3118	Meteorology and Climate Change	2	0

Elective - III

S. No.	Course Code	Course Title	Credit Hours	
			Theory	Lab
1	AGEN-4111	Post-Harvest Engineering	2	0
	AGEN-4211	Post-Harvest Engineering Lab	0	1
2	AGEN-4113	Water Quality Management	2	0
	AGEN-4213	Water Quality Management Lab	0	1
3	AGEN-4115	Irrigation Water Management Techniques	2	0
	AGEN-4215	Irrigation Water Management Techniques Lab	0	1
4	AGEN-4117	Environmental Impact Assessment	3	0
5	AGEN-4119	Renewable Energy and Environment	2	0
	AGEN-4219	Renewable Energy and Environment Lab	0	1

Elective - IV

S. No.	Course Code	Course Title	Credit Hours	
			Theory	Lab
1	AGEN-4108	Industrial Engineering and Management	2	0
	AGEN-4208	Industrial Engineering and Management Lab	0	1
2	AGEN-4110	Design of Agricultural Machinery	2	0
	AGEN-4210	Design of Agricultural Machinery Lab	0	1
3	AGEN-4112	Project Planning and Management	2	0
4	AGEN-4114	High Efficiency Irrigation System	2	0
	AGEN-4214	High Efficiency Irrigation System Lab	0	1
5	AGEN-4116	Air and Noise Pollution Control	2	0
	AGEN-4216	Air and Noise Pollution Control Lab	0	1
6	AGEN-4118	Solid waste Management	3	0



Lab Equipments (Department of Agriculture)

BS Agriculture

4 Years (8 Semesters) Majors (Agronomy, Agricultural Extension, Agricultural Economics, Entomology, Horticulture)

Semester 1

S. No.	Course Code	Course Title	Credit Hours	
			Theory	Lab
1	AGRI-1101	Basic Agriculture	2	0
	AGRI-1201	Basic Agriculture Lab	0	1
2	AGRI-1103	Introduction to Soil Science-I	2	0
	AGRI-1203	Introduction to Soil Science-I Lab	0	1
3	AGRI-1105	Introduction to Animal Husbandry	2	0
	AGRI-1205	Introduction to Animal Husbandry Lab	0	1
4	FDST-1101	Introduction to Food Science and Technology	2	0
	FDST-1201	Introduction to Food Science and Technology Lab	0	1
5	ENGL-1118	Functional English	3	0
6	ISLS-1112/ ETIC-1112	Islamic Studies/Ethics	2	0
7	BIO-1101/ BIO-1201	Biology (for Pre-Engineering Students) Mathematics (for Pre-Medical Students)	2 0	0 1
Semester Credit Hours			15	5
			20	

Semester 2

S. No.	Course Code	Course Title	Credit Hours	
			Theory	Lab
1	AGRI-1102	General Crop Production	2	0
	AGRI-1202	General Crop Production Lab	0	1
2	AGRI-1104	Introduction to Agricultural Economics	3	0
3	AGRI-1106	Introduction to Agricultural Extension and Rural Development	3	0
4	AGRI-1108	Introduction to Soil Science-II	2	0
	AGRI-1208	Introduction to Soil Science-II Lab	0	1
5	AGRI-1110	Introduction to Forest and Watershed Management	2	0
	AGRI-1210	Introduction to Forest and Watershed Management Lab	0	1
6	PAKS-1113	Pakistan Studies	2	0
7	STAT-2104	Probability and Statistics	3	0
Semester Credit Hours			17	3
			20	

Semester 3

S. No.	Course Code	Course Title	Credit Hours	
			Theory	Lab
1	AGRI-2101	Introductory Genetics	2	0
	AGRI-2201	Introductory Genetics Lab	0	1
2	AGRI-2103	Introductory Entomology	2	0
	AGRI-2203	Introductory Entomology Lab	0	1
3	AGRI-2105	Introduction to Plant Pathogens	2	0
	AGRI-2205	Introduction to Plant Pathogens Lab	0	1
4	AGRI-2107	Introductory Horticulture	2	0
	AGRI-2207	Introductory Horticulture Lab	0	1
5	AGRI-2107	Introduction to Rangelands and Wildlife Management	2	0
	AGRI-2207	Introduction to Rangelands and Wildlife Management Lab	0	1
6	AGRI-2109	Agribusiness, Marketing and Trade	3	0
7	CPEN-1114	Introduction to Computing	2	0
	CPEN-1214	Introduction to Computing Lab	0	1
Semester Credit Hours			15	6
			21	

Semester 4

S. No.	Course Code	Course Title	Credit Hours	
			Theory	Lab
1	AGRI-2102	Introductory Plant Breeding	2	0
	AGRI-2202	Introductory Plant Breeding Lab	0	1
2	AGRI-2104	Applied Entomology	2	0
	AGRI-2204	Applied Entomology Lab	0	1
3	AGRI-2106	Introductory Plant Pathology	2	0
	AGRI-2206	Introductory Plant Pathology Lab	0	1
4	AGRI-2208	Horticultural Crop Production	2	0
	AGRI-2208	Horticultural Crop Production Lab	0	1
5	AGRI-2110	Introduction to Communication in Agricultural Extension	2	0
	AGRI-2210	Introduction to Communication in Agricultural Extension Lab	0	1
6	HLTH-1113	Basic Health Awareness	2	0
Semester Credit Hours			12	5
			17	

Semester 5 (Agronomy Major)

S. No.	Course Code	Course Title	Credit Hours	
			Theory	Lab
1	AGRN-3101	Biological Nitrogen Fixation	2	0
	AGRN-3201	Biological Nitrogen Fixation Lab	0	1
2	AGRN-3103	Plant Nutrients and Growth Regulators	2	0
	AGRN-3203	Plant Nutrients and Growth Regulators Lab	0	1
3	AGRN-3105	Farm Record and Management	2	0
	AGRN-3205	Farm Record and Management Lab	0	1
4	AGRN-3107	Seed Production Technology	2	0
	AGRN-3207	Seed Production Technology Lab	0	1
5	AGRN-3109	Forage and Fodder Production	2	0
	AGRN-3209	Forage and Fodder Production Lab	0	1
6	AGRN-3111	AGRO-Technology of Major Crops	2	0
	AGRN-3211	AGRO-Technology of Major Crops (Lab)	0	1
Semester Credit Hours			12	6
			18	

Semester 6

S. No.	Course Code	Course Title	Credit Hours	
			Theory	Lab
1	AGRN-3102	Principles of Weed Science	2	0
	AGRN-3202	Principles of Weed Science Lab	0	1
2	AGRN-3104	Crop Management under Stressful Environments	2	0
	AGRN-3204	Crop Management under Stressful Environments Lab	0	1
3	AGRN-3106	Conservation Agronomy	2	0
	AGRN-3206	Conservation Agronomy Lab	0	1
4	AGRN-3108	Introduction to Crop Modelling	2	0
	AGRN-3208	Introduction to Crop Modelling Lab	0	1
5	AGRN-3110	Environment and Crop Production	2	0
	AGRN-3210	Environment and Crop Production Lab	0	1
6	AGEN-3121	Farm Mechanization	2	0
	AGEN-3221	Farm Mechanization Lab	0	1
Semester Credit Hours			12	6
			18	

Semester 7

S. No.	Course Code	Course Title	Credit Hours	
			Theory	Lab
1	AGRN-4101	Principles of Weed Science	2	0
	AGRN-4201	Principles of Weed Science Lab	0	1
2	SSCI-3120	Constitution and Legal System of Pakistan	2	0
	AGRN-4103	Conservation Agronomy	2	0
3	AGRN-4203	Conservation Agronomy Lab	0	1
	AGRN-4105	Introduction to Crop Modelling	2	0
4	AGRN-4205	Introduction to Crop Modelling Lab	0	1
	AGRN-4107	Environment and Crop Production	2	0
5	AGRN-4207	Environment and Crop Production Lab	0	1
	AGEN-4122	Irrigation and Drainage Practices	2	0
6	AGEN-4222	Irrigation and Drainage Practices Lab	0	1
Semester Credit Hours			12	5
			17	

Semester 8

S. No.	Course Code	Course Title	Credit Hours	
			Theory	Lab
1	AGRN-4102	Organic Farming	3	0
2	AGRN-4104	Plant and soil Analysis	2	0
	AGRN-4204	Plant and soil Analysis Lab	0	1
3	AGRN-4106	Crop Management under Stressful Environments	2	0
	AGRN-4206	Crop Management under Stressful Environments Lab	0	1
4	AGRN-4108	Research and Scientific Writing	2	0
	AGRN-4208	Research and Scientific Writing Lab	0	1
5	AGRN-4110	Research Project / Internship	0	4
Semester Credit Hours			9	7
			16	

Semester 5 (Agriculture Economics Major)

S. No.	Course Code	Course Title	Credit Hours	
			Theory	Lab
1	AGEC-3101	Microeconomics-I	3	
2	AGEC-3103	Macroeconomics-I	3	
3	AGEC-3105	Mathematics for Economics	3	
4	AGEC-3107	Statistical Methods for Economics	2	
	AGEC-3207	Statistical Methods for Economics Lab	0	
5	AGEC-3109	Food and Agricultural Marketing	3	
6	AGEC-3111	Economics of Agro based Industries	3	
Semester Credit Hours			17	1
			18	

Semester 7

S. No.	Course Code	Course Title	Credit Hours	
			Theory	Lab
1	AGEC-4101	Econometrics-I	2	0
	AGEC-4201	Econometrics-I Lab	0	1
2	SSCI-3120	Constitution and Legal System of Pakistan	2	0
3	AGEC-4103	Agricultural Finance	3	0
4	AGEC-4105	Agricultural Production Economics	3	0
5	AGEC-4107	Research Methods in Social Science	2	0
	AGEC-4207	Research Methods in Social Science Lab	0	1
6	AGEC-4109	International Economics	3	0
7	AGEN-4122	Irrigation and Drainage Practices	2	0
	AGEN-4222	Irrigation and Drainage Practices Lab	0	1
Semester Credit Hours			17	3
			20	

Semester 5 (Horticulture Major)

S. No.	Course Code	Course Title	Credit Hours	
			Theory	Lab
1	HORTI-3101	Principles of Fruit Production	3	0
	HORTI-3201	Principles of Fruit Production Lab	0	1
2	HORTI-3103	Principles of Vegetable Production	2	0
	HORTI-3203	Principles of Vegetable Production Lab	0	1
3	HORTI-3105	Principle of Ornamental crop Production	2	0
	HORTI-3205	Principle of Ornamental crop Production Lab	0	1
4	HORTI-3107	Propagation and Nursery Management	2	0
	HORTI-3207	Propagation and Nursery Management Lab	0	1
5	HORTI-3109	In Vitro Propagation	1	0
6	HORTI-3111	In Vitro Propagation Lab	0	1
Semester Credit Hours			10	5
			15	

Semester 7

S. No.	Course Code	Course Title	Credit Hours	
			Theory	Lab
1	HORTI-4101	Research Methods in Horticulture	2	0
	HORTI-4201	Research Methods in Horticulture Lab	0	1
2	HORTI-4103	Temperate Fruit	2	0
	HORTI-4203	Temperate Fruit Lab	0	1
3	HORTI-4105	Winter Vegetables	2	0
	HORTI-4205	Winter Vegetables Lab	0	1
4	HORTI-4107	Commercial Flower Production	2	0
	HORTI-4207	Commercial Flower Production Lab	0	1
5	HORTI-4109	Constitution and Legal System of Pakistan	2	
6	AGEN-4122	Irrigation and Drainage Practices	2	0
	AGEN-4222	Irrigation and Drainage Practices Lab	0	1
Semester Credit Hours			12	5
			17	

Semester 6

S. No.	Course Code	Course Title	Credit Hours	
			Theory	Lab
1	AGEC-3102	Microeconomics-II	3	0
2	AGEC-3104	Macroeconomics-II	3	0
3	AGEC-3106	Development Economics	3	0
4	AGEC-3108	Mathematical Economics	3	0
5	AGEC-3110	Agribusiness Management	3	0
6	AGEC-3112	Economics of Livestock Production	3	0
7	AGEN-3121	Farm Mechanization	2	0
	AGEN-3221	Farm Mechanization Lab	0	1
Semester Credit Hours			20	1
			21	

Semester 8

S. No.	Course Code	Course Title	Credit Hours	
			Theory	Lab
1	AGEC-4102	Natural Resource Economics	3	0
2	AGEC-4202	Econometrics-II	2	0
	AGEC-4104	Econometrics-II Lab	0	1
3	AGEC-4106	Agricultural Issues and Policies of Pakistan	3	0
4	AGEC-4108	Internship/Projects	0	4
Semester Credit Hours			8	5
			13	

Semester 6

S. No.	Course Code	Course Title	Credit Hours	
			Theory	Lab
1	HORTI-3102	Tropical and Sub-Tropical Fruits	2	0
	HORTI-3202	Tropical and Sub-Tropical Fruits Lab	0	1
2	HORTI-3104	Summer Vegetables	2	0
	HORTI-3204	Summer Vegetables Lab	0	1
3	HORTI-3106	Landscape Horticulture	2	0
	HORTI-3206	Landscape Horticulture Lab	0	1
4	HORTI-3108	Medicinal and Aromatic Plants	2	0
	HORTI-3208	Medicinal and Aromatic Plants Lab	0	1
5	HORTI-3110	Post-Harvest Horticulture	2	0
	HORTI-3210	Post-Harvest Horticulture Lab	0	1
6	AGEN-3121	Farm Mechanization	2	0
	AGEN-3221	Farm Mechanization Lab	0	1
Semester Credit Hours			12	6
			18	

Semester 8

S. No.	Course Code	Course Title	Credit Hours	
			Theory	Lab
1	HORTI-4102	Vegetable and Flower Seed Production	2	0
	HORTI-4202	Vegetable and Flower Seed Production Lab	0	1
2	HORTI-4104	Project Planning and Scientific Writing	1	0
	HORTI-4204	Project Planning and Scientific Writing Lab	0	1
3	HORTI-4106	Protected Horticulture	2	0
	HORTI-4206	Protected Horticulture Lab	0	1
4	HORTI-4108	Indoor Plant Culture and Interiorscaping	2	0
	HORTI-4208	Indoor Plant Culture and Interiorscaping Lab	0	1
5	HORTI-4110	Business Management in Horticulture	3	0
6	HORTI-4112	Breeding of Horticultural Crops	2	0
	HORTI-4212	Breeding of Horticultural Crops Lab	0	1
7	HORTI-4114	Research Project / Internship	0	4
Semester Credit Hours			12	9
			21	

“The true sign of intelligence is not knowledge but imagination”

-Albert Einstein

Semester 5 (Agriculture Extension Major)

S. No.	Course Code	Course Title	Credit Hours	
			Theory	Lab
1	AGET-3101	Extension Program Development	2	0
	AGET-3201	Extension Program Development Lab	0	1
2	AGET-3103	History and Philosophy of Agricultural Extension education	3	0
3	AGET-3105	Rural Development Program in Pakistan	3	0
4	AGET-3205	Rural Development Program in Pakistan Lab	0	1
	AGET-3107	Rural Youth in Agricultural Development	2	0
	AGET-3207	Rural Youth in Agricultural Development Lab	0	1
Semester Credit Hours			10	3
			13	

Semester 7

S. No.	Course Code	Course Title	Credit Hours	
			Theory	Lab
1	SSCI-3120	Constitution and Legal System of Pakistan	2	0
2	AGET-4101	Interviewing Skills	2	0
	AGET-4201	Interviewing Skills Lab	0	1
3	AGET-4103	Emerging Issues in Agricultural and Technology Transfer	3	0
	AGET-4203	Emerging Issues in Agricultural and Technology Transfer Lab	0	1
4	AGET-4105	Fundamentals of Agricultural Journalism	2	0
	AGET-4205	Fundamentals of Agricultural Journalism Lab	0	1
5	AGET-4107	Preparation of Research Projects and Scientific Writing	2	0
	AGET-4207	Preparation of Research Projects and Scientific Writing Lab	0	1
6	AGEN-4122	Irrigation and Drainage Practices	2	0
	AGEN-4222	Irrigation and Drainage Practices Lab	0	1
Semester Credit Hours			13	5
			18	

Semester 5 (Entomology Major)

S. No.	Course Code	Course Title	Credit Hours	
			Theory	Lab
1	ENTO-3101	Insect Morphology	2	0
	ENTO-3201	Insect Morphology Lab	0	1
2	ENTO-3103	Principles of Insect Taxonomy	2	0
	ENTO-3203	Principles of Insect Taxonomy Lab	0	1
3	ENTO-3105	Insect Ecology	2	0
	ENTO-3205	Insect Ecology Lab	0	1
4	ENTO-3107	Insect Pest of Household, Man and Animals	2	0
	ENTO-3207	Insect Pest of Household, Man and Animals Lab	0	1
5	ENTO-3109	Insect Behaviour	2	0
	ENTO-3209	Insect Behaviour (Lab)	0	1
Semester Credit Hours			10	5
			15	

Semester 7

S. No.	Course Code	Course Title	Credit Hours	
			Theory	Lab
1	ENTO-4101	Integrated Pest Management	3	0
	ENTO-4201	Integrated Pest Management Lab	0	1
2	ENTO-4103	Plant Resistance to Insect Pests	2	0
	ENTO-4203	Plant Resistance to Insect Pests Lab	0	1
3	ENTO-4105	Insecticides and their Application	2	0
	ENTO-4205	Insecticides and their Application Lab	0	1
4	ENTO-4107	Range and Forest Entomology	2	0
	ENTO-4207	Range and Forest Entomology Lab	0	1
5	AGEN-4122	Irrigation and Drainage Practices	0	0
	AGEN-4222	Irrigation and Drainage Practices Lab	2	1
6	SSCI-3120	Constitution and Legal System of Pakistan	0	0
Semester Credit Hours			11	5
			16	

Semester 6

S. No.	Course Code	Course Title	Credit Hours	
			Theory	Lab
1	AGET-3102	Agricultural Extension Methods	2	0
	AGET-3202	Agricultural Extension Methods Lab	0	1
2	AGET-3104	Computer Application in Agricultural Extension	1	0
	AGET-3204	Computer Application in Agricultural Extension Lab	0	2
3	AGET-3106	Psychology for Adult Learning	3	0
	AGET-3108	Human Resource Management	2	0
4	AGET-3208	Human Resource Management Lab	0	1
5	AGET-3110	Introduction to Gender Studies	3	0
6	AGEN-3121	Farm Mechanization	2	0
7	AGEN-3221	Farm Mechanization Lab	0	1
Semester Credit Hours			13	5
			18	

Semester 8

S. No.	Course Code	Course Title	Credit Hours	
			Theory	Lab
1	AGET-4102	Introduction to Research Methods	3	0
	AGET-4202	Introduction to Research Methods Lab	0	1
2	AGET-4104	Introduction to Program Evaluation	3	0
	AGET-4204	Introduction to Program Evaluation Lab	0	1
3	AGET-4106	Rural Development Through Agricultural Extension	3	0
4	AGET-4108	Sustainable Agricultural and Rural Development	3	0
5	AGET-4110	Internship/Projects	0	4
Semester Credit Hours			12	6
			18	

Semester 6

S. No.	Course Code	Course Title	Credit Hours	
			Theory	Lab
1	ENTO-3102	Insect Physiology	2	0
	ENTO-3202	Insect Physiology Lab	0	1
2	ENTO-3104	Insect Classification and Biodiversity	2	0
	ENTO-3204	Insect Classification and Biodiversity Lab	0	1
3	ENTO-3106	Agricultural Pest and Their Management	3	0
	ENTO-3206	Agricultural Pest and Their Management Lab	0	1
4	ENTO-3108	Stored Product Pest and Their Management	2	0
	ENTO-3208	Stored Product Pest and Their Management Lab	0	1
5	ENTO-3110	Beneficial Insects	2	0
	ENTO-3210	Beneficial Insects Lab	0	1
6	AGEN-3121	Farm Mechanization	2	0
	AGEN-3221	Farm Mechanization Lab	0	1
Semester Credit Hours			13	6
			19	

Semester 8

S. No.	Course Code	Course Title	Credit Hours	
			Theory	Lab
1	ENTO-4102	Biological Control of Insect Pests	2	0
	ENTO-4202	Biological Control of Insect Pests Lab	0	1
2	ENTO-4104	Apiculture	2	0
	ENTO-4204	Apiculture Lab	0	1
	ENTO-4106	Agricultural and Environmental Pollution	2	0
	ENTO-4206	Agricultural and Environmental Pollution Lab	0	1
3	ENTO-4108	Scientific Writing and Presentation	2	0
	ENTO-4208	Scientific Writing and Presentation Lab	0	1
4	ENTO-4110	Research Project / Internship	0	4
Semester Credit Hours			8	8
			16	

"The best way to predict the future is to invent it"

- Alan Kay



MS Agricultural Engineering

2 Years (4 Semesters)

List of Core Courses

S. No.	Course Code	Course Name	Credit Hrs. 3	
			Theory	Lab
1	AGEN-6101	Advanced Agricultural Mechanization	3	0
2	AGEN-6102	Renewable Energy Engineering	2	0
	AGEN-6202	Renewable Energy Engineering Lab	0	1
3	AGEN-6103	Machine and Environment	3	0
4	AGEN-6104	Hazardous Waste Management	2	0
	AGEN-6204	Hazardous Waste Management Lab	0	1
5	AGEN-6105	Irrigation Systems Management	2	0
	AGEN-6205	Irrigation Systems Management Lab	0	1
6	AGEN-6106	Water Resources Planning & Management	2	0
	AGEN-6206	Water Resources Planning & Management Lab	0	1
7	AGEN-6107	Research Methodology	3	0

List of Elective Courses

Irrigation and Drainage

S. No.	Course Code	Course Name	Credit Hrs. 3	
			Theory	Lab
1	AGEN-6108	Groundwater Modelling	2	0
	AGEN-6208	Groundwater Modelling Lab	0	1
2	AGEN-6109	Advanced Open Channel Hydraulics	3	0
3	AGEN-6110	Applied Engineering Hydrology	2	0
	AGEN-6210	Applied Engineering Hydrology Lab	0	1
4	AGEN-6111	Planning and Design of Drainage Projects	3	0
5	AGEN-6112	Irrigation Engineering and Practices	2	0
	AGEN-6212	Irrigation Engineering and Practices Lab	0	1
6	AGEN-6113	Design of Hydraulic Structures	2	0
	AGEN-6213	Design of Hydraulic Structures Lab	0	1
7	AGEN-6114	Soil Erosion and Watershed Management	2	0
	AGEN-6214	Soil Erosion and Watershed Management Lab	0	1
8	AGEN-6115	Climate Change and Hydrological Modelling	2	0
	AGEN-6215	Climate Change and Hydrological Modelling Lab	0	1

Farm Machinery and Energy				
10	AGEN-6116	Harvesting Machinery	2	0
	AGEN-6216	Harvesting Machinery Lab	0	1
11	AGEN-6117	Tillage and Traction Dynamics	2	0
	AGEN-6217	Tillage and Traction Dynamics Lab	0	1
12	AGEN-6118	Theory of Manufacturing Processes	2	0
	AGEN-6218	Theory of Manufacturing Processes Lab	0	1
13	AGEN-6119	Evaporative Cooling Engineering	2	0
	AGEN-6219	Evaporative Cooling Engineering Lab	0	1
14	AGEN-6120	Agricultural Storage Engineering	2	0
	AGEN-6220	Agricultural Storage Engineering Lab	0	1
15	AGEN-6121	Product Design and Development	3	0
16	AGEN-6122	Precision Agriculture	2	0
	AGEN-6222	Precision Agriculture Lab	0	1

Structures and Environmental Engineering				
17	AGEN-6123	Water Supply and Sewerage	3	0
18	AGEN-6124	Farm Waste Disposal Systems	3	0
19	AGEN-6125	Advance Wastewater Engineering	2	0
	AGEN-6225	Advance Wastewater Engineering Lab	0	1
20	AGEN-6126	Advance Water Pollution Control	2	0
	AGEN-6226	Advance Water Pollution Control Lab	0	1
21	AGEN-6127	Air and Noise Pollution Control	3	0
22	AGEN-6128	Land Surveying	2	0
	AGEN-6228	Land Surveying Lab	0	1
23	AGEN-6129	Energy and Environment	3	0
24	AGEN-6130	Environmental Control in Farm Structures and Landscaping	3	0

MS Water Resources Management

2 Years (4 Semesters)

List of Core Courses

S. No.	Course Code	Course Name	Credit Hrs. 3	
			Theory	Lab
1	AGEN-6105	Irrigation Systems Management	2	0
	AGEN-6205	Irrigation Systems Management Lab	0	1
2	AGEN-6106	Water Resources Planning and Management	2	0
	AGEN-6206	Water Resources Planning and Management Lab	1	0
3	AGEN-6131	Remote Sensing and GIS Applications in Water Resources	2	0
	AGEN-6231	Remote Sensing and GIS Applications in Water Resources Lab	0	1
4	AGEN-6132	Spatial Irrigation Practices and Management	3	0
5	AGEN-6122	Precision Agriculture	2	0
	AGEN-6222	Precision Agriculture Lab	0	1
6	AGEN-6133	Pressurized Irrigation Systems	3	0
7	AGEN-6107	Research Methodology	3	0

List of Elective Courses

S. No.	Course Code	Course Name	Credit Hrs. 3	
			Theory	Lab
1	AGEN-6108	Groundwater Modelling	2	0
	AGEN-6208	Groundwater Modelling Lab	0	1
2	AGEN-6109	Advanced Open Channel Hydraulics	3	0
3	AGEN-6110	Applied Engineering Hydrology	2	0
	AGEN-6210	Applied Engineering Hydrology Lab	0	1
4	AGEN-6111	Planning and Design of Drainage Projects	3	0
5	AGEN-6114	Soil Erosion and Watershed Management	2	0
	AGEN-6214	Soil Erosion and Watershed Management Lab	0	1
6	AGEN-6115	Climate Change and Hydrological Modelling	2	0
	AGEN-6215	Climate Change and Hydrological Modelling Lab	0	1
8	AGEN-6125	Advance Wastewater Engineering	2	0
	AGEN-6225	Advance Wastewater Engineering Lab	0	1
9	AGEN-6126	Advance Water Pollution Control	2	0
	AGEN-6226	Advance Water Pollution Control Lab	0	1
10	AGEN-6134	Hydro-Climatology	3	0
11	AGEN-6135	Land Water Management	3	0
12	AGEN-6136	Environmental Impact Assessment	3	0
13	AGEN-6137	Arid Zone Hydrology	3	0
14	AGEN-6138	Agro-Meteorology	3	0
15	AGEN-6139	Climate Change Impact Assessment	3	0
16	AGEN-6140	Climate Change and Water Resources	2	0
	AGEN-6240	Climate Change and Water Resources Lab	0	1
17	AGEN-6141	Atmospheric Science	3	0
18	AGEN-6142	Groundwater Hydrology and Exploration	3	0
19	AGEN-6143	Water Quality Modelling and Management	3	0
20	AGEN-6144	Hydrometeorology	3	0



Lab Equipments (Department of Agriculture Engineering)

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Department of Agriculture Engineering with Senior Dean of all Faculty & External Delegations

Department of

Chemical Engineering

Introduction and Overview

The application of Natural Sciences to develop technologies and find solutions has led to the development of Chemical Engineering profession as an ever growing discipline. Chemical Engineering applies the core scientific disciplines of chemistry, physics, mathematics, and biology to transform various raw materials or chemicals into more useful and valuable forms by using processes that involve chemical change. Chemical Engineers design new and effective ways to manufacture chemicals by working in close collaboration with chemists to pioneer the development of high-tech materials for specialized applications. The technological advancements in the field of Chemical Engineering are used as a fundamental indicator to estimate the industrial development of a particular region. KFUEIT has taken a bold initiative for the advancement of scientific knowledge by prioritizing the needs of regional industries. In light of this initiative, The department of Chemical Engineering was established in Spring 2018. This was followed by the establishment of various laboratories and hiring highly qualified faculty members, leading to launch of BS Chemical Engineering program in Fall 2019, After Pakistan Engineering Council (PEC) granted its approval to start the BS Chemical Engineering program.

Programs being offered

BS Chemical Engineering

BS Environmental Science

BS Environmental Engineering *

MS Environmental Science

MS Chemical Engineering

MS Environmental Engineering *

PhD Environmental Science *

* Subject to approval / NOC from HEC / Competent Authority / Accreditation Body



Vision & Mission

To become regional, national and international recognized organization for research and development in Chemical Engineering, Environmental Sciences, and Environmental Engineering for addressing the industrial and scientific challenges of the contemporary world by providing qualified manpower with strong interdisciplinary academic foundations needed to develop useful products and services for the society.

Therefore, the department of Chemical Engineering will provide high quality education and training to enable its graduates to accept the challenging leadership positions within the industry, academia, and regulatory bodies.

“Knowledge is that which benefits not that which is memorized”

-Imam Al-Shafi'i (RA)



Key Facts:

- Foreign qualified, experience and motivated teaching faculty
- 3 PhD and 2 Master's Degree qualified Members
- PEC and HEC approved Programs
- Engineering and Graphics Lab
- Applied Chemistry Lab
- Workshop Practices Lab
- Fluid Mechanics Lab
- Chemical Process Technology Lab
- Particulate Technology Lab
- Chemical Engineering Thermodynamics Lab
- Chemical Reaction Engineering Lab
- Separation Processes Lab
- Heat Transfer Lab
- Fuels and Energy Lab
- Instrumentation and Process Control Lab
- Process Design and Simulation Lab



Students performing experiments



Students performing experiments



View of Separation Processes Lab

Scheme of Study

BS Chemical Engineering

4 Years (8 Semesters) Program

Semester 1

S. No.	Course Code	Course Title	Credit Hours	
			Theory	Lab
	ISLS-1112	Islamic Studies	2	-
	ENGL-1118	Functional English	3	-
	MATH-1101	Calculus-I	3	-
	CPEN-1110	Introduction to Computing	3	-
	CPEN-1201	Introduction to Computing Lab	-	1
	CHEM-1101	Applied Chemistry-I	3	-
	CHEM-1201	Applied Chemistry-I Lab	-	1
	CHEM-1102	Chemical Process Principles-I	3	-
Semester Credit Hours			17	2
			19	

Semester 2

S. No.	Course Code	Course Title	Credit Hours	
			Theory	Lab
	PAKS-1113	Pakistan Studies	2	-
	ENGL-1119	Communications Skills	3	-
	MATH-1102	Calculus-II	3	-
	CHEM-1102	Applied Chemistry-II	3	-
	CHEM-1202	Applied Chemistry-II Lab	-	1
	CHEM-1104	Particulate Technology	3	-
	CHEM-1204	Particulate Technology Lab	-	1
	MEEN-1201	Engineering Drawing & Graphics Lab	-	1
Semester Credit Hours			14	3
			17	

Semester 3

S. No.	Course Code	Course Title	Credit Hours	
			Theory	Lab
	MATH-2102	Linear Algebra	3	-
	PHYS-1123	Engineering Physics	2	-
	PHYS-1223	Engineering Physics Lab	-	1
	CHEM-2102	Chemical Engineering Thermodynamics-I	3	-
	CHEM-2111	Chemical Process Principles-II	3	-
	CHEM-2112	Chemical Process Technology	2	-
	CHEM-2212	Chemical Process Technology Lab	-	1
	MEEN-1212	Workshop Practices Lab	-	1
Semester Credit Hours			13	3
			16	

Semester 4

S. No.	Course Code	Course Title	Credit Hours	
			Theory	Lab
	MATH-2122	Differential Equations	3	-
	CHEM-2113	Chemical Engineering Thermodynamics-II	3	-
	CHEM-2213	Chemical Engineering Thermodynamics Lab	-	1
	CHEM-2103	Fluid Mechanics-I	3	-
	CHEM-2203	Fluid Mechanics-I Lab	-	1
	CHEM-2114	Fuels and Energy	3	-
	CHEM-2214	Fuels and Energy Lab	-	1
	MSCI-2112	Engineering Economics	2	-
Semester Credit Hours			14	3
			17	

Semester 5

S. No.	Course Code	Course Title	Credit Hours	
			Theory	Lab
	MEEN-3134	Numerical Methods for Engineers	3	-
	MEEN-3234	Numerical Methods for Engineers Lab	-	1
	MEEN-1104	Engineering Materials	2	-
	CHEM-3111	Fluid Mechanics-II	2	-
	CHEM-3104	Heat Transfer Operations	3	-
	CHEM-3204	Heat Transfer Operations Lab	-	1
	CHEM-3105	Mass Transfer Operations	3	-
	CHEM-3205	Mass Transfer Operations Lab	-	1
Semester Credit Hours			13	3
			16	

Semester 6

S. No.	Course Code	Course Title	Credit Hours	
			Theory	Lab
	CHEM-3102	Chemical Reaction Engineering	3	-
	CHEM-3202	Chemical Reaction Engineering Lab	-	1
	CHEM-3106	Instrumentation and Process Control	3	-
	CHEM-3206	Instrumentation and Process Control Lab	-	1
	CHEM-3108	Process Design & Simulation	2	-
	CHEM-3208	Process Design & Simulation Lab	-	1
	CHEM-3112	Environmental Engineering	2	-
	CHEM-3212	Environmental Engineering Lab	-	1
	MSCI-3111	Entrepreneurship	3	-
Semester Credit Hours			13	4
			17	

Semester 7

S. No.	Course Code	Course Title	Credit Hours	
			Theory	Lab
	HLTH-1113	Basic Health Awareness	2	-
	CHEM-4101	Separation Processes	3	-
	CHEM-4103	Chemical Plant Design	3	-
	CHEM-4107	Transport Phenomena	3	-
	CHEM-4301	Design Project - Part A	3	-
	CHEM-41XX	Elective*-I	3	-
Semester Credit Hours			17	-
			17	

Semester 8

S. No.	Course Code	Course Title	Credit Hours	
			Theory	Lab
	SSCI-3120	Constitution & Legal System of Pakistan	2	-
	CHEM-4106	Maintenance & Utility Engineering	2	-
	CHEM-41XX	Elective*-II	3	-
	CHEM-4301	Design Project - Part B	3	-
	CHEM-4102	Industrial Management	2	-
	CHEM-4201	Separation Processes-II Lab	-	1
	CHEM-4108	Process Safety Management	2	-
Semester Credit Hours			14	1
			15	

Total Credit Hours

134

List of Elective Courses

S. No.	Course Code	Course Name	Credit Hrs. 3	
			Theory	Lab
	CHEM-4130	Novel Separation Processes		
	CHEM-4131	Polymer Engineering		
	CHEM-4132	Computational Fluid Dynamics (CFD)		
	CHEM-4133	Molecular Modelling		
	CHEM-4134	Gas Processing		

S. No.	Course Code	Course Name	Credit Hrs. 3	
			Theory	Lab
	CHEM-4135	Renewable Energy Resources		
	CHEM-4136	Petrochemicals		
	CHEM-4137	Industrial Energy Systems		
	CHEM-4138	Petroleum Refinery Engineering		
	CHEM-4139	Industrial Waste Management		

BS Environmental Science

4 Years (8 Semesters) Program

Semester 1

S. No.	Course Code	Course Title	Credit Hours	
			Theory	Lab
	ENSC-1101	Introduction to Environmental Science	3	-
	BIOL-1181	Applied Biology	3	-
	CHEM-1120	Applied Chemistry	3	-
	CHEM-1220	Applied Chemistry Lab	-	1
	MATH-1120	Applied Mathematics	3	-
	ENGL-1118	Functional English	3	-
	PAKS-1113	Pakistan Studies	2	-
Semester Credit Hours			16	1
			17	

Semester 2

S. No.	Course Code	Course Title	Credit Hours	
			Theory	Lab
	ENSC-1103	Introduction to Earth Sciences	3	-
	PHYS-1121	Applied Physics	3	1
	PHYS-1221	Applied Physics		
	STAT-1100	Statistical Theory	2	-
	SSCI-1111	Introduction to Sociology	3	-
	ENGL-1119	Communication Skills	3	-
	ISLS-1112	Islamic Studies/Ethics*	2	-
Semester Credit Hours			16	1
			17	

Semester 3

S. No.	Course Code	Course Title	Credit Hours	
			Theory	Lab
	CPEN-1110	Introduction to Computing	3	-
	CPEN-1210	Introduction to Computing Lab	1	-
	CHEM-4181	Environmental Chemistry	2	-
	ENSC-2101	Environmental Microbiology	3	-
	ECON-2118	Applied Economics	3	-
	ENGL-2111	Technical Writing and Presentation Skills	3	-
Semester Credit Hours			14	1
			15	

Semester 4

S. No.	Course Code	Course Title	Credit Hours	
			Theory	Lab
	ENSC-2102	Applied Ecology	3	-
	ENSC-2103	Environmental Toxicology	2	-
	ENSC-2203	Environmental Toxicology Lab	-	1
	ENSC-2104	Environmental Pollution	3	-
	ENSC-2105	Biodiversity and Conservation	3	-
	SSCI-4101	Principles of Psychology	3	-
Semester Credit Hours			14	1
			15	

Semester 5

S. No.	Course Code	Course Title	Credit Hours	
			Theory	Lab
	ENSC-3101	Air and Noise Pollution	3	-
	ENSC-3102	Environmental Engineering	2	-
	ENSC-3202	Environmental Engineering Lab	-	1
	ENSC-3103	Environmental Monitoring	2	-
	ENSC-3203	Environmental Monitoring Lab	-	1
	MSCI-2110	Project Management	3	-
	PAKS-2222	International Relations	3	-
Semester Credit Hours			13	2
			15	

Semester 6

S. No.	Course Code	Course Title	Credit Hours	
			Theory	Lab
	ENSC-3104	Environmental Economics	3	-
	ENSC-3105	Environmental Biotechnology	3	-
	ENSC-3106	Environmental Policy and Law	3	-
	ENSC-3107	Natural Resources and Management	3	-
	ENSC-XXXX	Elective – I	3	-
Semester Credit Hours			15	-
			15	

Semester 7

S. No.	Course Code	Course Title	Credit Hours	
			Theory	Lab
	ENSC-4101	Global Warming and Climate Change	3	-
	ENSC-4102	Renewable Energy and Environment	3	-
	ENSC-4103	Environmental Impact Assessment	2	-
	ENSC-4203	Environmental Impact Assessment Lab	-	1
	ENSC-4104	Wastewater Treatment and Management	3	-
	ENSC-4105	Solid Waste Management	3	-
	HLTH-1113	Basic Health Awareness	2	-
Semester Credit Hours			16	1
			17	

Semester 8

S. No.	Course Code	Course Title	Credit Hours	
			Theory	Lab
	SSCI-3120	Constitution and Legal System of Pakistan	2	-
	ENSC-4106	Occupational Safety and Health	3	-
	ENSC-4107	Environmental Management Systems	3	-
	ENSC-4301	Final Year Project	6	-
Semester Credit Hours			14	-
			14	

Total Credit Hours

134

Elective Courses

Elective course will be offered from the pool of courses given below

Novel Separation Processes
 Polymer Engineering
 Computational Fluid Dynamics (CFD)
 Molecular Modelling
 Gas Processing

BS Environmental Engineering

4 Years (8 Semesters) Program

Semester 1

S. No.	Course Code	Course Title	Credit Hrs.	Contact Hrs.
			Th+Lab	Th+Lab
1	ENEN-1101	Introduction to Environmental Engineering	3(3,0)	3
2	MATH-1101	Calculus-I	3(3,0)	3
3	CPEN-1101 CPEN-1201	Computing and Computation	3(2,1)	5
4	ISLS-1112	Islamic Studies / Ethics*	2(2,0)	2
5	ENGL-1118	Functional English	3(3,0)	3
6	CHEM-1120 CHEM-1220	Applied Chemistry	3(2,1)	5
Total			17	21

Semester 2

S. No.	Course Code	Course Title	Credit Hrs.	Contact Hrs.
			Th+Lab	Th+Lab
1	CIEN-1100 CIEN-1200	Surveying and Levelling	3(2,1)	5
2	MATH-1102	Calculus-II	3(3,0)	3
3	PAKS-1113	Pakistan Studies	2(2,0)	2
4	ENEN-1102	Environmental Physics	2(2,0)	2
5	BIOL-1181	Applied Biology	3(3,0)	3
6	MEEN-1201	Engineering Drawing & Graphics Lab	1(0,1)	3
7	ENSC-2104	Environmental Pollution	3(3,0)	3
Total			17	21

Semester 3

S. No.	Course Code	Course Title	Credit Hrs.	Contact Hrs.
			Th+Lab	Th+Lab
1	ENEN-2101	Environmental Microbiology and Biotechnology	3(3,0)	3
2	ENEN-2102 ENEN-2202	Environmental Engineering Thermodynamics	3(2,1)	5
3	MATH-2104	Linear Algebra and Differential Equations	3(3,0)	3
4	ENSC-3107	Natural Resources and Management	3(3,0)	3
5	ENSC-4102	Renewable Energy and Environment	3(3,0)	3
6	CHEM-4181 CHEM-4281	Environmental Chemistry	3(2,1)	5
Total			18	22

Semester 4

S. No.	Course Code	Course Title	Credit Hrs.	Contact Hrs.
			Th+Lab	Th+Lab
1	ENEN-2103 ENEN-2203	Fluid Mechanics for Environmental Engineers	4(3,1)	6
2	ENSC-2103 ENSC-2203	Environmental Toxicology	3(2,1)	5
3	ENSC-3101	Air and Noise Pollution	3(3,0)	3
4	AGEN-4104 AGEN-4204	Remote Sensing and GIS	3(2,1)	5
5	ENSC-4105	Solid Waste Management	3(3,0)	3
Total			16	22

Semester 5

S. No.	Course Code	Course Title	Credit Hrs.	Contact Hrs.
			Th+Lab	Th+Lab
1	ENSC-3101	Pollutants Movement in Soil	2(2,0)	2
2	ENEN-3101	Sewerage System Design	3(3,0)	3
3	ENEN-3102	Ground Water Hydrology	3(3,0)	3
4	ENSC-3103	Environmental Monitoring	3(2,1)	5
5	MSCI-3111	Entrepreneurship	3(3,0)	3
6	MEEN-3134 MEEN-3234	Numerical Methods for Engineers	4(3,1)	6
Total			18	22

Semester 6

S. No.	Course Code	Course Title	Credit Hrs.	Contact Hrs.
			Th+Lab	Th+Lab
1	MSCI-2112	Engineering Economics	2(2,0)	2
2	ENEN-3103	Wastewater Treatment and Desalination	3(3,0)	3
3	ENEN-3104	Cleaner Production Technologies	3(3,0)	3
4	ENEN-3105	Environmental Remediation	3(3,0)	3
5	ENSC-3106	Environmental Policy and Law	3(3,0)	3
6	ENEN-3206	Water Quality Analysis Lab	2(0,2)	6
Total			16	20

Summer Semester

S. No.	Course Code	Course Title	Duration
1	ENEN-3301	Industrial Training/Internship	4-6 weeks

Semester 7

S. No.	Course Code	Course Title	Credit Hrs.	Contact Hrs.
			Th+Lab	Th+Lab
1	STAT-1100	Statistical Theory	2(2,0)	2
2	HLTH-1113	Basic Health Awareness	2(2,0)	2
3	ENGL-2111	Technical Writing and Presentation Skills	3(3,0)	3
4	ENSC-4103 ENSC-4203	Environmental Impact Assessment	3(2,1)	5
5	ENEN-4101	Wastewater Engineering and Design	3(3,0)	3
6	ENEN-4301	Final Year Design Project – Part A	3(3,0)	3
Total			18	22

Semester 8

S. No.	Course Code	Course Title	Credit Hrs.	Contact Hrs.
			Th+Lab	Th+Lab
1	SSCI-3120	Constitution and Legal System of Pakistan	2(2,0)	2
2	ENEN-4102	Industrial and Procurement Management	2(2,0)	2
3	ENEN-4103	Occupational Health and Safety	2(2,0)	2
4	ENEN-4104	Industrial and Hazardous Waste Management	3(3,0)	3
5	ENEN-4205	Environmental Modelling Lab	1(0,1)	3
6	ENSC-4107	Environmental Management Systems	3(3,0)	3
7	ENEN-4301	Final Year Design Project – Part B	3(0,3)	3
Total			16	18

* Non-Muslim students can opt for Ethics instead of Islamic Studies

*“This is your World that you strive to gain
and that you cry over”*

- Hazrat Umar Ibn Al-Khattab (RA)

List of MS Chemical Engineering Courses

Core Courses

S. No.	Course Code	Course Title	Credit Hrs.
			Th+Lab
1	CHEN-5101	Research Methodology	3(3,0)
2	CHEN-5102	Advanced Chemical Reaction Engineering	3(3,0)
3	CHEN-5103	Advanced Heat Transfer	3(3,0)
4	CHEN-5104	Process Safety and Loss Prevention	3(3,0)

MS & PhD Environmental Science

From the following consolidated list of courses, first four (04) courses will be offered as core courses while further (04) four more courses will be offered as elective courses in MS Environmental Science program. However, for PhD Environmental Science program, a total of six (06) courses with course code format ENSC-61XX and ENSC-71XX will be offered from the following consolidated list of courses

S. No.	Course Code	Course Title	Credit Hrs.
			Th+Lab
1.	ENSC-5101	Research Methodology	3(3,0)
2.	ENSC-5102	Statistical Data Analysis	3(3,0)
3.	ENSC-5103	Environmental Analytical Techniques	3(2,1)
4.	ENSC-5104	Environmental Chemistry and Microbiology	3(3,0)
5.	ENSC-5105	Advance Principles of Environmental Science	3(3,0)
6.	ENSC-5106	Physico-Chemical Processes in Environmental Science	3(3,0)
7.	ENSC-5107	Advance Biological Wastewater Treatment Processes	3(3,0)
8.	ENSC-5108	Advance Anaerobic Wastewater Treatment	3(3,0)
9.	ENSC-5109	Green Engineering Technologies	3(3,0)
10.	ENSC-6101	Advance Membrane Technologies for Water and Waste-water Treatment	3(3,0)
11.	ENSC-6102	Biotechnology for Environment	3(3,0)
12.	ENSC-6103	Ecology and Risk Assessment	3(3,0)
13.	ENSC-6104	Strategic Environmental Impact Assessment	3(3,0)
14.	ENSC-6105	Advance Remote Sensing and GIS	3(2,1)
15.	ENSC-6106	Remote Sensing and GIS Applications in Environmental Science	3(2,1)
16.	ENSC-6107	Environmental Laws and Policies	3(3,0)
17.	ENSC-6108	Advance Occupational Health and Safety	3(3,0)

S. No.	Course Code	Course Title	Credit Hrs.
			Th+Lab
18.	ENSC-6109	Municipal Solid Waste Principles and Management	3(3,0)
19.	ENSC-6110	Advance Air Pollution Control	3(3,0)
20.	ENSC-6111	Hazardous Air Pollutants (HAPs) Characterization and Control	3(3,0)
21.	ENSC-6112	Industrial Wastewater Pollution Control and Management	3(3,0)
22.	ENSC-6113	Agricultural Pollution Control	3(3,0)
23.	ENSC-6114	Marine Pollution Monitoring and Control	3(3,0)
24.	ENSC-7101	Advance Environmental Remediation	3(3,0)
25.	ENSC-7102	Meteorology and Effluent Dispersion	3(3,0)
26.	ENSC-7103	Advance Wastewater Engineering and Design	3(3,0)
27.	ENSC-7104	Advance Water Supply and Wastewater Collection Systems	3(3,0)
28.	ENSC-7105	Advance Water Resources Management	3(3,0)
29.	ENSC-7106	Advance Watershed Management	3(3,0)
30.	ENSC-7107	Renewable Energy Resources	3(3,0)
31.	ENSC-7108	Applied Mathematics for Environmental Scientists	3(3,0)
32.	ENSC-7109	Water Quality Modelling	3(3,0)
33.	ENSC-7110	Modelling of Environmental Systems	3(2,1)



Foreign Delegation Visiting Department of Chemical Engineering



BOS of Department of Chemical Engineering (December 2018)



BOS of Department of Chemical Engineering Group Photo (December 2018)

Faculty Profile

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Industrial Visit (January 2018)

Department of

Civil Engineering

Introduction and Overview

History of Civil Engineering dates back to the evolution of human needs for food, shelter and routes for transportation. It stands among the oldest engineering disciplines in human history and is universally recognized as the mother of all engineering disciplines. Civil Engineering is a broad and vast field which encompasses everything that we see around us, that either has been built or being built using the natural and or man-made resources. Civil Engineering covers the planning, design, construction, operations and maintenance of buildings, bridges, streets and highways, railways, airports, industries, all kind of infrastructure for water supply, sewage, hydraulic structures and irrigation systems and many more.

Civil Engineering Department at Khwaja Fareed University of Engineering & Information Technology was established in 2017 with the first intake of fifty (50) students of BS Civil Engineering from Fall 2017. Pakistan Engineering Council issued the green signal after the successful zero visit in November 2017. MS Civil Engineering (Specialization in Water Resources & Irrigation Engineering) is started from Spring 2019 after HEC issued the NOC. KFUEIT is among the few public sector universities in Southern Punjab, offering BS and MS Programs in Civil Engineering. Infrastructure of department has already been completed and labs have been equipped with the state-of-the-art equipment and commercial testing facilities. Currently, the departmental lab facilities are not only meeting the educational requirements and professional growth of students, but also covering the regional needs of commercial testing for various industrial projects.

Vision & Mission

Vision of the department is to achieve the national and international acceptance by developing the learning environment for theoretical and practical education in Civil Engineering and purposeful research. We aim to produce competent and problem solver civil engineers in the seven major areas: Hydraulics and water resources, Structural Engineering, Materials and Forensic Engineering, Geotechnical Engineering, Transportation Engineering, Environmental engineering and Construction Project Management. Mission of the department is to impart high quality civil engineering education by missing modern teaching techniques and research methodologies for acquiring the latest, creative and lifelong learning



Programs being offered

BS Civil Engineering (4 Years Program)

MS Civil Engineering (2 Years Program)

Specialization in Water Resources & Irrigation Engineering

knowledge of engineering, sciences and technology. The mission also focuses on the development of professional and ethical qualities required of a successful Engineer and responsible member of society for national and international infrastructural and socio-economic development.



Key Facts:

- Departmental Strength
 - 1 PhD, 4 MSc Civil Engineering
 - Director Labs, 3 Engineers, 8 Support Staff
- Well established departmental infrastructure (12 faculty offices, 4 lecture theatres, 13 Large – scale laboratories, 2 Admin offices, 1 departmental Library)
- PEC and HEC Approved Program
- Faculty is graduated from the top ranked universities nationally and internationally
- Laboratories with latest Equipment and Machinery (Latest Universal Testing Machine, Computerized Triaxial Compression Machine, Reaction Frame, Computerized Compression Testing Machine, Non – destructive Testing Facilities.



Lab Facilities / Infrastructure

- Following state of the art laboratory facilities have been developed at the Department of Civil Engineering.
- Engineering Mechanics Lab
- Computers Center Lab
- Strength of Materials Lab
- Plain and Reinforced Concrete Lab
- Geotechnical Engineering Lab
- Foundation Engineering Lab
- Hydraulics Engineering Lab
- Transportation Engineering Lab
- Hydrology and Irrigation Engineering Lab
- Environmental Engineering Lab
- GIS & RS Lab
- Earthquake Engineering Lab
- Survey Lab



BOS (Department of Civil Engineering)



Faculty of Civil Engineering Department



Civil Engineering Lab Equipments

Commercial Activities (Tests and Reports)

Civil Engineering Department

Civil Engineering Department is actively engaged in commercial testing services by offering services from following labs:

- Strength of Materials Lab
- Plain & Reinforced Concrete Lab
- Transportation Lab
- Survey Lab
- Geotechnical Engineering Lab
- Hydraulics Engineering Lab
- Hydrology & Irrigation Engineering



The Department has clients from a wide range of government, private and industry stakeholders. Following departments, industries, consultants and construction companies are among our valuable clients and taking benefit of our services:

- NESPAK Pvt Ltd
- Unilever Pakistan Pvt Ltd
- Fatima Fertilizer Co Ltd
- Mott MacDonald Pakistan (MMP)
- Mari Petroleum Co Ltd
- Pak Arab Fertilizers Pvt Ltd
- Municipal Committees
- ETTIHAD Industries
- TMA's
- Asian Consultants
- Highways Department
- Public Health Engineering Department
- ACE Pvt Ltd RYK
- And many others construction companies



Students have the opportunities to get hands-on experience and chances of interaction with the future employers and to grasp the essence of their practical field work. The testing data is useful for the students for learning the real world scenarios. Testing experimentation is creating a professional environment that is directly helping in grooming the abilities of future Civil Engineers.

“A moment of patience in the moment of anger prevents thousands of moments of regrets”

- Hazrat Ali Ibn Abi Talib (RA)



Civil Engineering Lab Equipments



Students Performing Lab Experiments with Instructors

Scheme of Study

BS Civil Engineering

Semester 1

S. No.	Course Code	Course Title	Contact Hours	Credit Hours
1	CIEN-1101	Construction Materials	2	2
2	CIEN-1201	Construction Materials Lab	3	1
3	COSC-1101	Programming Fundamentals	3	3
4	COSC-1201	Programming Fundamentals Lab	3	1
5	CIEN-1102	Civil Engineering Drawing	1	1
6	CIEN-1202	Civil Engineering Drawing Lab	6	2
7	ELEC-1108	Basic Electrical Engineering	1	1
8	ELEC-1208	Basic Electrical Engineering Lab	3	1
9	MATH-1131	Applied Calculus	3	3
10	ISLS-1112/ ETIC-1112 MTSC-3209	Islamic Studies/ Ethics	2	2
Credit Hours			17	27

Semester 2

S. No.	Course Code	Course Title	Contact Hours	Credit Hours
1	CIEN-1103	Surveying-I	2	2
2	CIEN-1203	Surveying-I Lab	3	1
3	CIEN-1104	Engineering Geology	2	2
4	PHYS-1124	Engineering Mechanics	2	2
5	PHYS-1224	Engineering Mechanics Lab	3	1
6	HLTH-1113	Basic Health Awareness	2	2
7	ENGL-1119	Communication Skills	3	3
8	PAKS-1113	Pakistan Studies	2	2
Credit Hours			19	15

Semester 3

S. No.	Course Code	Course Title	Contact Hours	Credit Hours
1	CIEN-2101	Mechanics of Materials	2	2
2	CIEN-2201	Mechanics of Materials Lab	3	1
3	CIEN-2102	Fluid Mechanics-I	3	3
4	CIEN-2202	Fluid Mechanics-I Lab	3	1
5	CIEN-2103	Geotechnical Engineering-I	3	3
6	CIEN-2203	Geotechnical Engineering-I Lab	3	1
7	CIEN-2104	Civil Eng. Construction & Graphics	1	1
8	CIEN-2204	Civil Eng. Construction & Graphics Lab	6	2
9	SSCI-3120	Constitution and Legal System of Pakistan	2	2
10	MATH-2122	Differential Equations	3	3
Credit Hours			29	19

Semester 4

S. No.	Course Code	Course Title	Contact Hours	Credit Hours
1	CIEN-2105	Surveying-II	2	2
2	CIEN-2205	Surveying-II Lab	3	1
3	CIEN-2106	Elementary Structural Analysis	2	2
4	CIEN-2107	Plain & Reinforced Concrete-I	3	3
5	CIEN-2207	Plain & Reinforced Concrete-I Lab	3	1
6	MSCI-2112	Eng Economics	2	2
7	MSCI-3109	Construction Project Management	2	2
8	MSCI-3109	Construction Project Management lab	3	1
9	STAT-2131	Probability and Statistics	3	3
Credit Hours			24	18

Semester 5

S. No.	Course Code	Course Title	Contact Hours	Credit Hours
1	CIEN-3101	Fluid Mechanics-II	3	3
2	CIEN-3201	Fluid Mechanics-II Lab	3	1
3	CIEN-3102	Structural Analysis	2	2
4	CIEN-3103	Geotechnical Engineering-II	3	3
5	CIEN-3203	Geotechnical Engineering-II Lab	3	1
6	CIEN-3104	Environmental Engineering-I	2	2
7	CIEN-3204	Environmental Engineering-I Lab	3	1
8	CIEN-3105	Transportation Engineering-I	2	2
9	CIEN-3205	Transportation Engineering-I Lab	3	1
10	MATH-2124	Numerical Analysis	3	3
Credit Hours			27	19

Semester 6

S. No.	Course Code	Course Title	Contact Hours	Credit Hours
1	CIEN-3106	Steel Structures	2	2
2	CIEN-3107	Hydraulic Engineering	2	2
3	CIEN-3207	Hydraulic Engineering Lab	3	1
4	CIEN-3108	Structural Mechanics	2	2
5	CIEN-3208	Structural Mechanics Lab	3	1
6	CIEN-3109	Engineering Hydrology	2	2
7	CIEN-3209	Engineering Hydrology Lab	3	1
8	CIEN-3110	Quantity & Cost estimation	2	2
9	CIEN-3210	Quantity & Cost estimation lab	3	1
10	ENGL-2111	Technical Writing & Presentation Skills	3	3
Credit Hours			25	17

“When all else is lost, the future still remains”

- Christian Nestel Bovee

Semester 7

S. No.	Course Code	Course Title	Contact Hours	Credit Hours
1	CIEN-4101	Plain & Reinforced Concrete-II	3	3
2	CIEN-4201	Plain & Reinforced Concrete-II Lab	3	1
3	CIEN-4102	Transportation Engineering-II	2	2
4	CIEN-4202	Transportation Engineering-II Lab	3	1
5	CIEN-4103	Environmental Engineering-II	2	2
6	CIEN-4104	Structural Engineering	2	2
7	CIEN-4204	Structural Engineering-Lab	3	1
8	CIEN-4106	Civil Engineering Project I	3	3
9	CIEN-4105	Geo-Informatics	2	2
10	CIEN-4205	Geo-Informatics Lab	3	1
Credit Hours			26	18

Semester 8

S. No.	Course Code	Course Title	Contact Hours	Credit Hours
1	CIEN-4107	Irrigation Engineering	3	3
2	CIEN-4207	Irrigation Engineering Lab	3	1
3	CIEN-4108	Design of Structures	2	2
4	CIEN-4208	Design of Structures Lab	3	1
5	CIEN-4109	Architecture & Town Planning	2	2
6	CIEN-4110	Civil Engineering Project II	3	3
7	MSCI-3107	Hazards & Disaster Management	3	3
Credit Hours			19	15

Total Credit Hours**138****MS Civil Engineering**

Civil Engineering Department's target is to launch the master programs of Civil Engineering in the following areas of specializations.

- Water Resources and Irrigation Engineering
- Structure Engineering
- Geotechnical Engineering
- Transportation Engineering
- Environmental Engineering

MS Civil Engineering (Water Resources & Irrigation Engineering)

The department launched Graduate degree program in Civil Engineering with major in Water Resources and Irrigation Engineering from Spring 2019. The objective of initiating this degree was to lay emphasis on water crisis and power related issues being faced globally. Furthermore, it was also aimed to address the deteriorating groundwater quality by conducting advance level research in the field of groundwater resource management and remediation.



Water Resources & Irrigation Engineering

S. No.	Course Code	Course Title	Examination Marks			Contact Hours	Contact Hours
				Part-II (Lab)			
				Sessional	Viva Voce		
CORE SUBJECTS							
1	CIEN-5101	Water Resource System	100			2	2
	CIEN-5201	Water Resource System Lab		75	25	1	3
2	CIEN-5102	Applied Engineering Hydrology	100			2	2
	CIEN-5202	Applied Engineering Hydrology Lab		75	25	1	3
3	CIEN-5103	Water Resources Management & Planning	100			2	2
	CIEN-5203	Water Resources Management & Planning Lab		75	25	1	3
4	CIEN-6101	Sediment Transport Engineering	100			2	2
	CIEN-6201	Sediment Transport Engineering Lab		75	25	1	3
5	CIEN-6102	Design of Hydraulic Structures	100			2	2
	CIEN-6202	Design of Hydraulic Structures Lab		75	25	1	3
6	CIEN-6103	Irrigation Engineering & Practices	100			2	2
	CIEN-6203	Irrigation Engineering & Practices Lab		75	25	1	3
Total (Core Subjects)			600	450	150	12	06

ELECTIVE SUBJECTS (ANY TWO OF THE FOLLOWINGS)

S. No.	Course Code	Course Title	Examination Marks			Contact Hours	Contact Hours
				Part-II (Lab)			
				Sessional	Viva Voce		
CORE SUBJECTS							
1	CIEN-5104	Advance Fluid Mechanics	100			2	2
	CIEN-5204	Advance Fluid Mechanics Lab		75	25	1	3
2	CIEN-5105	Advanced Fluvial Hydraulics	100			2	2
	CIEN-5205	Advanced Fluvial Hydraulics Lab		75	25	1	3
3	CIEN-5106	Drainage Engineering	100			2	2
	CIEN-5206	Drainage Engineering Lab		75	25	1	3
4	CIEN-5107	Resources Conservation Engineering	100			2	2
	CIEN-5207	Resources Conservation Engineering Lab		75	25	1	3
5	CIEN-6104	Computer aided Design of Hydraulic Structures	100			2	2
	CIEN-6204	Computer aided Design of Hydraulic Structures Lab		75	25	1	3
6	CIEN-6105	Application of RS & GIS in Civil Engineering	100			2	2
	CIEN-6205	Application of RS & GIS in Civil Engineering Lab		75	25	1	3
7	CIEN-6106	Ground Water Engineering	100			2	2
	CIEN-6206	Ground Water Engineering Lab		75	25	1	3
8	CIEN-6107	Hydro Power Engineering	100			2	2
	CIEN-6207	Hydro Power Engineering Lab		75	25	1	3
9	CIEN-7101	Hydrological Modeling	100			2	2
	CIEN-7102	Hydrological Modeling Lab		75	25	1	3
10	CIEN-7102	River Engineering & Flood Management	100			2	2
	CIEN-7202	River Engineering & Flood Management Lab		75	25	1	3
11	CIEN-7103	Climate Change and Water Resources	100			2	2
	CIEN-7203	Climate Change and Water Resources Lab		75	25	1	3
12	CIEN-7104	Coastal sediments and beach processes	100			2	2
	CIEN-7204	Coastal sediments and beach processes Lab		75	25	1	3
13	CIEN-7105	Environmental Fluid Mechanics	100			2	2
	CIEN-7205	Environmental Fluid Mechanics Lab		75	25	1	3
14	CIEN-7106	Watershed Management & Soil Erosion	100			2	2
	CIEN-7206	Watershed Management & Soil Erosion		75	25	1	3
Total (Elective Subjects)			200	150	50	04	02

MS Theses

S. No.	Course Code	Course Title	Examination Marks			Contact Hours	Contact Hours
				Part-II (Lab)			
				Sessional	Viva Voce		
CORE SUBJECTS							
1	CIEN-8101	Pre-Final Defence Examination	-	30	30	3	
2	CIEN-8102	Final Defence Examination	-	60	70	9	
3		Research Papers	10	-	-		
Total (Elective Subjects)			10	90	100	12	
				810	690	300	
1700							

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“Don’t depend too much on anyone in this world because even your own shadow leaves you when you are in the dark!”

- Ibn Taymiyyah (RA)

Department of

Computer Engineering

Introduction and Overview

Computer Engineering Department (CPED) at Khwaja Fareed University of Engineering and Information Technology (KFUEIT) was established in 2017. CPED enjoys newly purpose built infrastructure with faculty offices, teaching rooms, lecture theatres and laboratories. The department has well experienced teaching staff from diverse backgrounds. CPED offers specialization in:

- Image Processing
- VLSI System Design
- Communication
- Software Engineering

At CPED we follow Outcome Base Education (OBE) paradigm to get aligned with Washington accord for our Undergraduate Programs.

Department Vision & Mission

To become a globally recognized Computer Engineering Department that will have an overwhelming impact on society through continual innovation in education, research, creativity and entrepreneurship.

The Department mission is the discovery, dissemination and application of knowledge. It offers degree programs at the undergraduate and graduate levels and pursues a broad agenda of research and creative activities. It aims to shape the future by:

- Offering nationally competitive and internationally recognized opportunities for learning
- Fostering continual innovation and creativity and promoting new ideas
- Making a significant, sustainable and socially responsible contribution to the region, the nation and the World
- Creating awareness and promoting health, economic and cultural wellbeing

Key Features / Facilities

- 5 PhD Faculty Members
- 4 MS Faculty Members
- 3 Lab Engineers
- 3 Research Assistants
- 3 Lab Assistants
- 1 Office Attendant
- Young, energetic and dynamic team.
- Outcome Based Education in practice at CPE to conform to Washington Accord.
- Dedicated infra-structure. (12 Faculty Offices, 6 large scale labs, 2 Admin offices)
- PEC and HEC Approved Programs
- Our faculty is graduated from the top ranked Universities nationally and internationally.
- State of art laboratories (Latest Computing machines, micro-processors, micro-controllers, trainer kits)
- State of art research equipment
- One of the first spectral Imaging Lab in Pakistan



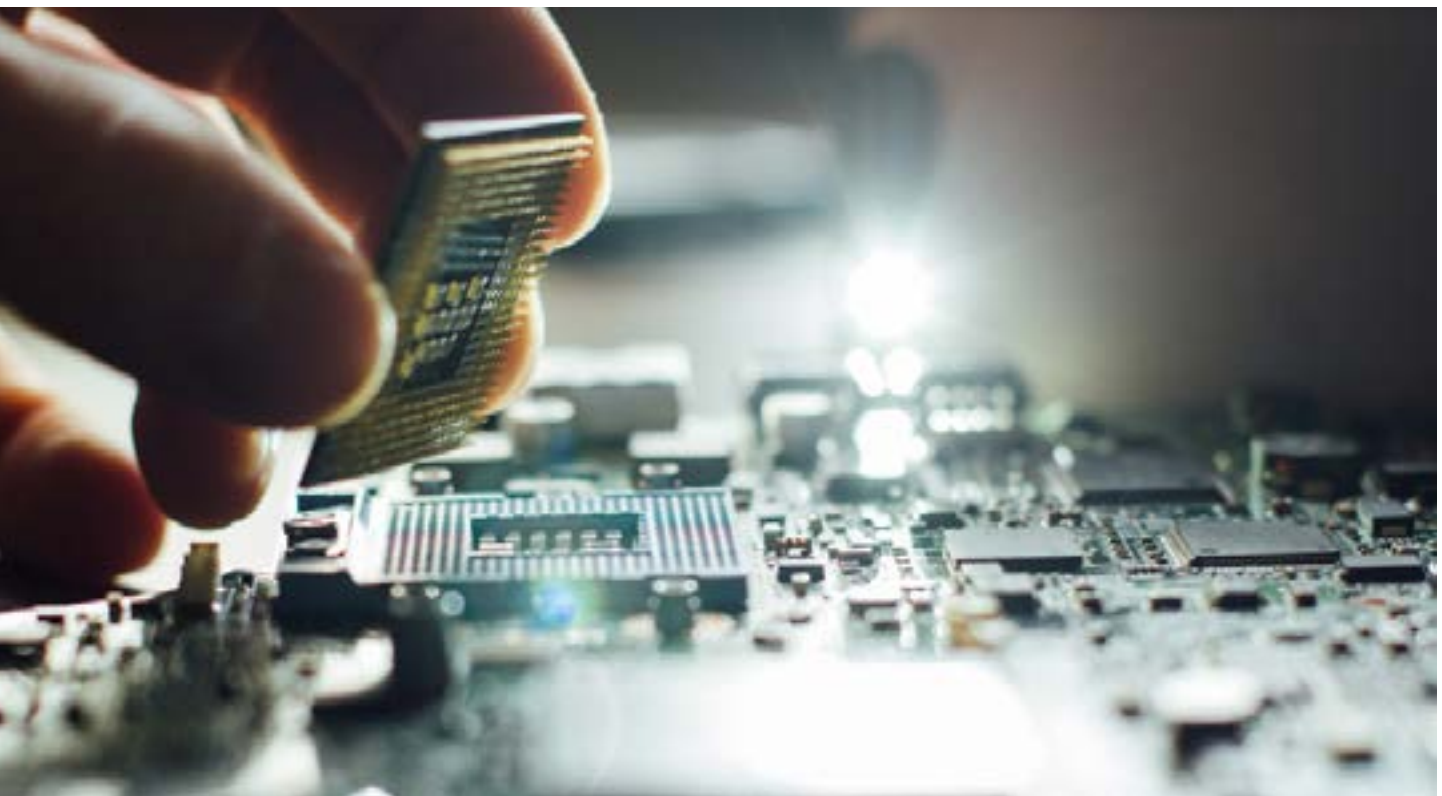
Programs being offered

BS Computer Engineering

BS Software Engineering

MS Computer Engineering

MS Software Engineering



Students & Faculty Members of Computer Engineering Department with Vice Chancellor (ESPICE Project Exhibition)

Scheme of Study

BS Computer Engineering

Semester 1

S. No.	Course Code	Course Title	Knowledge Area	Credit Hrs.
1	ISLS-1112	Islamic Studies/Ethics	Humanities	2
2	ENGL-1118	Functional English	Humanities	3
3	MATH-1100	Calculus	Natural Sciences	3
4	PHYS-1123	Engineering Physics	Natural Sciences	2
5	PHYS-1223	Engineering Physics Lab	Natural Sciences	1
6	CPEN-1114	Introduction to Computing	Computing	2
7	CPEN-1214	Introduction to Computing Lab	Computing	1
8	ELEN-1201	Workshop practice	Engineering Foundation	1
Credit Hours			15	

Semester 2

S. No.	Course Code	Course Title	Knowledge Area	Credit Hrs.
1	PAKS-1113	Pakistan Studies	Humanities	2
2	CPEN-1122	Intensive Programming	Computing	3
3	CPEN-1122	Intensive Programming	Computing	1
4	MATH-2103	Linear Algebra	Natural Sciences	3
5	CPEN-1121	Circuit Analysis	Engineering Foundation	3
6	CPEN-1221	Circuit Analysis Lab	Engineering Foundation	1
7	ENGL-1119	Communication Skills	Humanities	3
8	ELEN-2201	Computer Aided Engineering Drawing	Engineering Foundation	1
Credit Hours			17	

Semester 3

S. No.	Course Code	Course Title	Knowledge Area	Credit Hrs.
1	CPEN-2120	Digital Logic Design	Engineering Foundation	3
2	CPEN-2220	Digital Logic Design Lab	Engineering Foundation	1
3	CPEN-2123	Object Oriented Programming	Engineering Foundation	3
4	CPEN-2223	Object Oriented Programming Lab	Engineering Foundation	1
5	CPEN-2110	Discrete structures	Computing	3
6	CPEN-2122	Electronic Devices and Circuits	Engineering Foundation	3
7	CPEN-2222	Electronic Devices and Circuits Lab	Engineering Foundation	1
8	MATH-2122	Differential Equations	Natural Sciences	3
Credit Hours			18	

Semester 4

S. No.	Course Code	Course Title	Knowledge Area	Credit Hrs.
1	STAT-2104	Probability & Statistics	Natural Sciences	3
2	CPEN-2124	Computer Organization & Architecture	Engineering Foundation	3
3	CPEN-2224	Computer Organization & Architecture Lab	Engineering Foundation	1
4	ENGL-2121	Technical Report Writing Skills	Core (Breadth)	2
5	CPEN-2121	Data Structures and Algorithms	Engineering Foundation	3
6	CPEN-2221	Data Structures and Algorithms Lab	Engineering Foundation	1
7	CPEN-2125	Signals & Systems	Engineering Foundation	3
8	CPEN-2225	Signals & Systems Lab	Engineering Foundation	1
Credit Hours			17	

Semester 5

S. No.	Course Code	Course Title	Knowledge Area	Credit Hrs.
1	MSCI-XXXX	Management Elective-I	Management Science	3
2	CPEN-3131	Operating Systems	Core (Breadth)	3
3	CPEN-3231	Operating Systems Lab	Core (Breadth)	1
4	CPEN-3132	Microprocessors and Microcontroller Interfacing	Core (Breadth)	3
5	CPEN-3232	Microprocessors and Microcontroller Interfacing Lab	Core (Breadth)	1
6	MATH-3116	Numerical Analysis	Core (Breadth)	3
7	CPEN-3134	Digital Signal Processing	Core (Breadth)	3
8	CPEN-3234	Digital Signal Processing Lab	Core (Breadth)	1
Credit Hours			18	

Semester 6

S. No.	Course Code	Course Title	Knowledge Area	Credit Hrs.
1	CPEN-314X	CE Depth Elective-I	Major Based Core (Depth)	3
2	CPEN-3135	Data Communication & Computer Networks	Core (Breadth)	3
3	CPEN-3235	Data Communication & CompNet Lab	Core (Breadth)	1
4	SWEN-1111	Software Engineering	Core (Breadth)	3
5	CPEN-3130	Digital System Design	Core (Breadth)	3
6	CPEN-3230	Digital System Design Lab	Core (Breadth)	1
7	SWEN-3111	Database Systems	Computing	3
8	SWEN-3211	Database Systems Lab	Computing	1
Credit Hours			18	

Semester 7

S. No.	Course Code	Course Title	Knowledge Area	Credit Hrs.
1	CPEN-314X	CE Depth Elective- II	Major Based Core (Depth)	3
2	CPEN-4390	FYP-I	Senior Design project	3
3	CPEN-415X	IDEE-I	IDEE (Breadth)	3
4	CPEN-4140	CE Depth Elective-III	Major Based Core (Depth)	3
5	CPEN-415X	IDEE-II	IDEE (Breadth)	3
6	SSCI-3120	Constitution and Legal System of Pakistan	Humanities	2
Credit Hours			17	

Semester 8

S. No.	Course Code	Course Title	Knowledge Area	Credit Hrs.
1	MSCI-XXXX	Management elective-II	Management Sciences	2
2	CPEN-4391	FYP-II	Senior Design project	3
3	CPEN-415X	IDEE-III	IDEE (Breadth)	3
4	CPEN-414X	CE Depth Elective-IV	Major Based Core (Depth)	3
5	HLTH-1113	Basic Health Awareness	Humanities	2
6	SSCI-2111	Professional Ethics	Humanities	2
Credit Hours			15	

GRAND TOTAL

135

BS Software Engineering

Semester 1

S. No.	Course Code	Course Title	Knowledge Area	Credit Hrs.
1	ISLS-1112	Islamic Studies/Ethics	General Education	2
2	ENGL-1118	Functional English	General Education	3
3	MATH-1100	Calculus	Math & Science Foun	3
4	PHYS-1123	Engineering Physics	Math & Science Foun	2
5	PHYS-1223	Engineering Physics Lab	Math & Science Foun	1
6	CPEN-1114	Introduction to Computing	General Education	2
7	CPEN-1214	Introduction to Computing Lab	General Education	1
8	MSCI-2116	Principles of Accounting	Management Sciences	3
Credit Hours			17	

Semester 2

S. No.	Course Code	Course Title	Knowledge Area	Credit Hrs.
1	PAKS-1113	Pakistan Studies	General Education	2
2	CPEN-1122	Intensive Programming	Computing Core	3
3	CPEN-1222	Intensive Programming Lab	Computing Core	1
4	SWEN-1111	Software Engineering	Computing Core	3
5	ENGL-1119	Communication Skills	General Education	3
6	MATH-2103	Linear Algebra	Math & Science Foun	3
7	ENGL-2121	Technical Report Writing Skills	General Education	2
Credit Hours			17	

Semester 3

S. No.	Course Code	Course Title	Knowledge Area	Credit Hrs.
1	CPEN-2110	Discrete Structures	Computing Core	3
2	CPEN-2123	Object Oriented Programming	Computing Core	3
3	CPEN-2223	Object Oriented Programming Lab	Computing Core	1
4	SWEN-2113	Lab	SE Core	3
5	MATH-2122	Software Requirement Eng	Math and Science Foun	3
6	CPEN-2120	Differential Equations	Foun	3
7	CPEN-2220	Digital Logic Design	Computing Core	1
		Digital Logic Design Lab	Computing Core	
Credit Hours			17	

Semester 4

S. No.	Course Code	Course Title	Knowledge Area	Credit Hrs.
1	STAT-2104	Probability and Statistics	Math and Science Foun	3
2	SWEN-2112	Software Design & Architecture	SE Core	2
3	SWEN-2212	Software Design & Architecture Lab	SE Core	1
4	SWEN-3111	Database Systems	Computing Core	3
5	SWEN-3211	Database Systems Lab	Computing Core	1
6	SWEN-XXXX	SE Supporting-I	SE Supporting	3
7	CPEN-2121	Data Structure & Algorithm	Computing Core	3
8	CPEN-2221	Data Structure & Algorithm Lab	Computing Core	1
Credit Hours			17	

Semester 5

S. No.	Course Code	Course Title	Knowledge Area	Credit Hrs.
1	SSCI-3120	Constitution and Legal System of Pakistan	University Elective	2
2	CPEN-3131	Operating Systems	Computing Core	3
3	CPEN-3231	Operating Systems	Computing Core	1
4	SWEN-3132	Operating System Lab	SE Core	3
5	SWEN-3115	Mobile Application Development	SE Core	3
6	SWEN-3113	Web Engineering	SE Core	2
7	SWEN-3212	Software Construction and Development	SE Core	1
8	SWEN-XXXX	Software Construction and Deve Lab	SE Supporting	3
Credit Hours			18	

Semester 6

S. No.	Course Code	Course Title	Knowledge Area	Credit Hrs.
1	SWEN-3114	Software Quality Engineering	SE Core	3
2	SWEN-3112	Information Security	Computing Core	3
3	CPEN-3135	Data Communication & Comp Networks	Computing Core	3
4	CPEN-3235	Data Communication & Comp Networks Lab	Computing Core	1
5	SWEN-XXXX	SE Elective I	SE Elective	3
6	SWEN-XXXX	SE Supporting III	SE Supporting	3
7	SSCI-3120	Professional Ethics	General Education	2
Credit Hours			18	

Semester 7

S. No.	Course Code	Course Title	Knowledge Area	Credit Hrs.
1	SWEN-4113	Software Project Management	SE Core	3
2	SWEN-4114	Software Re - Engineering	SE Core	3
3	SWEN-XXXX	SE Elective II	SE Elective	3
4	SWEN-XXXX	SE Elective III	SE Elective	3
5	MSCI-XXXX	Management elective-I	Management Sciences	3
6	SWEN-4391	Final year Project I	Computing Core	3
Credit Hours			18	

Semester 8

S. No.	Course Code	Course Title	Knowledge Area	Credit Hrs.
1	SWEN-2111	Human Computer Interaction	SE Core	3
2	SWEN-XXXX	SE Elective IV	SE Elective	3
3	SWEN-XXXX	SE Elective V	SE Elective	3
4	SWEN-4392	Final Year Project-II	Computing Core	3
5	MSCI-XXXX	Management elective-II	Management Sciences	3
6	HLTH-1113	Basic Health Awareness	University Elective	2
Credit Hours			17	

GRAND TOTAL

139

“Some people remain deprived of knowledge due to their poor ability to remain silent”

- Ibn Al-Qayyim (RA)

MS Computer Engineering

Semester 1

S. No.	Course Code	Course Title	Credit Hrs.
1	CPEN- XXXX	Core – I	3
2	CPEN- XXXX	Core – II	3
3	XXXX-XXXX	Elective – I	3
4	CPEN-XXXX	Elective – II	3
Total Credit Hours			12

Semester 2

S. No.	Course Code	Course Title	Credit Hrs.
1	CPEN- XXXX	Core – III	3
2	CPEN-XXXX	Elective – III	3
3	CPEN-XXXX	Elective – IV	3
4	CPEN-XXXX	Elective – V	3
Total Credit Hours			12

Semester 3 & 4

S. No.	Course Code	Course Title	Credit Hrs.
1	CPEN-6691	Thesis	12
Total Credit Hours			12

MS Software Engineering

Semester 1

S. No.	Course Code	Course Title	Credit Hrs.
1	SWEN- XXXX	Core – I	3
2	SWEN- XXXX	Core – II	3
3	XXXX-XXXX	Elective – I	3
4	SWEN-XXXX	Elective – II	3
Total Credit Hours			12

Semester 2

S. No.	Course Code	Course Title	Credit Hrs.
1	SWEN- XXXX	Core – III	3
2	SWEN-XXXX	Elective – III	3
3	SWEN-XXXX	Elective – IV	3
4	SWEN-XXXX	Elective – V	3
Total Credit Hours			12

Semester 3 & 4

S. No.	Course Code	Course Title	Credit Hrs.
1	SWEN-6691	Thesis	12
Total Credit Hours			12

BS Computer Engineering List of Courses

Major Based Depth Electives

S. No.	Course Code	Course Title
1	CPEN-6111	Advanced Computer Architecture
2	CPEN-3136	Control Engineering
3	CPEN-3137	Parallel and Distributed Computing
4	CPEN-3138	Wireless and Mobile Networks
5	CPEN-3139	Artificial Intelligence
6	CPEN-3140	Digital Image Processing
7	CPEN-3141	Data Warehousing and Mining
8	CPEN-3142	Embedded Systems
9	CPEN-3143	VLSI Design
10	CPEN-3144	Introduction to Data Science
11	CPEN-3145	Introduction Machine Learning
12	CPEN-5116	System on Chip Design
13	SWEN-3114	Software Quality Engineering
14	SWEN-4113	Software Project Management

Inter-Disciplinary Engineering

S. No.	Course Code	Course Title
1	CPEN-4101	Communication Systems
2	CPEN-4102	Fault Tolerant Computing
3	CPEN-4103	Neural Networks and Fuzzy Logic
4	CPEN-4104	Robotics
5	CPEN-4105	System Programming
6	CPEN-4106	Multimedia Systems
7	CPEN-4107	Speech Signal Processing
8	CPEN-4108	Power Electronics
9	CPEN-4109	Opto-Electronics
10	CPEN-4110	Computer Vision
11	CPEN-4111	Integrated Circuit Design
12	CPEN-4112	Electromagnetic Interference
13	CPEN-4113	Biomedical Engineering/Bioinformatics
14	SWEN-3132	Mobile Application Development
15	SWEN-4123	Computer Graphics
16	SWEN-4126	Game Application Development
17	SWEN-4131	Natural Language Processing
18	SWEN-4132	Real Time Systems

Management Electives

S. No.	Course Code	Course Title
1	MSCI-XXXX	Entrepreneurship
2	MSCI-XXXX	Business Management
3	MSCI-XXXX	Technology Startups
4	MSCI-XXXX	Quality Management
5	MSCI-XXXX	Engineering Management
6	MSCI-XXXX	Technology Management
7	MSCI-XXXX	Manufacturing Management
8	MSCI-XXXX	Software Management/Information System
9	MSCI-XXXX	Knowledge Management
10	MSCI-XXXX	Supply Chain Management
11	MSCI-XXXX	Project Management

BS Software Engineering List of Courses

Computing Core Courses

S. No.	Course Code	Course Title
1	CPEN-1122	Intensive Programming
2	CPEN-2123	Object Oriented Programming
3	CPEN-2121	Data Structures & Algorithms
4	CPEN-2110	Discrete Structures
5	CPEN-3131	Operating Systems
6	SWEN- 3111	Database Systems
7	SWEN-1111	Software Engineering
8	CPEN-3135	Data Communications & Computer Networks
9	SWEN-3112	Information Security
10	CPEN-2120	Digital Logic Design
11	SWEN-4391-4392	Final Year Project

Software Engineering CORE (Compulsory) courses

S. No.	Course Code	Course Title
1	SWEN-2111	Human Computer Interaction
2	SWEN-2113	Software Requirements Engineering
3	SWEN-2112	Software Design & Architecture
4	SWEN-3113	Software Construction & Development
5	SWEN-4113	Software Project Management
6	SWEN-3114	Software Quality Engineering
7	SWEN-4114	Software Re-Engineering
8	SWEN-3115	Web Engineering
9	SWEN-3132	Mobile Application Development

General Education Courses

S. No.	Course Code	Course Title
1	ENGL-1118	Functional English
2	ENGL-1119	Communication Skills
3	ENGL-2121	Technical Report Writing Skills
4	SSCI-3120	Professional Ethics
5	CPEN-1114	Introduction to Computing
6	PAKS-1113	Pakistan Studies
7	ISLS-1112	Islamic Studies/ Ethics

University Elective Courses

S. No.	Course Code	Course Title
1	MSCI-XXXX	Social Service
2	HLTH-1113	Basic Health Awareness
3	SSCI-3120	Constitution and Legal System of Pakistan
4	MSCI-XXXX	Entrepreneurship
5	MSCI-2111	Engineering Economics
6	MSCI-2111	Engineering Economics and Management

MS Computer Engineering List of Courses

Core Courses

S. No.	Course Code	Course Title
1	CPEN-6111	Advanced Computer Architecture
2	CPEN-6112	Advanced Digital Systems Design
3	CPEN-6113	Advanced Digital Signal Processing
4	CPEN-6110	Advanced Operating Systems
5	COSC-5101	Advanced Algorithms Analysis & Design
6	CPEN-6122	Information Theory and Coding
7	COSC-5108	Advanced Database Systems
8	SWEN-6100	Advanced Software Engineering

Specialization Electives

S. No.	Course Code	Course Title
1	CPEN-5118	Advanced Digital Image Processing
2	COSC-6109	Deep learning
3	CPEN-5122	Medical Image Processing and Analysis
4	CPEN-5123	Image and Video Coding
5	COSC-6121	Advanced Data Mining
6	CPEN-5113	Multimedia Systems
7	COSC-5112	Machine Learning

S. No.	Course Code	Course Title
8	CPEN-6114	Robotics Vision
9	CPEN-6115	Big Data Analytics
10	COSC-6120	Internet of Things
11	CPEN-6116	Advanced Embedded System Design
12	CPEN-5114	VLSI Principles and Applications
13	CPEN-5115	Advanced Microprocessor Design
14	CPEN-6117	Design of Analog CMOS Integrated Circuits
15	CPEN-6118	Digital IC Design
16	CPEN-6119	Fault Diagnosis and Testing
17	CPEN-6120	Design of Fault Tolerant Digital Systems
18	CPEN-6121	Low Power Chip Design Techniques
19	CPEN-5116	System on Chip Design
20	ELEN-6201	Antenna and Wave Propagation
21	ELEN-6202	Advanced Wireless Communications
22	ELEN-6203	Advanced Digital Communications Systems
23	ELEN-6210	Advanced Optical Communications
24	ELEN-6211	Microwave Devices and Circuits
25	COSC-6121	Advanced Computer Networks

S. No.	Course Code	Course Title
26	CPEN-6123	Advanced Engineering Electromagnetics
27	CPEN-5122	Radar Engineering
28	CPEN-5123	Wireless Sensor Networks
29	SWEN-5101	Advanced Requirement Engineering
30	SWEN-5102	Advanced Software System Architecture
31	SWEN-5103	Software Testing and Quality Assurance
32	SWEN-5110	Object Oriented Software Engineering
33	COSC-5103	Semantic Web
34	SWEN-6101	Reliability Engineering
35	SWEN-6102	Agile Software Development Methods
36	SWEN-6103	Advanced Human Computer Interaction

General Electives

S. No.	Course Code	Course Title
1	CPEN-6124	Mathematical Optimization
2	CPEN-5151	Stochastic Processes
3	CPEN-6125	Advanced Topics in Computer Engineering
4	MSCI-6102	Research Methodology (University Mandatory)

“Patience is a pillar of Faith”

- Hazrat Umar Ibn Al-Khattab (RA)

MS Software Engineering List of Courses

Core Courses

S. No.	Course Code	Course Title
1	SWEN-5101	Advanced Requirements Engineering
2	SWEN-5102	Advanced Software System Architecture
3	SWEN-5103	Software Testing and Quality Assurance
4	COSC-5101	Advanced Algorithms Analysis & Design
5	COSC-5108	Advanced Database Systems
6	SWEN-6100	Advanced Software Engineering
7	SWEN-6102	Agile Software Development Methods
8	SWEN-5111	Advanced Software Development
9	SWEN-5112	Model Driven Software Engineering
10	COSC-5103	Semantic Web
11	COSC-5105	Advanced Computer Networks
12	COSC-5106	Wireless Networks and Mobile Computing
13	COSC-5109	Distributed Database Systems
14	COSC-5111	Information Retrieval Techniques
15	COSC-5112	Machine Learning
16	COSC-5113	Multi-Agent Systems
17	COSC-5117	Knowledge-Based Systems
18	SWEN-6101	Reliability Engineering
19	SWEN-6103	Advanced Human Computer Interaction
20	SWEN-6104	Advanced Software Project Management
21	SWEN-6105	Formal Methods
22	SWEN-6106	Model Checking
23	SWEN-6107	Advanced Topics in Software Engineering
24	COSC-6108	Natural Language Processing
25	COSC-6110	Theory of Programming Languages

Elective Courses

S. No.	Course Code	Course Title
1	SWEN-5104	Software Risk Management
2	SWEN-5105	Software Measurement and Metrics
3	SWEN-5106	Software Configuration Management
4	SWEN-5107	Component Based Software Engineering
5	SWEN-5108	Empirical Software Engineering
6	SWEN-5109	Agent Oriented Software Engineering
7	SWEN-5110	Object Oriented Software Engineering
27	COSC-6120	Internet of Things
34	COSC-6123	NoSQL Databases
35	COSC-6124	Big Data Analytics
36	SWEN-6108	Initiating and Planning Projects
37	SWEN-6109	Project Risks and Change
38	SWEN-6110	Project Management in IT Security
39	COSC-5118	Advanced Digital Image Processing
40	COSC-6109	Deep learning
41	COSC-6121	Advanced Data Mining
42	CPEN-5113	Multimedia Systems
43	CPEN-6119	Fault Diagnosis and Testing

General Elective Courses

S. No.	Course Code	Course Title
1	CPEN-5124	Stochastic Processes
2	MSCI-6102	Research Methodology
3	CPEN-6124	Mathematical Optimization



BOS (Department of Computer Engineering)



Student Project Exhibition (Department of Computer Engineering)



Student Project Exhibition (Department of Computer Engineering)



BOS (Department of Computer Engineering)

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“Stick to the Truth even if the Truth kills you”

- Hazrat Umar Ibn Al-Khattab (RA)

Department of

Electrical Engineering

Introduction and Overview

Electrical Engineering Department aims to provide high quality education to cope with the technical challenges of the modern age. The graduates of the department will be able to effectively investigate, evaluate and provide solutions for the complex engineering problems. Department aims to impart extraordinary managerial skills with effective communication and great ethics to its graduates, while working as an individual or in a team to solve the problems of the society by providing sustainable and environment friendly solutions. Highly qualified and experienced faculty, trained staff and well equipped state of the art laboratories are there to make this dream come true.

Vision

To build identity of excellence in electrical engineering domain at intersection of academia and industry.

Mission

Committed to achieve excellence by equipping its graduates with high quality technically innovative skills, required to create positive impact in academia, industry, research and pursuance of higher studies.

Key Features

- Highly qualified faculty
- Well established dedicated state of the art laboratories
- High Voltage Laboratory (HVL)
- Dedicated building containing lecture theatres, laboratories, offices and other relevant infrastructure.
- Departmental Library



Programs being offered

BS Electrical Engineering

MS Electrical Engineering

PhD Electrical Engineering *

BS Electronics

MS Electronics *

BS Electrical Technology *

* Subject to approval / NOC from HEC / Competent Authority / Accreditation Body



Scheme of Study

BS Electrical Engineering

Semester 1

S. No.	Course Code	Course Title	Credit Hours
1	ELEN-1100	Linear Circuit Analysis	3
2	ELEN-1200	Linear Circuit Analysis LAB	1
3	ENGL-1118	Functional English	3
4	MATH-1100	Calculus	3
5	PHYS-1123	Engineering Physics	2
6	PHYS-1223	Engineering Physics Lab	1
7	CPEN-1114	Introduction to Computing	2
8	CPEN-1214	Introduction to Computing Lab	1
9	ELEN-1201	Workshop Practice	1
Total			17

Semester 2

S. No.	Course Code	Course Title	Credit Hours
1	PAKS-1113	Pakistan Studies	2
2	ELEN-2102	Electrical Network Analysis	3
3	ELEN-2202	Electrical Network Analysis LAB	1
4	MATH-2103	Linear Algebra	3
5	ENGL-1119	Communication Skills	3
6	MEEN-1110	Basic Mechanical Engineering	2
7	CPEN-XXXX	Intensive Computer Programming	3
8	CPEN-XXXX	Intensive Computer Programming Lab	1
Total			18

Semester 3

S. No.	Course Code	Course Title	Credit Hours
1	MATH-2122	Differential Equations	3
2	ELEN-2100	Digital Logic Design	3
3	ELEN-2200	Digital Logic Design Lab	1
4	ELEN-1121	Electronic Devices & Circuits	3
5	ELEN-1221	Electronic Devices & Circuits LAB	1
6	MEEN-1109	Applied Thermodynamics	3
7	MEEN-1209	Applied Thermodynamics Lab	1
8	ISLS-1112	Islamic Studies/Ethics	2
9	ELEN-2201	Computer Aided Engineering Drawing	1
Total			18

Semester 4

S. No.	Course Code	Course Title	Credit Hours
1	ELEN-3120	Electronic Circuit Design	3
2	ELEN-3220	Electronic Circuit Design LAB	1
3	MATH-2123	Complex Variables and Transforms	3
4	ELEN-3130	Signals and Systems	3
5	ELEN-3230	Signals and Systems Lab	1
6	ENGL-4135	Professional Ethics (SS-I)	2
7	STAT-3133	Probability Methods in Engineering	3
8	HLTH-1113	Basic Health Awareness (UE-I)	2
Total			18

Semester 5

S. No.	Course Code	Course Title	Credit Hours
1	MSCI-2111	Engineering Economics and Management	3
2	ELEN-2110	Electrical Machines	3
3	ELEN-2210	Electrical Machines LAB	1
4	ELEN-3151	Embedded Systems	3
5	ELEN-3252	Embedded Systems LAB	1
6	ELEN-3131	Electromagnetic Theory	3
7	MATH-2124	Numerical Analysis	3
Total			17

Semester 6

S. No.	Course Code	Course Title	Credit Hours
1	ENGL-2121	Technical Report Writing Skills	2
2	ELEN-3140	Linear Control Systems	3
3	ELEN-3240	Linear Control Systems LAB	1
4	ELEN-4121	Power Electronics	3
5	ELEN-4221	Power Electronics LAB	1
6	ELEN-3121	Instrumentation and Measurements	3
7	ELEN-3221	Instrumentation and Measurements LAB	1
8	ELEN-3132	Communication Systems	3
9	ELEN-3232	Communication Systems Lab	1
Total			18

Semester 7

S. No.	Course Code	Course Title	Credit Hours
1	ELEN-XXXX	Elective-I	3
2	ELEN-XXXX	Elective-II	3
3	ELEN-XXXX	Elective-III	3
4	ELEN-XXXX	Elective-I LAB	1
5	ELEN-XXXX	Elective-II LAB	1
6	SSCI-3120	Constitution and Legal System of Pakistan (UE-II)	2
7	ELEN-4390	Final Year Project (Phase -I)	2
Total			15

Semester 8

S. No.	Course Code	Course Title	Credit Hours
1	ELEN-4391	Final Year Project (Phase -II)	4
2	ELEN-XXXX	Elective -IV	3
3	ELEN-XXXX	Elective -IV LAB	1
4	ELEN-XXXX	Elective -V	3
5	MSCI-3111	Entrepreneurship	3
Total			14

List of Elective Courses

Power Engineering Specialization

S. No.	Course Title
1	Power Transmission and Distribution
2	Power System Analysis
3	Power Generation
4	Power System Protection
5	Power System operation & Control
6	High Voltage Engineering
7	Digital Signal Processing
8	PLC and Industrial Drives

Communication Engineering Specialization

S. No.	Course Title
1	Computer Communication Networks
2	Digital Communications
3	Digital Signal Processing
4	Wireless and Mobile Communications
5	Wave Propagation and Antennas
6	Satellite Communication
7	RF and Microwave Engineering
8	Digital Image Processing
9	Data Structure and Algorithms

Electronics Engineering Specialization

S. No.	Course Title
1	Industrial Electronics
2	VLSI Design
3	Opto-Electronics
4	PLC and Industrial Drives
5	Digital Control System
6	Integrated Electronics
7	Digital Signal Processing
8	RF and Microwave Engineering

“Leadership is the key to 99 percent of all successful efforts”

-Erskine Bowles

MS Electrical Engineering

Semester 1

S. No.	Course Code	Course Title	Credit Hrs.
1	ELEN-51XX	Core-I	3
2	ELEN-51XX	Core-II	3
3	ELEN-61XX	Elective-I	3
4	ELEN-61XX	Elective-II	3
Total Credit Hours			12

Semester 2

S. No.	Course Code	Course Title	Credit Hrs.
1	ELEN- 51XX	Core-III	3
2	ELEN-61XX	Elective-III	3
3	ELEN-61XX	Elective-IV	3
4	ELEN-61XX	Elective-V	3
Total Credit Hours			12

Semester 3 & 4

S. No.	Course Code	Course Title	Credit Hrs.
1	ELEN-6601	Thesis	12
Total Credit Hours			12
Program Total Credit Hours			36

Core Courses

S. No.	Course Code	Course Title	Credit Hours
1	ELEN-5101	Optimization Theory	3
2	ELEN-5102	Stochastic Processes	3
3	ELEN-5103	Linear Systems Theory	3
4	ELEN-5104	Research Methodology	3
5	ELEN-5105	Advanced Digital Signal Processing	3

Power Engineering Courses

S. No.	Course Code	Course Title	Credit Hours
1	ELEN-6101	Renewable Energy Systems	3
2	ELEN-6102	Advanced Power Transmission and Distribution	3
3	ELEN-6103	Electric Power Generation and Plant Operation	3
4	ELEN-6104	High Voltage Engineering Design	3
5	ELEN-6105	Advanced Electrical Machines Design	3

S. No.	Course Code	Course Title	Credit Hours
6	ELEN-6106	Energy Management	3
7	ELEN-6107	Generalized Machine Theory	3
8	ELEN-6108	Smart Grid System Operation	3
9	ELEN-6109	Hydro Power Plant Design	3
10	ELEN-6110	Integration of Distributed Generation	3

S. No.	Course Code	Course Title	Credit Hours
11	ELEN-6111	Power System Reliability	3
12	ELEN-6112	Solar Power Generation System	3
13	ELEN-6113	Wind Power Generation System	3
14	ELEN-6114	Advanced Power System Protection	3
15	ELEN-6115	Advanced Power System Planning	3

S. No.	Course Code	Course Title	Credit Hours
16	ELEN-6116	Advanced Power System Analysis	3
17	ELEN-6117	Insulation Coordination for Power Systems	3
18	ELEN-6118	Advanced Research in Electric Power System	3
19	ELEN-6119	Power System Dynamics and Stability	3
20	ELEN-6212	Advanced Power Electronics	3
21	ELEN-6218	Nonlinear Control System	3

“The wealth of a miser is as useless as a pebble”

- Hazrat Ali Ibn Abi Talib (RA)

Electronics/ Communication Courses

S. No.	Course Code	Course Title	Credit Hours
1	ELEN-6201	Antennas and Wave Propagation	3
2	ELEN-6202	Advanced Wireless Communication	3
3	ELEN-6203	Advanced Digital Communication Systems	3
4	ELEN-6204	Advanced Satellite Communication	3
5	ELEN-6205	Signal Detection and Estimation	3
6	ELEN-6206	Adaptive Filters	3
7	ELEN-6207	Wireless & Mobile Communications	3
8	ELEN-6208	Advanced Wireless Networks	3
9	ELEN-6209	Advanced Networking	3
10	ELEN-6210	Advanced Optical Communication	3
11	ELEN-6211	Microwave Devices and Circuits	3
12	ELEN-6212	Advanced Power Electronics	3
13	ELEN-6213	Theory of Semiconductor Devices	3
14	ELEN-6214	Solid State Lighting	3

S. No.	Course Code	Course Title	Credit Hours
15	ELEN-6215	Nanotechnology: Theory and Applications	3
16	ELEN-6216	Advanced Integrated Electronics	3
17	ELEN-6217	Advanced Opto-Electronics	3
18	ELEN-6218	Control System Design	3
19	ELEN-6219	Nonlinear Control System	3
20	CPEN-5118	Advanced Digital Image Processing	3
21	COSC-5112	Machine Learning	3
22	COSC-6120	Internet of Things	3
23	CPEN-6116	Advanced Embedded System Design	3
24	CPEN-5115	Advanced Microprocessor Design	3
25	CPEN-6117	Design of Analog CMOS Integrated Circuits	3
26	COSC-6121	Advanced Computer Networks	3
27	CPEN-6123	Advanced Engineering Electromagnetics	3
28	CPEN-5123	Wireless Sensor Networks	3

BS Electronics

Semester 1

S. No.	Course Code	Course Title	Credit Hours
1	ELEC-1100	Linear Circuit Analysis	3
2	ELEC-1200	Linear Circuit Analysis LAB	1
3	ENGL-1118	Functional English	3
4	MATH-1100	Calculus	3
5	PHYS-1123	Engineering Physics	2
6	PHYS-1223	Engineering Physics Lab	1
7	CPEN-1114	Introduction to computing	2
8	CPEN-1214	Introduction to Computing Lab	1
9	ELEC-1201	Workshop Practice	1
Total			17

Semester 2

S. No.	Course Code	Course Title	Credit Hours
1	PAKS-1113	Pakistan Studies	2
2	ELEN-2102	Electrical Network Analysis	3
3	ELEN-2202	Electrical Network Analysis LAB	1
4	MATH-2103	Linear Algebra	3
5	ENGL-1119	Communication Skills	3
6	MEEN-1110	Basic Health Awareness (UE-I)	2
7	CPEN-XXXX	Intensive Computer Programming	3
8	CPEN-XXXX	Intensive Computer Programming Lab	1
Total			18

Semester 3

S. No.	Course Code	Course Title	Credit Hours
1	MATH-2122	Differential Equations	3
2	ELEC-2100	Digital Logic Design	3
3	ELEC-2200	Digital Logic Design Lab	1
4	ELEC-1121	Electronic Devices & Circuits	3
5	ELEC-1221	Electronic Devices & Circuits LAB	1
6	MSCI-2111	Engineering Economics and Management	3
7	ISLS-1112	Islamic Studies/Ethics	2
8	ELEC-2201	Computer Aided Engineering Drawing	1
Total			17

Semester 4

S. No.	Course Code	Course Title	Credit Hours
1	ELEC-3120	Electronic Circuit Design	3
2	ELEC-3220	Electronic Circuit Design LAB	1
3	MATH-2123	Complex Variables and Transforms	3
4	ELEC-3130	Signals and Systems	3
5	ELEC-3230	Signals and Systems Lab	1
6	ENGL-4135	Professional Ethics	2
7	STAT-3133	Probability Methods in Engineering	3
8	ELEC-2110	Solid State Electronics	2
Total			18

Semester 5

S. No.	Course Code	Course Title	Credit Hours
1	ELEC-3109	Digital Integrated Circuits	3
2	ELEC-2110	Electrical Machines	3
3	ELEC-2210	Electrical Machines LAB	1
4	ELEC-3151	Embedded Systems	3
5	ELEC-3252	Embedded Systems LAB	1
6	ELEC-3131	Electromagnetic Theory	3
7	MATH-2124	Numerical Analysis	3
Total			17

Semester 6

S. No.	Course Code	Course Title	Credit Hours
1	ENGL-2121	Technical Report Writing Skill	2
2	ELEC-3140	Linear Control Systems	3
3	ELEC-3240	Linear Control Systems LAB	1
4	ELEC-4121	Power Electronics	3
5	ELEC-4221	Power Electronics LAB	1
6	ELEC-3121	Instrumentation and Measurements	3
7	ELEC-3221	Instrumentation and Measurements LAB	1
8	ELEC-3132	Communication Systems	3
9	ELEC-3232	Communication Systems Lab	1
Total			18

Semester 7

S. No.	Course Code	Course Title	Credit Hours
1	ELEC-XXXX	Elective-I	3
2	ELEC-XXXX	Elective-II	3
3	ELEC-XXXX	Elective-III	3
4	ELEC-XXXX	Elective-I LAB	1
5	ELEC-XXXX	Elective-II LAB	1
6	SSCI-3120	Constitution and Legal System of Pakistan (UE-II)	2
7	ELEC-4390	Final Year Project (Phase -I)	2
Total			15

Semester 8

S. No.	Course Code	Course Title	Credit Hours
1	ELEC-4391	Final Year Project (Phase -II)	4
2	ELEC-XXXX	Elective -IV	3
3	ELEC-XXXX	Elective -IV LAB	1
4	ELEC-XXXX	Elective -V	3
5	MSCI-3216	Entrepreneurship	3
Total			14

List of Elective Courses

S. No.	Course Title
1	Industrial Electronics
2	Introduction to Robotics
3	Industrial Automation
4	Opto-Electronics
5	Laser and Fibre Optics
6	Nanotechnology
7	Linear Integrated Circuits
8	Artificial Intelligence

S. No.	Course Title
9	Pattern Recognition
10	Digital Image Processing
11	Information & Coding Theory
12	Digital Image Processing
13	Wireless and Mobile Communications
14	Integrated Electronics
15	Opto-Electronics
16	VLSI Design
17	Industrial Electronics
18	Digital Signal Processing

MS Electronics**Semester 1**

S. No.	Course Code	Course Title	Credit Hrs.
1	ELEC-51XX	Core-I	3
2	ELEC-51XX	Core-II	3
3	ELEC-61XX	Elective-I	3
4	ELEC-61XX	Elective-II	3
Total Credit Hours			12

Semester 2

S. No.	Course Code	Course Title	Credit Hrs.
1	ELEC- 51XX	Core-III	3
2	ELEC-61XX	Elective-III	3
3	ELEC-61XX	Elective-IV	3
4	ELEC-61XX	Elective-V	3
Total Credit Hours			12

Semester 3 & 4

S. No.	Course Code	Course Title	Credit Hrs.
1	ELEC-6601	Thesis	12
Total Credit Hours			12
Program Total Credit Hours			36

Core Courses

S. No.	Course Code	Course Title	Credit Hours
1	ELEN-5101	Optimization Theory	3
2	ELEN-5102	Stochastic Processes	3
3	ELEN-5103	Linear Systems Theory	3
4	ELEN-5104	Research Methodology	3
5	ELEN-5105	Advanced Digital Signal Processing	3

List of Elective Courses

S. No.	Course Code	Course Title	Credit Hours	S. No.	Course Code	Course Title	Credit Hours
1	ELEC-6101	Renewable Energy Systems	3	15	ELEC-6219	Nonlinear Control System	3
2	ELEC-6201	Antennas and Wave Propagation	3	16	CPEN-5118	Advanced Digital Image Processing	3
3	ELEC-6205	Signal Detection and Estimation	3	17	COSC-5112	Machine Learning	3
4	ELEC-6206	Adaptive Filters	3	18	COSC-6120	Internet of Things	3
5	ELEC-6209	Advanced Networking	3	19	CPEN-6116	Advanced Embedded System Design	3
6	ELEC-6210	Advanced Optical Communication	3	20	CPEN-5115	Advanced Microprocessor Design	3
7	ELEC-6211	Microwave Devices and Circuits	3	21	CPEN-6117	Design of Analog CMOS Integrated Circuits	3
8	ELEC-6212	Advanced Power Electronics	3	22	COSC-6121	Advanced Computer Networks	3
9	ELEC-6213	Theory of Semiconductor Devices	3	23	CPEN-6123	Advanced Engineering Electromagnetics	3
10	ELEC-6214	Solid State Lighting	3				
11	ELEC-6215	Nanotechnology: Theory and Applications	3				
12	ELEC-6216	Advanced Integrated Electronics	3				
13	ELEC-6217	Advanced Opto-Electronics	3				
14	ELEC-6218	Control System Design	3				

PhD Electrical Engineering

Semester 1

S. No.	Course Title	Credit Hrs.
1	Elective 1	3
2	Elective 2	3
3	Elective 3	3

Semester 2

S. No.	Course Title	Credit Hrs.
1	Elective 4	3
2	Elective 5	3
3	Elective 6	3

Semester 3 & onward

S. No.	Course Title	Credit Hrs.
1	Thesis	12
Total Credit Hours		30

List of Elective Courses

S. No.	Course Code	Course Title	Credit Hours	S. No.	Course Code	Course Title	Credit Hours
1	ELEN-6101	Renewable Energy Systems	3	15	ELEN-6114	Advanced Power System Protection	3
2	ELEN-6102	Advanced Power Transmission and Distribution	3	16	ELEN-6115	Advanced Power System Planning	3
3	COSC-6102	Model Checking	3	17	ELEN-6116	Advanced Power System Analysis	3
4	ELEN-6103	Electric Power Generation and Plant Operation	3	18	ELEN-6117	Insulation Coordination for Power Systems	3
5	ELEN-6104	High Voltage Engineering Design	3	19	ELEN-6118	Advanced Research in Electric Power System	3
6	ELEN-6105	Advanced Electrical Machines Design	3	20	ELEN-6119	Power System Dynamics and Stability	3
7	ELEN-6106	Energy Management	3	21	ELEN-6212	Advanced Power Electronics	3
8	ELEN-6107	Generalized Machine Theory	3	22	ELEN-6218	Nonlinear Control System	3
9	ELEN-6108	Smart Grid System Operation	3	23	ELEN-6201	Antennas & Wave Propagation	3
10	ELEN-6109	Hydro Power Plant Design	3	24	ELEN-6202	Advanced Wireless Communication	3
11	ELEN-6110	Integration of Distributed Generation	3	25	ELEN-6203	Advanced Digital Communication Systems	3
12	ELEN-6111	Power System Reliability	3	26	ELEN-6204	Advanced Satellite Communication	3
13	ELEN-6112	Solar Power Generation System	3	27	ELEN-6205	Signal Detection and Estimation	3
14	ELEN-6113	Wind Power Generation System	3	28	ELEN-6206	Adaptive Filters	3

S. No.	Course Code	Course Title	Credit Hours	S. No.	Course Code	Course Title	Credit Hours
1	ELEN-6207	Wireless & Mobile Communication	3	15	CPEN-6116	Advanced Embedded System Design	3
2	ELEN-6208	Advanced Wireless Networks	3	16	CPEN-6117	Design of Analog CMOS Integrated Circuits	3
3	ELEN-6209	Advanced Networking	3	17	COSC-6121	Advanced Computer Networks	3
4	ELEN-6210	Advanced Optical Communication	3	18	CPEN-6123	Advanced Engineering Electromagnetics	3
5	ELEN-6211	Microwave Devices and Circuits	3	19	ELEN-7101	Process Instrumentation	3
6	ELEN-6212	Advanced Power Electronics	3	20	ELEN-7102	Queueing Theory	3
7	ELEN-6213	Theory of Semiconductor Devices	3	21	ELEN-7103	Information Theory	3
8	ELEN-6214	Solid State Lighting	3	22	ELEN-7104	Special Topics on Control Systems	3
9	ELEN-6215	Nanotechnology: Theory and Applications	3	23	ELEN-7105	Special Topics on Electric Machines	3
10	ELEN-6216	Advanced Integrated Electronics	3	24	ELEN-7106	Special Topics on Communication Systems	3
11	ELEN-6217	Advanced Opto-Electronics	3	25	ELEN-7107	Special Topics on Photonics	3
12	ELEN-6218	Control System Design	3	26	COSC-7105	Mathematical Modelling	3
13	ELEN-6219	Nonlinear Control System	3	27	COSC-7106	Pattern Recognition	3
14	COSC-6120	Internet of Things	3	28	COSC-7110	Network Simulation and Modelling	3

BS Electrical Technology

Semester 1

S. No.	Course Code	Course Title	Credit Hours	Tech.	Related
1	ELET-1100	Linear Circuit Analysis	3	3	0
2	ELET-1200	Linear Circuit Analysis Lab	1	1	0
3	PHYS-1123	Engineering Physics	2	0	2
4	PHYS-1223	Engineering Physics Lab	1	0	1
5	CPEN-1114	Introduction to Computing	2	0	2
6	CPEN-1214	Introduction to Computing Lab	1	0	1
7	MATH-XXXX	Applied Mathematics-I	3	0	3
8	ELET-1120	Electronics	3	3	0
9	ELET-1220	Electronics Lab	1	1	0
Total			17	8	9

Semester 2

S. No.	Course Code	Course Title	Credit Hours	Tech.	Related
1	PAKS-1113	Pakistan Studies	2	0	2
2	ELET-1101	Electrical Network Analysis	3	3	0
3	ELET-1201	Electrical Network Analysis Lab	1	1	0
4	MATH-XXXX	Applied Mathematics-II	3	0	3
5	ENGL-1119	Communication Skills	3	0	3
6	MEET-1110	Basic Mechanical Technology	2	2	0
7	MEET-1210	Basic Mechanical Technology Lab	1	1	0
8	HLTH-1113	Basic Health Awareness	2	0	2
9	ENGL-2121	Technical Report Writing Skills	2	0	2
Total			19	7	12

Semester 3

S. No.	Course Code	Course Title	Credit Hours	Tech.	Related
1	ELET-2111	Power Generation Systems	3	3	0
2	ELET-2110	Electrical Machines-I	3	3	0
3	ELET-2210	Electrical Machines-I Lab	1	1	0
4	ISLS-1112	Islamic Studies/Ethics	2	0	2
5	ELET-2112	Power Transmission and Distribution	3	3	0
6	ELET-2212	Power Transmission and Distribution Lab	1	1	0
7	SSCI-3120	Constitution and Legal System of Pakistan	2	0	2
Total			15	11	4

Semester 4

S. No.	Course Code	Course Title	Credit Hours	Tech.	Related
1	ELET-2113	Electrical Machines-II	3	3	0
2	ELET-2213	Electrical Machines-II Lab	1	1	0
3	ELET-2200	Engineering Drawing	1	1	0
4	ELET-2120	Instrumentation and Measurements	3	3	0
5	ELET-2220	Instrumentation and Measurements Lab	1	1	0
6	ELET-2130	Communication Technology	3	3	0
7	ELET-2230	Communication Technology Lab	1	1	0
8	ELET-2140	Control Technology	3	3	0
9	ELET-2240	Control Technology Lab	1	1	0
Total			17	17	0

Semester 5

S. No.	Course Code	Course Title	Credit Hours	Tech.	Related
1	ELET-3110	High Voltage Technology	3	3	0
2	ELET-3210	High Voltage Technology Lab	1	1	0
3	ELET-3150	Embedded Systems	3	3	0
4	ELET-3250	Embedded Systems Lab	1	1	0
5	ELET-3130	Electromagnetic Theory	3	3	0
6	ELET-3111	Power System Analysis	3	3	0
7	MSCI-2111	Engineering Economics and Management	3	0	3
Total			17	14	3

Semester 6

S. No.	Course Code	Course Title	Credit Hours	Tech.	Related
1	ELET-3120	Power Electronics	3	3	0
2	ELET-3220	Power Electronics Lab	1	1	0
3	ELET-3112	Switch Gear and Protective Devices	3	3	0
4	ELET-3212	Switch Gear and Protective Devices Lab	1	1	0
5	ELET-3113	Industrial Drives and PLC	3	3	0
6	ELET-3213	Industrial Drives and PLC Lab	1	1	0
7	MSCI-3111	Entrepreneurship	3	0	3
8	ELET-3390	Project	3	3	0
Total			18	15	3

Semester 6

S. No.	Course Code	Course Title	Credit Hours	Tech.	Related
1	ELET-3391	Project	3	3	0
Total			3	3	0

Semester 7

S. No.	Course Code	Course Title	Credit Hours	Tech.	Related
1	ELET-4390	Industrial Training	16	16	0
Total			16	16	0

Semester 8

S. No.	Course Code	Course Title	Credit Hours	Tech.	Related
1	ELET-4391	Industrial Training	16	16	0
Total				107 77%	31 23%



Inauguration Ceremony of High Voltage Lab (Department of Electrical Engineering)

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Department of

Mechanical Engineering

Introduction and Overview

The Department of Mechanical Engineering was established in 2014 and is one of the pioneer departments in Khwaja Fareed University of Engineering and Information Technology. The Department implements a series of continuous quality improvement measures and continuously strives to produce successful engineers who are able to excel on global stage.

Vision

To be recognized as world class Mechanical Engineering Department for excellence in education, research and innovation.

Mission

To serve the national and the international community by providing quality education, research and innovations in the field of Mechanical Engineering by producing competent professionals and to establish an effective partnership among the university, industry, and government based organizations which will eventually enhance the economic development of the state of Pakistan.

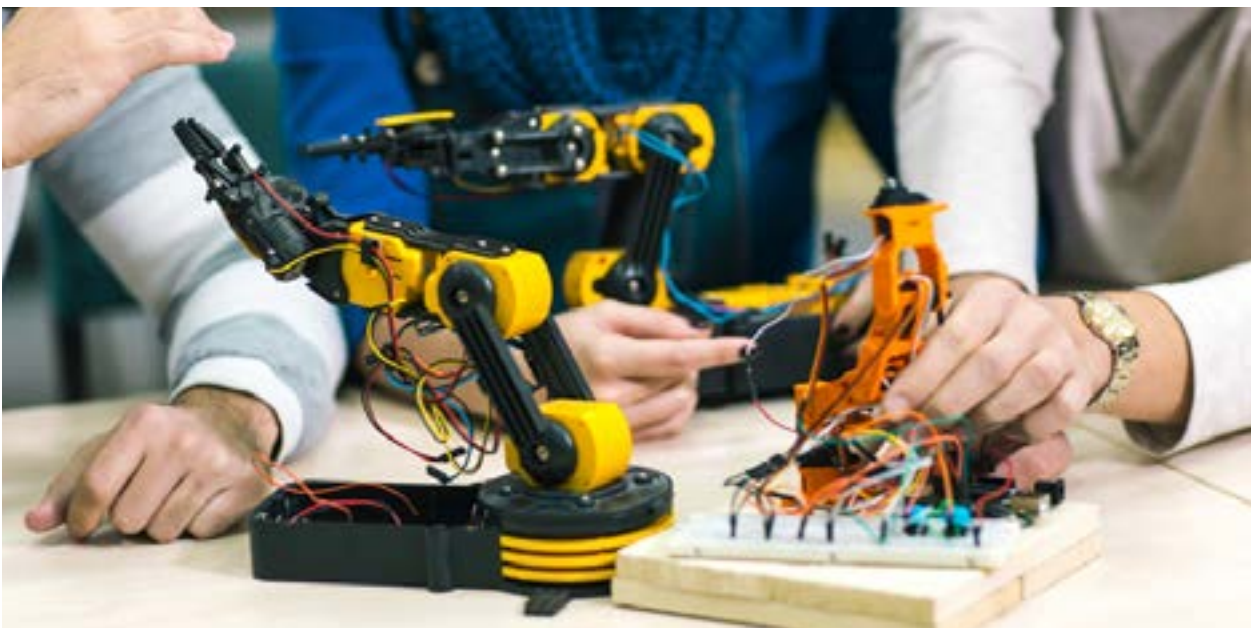
Key Features / Facilities

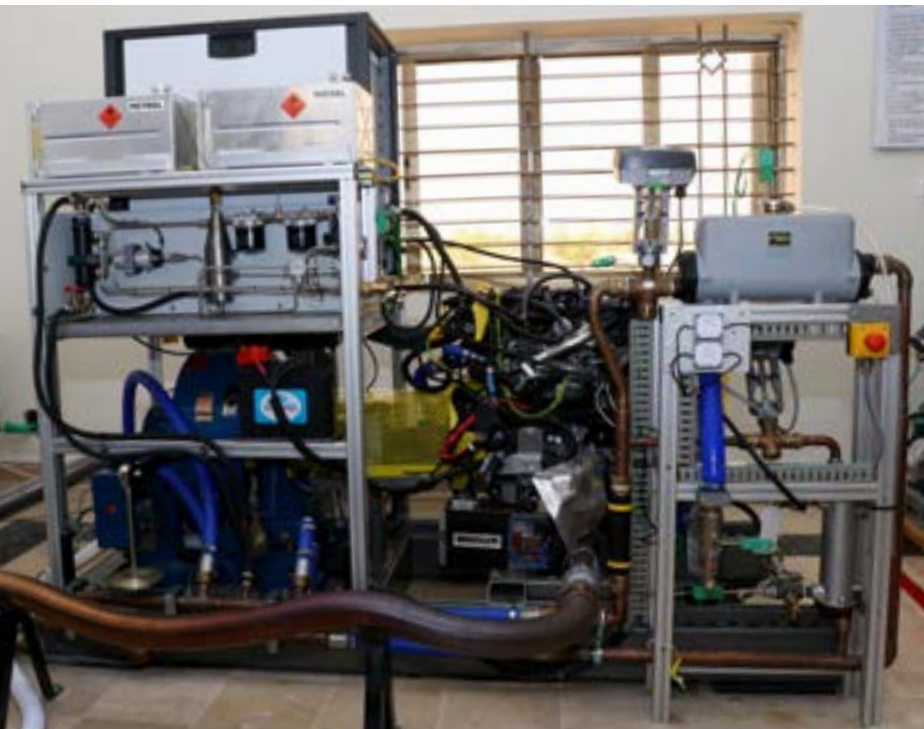
- PEC and HEC Approved Programs & Level II OBE accreditation from PEC
- High Tech Laboratories
- Highly Qualified Teaching Staff

Laboratories

The Department of Mechanical Engineering has following fully equipped laboratories:

- Thermodynamics Lab
- Fluid Mechanics Lab
- Simulation & CAD Lab
- Engineering Mechanics Lab
- Mechanics of Machines Lab
- Mechanics of Materials Lab
- Heat and Mass Transfer Lab
- Internal Combustion Engines Lab
- Refrigeration and Air Conditioning Lab
- Mechanical Vibration Lab
- Renewable Energy & Power Plant Lab
- Manufacturing Process Lab
- Engineering Drawing and Graphics Lab
- Workshop





Program Educational Objectives (PEO's) for BS Mechanical

PEO-1

The graduates will apply knowledge and skills to provide sustainable solutions to challenging mechanical engineering problems in industry and academia.

PEO-2

The graduates will make a positive contribution towards society by strong ethical values, communication skills, and leadership.

PEO-3

The graduates will demonstrate professional growth and exhibit continual improvement in learning modern engineering techniques and their applications in practice.

Program Learning Outcomes (PLO's) for BS Mechanical Engineering

1. Engineering Knowledge
2. Problem Analysis
3. Development of Solutions
4. Investigation
5. Modern Tool Usage
6. The Engineer and Society
7. Environment and Sustainability
8. Ethics
9. Individual and Team Work
10. Communication
11. Project Management
12. Lifelong Learning

Programs being offered

BS Mechanical Engineering

BS Material Sciences*

MS Mechanical Engineering

PhD Mechanical Engineering*

* Subject to approval / NOC from HEC / Competent Authority / Accreditation Body



Foreign Delegation Visiting Mechanical Engineering Lab

Scheme of Study

BS Mechanical Engineering

Semester 1

S. No.	Course Code	Course Title	Credit Hrs.	
			Theory	Lab
1	SSCI-XXXX	University / Social Elective	2	0
2	PHYS-1123	Engineering Physics	2	0
3	PHYS-1223	Engineering Physics Lab	0	1
4	CHEM-1191	Engineering Chemistry	2	0
5	MEEN-1101	Engineering Drawing & Graphics	2	0
6	MEEN-1201	Engineering Drawing & Graphics Lab	0	1
7	MATH-1100	Calculus	3	0
8	ISLS-1112	Islamic Studies	2	0
9	MEEN-1102	Engineering Statics	3	0
Credit Hours			16	02
Program Total Credit Hours			18	

Semester 2

S. No.	Course Code	Course Title	Credit Hrs.	
			Theory	Lab
1	MEEN-1111	Engineering Materials	3	0
2	ENGL-1119	Communication Skills	3	0
3	MEEN-1105	Engineering Dynamics	3	0
4	MEEN-1214	Engineering Mechanics Lab	0	1
5	MEEN-1106	Thermodynamics-I	3	0
6	MEEN-1208	Workshop Practice	0	2
7	MATH-2103	Linear Algebra	3	0
Credit Hours			15	03
Program Total Credit Hours			18	

Semester 3

S. No.	Course Code	Course Title	Credit Hrs.	
			Theory	Lab
1	MATH-2122	Differential Equation	3	0
2	CPEN-1110	Introduction to Computing	2	0
3	CPEN-1210	Introduction to Computing Lab	0	1
4	MEEN-2117	Fluid Mechanics-I	3	0
5	MEEN-2217	Fluid Mechanics-I Lab	0	1
6	MEEN-2118	Thermodynamics-II	3	0
7	MEEN-2218	Thermodynamics-II Lab	0	1
8	MEEN-2119	Mechanics of Materials-I	3	0
Credit Hours			14	03
Program Total Credit Hours			17	

Semester 4

S. No.	Course Code	Course Title	Credit Hrs.	
			Theory	Lab
1	PAKS-1113	Pakistan Studies	2	0
2	ELEN-2109	Electrical Engineering & Electronics	3	0
3	ELEN-2209	Electrical Engineering & Electronics Lab	0	1
4	STAT-2104	Probability & Statistics	3	0
5	MEEN-2128	Fluid Mechanics-II	3	0
6	MEEN-2228	Fluid Mechanics-II Lab	0	1
7	MEEN-2120	Mechanics of Materials-II	3	0
8	MEEN-2220	Mechanics of Materials-II Lab	0	1
Credit Hours			14	03
Program Total Credit Hours			17	

Semester 5

S. No.	Course Code	Course Title	Credit Hrs.	
			Theory	Lab
1	MATH-3116	Numerical Analysis	3	0
2	MATH-3216	Numerical Analysis Lab	0	1
3	MEEN-3137	Precision Engineering & Metrology	2	0
4	MEEN-3237	Precision Engineering & Metrology Lab	0	1
5	MEEN-3138	Machine Design & CAD-I	3	0
6	MEEN-3238	Machine Design & CAD-I Lab	0	1
7	MSCI-XXXX	Management Elective-I	3	0
8	MEEN-3130	Manufacturing Process	3	0
9	MEEN-3230	Manufacturing Process Lab	0	1
Credit Hours			14	04
Program Total Credit Hours			18	

Semester 6

S. No.	Course Code	Course Title	Credit Hrs.	
			Theory	Lab
1	MEEN-3136	Heat & Mass Transfer	3	0
2	MEEN-3236	Heat & Mass Transfer Lab	0	1
3	MEEN-3127	Theory of Machines	3	0
4	MEEN-3227	Theory of Machines Lab	0	1
5	MEEN-3138	Machine Design & CAD-II	3	0
6	MEEN-3238	Machine Design & CAD-II Lab	0	1
7	HLTH-XXXX	University/Social Elective	2	0
8	ENGL-2121	Technical Report Writing	2	0
Credit Hours			13	03
Program Total Credit Hours			16	

Semester 7

S. No.	Course Code	Course Title	Credit Hrs.	
			Theory	Lab
1	MEEN-4147	Internal Combustion Engines	2	0
2	MEEN-4247	Internal Combustion Engines Lab	0	1
3	MEEN-4148	Refrigeration & Air Conditioning	3	0
4	MEEN-4248	Refrigeration & Air Conditioning Lab	0	1
5	MEEN-4149	Mechanical Vibrations	3	0
6	MEEN-4249	Mechanical Vibrations Lab	0	1
7	MEEN-4xyz	Technical Elective-I	3	-
8	MEEN-4398	Project (Phase-I)	0	3
Credit Hours			8	6
Program Total Credit Hours			17	

Semester 8

S. No.	Course Code	Course Title	Credit Hrs.	
			Theory	Lab
1	MSCI-4xyz	Management Elective-II	3	0
2	MEEN-4163	Control Engineering	2	0
3	MEEN-4263	Control Engineering Lab	0	1
4	MEEN-4xyz	Technical Elective-II	3	-
5	MEEN-4xyz	Technical Elective-III	3	-
6	MEEN-4399	Project (Phase-II)	0	3
Credit Hours			11	04
Program Total Credit Hours			15	

GRAND TOTAL

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List of Elective Courses

Technical Electives

S. No.	Course Code	Course Title	Credit Hours
1	MEEN-4xyz	Power Plants	3
2	MEEN-4xyz	Renewable Energy Sources	3
3	MEEN-4xyz	Finite Element Methods	3
4	MEEN-4xyz	Computational Fluid Dynamics	3
5	MEEN-4xyz	Mechatronics	3
6	MEEN-4xyz	Tribology	3
7	MEEN-4xyz	Maintenance Engineering	3
8	MEEN-4xyz	Fluid Power: Hydraulics & Pneumatics	3
9	MEEN-4xyz	Gas Dynamics	3
10	MEEN-4xyz	Aerodynamics	3

Social Sciences / University Electives

S. No.	Course Code	Course Title	Credit Hours
1	SSCI-3117	Professional Psychology	3
2	SSCI-4103	Professional Ethics	3
3	HLTH-1113	Basic Health Awareness	3
4	SSCI-3120	Constitution & Legal System of Pakistan	3

Management Electives

S. No.	Course Code	Course Title	Credit Hours
1	MSCI-2112	Engineering Economics	3
2	MSCI-3110	Organizational Behaviour	3
3	MEEN-4170	Industrial Management	3
4	MSCI-1102	Principle of Management	3
5	MSCI-2116	Principle of Accounting	3
6	MSCI-4155	Total Quality Management	3
7	MEEN-4174	Operations Management	3
8	MSCI-3111	Entrepreneurship	3

“Habits are qualities of the soul”

- Ibn Khaldun

BS Materials Science

Semester 1

S. No.	Course Code	Course Title	Credit Hrs.	
			Theory	Lab
1	ENGL-1118	Functional English (English-I)	3	0
2	PAKS-1113	Pakistan Studies (Pakistan Studies)	2	0
3	MATH-1101	Mathematics – I (Algebra) (Math/Stat-I)	3	0
4	INFT-1102	Introduction to Computing (General-I)	2	0
5	INFT-1202	Introduction to Computing Lab (General-I)	0	1
6	HLTH-1113	Basic Health Awareness (General-II)	2	0
7	MTSC-1101	Introduction to Materials Science – I (Foundation-I)	3	0
Credit Hours			15	01
Program Total Credit Hours			16	

Semester 2

S. No.	Course Code	Course Title	Credit Hrs.	
			Theory	Lab
1	ENGL-1119	Communication Skills (English-II)	3	0
2	ISL-1112/ETC-1112	Islamic Studies (Islamic Studies/Ethics)	2	0
3	MATH-1101	Calculus - I (Math/Stat-II / University Optional)	3	0
4	STAT-2131	Probability & Statistics (General-III)	3	0
5	SSCI-3120	Constitution and Legal System of Pakistan (General-IV)	2	0
6	MTSC-1102	Introduction to Materials Science – II (Foundation-II)	3	0
Credit Hours			16	0
Program Total Credit Hours			16	

Semester 3

S. No.	Course Code	Course Title	Credit Hrs.	
			Theory	Lab
1	ENGL-2111	Technical Writing and Skills (English-III)	3	0
2	COSC-1101	Programming Fundamentals (Introduction to Computer)	3	0
3	COSC-1201	Programming Fundamentals Lab (Introduction to Comp)	0	1
4	MEEN-1110	Basic Mechanical Engineering (General-V)	3	0
5	MATH-3124	Linear Algebra (General-VI)	3	0
6	MTSC-2101	Thermal Properties of Materials (Foundation-III)	3	0
7	MTSC-2201	Thermal Properties of Materials Lab (Foundation-III)	0	1
Credit Hours			15	02
Program Total Credit Hours			17	

Semester 4

S. No.	Course Code	Course Title	Credit Hrs.	
			Theory	Lab
1	HLTH-XXXX	From university electives (English-IV / University Optional)	3	0
2	ELEN-2109	Electrical Engineering and Electronics (General-VII)	3	0
3	MTSC-2102	Theory of Solids (General-VIII)	3	1
4	MTSC-2104	Optical Properties of Materials (Foundation-IV)	3	0
5	MTSC-2204	Optical Properties of Materials Lab (Foundation-IV)	0	0
6	MTSC-2106	Synthesis and Characterization of Materials (Foundation-V)	3	0
7	MTSC-2206	Synthesis and Characterization of Materials Lab (Foundation-V)	0	1
Credit Hours			15	02
Program Total Credit Hours			17	

Semester 5

S. No.	Course Code	Course Title	Credit Hrs.	
			Theory	Lab
1	MTSC-3101	Electrical and Magnetic Properties of Materials (Foundation-VI)	3	0
2	MTSC-3103	Thermodynamics of Materials (Foundation-VII)	3	0
3	MTSC-3105	Computational Methods in Materials Science (Major-I)	3	0
4	MTSC-3107	Vacuum Science and Technology (Major-II)	3	0
5	MTSC-3207	Vacuum Science and Technology Lab (Major-II)	0	1
6	MTSC-3109	Structure of Materials (Major-III)	3	0
7	MTSC-3209	Structure of Materials Lab (Major-III)	0	1
Credit Hours			15	02
Program Total Credit Hours			17	

Semester 6

S. No.	Course Code	Course Title	Credit Hrs.	
			Theory	Lab
1	MTSC-3102	Introduction to Advanced Materials (Foundation-VIII)	3	0
2	MTSC-3104	Selection of Materials (Foundation-IX)	3	0
3	MTSC-3106	Nanomaterials and Nanotechnology - I (Major-IV)	3	0
4	MTSC-3108	Corrosion / Erosion of Materials (Major-V)	3	0
5	MTSC-3208	Corrosion / Erosion of Materials Lab (Major-V)	0	1
6	MTSC-3110	Phase Transformations in Materials (Major-VI)	3	0
7	MTSC-3210	Phase Transformations in Materials Lab (Major-VI)	0	1
Credit Hours			15	02
Program Total Credit Hours			17	

Semester 7

S. No.	Course Code	Course Title	Credit Hrs.	
			Theory	Lab
1	MTSC-4101	Mechanics of Materials (Major-VII)	3	0
2	MTSC-4201	Mechanics of Materials Lab (Major-VII)	0	1
3	MTSC-4103	Nanomaterials and Nanotechnology - II (Major-VIII)	3	0
4	MTSC-4105	Surface Science of Materials (Major-IX)	3	0
5	MTSC-4205	Surface Science of Materials Lab (Major-IX)	0	1
6	MTSC-XXXX	Select from list (Elective-I)	3	0
7	MTSC-4301	Bibliographic Report (Major-X Research Project / Internship)	3	0
Credit Hours			15	02
Program Total Credit Hours			17	

Semester 8

S. No.	Course Code	Course Title	Credit Hrs.	
			Theory	Lab
1	MTSC-4302	Internship/Research Project (Major-XI Research Project / Internship)	3	0
2	MTSC-4102	Heat Treatments of Materials (Major-XII)	3	0
3	MTSC-XXXX	Select from list Elective-II	3	0
4	MTSC-XXXX	Select from list Elective-III	3	0
5	MTSC-XXXX	Select from list Elective-IV	3	0
6	MTSC-4303	Latest in Materials Science (Invited Lectures/Talks/ Presentations)	0	0
Credit Hours			15	0
Program Total Credit Hours			15	

List of Elective Courses**List of University Electives/Optional Courses**

S. No.	Course Code	Course Title	Credit Hours
1	MTSC 4111	Ceramic Materials	3
2	MTSC 4112	Energy Materials	3
3	MTSC 4113	Magnetic Materials	3
4	MTSC 4114	Nano Materials	3
5	MTSC 4115	Bio/Medical Materials	3
6	MTSC 4116	Deformation of Materials	3
7	MTSC 4117	Fracture of Materials	3
8	MTSC 4118	Metallic Materials	3
9	MTSC 4119	Composite Materials	3
10	MTSC 4120	Thin Film Materials	3

S. No.	Course Code	Course Title	Credit Hours
1	MSCI-XXXX.	Entrepreneurship	3
2	MSCI-XXXX.	Total Quality Management	3
3	MSCI-XXXX.	Engineering Management	3
4	MSCI-XXXX.	Engineering Economics	3
5	MSCI-XXXX.	Project Management	3
6	MSCI-XXXX.	Organizational Behavior	3
7	MSCI-XXXX.	International Relations	3
8	SSCI-XXXX.	Principles of Philosophy	3
9	SSCI-XXXX.	Principles of Psychology	3
10	MSCI-XXXX.	Entrepreneurship	3

MS Mechanical Engineering**Semester 1**

S. No.	Course Title	Credit Hours
1	Core 1	3
2	Core 2	3
3	Core 3	3
4	Elective 1	3
Credit Hours		12

Semester 2

S. No.	Course Title	Credit Hours
1	Core 4	3
2	Elective 2	3
3	Elective 3	3
4	Elective 4	3
Credit Hours		12

Semester 3 and onwards

S. No.	Course Title	Credit Hours
1	Thesis	12
Credit Hours		12

List of Core Courses

S. No.	Course Code	Course Title	Credit Hours	S. No.	Course Code	Course Title	Credit Hours
1	MEEN-6102	Advanced Manufacturing Systems	3	11	MEEN-6415	Advanced Stress Analysis	3
2	MEEN-6105	Computer Integrated Manufacturing	3	12	MEEN-6417	Advanced Internal Combustion Engines	3
3	MEEN-6106	Advanced Control System	3	13	MEEN-6420	Thermal Design of Heat Exchangers	3
4	MEEN-6110	Advanced Fluid Mechanics	3	14	MEEN-6422	Advanced Water Desalination	3
5	MEEN-6112	Computational Fluid Dynamics	3	15	MEEN-6423	Special Topics in Mechanical Engineering	3
6	MEEN-6113	Thermal System Design	3				
7	MATH-6115	Advanced Engineering Mathematics	3				
8	MEEN-6401	Advanced Engineering Materials	3				
9	MEEN-6406	Advanced Tribology	3				
10	MEEN-6411	Continuum Mechanics	3				

List of Elective Courses

S. No.	Course Code	Course Title	Credit Hours	S. No.	Course Code	Course Title	Credit Hours
1	MEEN-5434	Energy Management	3	11	MEEN-6114	Advanced Heat Transfer	3
2	MEEN-5435	Optimization Theory	3	12	MEEN-6402	Product Life Cycle Management	3
3	MEEN-5438	Operations Research	3	13	MEEN-6403	Design Management & Prediction	3
4	MEEN-5139	Advanced Numerical Analysis Techniques	3	14	MEEN-6405	Human Factor Engineering	3
5	MEEN-6103	Product and Process Design	3	15	MEEN-6407	Combustion and Environment	3
6	MEEN-6104	CAD/CAM	3	16	MEEN-6408	Expert Systems in Mechanical Engineering	3
7	MEEN-6107	Robotics	3	17	MEEN-6409	Mechanism Design	3
8	MEEN-6108	Advanced Dynamics	3	18	MEEN-6410	Sensors and Sensing Technology	3
9	MEEN-6109	Modelling & Simulation	3	19	MEEN-6412	Advanced Finite Element Methods	3
10	MEEN-6111	Advanced Thermodynamics	3	20	MEEN-6413	Advanced Mechanical Vibration	3

S. No.	Course Code	Course Title	Credit Hours	S. No.	Course Code	Course Title	Credit Hours
21	MEEN-6414	Industrial Automation	3	31	MATH-6158	Mathematical Statistics	3
22	MEEN-6427	Turbulence Modelling	3	32	MEEN-7102	Advanced Manufacturing Design Techniques	3
23	MEEN-6428	Intelligent Control	3	33	MEEN-7103	Industrial Control Technology	3
24	MEEN-6429	Optimal Control	3	34	MEEN-7104	Precision Manufacturing Systems	3
25	MEEN-6430	Advanced Aerodynamics	3	35	MEEN-7106	Advanced Measurement Techniques	3
26	MEEN-6431	Micro electromechanical Systems	3	36	MEEN-7107	Advanced Topics in Mechatronics	3
27	MSCI-5143	Total Quality Management	3	37	MEEN-7109	Combustion Engineering	3
28	MSCI-5431	Engineering Management	3	38	MEEN-7110	Advanced Mechanical Vibration	3
29	MSCI-5432	Engineering Economics	3	39	MEEN-7118	Advanced Renewable Energy Systems	3
30	MSCI-6135	Supply Chain Management	3	40	MEEN-7124	Processing of Composites	3

S. No.	Course Code	Course Title	Credit Hours
41	MEEN-7125	Theory of Elasticity	3
42	MEEN-7126	Design of Experiments	3
43	MEEN-7127	System Dynamics and Controls	3
44	MEEN-7128	Robotics and Parallel Mechanisms	3
45	MEEN-7129	Advanced Fracture Mechanics	3
46	MEEN-7130	Advanced Convection Heat Transfer	3
47	MEEN-7131	Boundary Layer Theory	3

“Leader is a dealer in a hope”

-Napoleon Bonaparte

PhD Mechanical Engineering

Semester 1

S. No.	Course Title	Credit Hours	S. No.	Course Title	Credit Hours
1	Elective 1	3	1	Elective 4	3
2	Elective 2	3	2	Elective 5	3
3	Elective 3	3	3	Elective 6	3
Credit Hours		9	Credit Hours		9

Semester 2

Semester 3 and onwards

S. No.	Course Title	Credit Hours
1	Thesis	30
Credit Hours		30

List of Core Courses

S. No.	Course Code	Course Title	Credit Hours	S. No.	Course Code	Course Title	Credit Hours
1	MEEN-6102	Advanced Manufacturing Systems	3	11	MEEN-6415	Advanced Stress Analysis	3
2	MEEN-6105	Computer Integrated Manufacturing	3	12	MEEN-6417	Advanced Internal Combustion Engines	3
3	MEEN-6106	Advanced Control System	3	13	MEEN-6420	Thermal Design of Heat Exchangers	3
4	MEEN-6110	Advanced Fluid Mechanics	3	14	MEEN-6422	Advanced Water Desalination	3
5	MEEN-6112	Computational Fluid Dynamics	3	15	MEEN-6423	Special Topics in Mechanical Engineering	3
6	MEEN-6113	Thermal System Design	3	16	MEEN-6103	Product and Process Design	3
7	MATH-6115	Advanced Engineering Mathematics	3	17	MEEN-6104	CAD/CAM	3
8	MEEN-6401	Advanced Engineering Materials	3	18	MEEN-6107	Robotics	3
9	MEEN-6406	Advanced Tribology	3	19	MEEN-6108	Advanced Dynamics	3
10	MEEN-6411	Continuum Mechanics	3	20	MEEN-6109	Modelling & Simulation	3

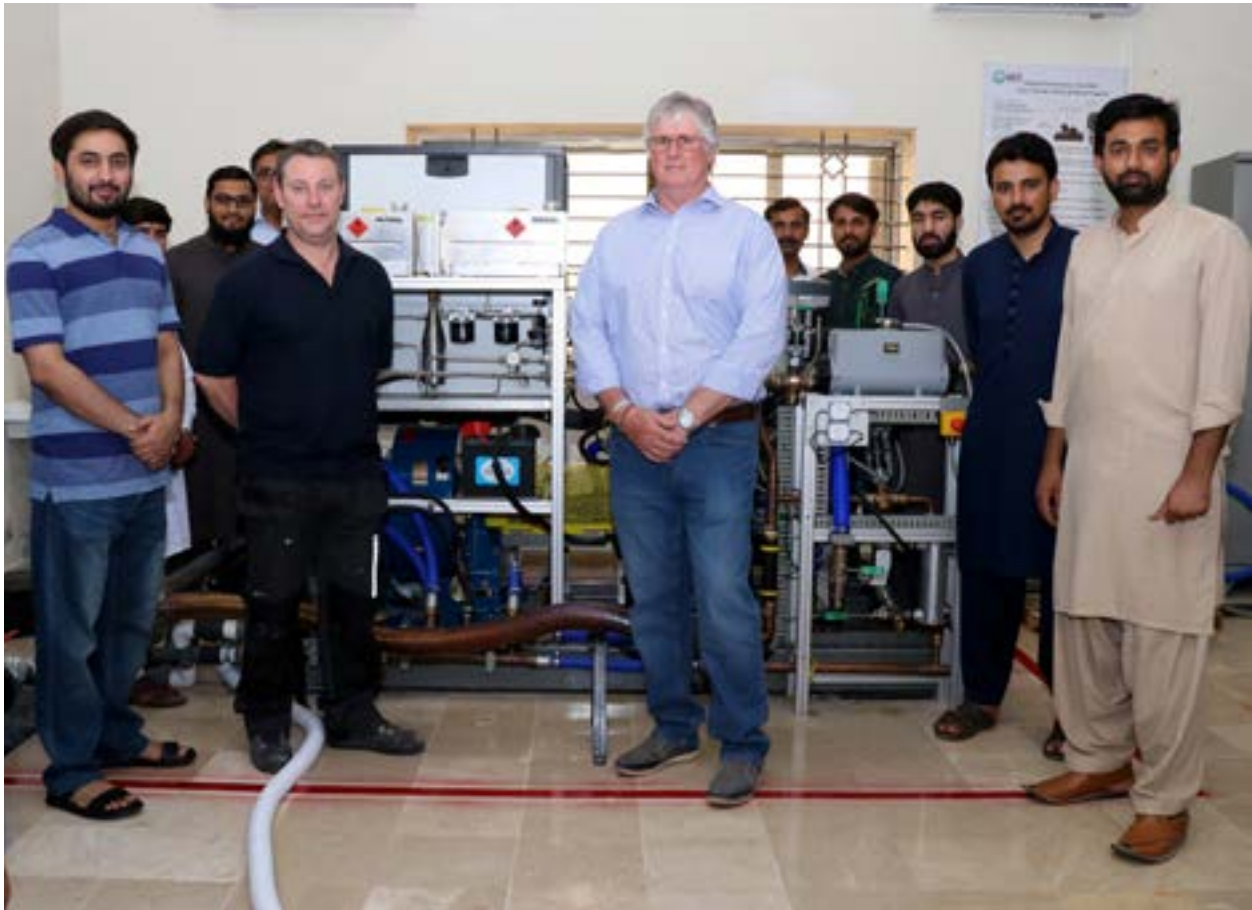
S. No.	Course Code	Course Title	Credit Hours	S. No.	Course Code	Course Title	Credit Hours
21	MEEN-6111	Advanced Thermodynamics	3	31	MEEN-6412	Advanced Finite Element Methods	3
22	MEEN-6114	Advanced Heat Transfer	3	32	MEEN-6413	Advanced Mechanical Vibration	3
23	MEEN-6402	Product Life Cycle Management	3	33	MEEN-6414	Industrial Automation	3
24	MEEN-6403	Design Management & Prediction	3	34	MEEN-6418	Energy Resources and Utilization	3
25	MEEN-6404	Materials for High-Temperature Applications	3	35	MEEN-6419	Precision Manufacturing Systems	3
26	MEEN-6405	Human Factor Engineering	3	36	MEEN-6421	Convection Heat Transfer	3
27	MEEN-6407	Combustion and Environment	3	37	MEEN-6424	Processing of Composites	3
28	MEEN-6408	Expert Systems in Mechanical Engineering	3	38	MEEN-6425	Theory of Elasticity	3
29	MEEN-6409	Mechanism Design	3	39	MEEN-6426	Design of Experiments	3
30	MEEN-6410	Sensors and Sensing Technology	3	40	MEEN-6427	Turbulence Modelling	3

S. No.	Course Code	Course Title	Credit Hours	S. No.	Course Code	Course Title	Credit Hours
41	MEEN-6428	Intelligent Control	3	51	MEEN-7106	Advanced Measurement Techniques	3
42	MEEN-6429	Optimal Control	3	52	MEEN-7109	Combustion Engineering	3
43	MEEN-6430	Fundamentals of Aerodynamics	3	53	MEEN-7110	Advanced Mechanical Vibration	3
44	MEEN-6439	Advanced Numerical Analysis Techniques	3	54	MEEN-8104	Materials for High-Temperature Applications	3
45	MSCI-6135	Supply Chain Management	3	55	MEEN-8105	Smart Materials and Structures	3
46	MATH-6158	Mathematical Statistics	3	56	MEEN-8108	Special Topics for Advanced Thermodynamics	3
47	MEEN-7102	Advanced Manufacturing Design Techniques	3	57	MEEN-8111	Advanced Solid Mechanics	3
48	MEEN-7103	Industrial Control Technology	3	58	MEEN-8112	Advanced Power Plant Systems	3
49	MEEN-7104	Precision Manufacturing Systems	3	59	MEEN-8113	Theory of Plasticity	3
50	MEEN-7105	Smart Materials and Structures	3				3



Parlementarian getting Briefing on Mechanical Engineering Test Bed





Foreign Delegation Visiting Mechanical Engineering Lab



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*A leader is one who knows the way,
goes the way, and shows the way.*

- John Maxwell



Faculty of

Computer Science & Information Technology

Department of

Computer Science

Introduction

The Department of Computer Science at KFUEIT offers students and faculty a close-knit community to learn, discover and innovate, in a shared quest for computational solutions to a spectrum of challenging problems. Our focus is on quality teaching and research using state of the art facilities. The department copes with the modern needs of Information Technology where the main objective is to produce quality computer professionals and software engineers to meet the emerging demands of IT at national and international markets. We have a well designed curriculum as per HEC requirements with a combination of foundation, core and elective courses supported by the final year projects and internship programs.

The department educates and conducts research covering wide areas of attractive educational programs for students to learn from the basics to advanced technologies related to computer science and information technology. Students are taught and groomed to become leading developers and researchers who are highly motivated and have practical, creative and management skills to drive an advanced next-generation information society in all industrial zones

Vision

To be recognized as a centre of excellence internationally in teaching and research in computer science to contribute for the local and national development.

Key Features / Facilities

- State of the art Computing Labs
- Fareed Computing Research Center (www.fcrc.work)
- Highly qualified faculty having national and international exposure.

Mission

Our mission is to provide quality education and;

- To produce graduates who are successful professionally, ethically, technically and scientifically to make positive contributions in the field of computing.
- To create, share, and apply knowledge in interdisciplinary research areas to perform a significant role in the continuing local and global transformations.
- To contribute positively to the economic development of the country providing services to the local community.
- To prepare the human resource to overcome the shortage of skilled manpower who can face the challenges of the 21st Century.



Key Features / Facilities

- Best Teacher Award 2018
- Won National level competitions such as; ASCII, Microsoft Imagine Cup.
- Research Publications in high ranked journals.
- Member of National Curriculum Revision Committee.
- Dr. Arif Mehmood become reviewer of ETRI journal.
- Mr. Saqib Ubaid became member of Punjab Curriculum & Textbook Board (PCTB)

Programs being offered

BS Computer Science

MSc Computer Science

MS Computer Science

MS Data Science

PhD Computer Science *

* Subject to approval / NOC from HEC / Competent Authority / Accreditation Body



Scheme of Study

BS Computer Science

Semester 1

S. No.	Course Code	Course Title	Credit Hours	Pre-Requisite
1	COSC-1105	Introduction to ICT	2	
2	COSC-1205	Introduction to ICT-Lab	1	
3	COSC-1101	Programming Fundamentals	3	
4	COSC-1201	Programming Fundamentals-Lab	1	
5	ENGL-1118	Functional English	3	
6	MATH-1100	Calculus	3	
7	PHYS-1122	Applied Physics	3	
8	ISLS-1112	Islamic Studies/Ethics	2	
Semester-I Credit Hours			18	

Semester 2

S.	Course	Course Title	Credit Hours	Pre-Requisite
1	COSC-1102	Object Oriented Programming	3	COSC-1101
2	COSC-1202	Object Oriented Programming-Lab	1	& COSC-1201
3	COSC-1104	Software Engineering	3	
4	COSC-1103	Discrete Structures	3	
5	ENGL-1119	Communication Skills	3	
6	PAKS-1113	Pakistan Studies	2	
7	SSCI-1111	Introduction to Sociology	3	
Semester-II Credit Hours			18	

Semester 3

S. No.	Course Code	Course Title	Credit Hours	Pre-Requisite
1	ELEN-2100	Digital Logic Design	3	PHYS-1122
2	ELEN-2200	Digital Logic Design-Lab	1	
3	COSC-2101	Data Structures & Algorithms	3	COSC-1102 & COSC-1202
4	COSC-2201	Data Structures & Algorithms-Lab	1	
5	COSC-3101	Computer Networks	3	
6	COSC-3201	Computer Networks-Lab	1	
7	ENGL-4117	Technical & Business Writing	3	
8	MATH-2103	Linear Algebra	3	
Semester-III Credit Hours			18	

Semester 4

S.	Course	Course Title	Credit Hours	Pre-Requisite
1	COSC-2103	Database Systems	3	
2	COSC-2203	Database Systems-Lab	1	
3	COSC-2102	Operating Systems	3	
4	COSC-2202	Operating Systems-Lab	1	
5	COSC-2105	Theory of Automata	3	COSC-1103
6	STAT-2104	Probability & Statistics	3	
7	HLTH-1113	Basic Health Awareness	2	
Semester-IV Credit Hours			16	

Semester 5

S. No.	Course	Course Title	Credit Hours	Pre-Requisite
1	COSC-3114	Computer Organization & Assembly Language	3	ELEN-2100 & ELEN-2200
2	COSC-3214	Computer Organization & Assembly Language-Lab	1	
3	COSC-3115	Design & Analysis of Algorithms	3	COSC-2101
4	MATH-2122	Differential Equations	3	
5	COSC-3107	Machine Learning	3	
6	MSCI-2116	Principles of Accounting	3	
Semester-V Credit Hours			16	

Semester 6

S.	Course	Course Title	Credit Hours	Pre-Requisite
1	COSC-3102	Information Security	3	
2	COSC-3112	Artificial Intelligence	3	COSC-1103
3	COSC-3212	Artificial Intelligence-Lab	1	
4	COSC-3104	Compiler Construction	3	COSC-2105
5	COSC-3116	Mobile Application Development	3	
6	COSC-3109	Data Science	3	
Semester-VI Credit Hours			16	

Semester 7

S. No.	Course	Course Title	Credit Hours	Pre-Requisite
1	COSC-4301	Final Year Project-I	3	COSC-1104 & COSC-2103
2	COSC-4101	Parallel and Distributed Computing	3	
3	MATH-3116	Numerical Analysis	3	COSC-2102
4	SSCI-3120	Constitution and Legal System of Pakistan	2	
5	COSC-4111	Visual Programming	3	
6	COSC-4109	Graph Theory	3	
Semester-VII Credit Hours			17	

Semester 8

S. No.	Course	Course Title	Credit Hours	Pre-Requisite
1	COSC-4302	Final Year Project-II	3	COSC-4301
2	SSCI-2111	Professional Ethics	2	
3	MSCI-3111	Entrepreneurship	3	
4	COSC-4120	Web Programming	3	COSC-3101
5	INFT-4107	Routing & Switching	2	
Semester-VIII Credit Hours			13	

Program Total Credit Hours

132

MSc Computer Science

Semester 1

S.	Course	Course Title	Credit Hours	Pre-Requisite
1	COSC-1101	Programming Fundamentals	3	
2	COSC-1201	Programming Fundamentals-Lab	1	
3	COSC-3103	Data Communication & Computer Networks	3	
4	ELEN-2100	Digital Logic Design	3	
5	COSC-1103	Discrete Structures	3	
6	ENGL-1119	Communication Skills	3	
Total Credit Hours			16	

Semester 2

S. No.	Course Code	Course Title	Credit Hours	Pre-Requisite
1	COSC-1102	Object Oriented Programming	3	COSC-1101
2	COSC-1202	Object Oriented Programming-Lab	1	& COSC-1201
3	COSC-1104	Software Engineering	3	
4	COSC-2101	Data Structures & Algorithms	3	COSC-1101 & COSC-1201
5	COSC-2201	Data Structures & Algorithms-Lab	1	
6	COSC-2103	Database Systems	3	
7	COSC-2203	Database Systems-Lab	1	
8	MSCI-2116	Principles of Accounting	3	
Total Credit Hours			18	

Semester 3

S.	Course	Course Title	Credit Hours	Pre-Requisite
1	COSC-2102	Operating Systems	3	
2	COSC-2202	Operating Systems-Lab	1	
3	COSC-2108	Computer Architecture & Organization	3	
4	COSC-3104	Theory of Automata & Formal Language	3	COSC-1103
5	COSC-3116	Mobile Application Development	3	
6	COSC-4120	Web Programming	3	COSC-1102 & COSC1202
7	COSC-4301	Final Year Project-I	3	COSC-1104 & COSC-2103
Total Credit Hours			19	

Semester 4

S. No.	Course	Course Title	Credit Hours	Pre-Requisite
1	COSC-3112	Artificial Intelligence	3	
2	COSC-3104	Compiler Construction	3	COSC-3104
3	COSC-4111	Visual Programming	3	
4	INFT-4107	Routing & Switching	2	COSC-3103
5	COSC-4302	Final Year Project-II	3	COSC-4301
6	MSCI-3111	Entrepreneurship	3	
Total Credit Hours			17	

Program Total Credit Hours

70

MS Computer Science

Semester 1

S. No.	Course Code	Course Title	Credit Hours	Remarks
1	COSC-5101	Advanced Algorithms Design and Analysis	3	Core
2		Elective-I	3	Elective
3		Elective-II	3	Elective
4		Elective-III	3	Elective
Semester Credit Hours			12	

Semester 2

S. No.	Course Code	Course Title	Credit Hours	Remarks
1	COSC-5102	Advanced Theory of Computation	3	Core
2		Elective-IV	3	Elective
3		Elective-V	3	Elective
4		Elective-VI	3	Elective
Semester Credit Hours			12	

Semester 3 & 4

S. No.	Course Code	Course Title	Credit Hours	Remarks
1	COSC-6601	Thesis	12	Core
Semester Credit Hours			12	

Program Total Credit Hours

36

*“You are not a drop in the Ocean.
You are entire ocean, in a drop.”*

- Rumi

List of Elective Courses

S. No.	Course Code	Course Title	Category	S. No.	Course Code	Course Title	Category
1	COSC-5101	Advanced Algorithms Design and Analysis	Core	27	COSC-6109	Deep Learning	Elective
2	COSC-5102	Advanced Theory of Computation	Core	28	COSC-6110	Theory of Programming Languages	Elective
3	COSC-5103	Semantic Web	Elective	29	COSC-6111	Advanced Software Development	Elective
4	COSC-5104	Algorithmic Game Theory	Elective	30	COSC-6112	Advanced Requirements Engineering	Elective
5	COSC-5105	Advanced Computer Networks	Elective	31	COSC-6113	Advanced Software Architecture	Elective
6	COSC-5106	Wireless Networks and Mobile Computing	Elective	32	COSC-6114	Model Driven Software Engineering	Elective
7	COSC-5107	Cryptography and Network Security	Elective	33	COSC-6115	Advanced Software Quality Assurance	Elective
8	COSC-5108	Advanced Database Systems	Elective	34	COSC-6116	Network Management and Administration	Elective
9	COSC-5109	Distributed Database Systems	Elective	35	COSC-6117	Network Performance Evaluation	Elective
10	COSC-5110	Geographical Information Systems	Elective	36	COSC-6118	Grid and Cloud Computing	Elective
11	COSC-5111	Information Retrieval Techniques	Elective	37	COSC-6119	Advanced Routing	Elective
12	COSC-5112	Machine Learning	Elective	38	COSC-6120	Internet of Things	Elective
13	COSC-5113	Multi-Agent Systems	Elective	39	COSC-6121	Advanced Data Mining	Elective
14	COSC-5114	Agent Oriented Software Engineering	Elective	40	COSC-6122	Data Warehousing	Elective
15	COSC-5115	Object Oriented Software Engineering	Elective	41	COSC-6123	NoSQL Databases	Elective
16	COSC-5116	Advanced Software Project Management	Elective	42	COSC-6124	Big Data Analytics	Elective
17	COSC-5117	Knowledge-Based Systems	Elective	43	COSC-6125	Research Methodology	Elective
18	COSC-5118	Advanced Digital Image Processing	Elective	44	COSC-6601	Thesis	Core
19	COSC-6101	Formal Methods	Elective				
20	COSC-6102	Model Checking	Elective				
21	COSC-6103	Systems Modeling and Simulation	Elective				
22	COSC-6104	Algorithmic Graph Theory	Elective				
23	COSC-6105	Computer Vision	Elective				
24	COSC-6106	Geometric Algorithms	Elective				
25	COSC-6107	Control Systems and Robotics	Elective				
26	COSC-6108	Natural Language Processing	Elective				



BOS (Department of Computer Science)



Faculty Group Photo (Department of Computer Science)



FIT Challenge 2019



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FIT Challenge Inauguration (Department of Computer Science)

Department of

Information Technology

Introduction

The Department of Information Technology at KFUEIT offers its students and faculty a platform to learn and explore challenging problems related to Information Technology. More specifically, the stakeholders investigate and solve together the open challenges of Information Technology. The focus of the department is on quality teaching and research using available state-of-the-art facilities. The department aims to cope with the needs of Information Technology professionals to meet the rising demands at both National and International levels. The department has devised a well-designed curriculum, as per HEC guidelines / requirements, combining all necessary courses ranging from basic to advance, equally supported by thesis and case studies.

The department educates and conducts research covering wide areas from fundamental technologies such as software engineering, image processing, object oriented programming, computer architecture, algorithms, database system, networks and internet technologies, which support infrastructures of the highly information-oriented society to applied and advanced technologies. To achieve this mission, we provide attractive educational programs for students to learn from the basics to advanced technologies, related to information technology. Through our educational programs, students are expected to become leading Information Technology professionals and researchers who are highly motivated and have practical, creative, and management skills to drive next-generation secure information society.

Vision

To be a professional leader in delivering IT based services in support of teaching, learning, research and produce self-motivated and creative professionals.

Mission

Our mission is to provide a quality education and;

- To produce graduates who are successful professionally, ethically, technically and scientifically to make positive contributions in the field of Information Technology
- To prepare students to function effectively in a dynamic technological era
- To contribute positively to the economic development of the country providing services to the community
- To prepare the human resource to overcome the shortage of skilled manpower who can face the challenges of the 21st Century

Key Features / Facilities

- General Purpose Lab
- Database / Software Engineering Lab
- Networking Lab
- Programming Lab
- Micro Processor / Embedded Lab
- Electronics / Circuits Lab
- Advance Network Research Lab

Programs being offered

BS Information Technology

BS Bioinformatics

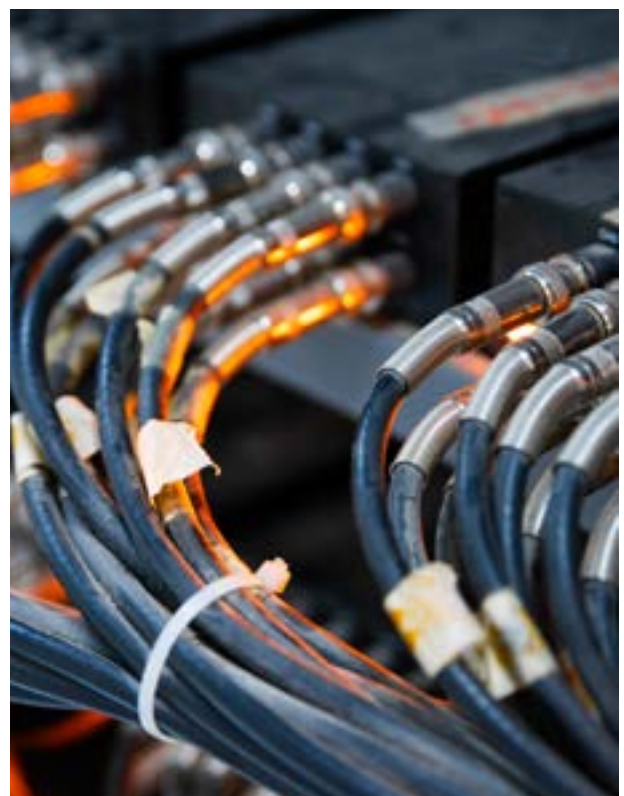
BS Telecommunication Systems *

MS Information Security

MS Information Technology *

MS Telecommunication Systems *

* Subject to approval / NOC from HEC / Competent Authority / Accreditation Body



BS Information Technology

Semester 1

S. No.	Course Code	Course Title	Credit Hours	Pre-Requisite
1	COSC-1105	Introduction to ICT	2	
2	COSC-1205	Introduction to ICT-Lab	1	
3	COSC-1101	Programming Fundamentals	3	
4	COSC-1201	Programming Fundamentals-Lab	1	
5	MATH-1100	Calculus	3	
6	ENGL-1118	Functional English	3	
7	PHYS-1122	Applied Physics	3	
8	ISLS-1112	Islamic Studies/Ethics	2	
Total Credit Hours			18	

Semester 2

S.	Course	Course Title	Credit Hours	Pre-Requisite
1	COSC-1102	Object Oriented Programming	3	
2	COSC-1202	Object Oriented Programming-Lab	1	
3	COSC-1103	Discrete Structures	3	
4	INFT-1101	IT Infrastructure	3	
5	COSC-1104	Software Engineering	3	
6	PAKS-1113	Pakistan Studies	2	
7	ENGL-1119	Communication Skills	3	
Total Credit Hours			18	

Semester 3

S.	Course	Course Title	Credit Hours	Pre-Requisite
1	COSC-2101	Data Structures & Algorithms	3	
2	COSC-2201	Data Structures & Algorithms-Lab	1	
3	COSC-3101	Computer Networks	3	
4	COSC-3201	Computer Networks-Lab	1	
5	MATH-2102	Linear Algebra	3	
6	ENGL-4117	Technical and Business Writing	3	
7	MSCI-2116	Principles of Accounting	3	
Total Credit Hours			17	

Semester 4

S.	Course	Course Title	Credit Hours	Pre-Requisite
1	COSC-2102	Operating Systems	3	
2	COSC-2202	Operating Systems-Lab	1	
3	COSC-2103	Database Systems	3	
4	COSC-2203	Database Systems-Lab	1	
5	STAT-2131	Probability & Statistics	3	
6	COSC-2120	Software Requirements Engineering	3	
7	HLTH-1113	Basic Health Awareness	2	
Total Credit Hours			16	

Semester 5

S.	Course	Course Title	Credit Hours	Pre-Requisite
1	INFT-3101	System and Network Administration	3	COSC-2102 and COSC-2202
2	INFT-3201	System and Network Administration-Lab	1	
3	INFT-3102	IT Project Management	3	
4	COSC-3120	Formal Methods in Software Engineering	3	
5	COSC-3121	Operations Research	3	
6	MSCI-3104	Financial Management	3	
Total Credit Hours			16	

Semester 6

S. No.	Course Code	Course Title	Credit Hours	Pre-Requisite
1	COSC-3102	Information Security	3	
2	INFT-3103	Web Technologies	3	
3	INFT-3104	Database Administration and Management	3	
4	INFT-3204	Database Administration and Management-Lab	1	
5	COSC-3109	Data Science	3	
6	COSC-3116	Mobile Application Development	3	
Total Credit Hours			16	

Semester 7

S.	Course	Course Title	Credit Hours	Pre-Requisite
1	COSC-4301	Final Year Project-I	3	COSC-1104 and COSC-2103
2	INFT-4101	Virtual Systems and Services	3	
3	INFT-4201	Virtual Systems and Services-Lab	1	
4	SSCI-3120	Constitution & Legal System of Pakistan	2	
5	COSC-3112	Artificial Intelligence	3	
6	COSC-4111	Visual Programming	3	
7	INFT-4107	Routing & Switching	2	
Total Credit Hours			17	

Semester 8

S. No.	Course Code	Course Title	Credit Hours	Pre-Requisite
1	COSC-4302	Final Year Project-II	3	COSC-4301
2	INFT-4102	Cyber Security	3	
3	COSC-4120	Web Programming	3	
4	MSCI-3111	Entrepreneurship	3	
5	SSCI-2111	Professional Ethics	2	
Total Credit Hours			14	

Program Total Credit Hours

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List of Elective Courses

S.	Course	Course Title	Credit Hours	Pre-Requisite	Semester#	S.	Course	Course Title	Credit Hours	Pre-Requisite	Semester#
1	INFT-2102	Telecommunication Systems	3	COSC-3101	6	15	COSC-3109	Data Science	3	-	
2	INFT-3105	Wireless Networks	3	COSC-3101	6	16	COSC-3110	Data Warehousing	3	COSC-2103	6
3	INFT-4103	Mobile Networks	3	COSC-3101	6	17	COSC-3111	Distributed Database Systems	3	COSC-2103	6
4	INFT-4104	Internet of Things	3	COSC-3101	8	18	COSC-3112	Artificial Intelligence	3	COSC-1103	6
5	INFT-4105	Network Security	3	COSC-3101	8	19	COSC-3113	Data Mining	3	-	6
6	INFT-4106	Optical Networks	3	COSC-3101	8	20	COSC-4101	Parallel and Distributed	3	COSC-2102	6
7	INFT-4107	Routing & Switching	3	COSC-3101	7	21	COSC-4107	Theory of Progr Languages	3	-	7
8	INFT-4108	Software Defined Networks	3	COSC-3101	8	22	SENG-3111	Mobile Application Development	3	-	7
9	COSC-2105	Theory of Automata	3	COSC-1103	6	23	SENG-3112	Natural Language Processing	3	-	7
10	COSC-3104	Compiler Construction	3	COSC-2105	7	24	SENG-3113	Real Time Systems	3	-	6
11	COSC-3105	Advanced Real World Programming	3	-	6	25	SENG-4104	Computer Graphics	3	-	6
12	COSC-3106	Advanced Object Oriented Prog	3	COSC-1102	6	26	SENG-4106	E-Commerce Application Dev	3	-	7
13	COSC-3107	Machine Learning	3	-	6	27	SENG-4112	Semantic Web	3	-	7
14	COSC-3108	Image Processing	3	-	6	28	SENG-4115	Visual Programming	3	-	8
											7

BS Bioinformatics

Semester 1

S. No.	Course Code	Course Title	Credit Hours	Pre-Requisite
1	ENGL-1118	Functional English	3	
2	COSC-1101	Programming Fundamentals	3	
3	COSC-1201	Programming Fundamentals Lab	1	
4	MATH-OR BIOL-1151 BIOL-1251	Math-I OR Basic Biology Basic Biology-Lab	3 2 1	
5	CHEM-1153	Chemistry	2	
6	CHEM-1253	Chemistry-Lab	1	
7	COSC-1105	Introduction to ICT	2	
8	COSC-1205	Introduction to ICT-Lab	1	
9	BIOI-1101	Bioinformatics Colloquium	1	
Total Credit Hours			17	

Semester 2

S. No.	Course Code	Course Title	Credit Hours	Pre-Requisite
1	BIOL-1153	Basic Cell Biology	3	
2	BIOL-1253	Basic Cell Biology-Lab	1	
3	COSC-1102	Object Oriented Programming	3	
4	COSC-1202	Object Oriented Programming-Lab	1	
5	MATH-1100	Calculus	3	
6	ENGL-1119	Calculus	3	
7	CHEM-1151	Communication Skills	3	
8	CHEM-1251	Biochemistry-I Biochemistry-I-Lab	1	
Total Credit Hours			18	

Semester 3

S. No.	Course Code	Course Title	Credit Hours	Pre-Requisite
1	ENGL-1111	Technical & Business Writing	3	
2	MATH-2103	Linear Algebra	3	
3	BIOL-2152	Essentials of Genetics	3	
4	BIOL-2252	Essentials of Genetics-Lab	1	
5	COSC-2101	Data Structures & Algorithms	3	
6	COSC-2201	Data Structures & Algorithms-Lab	1	
7	SSCI-3120	Constitution & Legal System of Pakistan	2	
8	ISLS-1112	Islamic Studies/Ethics	2	
Total Credit Hours			18	

Semester 4

S. No.	Course Code	Course Title	Credit Hours	Pre-Requisite
1	BIOI-2101	Introduction to Bioinformatics	2	
2	BIOI-2201	Introduction to Bioinformatics-Lab	1	
3	STAT-2104	Probability & Statistics	3	
4	PAKS-1113	Pakistan Studies	2	
5	CHEM-2152	Biochemistry-II	3	CHEM-1151
6	BIOL-2154	Molecular Biology	3	BIOL-1153
7	BIOL-2254	Molecular Biology-Lab	1	
8	COSC-1103	Discrete Structures	3	
Total Credit Hours			18	

Semester 5

S. No.	Course Code	Course Title	Credit Hours	Pre-Requisite
1	BIOI-3101	Recombinant DNA Technology	2	
2	BIOI-3201	Recombinant DNA Technology-Lab	1	
3	COSC-2103	Database Systems	3	
4	COSC-2203	Database Systems-Lab	1	
5	BIOI-3102	Bioinformatics Analysis	3	
6	BIOI-3202	Bioinformatics Analysis-Lab	1	
7	BIOI-3103	Genomics	3	BIOL-2154
8	COSC-3108	Image Processing	3	
Total Credit Hours			17	

Semester 6

S.	Course	Course Title	Credit Hours	Pre-Requisite
1		Bioinformatics Computing-I	3	COSC-1101
2	BIOL-3204	Bioinformatics Computing-I-Lab	1	
3	SENG-3107	Modeling and Simulation	3	
4	BIOL-3105	Proteomics	3	BIOL-2154
5	BIOL-3106	Graphics and Visualization	3	COSC-1101
6	BIOL-3206	Graphics and Visualization-Lab	1	
7	BIOL-3107	Systems Biology	3	BIOL-3103
Total Credit Hours			17	

Semester 7

S. No.	Course Code	Course Title	Credit Hours	Pre-Requisite
1	COSC-3112	Artificial Intelligence	3	COSC-1103
2	BIOI-4101	Bioinformatics Software Engineering	2	
3	BIOI-4201	Bioinformatics Software Engineering-Lab	1	
4	SSCI-1112	Social Service	1	
5	COSC-3109	Data Science	3	
6	BIOI-4102	Functional and Structural Bioinformatics	3	
7	BIOI-4103	Ethical and Legal Issues in Bioinformatics	2	BIOI-3102
8		Final Year Project-I	3	ENGL-1111 and COSC-2103
Total Credit Hours			18	

Semester 8

S. No.	Course Code	Course Title	Credit Hours	Pre-Requisite
1	BIOL-4104	Bioinformatics Computing-II	3	
2	BIOL-4105	Network Biology	3	
3	HLTH-1113	Basic Health Awareness	2	
4	BIOL-4302	Final Year Project-II	3	
Total Credit Hours			11	

Program Total Credit Hours

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*“The past resembles the future more than
one drop of water resembles another”*

- Ibn Khaldun

List of Elective Courses

S. No.	Course Code	Course Title	Credit Hours
1	BIOI-4106	Immuno-Informatics	3
2	BIOI-4105	Network Biology	3
3	COSC-3101	Computer Networks	3
4	COSC-3107	Machine Learning	3
5	COSC-3108	Image Processing	3
6	COSC-3109	Data Science	3
7	MSCI-3111	Entrepreneurship	3
8	COSC-3113	Data Mining	3
9	SENG-4115	Visual Programming	3
10	SENG-4112	Semantic Web	3
11	MATH-2122	Differential Equations	3
12	SSCI-1112	Social Service (Elective Mandatory)	3
13	BIOI-4107	Special Topics in Biochemistry	3
14	BIOI-1101	Bioinformatics Colloquium (Elective Mandatory)	3

*“Innovation distinguishes
between a leader and
a follower”*

-Steve Jobs

MS Information Security

Semester 1

S. No.	Course Code	Course Title	Credit Hours	Remarks
1	COSC-5101	Advanced Algorithms Design and Analysis	3	Core
2	COSC-5107	Cryptography and Network Security	3	Core
3		Specialization-I	3	Specialized
4		Elective-I	3	Elective
Total Credit Hours			12	

Semester 2

S. No.	Course Code	Course Title	Credit Hours	Remarks
1	INFS-5101	Information Security and Privacy	3	Core
2		Specialization-II	3	Specialized
3		Elective-II	3	Elective
4		Elective-II	3	Elective
Total Credit Hours			12	

Semester 3 & 4

S. No.	Course Code	Course Title	Credit Hours	Remarks
1	INFS-6601	Thesis	12	Core
Total Credit Hours			12	

Program Total Credit Hours

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Specialization: Information Security Management

S. No.	Course Code	Course Title	Remarks
1	INFS-5102	Legal Issues in Information Security	Elective
2	INFS-5103	IT Security Evaluation and Auditing	Elective
3	INFS-6111	Intrusion Detection Systems	Elective
4	INFS-6112	Cyber Risk Management	Elective

Specialization: Digital Forensics

S. No.	Course Code	Course Title	Remarks
1	INFS-6113	Computer Forensics	Elective
2	INFS-6114	Network Forensics	Elective
3	INFS-6115	Operating System Forensics	Elective
4	INFS-6116	IT Forensics and Investigation	Elective

General Elective Courses

S. No.	Course Code	Course Title	Remarks
1	MSCI-6134	Cases in Small Business & Entrepreneurship	Elective
2	INFS-5104	ICT Innovation-Product Design and Development	Elective
3	INFS-6101	Software Security	Elective
4	INFS-6102	Advanced Software Engineering	Elective

S. No.	Course Code	Course Title	Remarks
5	INFS-6103	Modeling and Analysis of Security Protocols	Elective
6	INFS-6104	Usable Security and Privacy	Elective
7	INFS-6105	Security of Smart Devices	Elective
8	INFS-6106	Biometric Authentication	Elective

S. No.	Course Code	Course Title	Remarks	S. No.	Course Code	Course Title	Remarks
9	INFS-6107	Principles of Data Protection	Elective	13	COSC-5112	Machine Learning	Elective
10	INFS-6108	Cloud Computing Security	Elective	14	COSC-6101	Formal Methods	Elective
11	INFS-6109	Security of Data Communication Networks	Elective	15	COSC-6102	Model Checking	Elective
12	INFS-6110	Advanced Topics in Network Security	Elective	16	COSC-6120	Internet of Things	Elective
				17	MSCI-6102	Research Methodology	Elective

Deficiency Courses

S. No.	Course Code	Course Title	Remarks	S. No.	Course Code	Course Title	Remarks
1	COSC-1101	Programming Fundamentals	None	6	Operating Systems	Operating Systems	None
2	COSC-1102	Object Oriented Programming	COSC-1101	7	Database Systems	Database Systems	None
3	COSC-1103	Discrete Structures	None	8	Software Engineer	Software Engineering	None
4	COSC-2101	Data Structures & Algorithms	COSC-1101	9	Information Security	Information Security	None
5	COSC-3101	Computer Networks	None				

MS Information Technology

Semester 1

S. No.	Course Code	Course Title	Credit Hours	Remarks
1	INFT-5101	Advanced Database Management Systems	3	Core
2		Elective-I	3	Elective
3		Elective-II	3	Elective
4		Elective-III	3	Elective
Total Credit Hours			12	

Semester 2

S. No.	Course Code	Course Title	Credit Hours	Remarks
1	INFT-5101	Information Security and Assurance	3	Core
2		Elective-IV	3	Elective
3		Elective-V	3	Elective
4		Elective-VI	3	Elective
Total Credit Hours			12	

Semester 3 & 4

S. No.	Course Code	Course Title	Credit Hours	Remarks
1	INFT-6601	Thesis	12	Mandatory
Total Credit Hours			12	

List of Elective Courses

S. No.	Course Code	Course Title	Category	S. No.	Course Code	Course Title	Category
1	INFT-5101	Information Technology Infrastructure	Elective	15	INFT-5115	Stochastic Processes	Elective
2	INFT-5102	Telecom Management	Elective	16	INFT-5116	Knowledge-Based Systems	Elective
3	INFT-5103	Data Warehousing Trends & Issues	Elective	17	INFT-5117	Distributed Databases	Elective
4	INFT-5104	Data Mining Trends & Issues	Elective	18	INFT-5118	Advanced Telecommunication Networks	Elective
5	INFT-5105	Advanced Business Intelligence and Analytics	Elective	19	INFT-5119	Telecommunication Systems	Elective
6	INFT-5106	Multimedia Databases	Elective	20	INFT-5120	Advanced Network Security	Elective
7	INFT-5107	Mobile & Pervasive Computing	Elective	21	INFT-5121	Principles of Multimedia Systems	Elective
8	INFT-5108	Enterprise Data Center Design and Methodology	Elective	22	INFT-5122	Advanced Multimedia Systems	Elective
9	INFT-5109	Data Center Network Design, Implementation, and Security	Elective	23	INFT-5123	Distributed System	Elective
10	INFT-5110	Virtualized Data Center	Elective	24	INFT-5124	Computer Graphics	Elective
11	INFT-5111	Advanced Computer Networks	Elective	25	INFT-5125	Advanced Topics in Information Technology	Elective
12	INFT-5112	Network Performance Modelling and Evaluation	Elective	26	INFS-6108	Cloud Computing Security	Elective
13	INFT-5113	Integrated Services over Packet Networks	Elective	27	COSC-5107	Cryptography and Network Security	Elective
14	INFT-5114	Stochastic Systems	Elective	28	COSC-5111	Information Retrieval Techniques	Elective

S. No.	Course Code	Course Title	Category
29	COSC-5112	Machine Learning	Elective
30	COSC-5118	Advanced Digital Image Processing	Elective
31	COSC-6105	Computer Vision	Elective
32	COSC-6120	Internet of Things	Elective
33	COSC-6124	Big Data Analytics	Elective
34	MSCI-6102	Advanced Research Methodology	Elective
35	COSC-5120	Tools and Techniques in Data Science	Elective

BS Telecommunication Systems

Semester 1

S. No.	Course Code	Course Title	Credit Hours	Pre-Requisite
1	COSC-1105	Introduction to Computing	2	
2	COSC-1205	Introduction to Computing-Lab	1	
3	PHYS-1121	Applied Physics	3	
4	PHYS-1221	Applied Physics -Lab	1	
5	TLC-1101	Electric Circuits I	3	
6	TLC-1102	Electric Circuits I-Lab	1	
7	MATH-1101	Calculus I	3	
8	ENGL-1114	Eng-I, English Composition and Comprehension	2	
Total Credit Hours			16	

Semester 2

S.	Course	Course Title	Credit Hours	Pre-Requisite
1	COSC-1102	Object Oriented Programming	3	
2	COSC-1202	Object Oriented Programming-Lab	1	
3	ELEN-1120	Electronic Devices & Circuits	3	
4	ELEN-1220	Electronic Devices & Circuits-Lab	1	
5	MATH-1102	Calculus II	3	
6	ENGL-1119	Eng-II, Communication Skills	3	
7	PAKS-1113	Pakistan Studies	2	
8	ISLS-1112	Islamic Studies/Ethics	2	
Total Credit Hours			18	

Semester 3

S.	Course	Course Title	Credit Hours	Pre-Requisite
1	ELEN-2100	Digital Logic Design	3	
2	ELEN-2200	Digital Logic Design	1	
3	COSC-3103	Data Communications and Networking	3	
4	COSC-3203	Data Communications and Networking -Lab	1	
5	MATH-2103	Linear Algebra	3	
6	SSCI-2111	Professional Ethics	3	
7	TLC-2101	Electric Circuits II	3	
Total Credit Hours			17	

Semester 4

S.	Course	Course Title	Credit Hours	Pre-Requisite
1	INFT-3103	Telecommunication Systems	3	
2	TLC-2102	Complex Variables and Transforms	3	
3	CEEN-2122	Signals and Systems	3	
4	CEEN-2122 L	Signals and Systems-Lab	1	
5	MSCI-3110	Organizational Behaviour	3	
6	ENGL-2111	Eng-III, Technical Report Writing	2	
Total Credit Hours			15	

Semester 5

S.	Course	Course Title	Credit Hours	Pre-Requisite
1	TLC-3101	Analog & Digital Communications Systems	3	
2	TLC-3102	Information and Network Security	3	
3	ELEN-3131	Electromagnetic Theory	3	
4	TLC-3103	Introduction to Business and Marketing	3	
5	TLC-3104	Economics	3	
6	STAT-2131	Probability & Statistics	3	
Total Credit Hours			18	

Semester 6

S. No.	Course Code	Course Title	Credit Hours	Pre-Requisite
1	TLC-3105	Antenna and Wave Propagation	3	
2	TLC-3106	Transmission and Switching Systems	3	
3	TLC-3107	Telecommunication Policies and Regulations	3	
4	TLC-3108	Microcontrollers & Embedded Systems	3	
5	TLC-3208	Microcontrollers & Embedded Systems-Lab	1	
6	TLC-3109	e-Business Management	3	
Total Credit Hours			16	

Semester 7

S.	Course	Course Title	Credit Hours	Pre-Requisite
1	TLC-4301	Final Year Project-I	3	
2	ELEN-4131	Wireless and Mobile Communications	3	
3	TLC-4101	Telecommunication Network Management	3	
4	TLC-4106	Cyber Policies and Regulations	3	
5	TLC-4110	Parallel and Distributed Computing	3	
Total Credit Hours			15	

Semester 8

S. No.	Course Code	Course Title	Credit Hours	Pre-Requisite
1	TLC-4302	Final Year Project -II	3	
2	TLC-4102	Optical Fiber Communication	3	
3	MSCI-6106	Project Management	3	
4	TLC-4105	Broadband Networks	3	
5	INFT-3118	Real Time Systems	3	
Total Credit Hours			15	

Program Total Credit Hours

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List of Elective Courses

S. No.	Course Code	Course Title	Cr. Hrs
29	TLC-4103	Ubiquitous Computing	3
30	TLC-4104	Information Theory and Coding	3
31	TLC-4105	Broadband Networks	3
32	TLC-4106	Cyber Policies and Regulations	3
33	TLC-4107	Software Define Radios	3
34	INFT-4114	Optical Networks	3
35	INFT-4107	Routing & Switching	3
36	TLC-4108	Software Defined Networks	3
37	COSC-2105	Theory of Automata	3
38	COSC-3104	Compiler Construction	3
39	COSC-2160	Advanced Real World Programming	3
40	COSC-3110	Advanced Object Oriented Programming	3
41	COSC-5112	Machine Learning	3
42	COSC-3112	Advanced Image Processing	3

S. No.	Course Code	Course Title	Cr. Hrs
43	INFT-4106	Data Science	3
44	TLC-4109	Data Warehousing	3
45	INFT-4106	Distributed Database Systems	3
46	COSC-3112	Artificial Intelligence	3
47	COSC-4108	Data Mining	3
48	TLC-4110	Parallel and Distributed Computing	3
49	TLC-4111	Theory of Programming Languages	3
50	COSC-3116	Mobile Application Development	3
51	COSC-4109	Natural Language Processing	3
52	INFT-3118	Real Time Systems	3
53	COSC-3114	Computer Graphics	3
54	TLC-4112	E-Commerce Application Development	3
55	COSC-3116	Semantic Web	3
56	COSC-4111	Visual Programming	3

MS Telecommunication Systems

Semester 1

S. No.	Course Code	Course Title	Credit Hours	Remarks
1	TLC-5101	Advanced Digital Communication	3	Core
2	TLC-5102	Telecommunication Network Operations	3	Core
3		Specialized Core Course-I	3	Specialized Core Course
4		Elective-I	3	Elective
Total Credit Hours			12	

Semester 2

S. No.	Course Code	Course Title	Credit Hours	Remarks
1	TLC-5103	Digital Signal Processing	3	Core
2		Specialized Core Course- II	3	Specialized Core Course
3		Specialized Core Course-III	3	Specialized Core Course
4		Elective-II	3	Elective
Total Credit Hours			12	

Semester 3 & 4

S. No.	Course Code	Course Title	Credit Hours	Remarks
1	TLC-6601	Thesis	12	Mandatory
Total Credit Hours			12	

List of Elective Courses

S. No.	Course Code	Course Title	Category
1	TLC-5125	Advanced Telecommunication Management	Elective
2	TLC-5126	Advanced e-business Management	Elective
3	TLC-5127	Business Process Management	Elective
4	TLC-5128	Multinational Project Management	Elective
5	TLC-5129	Management Information Systems	Elective
6	TLC-5130	Review of International Telecommunication Laws	Elective
7	TLC-5131	Macro Economics	Elective
8	TLC-5132	Investment Management	Elective

Specialization Core Courses

S. No.	Course Code	Course Title	Category
1	TLC-5104	Probability and Random Processes	Specialized Core Course
2	TLC-5105	Advanced Communication Systems	Specialized Core Course
3	TLC-5106	Information Theory and Coding	Specialized Core Course
4	TLC-5107	Microwave Systems	Specialized Core Course
5	TLC-5108	Advance Mobile Communication	Specialized Core Course
6	TLC-5109	Advanced concepts in Radar Systems	Specialized Core Course
7	TLC-5110	Cyber Security	Specialized Core Course
8	TLC-5111	Cryptography and Security Systems	Specialized Core Course
9	TLC-5112	Wireless Local Positioning Systems	Specialized Core Course
10	TLC-5113	Global Positioning and Navigation Systems	Specialized Core Course
11	TLC-5114	Signal Detection and Estimation	Specialized Core Course
12	TLC-5115	Advanced Optical Communication Systems	Specialized Core Course
13	TLC-5116	Advanced Satellite Communication Systems	Specialized Core Course
14	TLC-5117	Advanced electromagnetic and Antenna systems	Specialized Core Course
15	TLC-5118	Advanced Broadband Communication Systems	Specialized Core Course
16	TLC-5119	Multimedia Communication Systems	Specialized Core Course
17	TLC-5120	Modelling and Simulation of Telecommunication systems	Specialized Core Course
18	TLC-5121	Electromagnetic Compatibility Regulations	Specialized Core Course
19	TLC-5122	Quality of Service in Telecommunication systems	Specialized Core Course
20	TLC-5123	Advances in transmission & switching system	Specialized Core Course
21	TLC-5124	Selected Topics in Telecom systems	Specialized Core Course

“The happiness of the drop is to die in the river.”

- Al-Ghazali

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Faculty of

Natural Sciences

Department of

Chemistry

Introduction and Overview

Civilization started with the invention of fire or in other words it started with the knowledge of Chemistry. Later its contribution in providing energy, food, shelter, clothing, medicine, engineering materials, information technology gadgets and other necessities of life is evident of the fact that human being progress goes hand in hand with the progress of chemistry. Chemistry was one of the pioneer programs offered at KFUEIT in 2016 for quality education and specialization in its different core branches such as organic chemistry, inorganic chemistry, physical chemistry, analytical and applied chemistry. With highly qualified and internationally engaged faculty, well-equipped laboratories and resource rich library facilities, the Department of Chemistry is striving to prepare students for national and international challenging research problems and internships to fine tune their intellectual capabilities and technical skills.

Vision

The department of chemistry at KFUEIT dreams to accomplish high distinction in teaching and research, to produce chemistry experts of international level proficiencies and to build up a world class centre of excellence in teaching and research within the industrial triangle of Southern Punjab.



Labs Facilities / Instruments

- UV-Visible
- Rotatory Evaporators
- pH meters
- Conductometers
- Furnaces
- UV-Lamps
- Digital Melting Point
- Hot Plates
- Water Distillation Apparatus
- Incubators
- Centrifuge Machines
- Abbes Refractometer
- Flame Photometer

Upcomming Instruments

- Atomic Absorption Spectrometer
- UV-Visible Spectrometers
- 400 MHz NMR Spectrometer
- FTIR
- HPLC

Key Facts

- PhD Faculty Members: 18
- Teaching Assistant (MPhil): 01
- Non-Teaching Staff: 06



Mission

To achieve the vision: the mission of the department of chemistry at KFUEIT is to make significant contribution towards education, research and practice in the field of chemistry. The department of chemistry is determinant to help each student to achieve his/her academic potential by creating environment that promotes;

- rigorous curriculum and hands-on experiences which can prepare students to enter industry, academia and professional programs.
- broad understanding of chemistry with critical thinking and effective oral and written communication.
- high ethical standards in education and research.
- use of modern educational technology during lecture and laboratory courses.
- supporting scientific inquiries by individual faculty and student investigators.
- promoting the development of innovative & interdisciplinary projects to apply discoveries and inventions to other fields.
- strategic partnerships with other departments, academic institutions and relevant industries at national & international level for creation and dissemination of knowledge.



Programs being offered

BS Chemistry	BS Zoology
BS Biochemistry	MSc Chemistry
BS Biotechnology	MS Chemistry
BS Forensic Science	PhD Chemistry
BS Botany	

Scheme of Study

BS Chemistry

Semester 1

S. No.	Course Code	Course Title	Credit Hrs.	
			Theory	Lab
1	ENGL-1118	Functional English	3	0
2	MATH-1111	Mathematics-I	3	0
3	PAKS-1113	Pakistan Studies	2	0
4	CHEM-1151	Inorganic Chemistry	3	0
5	CHEM-1251	Inorganic Chemistry-Lab	0	1
6	ZOOL-1171	Zoology	3	0
7	HLTH-1113	Basic Health Awareness	2	0
Total Credit Hours			16	

Semester 2

S. No.	Course Code	Course Title	Credit Hrs.	
			Theory	Lab
1	ISLS-1112	Islamic Studies	2	0
	ETIC-1112	Ethics		
2	ENGL-1119	Communication Skills	3	0
3	BTNY-1101	Botany	3	0
4	CHEM-1162	Organic Chemistry	3	0
5	CHEM-1262	Organic Chemistry-Lab	0	1
6	MATH-1112	Mathematics-II	3	0
7	SSCI-3120	Constitution & Legal System of Pakistan	2	0
Total Credit Hours			17	

Semester 3

S. No.	Course Code	Course Title	Credit Hrs.	
			Theory	Lab
1	COSC-1105	Introduction to ICT	2	0
2	COSC-1205	Introduction to ICT-Lab	0	1
3	ENGL-2111	Technical Writing and Presentation Skills	3	0
4	CHEM-2171	Physical Chemistry	3	0
5	CHEM-2271	Physical Chemistry-Lab	0	1
6	ECON-2118	Applied Economics	3	0
7	STAT-2104	Probability and Statistics	3	0
8	CHEM-1582	Applied Engineering Chemistry-I	2	0
Total Credit Hours			18	

Semester 4

S. No.	Course Code	Course Title	Credit Hrs.	
			Theory	Lab
1	CHEM-2112	Analytical Chemistry	3	0
2	CHEM-2212	Analytical Chemistry-Lab	0	1
3	CHEM-2122	Industrial Chemistry	3	0
4	CHEM-2132	Biochemistry	3	0
5	PHYS-2126	Applied Physics	3	0
6	CHEM-2119	Code of Ethics for Physical Sciences	3	0
Total Credit Hours			16	

Semester 5

S. No.	Course Code	Course Title	Credit Hrs.	
			Theory	Lab
1	CHEM-3151	Basic Inorganic Chemistry-I	3	0
2	CHEM-3251	Basic Inorganic Chemistry-I-Lab	0	1
3	CHEM-3161	Basic Organic Chemistry-I	3	0
4	CHEM-3261	Basic Organic Chemistry-I-Lab	0	1
5	CHEM-3171	Basic Physical Chemistry-I	3	0
6	CHEM-3271	Basic Physical Chemistry-I-Lab	0	1
7*	CHEM-3111	Basic Analytical Chemistry-I	3	0
	CHEM-3121	Basic Applied Chemistry-I		
8*	CHEM-3211	Basic Analytical Chemistry-I		
	CHEM-3221	Basic Applied Chemistry-I-Lab	0	1
Total Credit Hours			16	

Semester 6

S. No.	Course Code	Course Title	Credit Hrs.	
			Theory	Lab
1	CHEM-3152	Basic Inorganic Chemistry-II	3	0
2	CHEM-3252	Basic Inorganic Chemistry-II-Lab	0	1
3	CHEM-3162	Basic Organic Chemistry-II	3	0
4	CHEM-3262	Basic Organic Chemistry-II-Lab	0	1
5	CHEM-3172	Basic Physical Chemistry-II	3	0
6	CHEM-3272	Basic Physical Chemistry-II-Lab	0	1
7	CHEM-3181	Computer Applications in Chemistry	1	0
8	CHEM-3281	Computer Applications in Chemistry-Lab	0	1
9*	CHEM-3112	Basic Analytical Chemistry-II	3	0
	CHEM-3122	Basic Applied Chemistry-II		
	CHEM-3132	Basic Biochemistry-II		
10*	CHEM-3212	Basic Analytical Chemistry-II-Lab	0	1
	CHEM-3222	Basic Applied Chemistry-II-Lab		
	CHEM-3232	Basic Biochemistry-II-Lab		
Total Credit Hours			18	

Specialization in Analytical Chemistry

Semester 7

S. No.	Course Code	Course Title	Credit Hrs.	
			Theory	Lab
1	CHEM-4111	Advanced Analytical Chemistry-I	3	0
2	CHEM-4112	Advanced Analytical Chemistry-II	3	0
3	CHEM-4113	Advanced Analytical Chemistry-III	3	0
4	CHEM-4114	Advanced Analytical Chemistry-IV	3	0
5	CHEM-4211	Advanced Analytical Lab-I	0	2
6	CHEM-4582	Applied Engineering Chemistry-II	2	0
Total Credit Hours			16	

Semester 8

S. No.	Course Code	Course Title	Credit Hrs.	
			Theory	Lab
1	CHEM-4115	Advanced Analytical Chemistry-V	3	0
2	CHEM-4116	Advanced Analytical Chemistry-VI	3	0
3	CHEM-4117	Advanced Analytical Chemistry-VII	3	0
4	CHEM-4212	Advanced Analytical Lab-II	0	2
5	CHEM-4181	Environmental Chemistry	2	0
	CHEM-4611	Research / Review Report	3	0
Total Credit Hours			16	

Program Total Credit Hours

16

Program Total Credit Hours

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Specialization in Inorganic Chemistry

Semester 7

S. No.	Course Code	Course Title	Credit Hrs.	
			Theory	Lab
1	CHEM-4151	Advanced Inorganic Chemistry-I	3	0
2	CHEM-4152	Advanced Inorganic Chemistry-II	3	0
3	CHEM-4153	Advanced Inorganic Chemistry-III	3	0
4	CHEM-4154	Advanced Inorganic Chemistry-IV	3	0
5	CHEM-4251	Advanced Inorganic Lab-I	0	2
6	CHEM-4582	Applied Engineering Chemistry	2	0
Total Credit Hours			16	

Semester 8

S. No.	Course Code	Course Title	Credit Hrs.	
			Theory	Lab
1	CHEM-4155	Advanced Inorganic Chemistry-V	3	0
2	CHEM-4156	Advanced Inorganic Chemistry-VI	3	0
3	CHEM-4157	Advanced Inorganic Chemistry-VII	3	0
4	CHEM-4252	Advanced Inorganic Lab -II	0	2
5	CHEM-4181	Environmental Chemistry	2	0
6	CHEM-4611	Research / Review Report	3	0
Total Credit Hours			16	

Program Total Credit Hours

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Specialization in Organic Chemistry

Semester 7

S. No.	Course Code	Course Title	Credit Hrs.	
			Theory	Lab
1	CHEM-4161	Advanced Organic Chemistry-I	3	0
2	CHEM-4162	Advanced Organic Chemistry-II	3	0
3	CHEM-4163	Advanced Organic Chemistry-III	3	0
4	CHEM-4164	Advanced Organic Chemistry-IV	3	0
5	CHEM-4261	Advanced Organic Lab -I	0	2
6	CHEM-4582	Applied Engineering Chemistry-II	2	0
Total Credit Hours			16	

Semester 8

S. No.	Course Code	Course Title	Credit Hrs.	
			Theory	Lab
1	CHEM-4165	Advanced Organic Chemistry-V	3	0
2	CHEM-4166	Advanced Organic Chemistry-VI	3	0
3	CHEM-4167	Advanced Organic Chemistry-VII	3	0
4	CHEM-4262	Advanced Organic Lab-II	0	2
5	CHEM-4181	Environmental Chemistry	2	0
6	CHEM-4611	Research / Review Report	3	0
Total Credit Hours			16	

Program Total Credit Hours

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Specialization in Physical Chemistry

Semester 7

S. No.	Course Code	Course Title	Credit Hrs.	
			Theory	Lab
1	CHEM-4171	Advanced Physical Chemistry-I	3	0
2	CHEM-4172	Advanced Physical Chemistry-II	3	0
3	CHEM-4173	Advanced Physical Chemistry-III	3	0
4	CHEM-4174	Advanced Physical Chemistry-IV	3	0
5	CHEM-4271	Advanced Physical Lab-I	0	2
6	CHEM-4582	Applied Engineering Chemistry	2	0
Total Credit Hours			16	

Semester 8

S. No.	Course Code	Course Title	Credit Hrs.	
			Theory	Lab
1	CHEM-4175	Advanced Physical Chemistry-V	3	0
2	CHEM-4176	Advanced Physical Chemistry-VI	3	0
3	CHEM-4177	Advanced Physical Chemistry-VII	3	0
4	CHEM-4272	Advanced Physical Lab-II	0	2
5	CHEM-4181	Environmental Chemistry	2	0
6	CHEM-4671	Research / Review Report	3	0
Total Credit Hours			16	

Program Total Credit Hours

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Specialization in Applied Chemistry

Semester 7

S. No.	Course Code	Course Title	Credit Hrs.	
			Theory	Lab
1	CHEM-4121	Advanced Applied Chemistry-I	3	0
2	CHEM-4122	Advanced Applied Chemistry-II	3	0
3	CHEM-4123	Advanced Applied Chemistry-III	3	0
4	CHEM-4124	Advanced Applied Chemistry-IV	3	0
5	CHEM-4221	Advanced Applied Lab-I	0	2
6	CHEM-4582	Applied Engineering Chemistry-II	2	0
Total Credit Hours			16	

Semester 8

S. No.	Course Code	Course Title	Credit Hrs.	
			Theory	Lab
1	CHEM-4125	Advanced Applied Chemistry-V	3	0
2	CHEM-4126	Advanced Applied Chemistry-VI	3	0
3	CHEM-4127	Advanced Applied Chemistry-VII	3	0
4	CHEM-4222	Advanced Applied Lab -II	0	2
5	CHEM-4181	Environmental Chemistry	2	0
6	CHEM-4621	Research / Review Report	3	0
Total Credit Hours			16	

MSc Chemistry

Semester 1

S. No.	Course Code	Course Title	Credit Hrs.	Contact Hrs.
			Th+Lab	Th+Lab
1	CHEM-3151	Basic Inorganic Chemistry-I	3	0
2	CHEM-3251	Basic Inorganic Chemistry-I	0	1
3	CHEM-3161	Basic Organic Chemistry-I	3	0
4	CHEM-3261	Basic Organic Chemistry-I	0	1
5	CHEM-3171	Basic Physical Chemistry-I	3	0
6	CHEM-3271	Basic Physical Chemistry-I	0	1
7	MATH-3101	Mathematics in Chemistry	2	0
8*	CHEM-3111	Basic Analytical Chemistry-I	3	0
	CHEM-3121	Basic Applied Chemistry-I		
	CHEM-3131	Basic Biochemistry-I		
9*	CHEM-3211	Basic Analytical Chemistry-I	0	1
	CHEM-3221	Basic Applied Chemistry-I		
	CHEM-3231	Basic Biochemistry-I		
Total Credit Hours			14	11
Total Credit Hours			18	

*Electives: Only one subject/availability of resources or faculty in department

Semester 2

S. No.	Course Code	Course Title	Credit Hrs.	Contact Hrs.
			Th+Lab	Th+Lab
1	CHEM-3152	Basic Inorganic Chemistry-II	3	0
2	CHEM-3252	Basic Inorganic Chemistry-II	0	1
3	CHEM-3162	Basic Organic Chemistry-II	3	0
4	CHEM-3262	Basic Organic Chemistry-II	0	1
5	CHEM-3172	Basic Physical Chemistry-II	3	0
6	CHEM-3272	Basic Physical Chemistry-II	0	1
7	CHEM-3181	Computer Applications in Chemistry	1	0
8	CHEM-3281	Computer Applications in Chemistry	1	0
9*	CHEM-3112	Basic Analytical Chemistry-II	3	0
	CHEM-3122	Basic Applied Chemistry-II		
	CHEM-3132	Basic Biochemistry-II		
10*	CHEM-3212	Basic Analytical Chemistry-II	0	1
	CHEM-3222	Basic Applied Chemistry-II		
	CHEM-3232	Basic Biochemistry-II		
Total Credit Hours			14	4
Total Credit Hours			18	

*Electives

Specialization in Analytical Chemistry

Semester 3

S. No.	Course Code	Course Title	Credit Hrs.	Contact Hrs.
			Th+Lab	Th+Lab
1	CHEM-4111	Advanced Analytical Chemistry-I	3	0
2	CHEM-4112	Advanced Analytical Chemistry-II	3	0
3	CHEM-4113	Advanced Analytical Chemistry-III	3	0
4	CHEM-4114	Advanced Analytical Chemistry-IV	3	0
5	CHEM-4211	Advanced Analytical Practical-I	0	2
6	CHEM-4581	Applied Engineering Chemistry	2	0
7	CHEM-4181	Environmental Chemistry	2	0
Total Credit Hours			16	2
Total Credit Hours			18	

Semester 4

S. No.	Course Code	Course Title	Credit Hrs.	Contact Hrs.
			Th+Lab	Th+Lab
1	CHEM-4115	Advanced Analytical Chemistry-V	3	0
2	CHEM-4116	Advanced Analytical Chemistry-VI	3	0
3	CHEM-4117	Advanced Analytical Chemistry-VII	3	0
4	CHEM-4212	Advanced Analytical Practical-II	0	2
5	CHEM-4611	Research / Review Report	3	0
Total Credit Hours			12	02
Total Credit Hours			14	

Specialization in Inorganic Chemistry

Semester 3

S. No.	Course Code	Course Title	Credit Hrs.	Contact Hrs.
			Th+Lab	Th+Lab
1	CHEM-4151	Advanced Inorganic Chemistry-I	3	0
2	CHEM-4152	Advanced Inorganic Chemistry-II	3	0
3	CHEM-4153	Advanced Inorganic Chemistry-III	3	0
4	CHEM-4154	Advanced Inorganic Chemistry-IV	3	0
5	CHEM-4251	Advanced Inorganic Practical-I	0	2
6	CHEM-4581	Applied Engineering Chemistry	2	0
7	CHEM-4181	Environmental Chemistry	2	0
Total Credit Hours			16	02
Total Credit Hours			18	

Semester 4

S. No.	Course Code	Course Title	Credit Hrs.	Contact Hrs.
			Th+Lab	Th+Lab
1	CHEM-4155	Advanced Inorganic Chemistry-V	3	0
2	CHEM-4156	Advanced Inorganic Chemistry-VI	3	0
3	CHEM-4157	Advanced Inorganic Chemistry-VII	3	0
4	CHEM-4252	Advanced Inorganic Practical-II	0	2
5	CHEM-4651	Research / Review Report	3	0
Total Credit Hours			14	

"To get what you love, you must first be patient with what you hate"

- Al Ghazali

Specialization in Organic Chemistry

Semester 3

S. No.	Course Code	Course Title	Credit Hrs.	Contact Hrs.
			Th+Lab	Th+Lab
1	CHEM-4161	Advanced Organic Chemistry-I	3	0
2	CHEM-4162	Advanced Organic Chemistry-II	3	0
3	CHEM-4163	Advanced Organic Chemistry-III	3	0
4	CHEM-4164	Advanced Organic Chemistry-IV	3	0
5	CHEM-4261	Advanced Organic Practical-I	0	2
6	CHEM-4581	Applied Engineering Chemistry	2	0
7	CHEM-4181	Environmental Chemistry	2	0
Total Credit Hours			18	

Semester 4

S. No.	Course Code	Course Title	Credit Hrs.	Contact Hrs.
			Th+Lab	Th+Lab
1	CHEM-4165	Advanced Organic Chemistry-V	3	0
2	CHEM-4166	Advanced Organic Chemistry-VI	3	0
3	CHEM-4167	Advanced Organic Chemistry-VII	3	0
4	CHEM-4262	Advanced Organic Practical-II	0	2
5	CHEM-4661	Research/ Review Report	3	0
Total Credit Hours			14	

Specialization in Physical Chemistry

Semester 3

S. No.	Course Code	Course Title	Credit Hrs.	Contact Hrs.
			Th+Lab	Th+Lab
1	CHEM-4171	Advanced Physical Chemistry-I	3	0
2	CHEM-4172	Advanced Physical Chemistry-II	3	0
3	CHEM-4173	Advanced Physical Chemistry-III	3	0
4	CHEM-4174	Advanced Physical Chemistry-IV	3	0
5	CHEM-4271	Advanced Physical Practical-I	0	2
6	CHEM-4581	Applied Engineering Chemistry	2	0
7	CHEM-4181	Environmental Chemistry	2	0
Total Credit Hours			18	

Semester 4

S. No.	Course Code	Course Title	Credit Hrs.	Contact Hrs.
			Th+Lab	Th+Lab
1	CHEM-4175	Advanced Physical Chemistry-V	3	0
2	CHEM-4176	Advanced Physical Chemistry-VI	3	0
3	CHEM-4177	Advanced Physical Chemistry-VII	3	0
4	CHEM-4272	Advanced Physical Practical-II	0	2
5	CHEM-4671	Research / Review Report	3	0
Total Credit Hours			14	

Specialization in Applied Chemistry

Semester 3

S. No.	Course Code	Course Title	Credit Hrs.	Contact Hrs.
			Th+Lab	Th+Lab
1	CHEM-4121	Advanced Applied Chemistry-I	3	0
2	CHEM-4122	Advanced Applied Chemistry-II	3	0
3	CHEM-4123	Advanced Applied Chemistry-III	3	0
4	CHEM-4124	Advanced Applied Chemistry-IV	3	0
5	CHEM-4221	Advanced Applied Practical-I	0	2
6	CHEM-4581	Applied Engineering Chemistry	2	0
7	CHEM-4181	Environmental Chemistry	2	0
Total Credit Hours			18	

Semester 4

S. No.	Course Code	Course Title	Credit Hrs.	Contact Hrs.
			Th+Lab	Th+Lab
1	CHEM-4125	Advanced Applied Chemistry-V	3	0
2	CHEM-4126	Advanced Applied Chemistry-VI	3	0
3	CHEM-4127	Advanced Applied Chemistry-VII	3	0
4	CHEM-4222	Advanced Applied Practical-II	0	2
5	CHEM-4621	Research / Review Report	3	0
Total Credit Hours			14	

BS Biochemistry

Semester 1

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	ENGL-1118	Functional English	3	0	3
2	PAKS-1113	Pakistan Studies	2	0	2
3	MATH-1111	Mathematics-I	3	0	3
4	HLTH-1113	Basic Health Awareness	2	0	2
5	CHEM-1162	Organic Chemistry	3	0	3
6	CHEM-1262	Organic Chemistry-Lab	0	1	1
7	BOCH-1101	Introductory Biochemistry	3	0	3
8	BOCH-1201	Introductory Biochemistry-Lab	0	1	1
Total Credit Hours			16	2	18

Semester 2

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	ENGL-1119	Communication Skills	3	0	3
2	ISLS-1112	Islamic Studies	2	0	2
3	CHEM-1151	Inorganic Chemistry	3	0	3
4	CHEM-1251	Inorganic Chemistry-Lab	0	1	1
5	SSCI-3120	Constitution & Legal System of Pakistan	2	0	2
6	MATH-1112	Mathematics-II	3	0	3
7	BOCH-1103	Carbohydrates & Lipids	2	0	2
8	BOCH-1203	Carbohydrates & Lipids-Lab	0	1	1
Total Credit Hours			15	12	17

Semester 3

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	ENGL-2111	Technical Writing and Presentation Skills	3	0	3
2	ECON-2118	Applied Economics	3	0	3
3	BOCH-2103	Proteins & Amino Acids	2	0	2
4	BOCH-2203	Proteins & Amino Acids-Lab	0	1	1
5	CHEM-2112	Analytical Chemistry	3	0	3
6	CHEM-2212	Analytical Chemistry-Lab	0	1	1
7	STAT-2104	Probability and Statistics	3	0	3
Total Credit Hours			14	2	16

Semester 4

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	BIOL-2102	Genetics	3	0	3
2	BOCH-2104	Human Physiology	3	0	3
3	CHEM-2171	Physical Chemistry	3	0	3
4	BIOL-2103	Microbiology	2	0	2
5	BIOL-2203	Microbiology-Lab	0	1	1
6	BOCH-2105	Enzymology	2	0	2
7	BOCH-2205	Enzymology-Lab	0	1	1
8	BOCH-2106	Immunology	3	0	3
Total Credit Hours			16	2	18

Semester 5

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	BOCH-3107	Metabolism	4	0	4
2	BOCH-3108	Molecular Biochemistry	3	0	3
3	BOCH-3109	Nutritional Biochemistry	2	0	2
4	BOCH-3110	Environmental Biochemistry	2	0	2
5	BOCH-3111	Bioenergetics	2	0	2
6	COSC-1105	Introduction to ICT	2	0	2
7	COSC-1205	Introduction to ICT-Lab	0	1	1
Total Credit Hours			15	1	16

Semester 6

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	BOCH-3112	Industrial Biochemistry	2	0	2
2	BOCH-3212	Industrial Biochemistry-Lab	0	1	1
3	BOCH-3113	Clinical Biochemistry	2	0	2
4	BOCH-3213	Clinical Biochemistry-Lab	0	1	1
5	BOCH-3114	Techniques in Molecular Biology	2	0	2
6	BOCH-3214	Techniques in Molecular Biology-Lab	0	1	1
7	MSCI-4101	Marketing Management	3	0	3
8	BOCH-3115	Plant Biochemistry	2	0	2
9	BOCH-3215	Plant Biochemistry-Lab	0	1	1
10	BOCH-3116	Internship	3	0	3
Total Credit Hours			14	4	18

Semester 7

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	BOCH-4117	Research Projects and Scientific Writing	3	0	3
2	BOCH-4118	Biomembranes & Cell	3	0	3
3	BIOI-2101	Signaling	2	0	2
4	BIOI-2201	Introduction to Bioinformatics	0	1	1
5	BOCH-	Introduction to Bioinformatics-Lab	3	0	3
6	BOCH-	Elective-I	3	0	3
Total Credit Hours			14	1	15

Semester 8

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	BOCH-4119	Current Trends in Biochemistry	3	0	3
2	BOCH-4120	Review Report	3	0	3
3	BOCH-4121	Seminar	1	0	1
4	BIOI-2101	Biosafety & Ethics	2	0	2
5	BOCH-	Elective-III	3	0	3
6	BOCH-	Elective-IV	3	0	3
Total Credit Hours			15	0	15

List of Elective Courses

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	BOCH-4130	Cancer Biology	3	0	3
2	BIOI-3103	Genomics	3	0	3
3	BIOI-3105	Proteomics	3	0	3
4	BOCH-4131	General Virology	3	0	3
5	BOCH-4132	Antimicrobials & Chemotherapeutics	3	0	3
6	BOCH-4133	Structural Biology	3	0	3
7	BIOT-4121	Fermentation Biotechnology	3	0	3
8	BOCH-4134	Toxicology	3	0	3

“Desires make slaves out of kings and patience makes kings out of slaves”

- Al-Ghazali

BS Biotechnology

Semester 1

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	ENGL-1118	Functional English	3	0	3
2	PAKS-1113	Pakistan Studies	2	0	2
3	MATH-1111	Mathematics-I	3	0	3
4	HLTH-1113	Basic Health Awareness	2	0	2
5	CHEM-1162	Organic Chemistry	3	0	3
6	CHEM-1262	Organic Chemistry-Lab	0	1	1
7	BOCH-1102	Cell Biology	2	0	2
8	BOCH-1202	Cell Biology-Lab	0	1	1
Total Credit Hours			15	2	17

Semester 2

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	ENGL-1119	Communication Skills	3	0	3
2	ISLS-1112	Islamic studies	2	0	2
3	MATH-1112	Mathematics-II	3	0	3
4	CHEM-1151	Inorganic Chemistry	3	0	3
5	CHEM-1251	Inorganic Chemistry-Lab	0	1	1
6	BTNY-1107	Botany	3	0	3
7	BIOT-1101	Introduction to Biotechnology	3	0	3
Total			17	1	18

Semester 3

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	ENGL-2111	Technical Writing and Presentation Skills	3	0	3
2	COSC-1105	Introduction to ICT	2	0	2
3	COSC-1205	Introduction to ICT-Lab	0	1	1
4	STAT-2104	Probability and Statistics	3	0	3
5	CHEM-2114	Analytical chemistry & Instrumentation	2	0	2
6	CHEM-2214	Analytical chemistry & Instrumentation-Lab	0	1	1
6	BOCH-3107	Analytical chemistry & Instrumentation-Lab Metabolism	4	0	4
Total Credit Hours			15	1	16

Semester 4

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	CHEM-2171	Physical Chemistry	0	0	3
2	ZOOL-1171	Probability & Biostatistics	0	0	3
3	SSCI-3120	Constitution & Legal System of Pak	0	0	2
4	BIOL-2102	Genetics	0	0	3
5	BIOL-2203	Microbiology	0	0	2
6	BIOT-2101	Microbiology	0	1	1
7		Food Biotechnology	1	0	3
Total Credit Hours			16	1	17

Semester 5

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	BIOT-3101	Principles of Biochemical Engineering	2	0	2
	BIOT-3201	Principles of Biochemical Engineering-Lab	0	1	1
2	BIOT-3102	Agricultural Biotechnology	2	0	2
3	BIOT-3202	Agricultural Biotechnology-Lab	0	1	1
4	BIOL-2154	Molecular Biology	3	0	3
5	ECON-2118	Applied Economics	3	0	3
6	BIOT-3103	Microbial Biotechnology	3	0	3
7	BIOT-3104	Seminar-I	1	0	1
8					
Total Credit Hours			14	2	16

Semester 6

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	MSCI-4101	Marketing Management	3	0	3
2	BOCH-3114	Immunology	3	0	3
3	BIOT-3105	Genetic Resources & Conservation	3	0	3
	BOCH-3115	Techniques in Molecular Biology	2	0	2
4	BOCH-3215	Techniques in Molecular Biology-Lab	0	1	1
5	BIOT-3106	Internship	3	0	3
6	BIOL-2101	Introduction to Bioinformatics	2	0	2
7	BIOL-2201	Introduction to Bioinformatics-Lab	0	1	1
8					
Total Credit Hours			16	2	18

Semester 7

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	BIOT-4101	Genomics & Proteomics	3	0	3
2	BIOT-4102	Research Projects and Scientific Writing	3	0	3
3	BIOT-4103	Health Biotechnology	3	0	3
4	BIOT-4104	Environmental Biotechnology	3	0	3
5					
Total Credit Hours			15	0	15

Semester 8

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	BIOT-4105	Seminar-II	1	0	1
2	BIOT-4106	Industrial Biotechnology	3	0	3
3	BOCH-2105	Biosafety & Ethics	2	0	2
4	BIOT-4107	Research Project/Review Report	3	0	3
5	BIOT-	Elective-II	3	0	3
6	BIOT-	Elective-III	3	0	3
Total Credit Hours			15	0	15

GRAND TOTAL

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جھپٹنا، پلٹنا، پلٹ کر جھپٹنا
 لہو گرم رکھنے کا ہے اک بہانہ
 حضرت علامہ محمد اقبال

List of Elective Courses

S. No.	Course Code	Course Title	Credits
1	BIOT-4108	Animal Biotechnology	3
2	BIOT-4109	Nano Biotechnology	3
3	BIOT-4110	Fungal Biotechnology	3
4	BIOT-4111	Pharmaceutical Biotechnology	3
5	BIOT-4112	Biosensors	3
6	BIOT-4113	BioFuels & Biorefineries	3
7	BIOT-4114	Cell & Tissue Culture	3
8	BIOT-4115	Virology	3
9	BIOT-4116	Fermentation Biotechnology	3
10	BIOT-4117	Glycobiology	3
11	FOSC-1101	Fundamental of Forensic Science	3

“The nation will find it very hard to look up to the leaders who are keeping their ears to grounds”

-Sir Winston Churchill

BS Forensic Sciences

Semester 1

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	ENGL-1118	Functional English	3	0	3
2	PAKS-1113	Pakistan Studies	2	0	2
3	MATH-1111	Mathematics-I	3	0	3
4	HLTH-1113	Basic Health Awareness	2	0	2
5	CHEM-1162	Organic Chemistry	3	0	3
6	CHEM-1262	Organic Chemistry-Lab	0	1	1
7	FOSC-1101	Fundamentals of Forensic Science	3	0	3
Total Credit Hours			16	1	17

Semester 2

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	ENGL-1119	Communication Skills	3	0	3
2	ISLS-1112	Islamic studies	2	0	2
3	CHEM-2171	Physical Chemistry	3	0	3
4	SSCI-3120	Constitution & Legal System of Pakistan	2	0	2
5	MATH-1112	Mathematics-II	3	0	3
6	BOCH-1101	Introductory Biochemistry	3	0	3
7	BOCH-1201	Introductory Biochemistry-Lab	0	1	1
Total Credit Hours			16	1	17

Semester 3

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	ENGL-2111	Technical Writing and Presentation Skills	3	0	3
2	COSC-1105	Introduction to ICT	0	1	1
3	COSC-1205	Introduction to ICT-Lab	2	0	2
4	FOSC-2101	Crime Scene Investigation	0	1	1
5	FOSC-2201	Crime Scene Investigation	2	0	2
6	FOSC-2102	Analytical techniques in Forensic Science	0	1	1
7	FOSC-2202	Analytical techniques in Forensic Science-Lab	2	0	2
8	BIOL-2101	Biosafety & Ethics	3	0	3
9	BIOL-2102	Genetics			
Total Credit Hours			14	3	17

Semester 4

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	BOCH-2104	Human Physiology	3	0	3
2	CHEM-1151	Inorganic Chemistry	3	0	3
3	CHEM-1251	Inorganic Chemistry-Lab	0	1	1
4	BIOL-2103	Microbiology	2	0	2
5	BIOL-2203	Microbiology-Lab	0	1	1
6	FOSC-2103	Trace Evidence	2	0	2
7	FOSC-2203	Trace Evidence-Lab	0	1	1
8	FOSC-2104	Mammalian Pharmacology	3	0	3
Total Credit Hours			13	3	16

Semester 5

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	BIOL-2154	Molecular Biology	3	0	3
2	FOSC-3101	Forensic Chemistry	2	0	2
3	FOSC-3201	Forensic Chemistry-Lab	0	1	1
4	FOSC-3102	Forensic serology and DNA	2	0	2
5	FOSC-3202	Forensic serology and DNA-Lab	0	1	1
6	ECON-2118	Applied Economics	3	0	3
7	FOSC-3103	Forensic Toxicology	2	0	2
8	FOSC-3203	Forensic Toxicology-Lab	0	1	1
Total Credit Hours			12	3	15

Semester 6

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	BOCH-3114	Techniques in Molecular Biology	2	0	2
2	BOCH-3214	Techniques in Molecular Biology-Lab	0	1	1
3	FOSC-3104	Forensic Bioinformatics	2	0	2
4	FOSC-3204	Forensic Bioinformatics-Lab	0	1	1
5	FOSC-3105	Forensic Photography	2	0	2
6	FOSC-3205	Forensic Photography-Lab	0	1	1
7	MSCI-4101	Marketing Management	3	0	3
8	FOSC-3106	Law and Criminal Procedure	2	0	2
9	FOSC-3107	Internship/ Research Project	2	0	2
Total Credit Hours			13	3	16

Semester 7

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	FOSC-4101	Research Projects and Scientific Writing	3	0	3
2	FOSC-4102	Finger Prints Analysis	2	0	2
3	FOSC-4202	Finger Prints Analysis-Lab	0	1	1
4	STAT-2104	Probability and Statistics	3	0	3
5	FOSC-	Elective-I	3	0	3
6	FOSC-	Elective-II	3	0	3
7					
Total Credit Hours			14	1	15

Semester 8

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	FOSC-4103	Forensic Psychology	3	0	3
2	FOSC-4104	Current Trends in Forensic Science	3	0	3
3	FOSC-4105	Review Report	3	0	3
4	FOSC-	Elective-III	3	0	3
5	FOSC-	Elective-IV	3	0	3
Total Credit Hours			15	0	15

GRAND TOTAL			115	15	130
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List of Elective Courses

S. No.	Course Code		Theory	Lab	Credits
1	FOSC-4107	Criminal Profiling	3	0	3
2	FOSC-4108	Digital and Documentary Evidence	3	0	3
3	FOSC-4109	Forensic Analysis	3	0	3
4	FOSC-4110	Death Investigation	3	0	3
5	FOSC-4111	Qanun-e-Shahadat Ordinance 1984	3	0	3
6	FOSC-4112	Forensic Pathology	3	0	3
7	FOSC-4113	Forensic Anthropology	3	0	3
8	FOSC-4114	Nano Forensics	3	0	3

BS Botany

Semester 1

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	ENGL-1118	Functional English	3	0	3
2	PAKS-1113	Pakistan Studies	2	0	2
3	MATH-1111	Mathematics-I	3	0	3
4	HLTH-1113	Basic Health Awareness	2	0	2
5	BTNY-1103	Diversity of Plants	3	0	3
6	BTNY-1203	Diversity of Plants-Lab	0	1	1
7	ZOOL-1101	Principles in Animal Life-I	3	0	3
Total Credit Hours			16	1	17

Semester 2

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	ENGL-1119	Communication Skills	3	0	3
2	ISLS-1112	Islamic Studies	2	0	2
3	CHEM-1162	Organic Chemistry	3	0	3
4	CHEM-1262	Organic Chemistry-Lab	0	1	1
5	SSCI-3120	Constitution & Legal System of Pakistan	2	0	2
6	BTNY-1102	Plant Systematics, Anatomy and Development	3	0	3
7	BTNY-1202	Plant Systematics, Anatomy and Development-Lab	0	1	1
8	ZOOL-1102	Principles in Animal Life-II	3	0	3
Total Credit Hours			16	2	18

Semester 3

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	ENGL-2111	Technical Writing and Presentation Skills	3	0	3
2	COSC-1105	Introduction to ICT	2	0	2
3	COSC-1205	Introduction to ICT-Lab	0	1	1
4	ZOOL-2103	Animal Diversity-I(Invertebrates)	3	0	3
5	STAT-2104	Probability and Statistics	3	0	3
6	BTNY-2105	Cell Biology, Genetics and Evolution	3	0	3
7	BTNY-2205	Cell Biology, Genetics and Evolution-Lab	0	1	1
Total Credit Hours			14	2	16

Semester 4

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	BTNY-2104	Plant Physiology and Ecology	3	0	3
2	BTNY-2204	Plant Physiology and Ecology-Lab	0	1	1
3	CHEM-2113	Analytical Chemistry & Instrumentation	2	0	2
4	CHEM-2213	Analytical Chemistry & Instrumentation-Lab	0	1	1
5	ZOOL-2104	Animal Diversity-II (Chordates)	3	0	3
6	BTNY-2106	Biodiversity and Conservation	3	0	3
7	BTNY-2206	Biodiversity and Conservation-Lab	0	1	1
8	BTNY-2108	Plant Systematics	2	0	2
	BTNY-2208	Plant Systematics-Lab	0	1	1
Total Credit Hours			13	4	17

Semester 5

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	BTNY-3107	Bacteriology and Virology	2	0	2
2	BTNY-3207	Bacteriology and Virology-Lab	0	1	1
3	BTNY-3109	Phycology and Bryology	2	0	2
4	BTNY-3209	Phycology and Bryology-Lab	0	1	1
5	BTNY-3111	Mycology and Plant Pathology	2	0	2
6	BTNY-3211	Mycology and Plant Pathology-Lab	0	1	1
7	BTNY-3113	Diversity of Vascular Plants	2	0	2
8	BTNY-3213	Diversity of Vascular Plants-Lab	0	1	1
9	BIOI-2101	Introduction to Bioinformatics-Lab	2	0	2
10	BIOI-2201	Introduction to Bioinformatics-Lab			1
Total Credit Hours			10	4	14

Semester 6

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	BTNY-3110	Plant Anatomy	2	0	2
2	BTNY-3210	Plant Anatomy-Lab	0	1	1
3	BTNY-3112	Plant Genetics-I	2	0	2
4	BTNY-3212	Plant Genetics-I-Lab	0	1	1
5	BTNY-3114	Plant Biochemistry-I	2	0	2
6	BTNY-3214	Plant Biochemistry-I-Lab	0	1	1
7	BTNY-3116	Plant Ecology-I	2	0	2
8	BTNY-3216	Plant Ecology-I-Lab	0	1	1
9'	BTNY-3118	Plant Physiology-I	2	0	2
10	BTNY-3218	Plant Physiology-I-Lab	0	1	1
Total Credit Hours			10	5	15

Semester 7

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	BIOL-2154	Plant Anatomy	3	0	3
2	BTNY-4115	Plant Anatomy-Lab	2	0	2
3	BTNY-4215	Plant Genetics-I	0	1	1
4	BTNY-4117	Plant Genetics-I-Lab	2	0	2
5	BTNY-4217	Plant Biochemistry-I	0	1	1
6	ECON-2118	Plant Biochemistry-I-Lab	3	0	3
7		Plant Ecology-I	3	0	3
		Plant Ecology-I-Lab		0	3
Total Credit Hours			13	2	15

Semester 8

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	BTNY-4120	Plant Genetics-II	2	0	3
2	BTNY-4220	Plant Genetics-II-Lab	0	0	3
3	BTNY-4122	Plant Physiology-II	2	0	3
4	BTNY-4222	Plant Physiology-II-Lab	0	0	3
5	BIOL-2101	Biosafety & Ethics	2	0	3
6	BTNY-4624	Research/ Review Report	3		
7		Elective-III	3		
8		Elective-IV	3		
Total Credit Hours			12	2	17

GRAND TOTAL

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List of Elective Courses

S. No.	Course Code	Course Title	Theory	Pract.	Credits
1	BTNY-4119	Ethnobotany	3	0	3
2	BTNY-4121	Phytoremediation	3	0	3
3	BTNY-4124	Plant Stress Physiology	3	0	3
4	BTNY-4125	Conservation and Management of Plant Re-sources	3	0	3
5	BIOL-4126	Plant Nutrition	3	0	3
6	BTNY-4127	Phytosociology	3	0	3
7	BTNY-4128	Research Projects and Scientific Writing	3	0	3
8	BTNY-4129	Environmental Biology	3	0	3
9	BTNY-4130	Plant Metabolism	3	0	3
10	BTNY-4131	Challenges of a Changing Earth	3	0	3

“The growth and development of people is the highest calling of leadership”

-Harvey Firestone

BS Zoology

Semester 1

S. No.	Course Code	Course Title	Theory	Pract.	Credits
1	ENGL-1118	Functional English	3	0	3
2	PAKS-1113	Pakistan Studies	2	0	2
3	MATH-1111	Mathematics-I	3	0	3
4	HLTH-1113	Basic Health Awareness	2	0	2
5	BTNY-1103	Diversity of Plants	3	0	3
6	ZOOL-1101	Principles of Animal Life-I	3	0	3
7	ZOOL-1201	Principles of Animal Life-I-Lab	0	1	1
Total Credit Hours			16	1	17

Semester 2

S. No.	Course Code	Course Title	Theory	Pract.	Credits
1	ISLS-1112/	Islamic Studies/ Ethics	2	0	2
2	ENGL-1119	Communication Skills	3	0	3
3	SSCI-3120	Constitution and Legal System of Pakistan	2	0	2
4	BTNY-1102	Plant Systematics, Anatomy and Development	3	0	3
5	CHEM-1162	Organic Chemistry	3	0	3
6	CHEM-1262	Organic Chemistry-Lab	0	1	1
7	ZOOL-1102	Principles of Animal Life-II	3	0	3
8	ZOOL-1202	Principles of Animal Life-II-Lab	0	1	1
Total Credit Hours			16	2	18

Semester 3

S. No.	Course Code	Course Title	Theory	Pract.	Credits
1	COSC-1105	Introduction to ICT	2	0	2
2	COSC-1205	Introduction to ICT-Lab	0	1	1
3	ENGL-2111	Technical Writing and Presentation Skills	3	0	3
4	ECON-2118	Applied Economics	3	0	3
5	ZOOL-2103	Animal Diversity-I (Invertebrates)	3	0	3
6	ZOOL-2203	Animal Diversity-I: (Invertebrates)-Lab	0	1	1
7	BTNY-2105	Cell Biology, Genetics and Evolution	3	0	3
8	STAT-2104	Probability and Statistics	3	0	
Total Credit Hours			17	2	19

Semester 4

S. No.	Course Code	Course Title	Theory	Pract.	Credits
1	CHEM-2114	Analytical Chemistry & Instrumentation	2	0	2
2	CHEM-2214	Analytical Chemistry & Instrumentation	0	1	1
3	BTNY-2104	Plant Physiology and Ecology	3	0	3
4	ZOOL-2104	Animal Diversity-II (Chordates)	3	0	3
5	ZOOL-2204	Animal Diversity-II (Chordates)-Lab	0	1	1
6	ZOOL-2105	Animal Form & Function-I	3	0	3
7	ZOOL-2205	Animal Form & Function-I-Lab	0	1	1
8	BOCH-1102	Cell Biology	2	0	2
9	BOCH-1202	Cell Biology-Lab	0	1	1
Total Credit Hours			13	4	17

Semester 5

S. No.	Course Code	Course Title	Theory	Pract.	Credits
1	BOCH-2105	Biosafety and Ethics	2	0	2
2	ZOOL-3101	Animal Form & Function-II	3	0	3
3	ZOOL-3201	Animal Form & Function-II-Lab	0	1	1
4	BOCH-1101	Introductory Biochemistry	3	0	3
5	BOCH-1201	Introductory Biochemistry-Lab	0	1	1
6	ZOOL-3102	Animal Physiology	3	0	3
7	ZOOL-3202	Animal Physiology-Lab	0	1	1
8	ZOOL-3103	Animal Behaviour	3	0	3
Total Credit Hours			14	13	17

Semester 6

S. No.	Course Code	Course Title	Theory	Pract.	Credits
1	ZOOL-3104	Biological Techniques	1	0	1
2	ZOOL-3204	Biological Techniques Lab	0	2	2
3	ZOOL-3105	Evolution & Principles of Systematics	3	0	3
4	ZOOL-3205	Evolution & Principles of Systematics Lab	0	1	1
5	ZOOL-3106	Developmental Biology	3	0	3
6	ZOOL-3206	Developmental Biology-Lab	0	1	1
7	BIOL-2102	Genetics	3	0	3
8	BIOL-2202	Genetics-Lab	0	1	1
Total Credit Hours			10	5	15

Semester 7

S. No.	Course Code	Course Title	Theory	Pract.	Credits
1	ZOOL-4101	Research Projects and Scientific Writing	3	0	3
2	ZOOL-4102	Wildlife	2	0	2
3	ZOOL-4103	Environmental Biology	3	0	3
4	ZOOL-4203	Environmental Biology-Lab	0	1	1
5	ZOOL-	Elective-I	3	0	3
6	ZOOL-	Elective-II	3	1	3
Total Credit Hours			14	2	16

Semester 8

S. No.	Course Code	Course Title	Theory	Pract.	Credits
1	BIOL-2101	Introduction to Bioinformatics	2	0	2
2	BIOL-2201	Introduction to Bioinformatics-Lab	0	1	1
3	ZOOL-4104	Zoogeography & Paleontology	2	0	2
4	ZOOL-4204	Zoogeography & Paleontology Lab	0	1	1
5	ZOOL-	Elective-III	3	0	3
6	ZOOL--	Elective-IV	3	0	3
7	ZOOL-4601	Research / Review Report	3	0	3
Total Credit Hours			13	2	15

GRAND TOTAL

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List of Elective Courses

S. No.	Course Code	Course Title	Theory	Pract.	Credits	S. No.	Course Code	Course Title	Theory	Pract.	Credits
1	ZOOL-4105	Entomology	3	0	3	7	ZOOL-4111	Applied Entomology and Pest Management	3	0	3
2	ZOOL-4106	Applied Microbiology	3	0	3				3	0	3
3	ZOOL-4107	Ichthyology	3	0	3	8	ZOOL-4112	Fish and Aquatic Toxicology	3	0	3
4	ZOOL-4108	Hematology	3	0	3	9	ZOOL-4113	Economic Zoology	3	0	3
5	ZOOL-4109	Biodiversity and Wildlife	3	0	3	10	ZOOL-4114	Biodiversity of Inland and Terrestrial Molluscs	3	0	3
6	ZOOL-4110	Protozoology and Immunology	3	0	3	11					
						12	ZOOL-4115	Neurobiology	3	0	3
							ZOOL-4116	Hematology	3	0	3

MS Chemistry

1 Semester

S. No.	Course Code	Course Title	Credit Hrs. Contact Hrs.	
			Th+Lab	Th+Lab
1	CHEM-5101	Advanced Spectroscopic Techniques	Core	3
2	CHEM-5102	Advanced Chromatographic Techniques	Core	3
3	MSCI-6102	Research Methodology	Core	3
4	CHEM-	Graduate Level Chemistry Course	Elective	3
Total Credit Hours			12	

2 Semester

S. No.	Course Code	Course Title	Credit Hrs. Contact Hrs.	
			Th+Lab	Th+Lab
1	CHEM-	Graduate Level Chemistry Course	Elective	3
2	CHEM-	Graduate Level Chemistry Course	Elective	3
3	CHEM-	Graduate Level Chemistry Course	Elective	3
4	CHEM-	Graduate Level Chemistry Course	Elective	3
Total Credit Hours			12	

Semester-III & IV

S. No.	Course Code	Course Title	Credit Hrs. Contact Hrs.	
			Th+Lab	Th+Lab
1	CHEM-6600	Thesis	Mandatory	12
Total			12	
Total Credit Hours			36	

“The only true wisdom is in knowing you know nothing”

-Socrates

Note: Courses can be swapped according to the resources of the University

List of Courses

Analytical Chemistry

S. No.	Course Code	Course Title	STATUS
1	CHEM-6101	Green Chemistry	Elective
2	CHEM-6102	Atomic Spectroscopy	Elective
3	CHEM-6103	Differential Scanning Calorimetry and Thermo Gravimetry	Elective
4	CHEM-6104	Electroanalytical Techniques	Elective
5	CHEM-6105	Environmental Chemistry	Elective
6	CHEM-6106	Mass Spectrometry in Analytical Chemistry	Elective
7	CHEM-6107	Electronics & Chemistry Instrumentation	Elective
8	CHEM-6108	Polymer Chemistry	Elective
9	CHEM-6109	Surface Analytical Chemistry	Elective
10	CHEM-6110	Food Analytical Chemistry	Elective
11	CHEM-6111	Bioanalytical Chemistry	Elective

Applied Chemistry

S. No.	Course Code	Course Title	STATUS
1	CHEM-6112	Instrumental Analysis for Process Industries	Elective
2	CHEM-6113	Industrial Water Conditioning and Effluent Treatment	Elective
3	CHEM-6114	Functional Food and Nutraceuticals	Elective
4	CHEM-6115	Emulsions and Emulsification	Elective
5	CHEM-6116	Paints and Coatings	Elective
6	CHEM-6117	Renewable Energy Resources	Elective
7	CHEM-6118	Agrochemicals	Elective
8	CHEM-6119	Chemistry of Dyes and Pigments	Elective
9	CHEM-6120	Industrial Polymers	Elective
10	CHEM-6121	Sucrechemistry	Elective
11	CHEM-6122	Petrochemicals	Elective
12	CHEM-6123	Environmental Issues of Chemical Industries	Elective
13	CHEM-6124	Plastics Recycling Industries	Elective

Biochemistry Chemistry

S. No.	Course Code	Course Title	STATUS
1	CHEM-6125	Advanced Cell Biology	Elective
2	CHEM-6126	Biomaterials	Elective
3	CHEM-6127	Regulation of Metabolism in Health and Diseases	Elective
4	CHEM-6128	Antioxidants	Elective
5	CHEM-6129	Gene Expression and Manipulation	Elective
6	CHEM-6130	Recent Trends in Immunology	Elective
7	CHEM-6131	Biochemistry of Disease and Drug Designing	Elective
8	CHEM-6132	Enzymes- Mechanism & Kinetics	Elective
9	CHEM-6133	Applied Biochemistry	Elective
10	CHEM-6134	RNA Processing	Elective
11	CHEM-6135	Proteomics and Protein Engineering	Elective

Inorganic Chemistry

S. No.	Course Code	Course Title	STATUS
1	CHEM-6136	Solid State Chemistry	Elective
2	CHEM-6137	Photochemical Reactions of Transition Metals	Elective
3	CHEM-6138	Applied Transition Metal Catalytic Chemistry	Elective
4	CHEM-6139	Chemistry of Organometallic Compounds	Elective
5	CHEM-6140	Inorganic Electronic Spectroscopy	Elective
6	CHEM-6141	Kinetics and Mechanisms of Inorganic Reactions	Elective
7	CHEM-6142	Bio-Inorganic Chemistry	Elective
8	CHEM-6143	Extractive Metallurgy	Elective
9	CHEM-6144	Medicinal Inorganic Chemistry	Elective
10	CHEM-6145	Nano Chemistry	Elective
11	CHEM-6146	Metal Complexes in Cancer Chemotherapy	Elective
12	CHEM-6147	Inorganic Cage Compounds	Elective

Physical Chemistry

S. No.	Course Code	Course Title	STATUS
1	CHEM-6162	Photochemistry	Elective
2	CHEM-6163	Polymers and Advanced Composite Materials	Elective
3	CHEM-6164	Advanced Chemical Kinetics	Elective
4	CHEM-6165	Group Theory and Symmetry	Elective
5	CHEM-6166	Advanced Quantum Chemistry	Elective
6	CHEM-6167	Luminescence Spectroscopy	Elective
7	CHEM-6168	Radio and Nuclear Chemistry	Elective
8	CHEM-6169	Computational Chemistry	Elective
9	CHEM-6170	Colloidal Chemistry	Elective
10	CHEM-6171	Chemistry of Supramolecules in Physical Chemistry	Elective

Organic Chemistry

S. No.	Course Code	Course Title	STATUS
1	CHEM-6148	Modern Name Reactions in Organic Synthesis	Elective
2	CHEM-6149	A programmed introduction to the synthon approach	Elective
3	CHEM-6150	Protecting Groups in Organic Synthesis	Elective
4	CHEM-6151	Advanced Stereochemistry	Elective
5	CHEM-6152	Nuclear magnetic resonance in organic chemistry	Elective
6	CHEM-6153	Chemistry of Isoprenoids, Steroids and Glycosides	Elective
7	CHEM-6154	Computational Chemistry/Molecular Modeling in Organic Chemistry	Elective
8	CHEM-6155	Chemistry of Organometallic Compounds	Elective
9	CHEM-6156	Reactive Intermediates in Organic Chemistry	Elective
10	CHEM-6157	Pericyclic Reactions	Elective
11	CHEM-6158	Special Topics in Organic Chemistry	Elective
12	CHEM-6159	Medicinal Chemistry	Elective

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حضرت خواجہ غلام فرید

PhD Chemistry

Semester 1

S. No.	Course Code	Course Title	Credit Hrs.		Contact Hrs.	
			Th+Lab	Th+Lab	Th+Lab	Th+Lab
1	CHEM-	Graduate Level Chemistry Course	Elective		3	
2	CHEM-	Graduate Level Chemistry Course	Elective		3	
3	CHEM-	Graduate Level Chemistry Course	Elective		3	
Total Credit Hours			09			

Semester 2

S. No.	Course Code	Course Title	Credit Hrs.		Contact Hrs.	
			Th+Lab	Th+Lab	Th+Lab	Th+Lab
1	CHEM-	Graduate Level Chemistry Course	Elective		3	
2	CHEM-	Graduate Level Chemistry Course	Elective		3	
3	CHEM-	Graduate Level Chemistry Course	Elective		3	
Total Credit Hours			09			

Semester III, IV, V & VI

S. No.	Course Code	Course Title	Credit Hrs.		Contact Hrs.	
			Th+Lab	Th+Lab	Th+Lab	Th+Lab
1	CHEM-8600	Thesis	Mandatory		30	
Total Credit Hours			48			

List of Courses

Analytical Chemistry Courses

S. No.	Course Code	Course Title	Credit Hrs.	Contact Hrs.
			Th+Lab	Th+Lab
1	CHEM-6101	Green Chemistry	Elective	
2	CHEM-6102	Atomic Spectroscopy	Elective	
3	CHEM-6103	Differential Scanning Calorimetry and Thermo Gravimetry	Elective	
4	CHEM-6104	Electroanalytical Techniques	Elective	
5	CHEM-6105	Environmental Chemistry	Elective	
6	CHEM-6106	Mass Spectrometry in Analytical Chemistry	Elective	
7	CHEM-6108	Electronics & Chemistry Instrumentation	Elective	
8	CHEM-6109	Polymer Chemistry	Elective	
9	CHEM-6110	Surface Analytical Chemistry	Elective	
10	CHEM-6111	Food Analytical Chemistry	Elective	
11	CHEM-7101	Bioanalytical Chemistry	Elective	
12	CHEM-7102	Advanced Chemometrics in Analytical Chemistry	Elective	

Applied Chemistry Courses

S. No.	Course Code	Course Title	Credit Hrs.	Contact Hrs.
			Th+Lab	Th+Lab
1	CHEM-6112	Instrumental Analysis for Process Industries	Elective	
2	CHEM-6113	Industrial Water Conditioning and Effluent Treatment	Elective	
3	CHEM-6114	Functional Food and Nutraceuticals	Elective	
4	CHEM-6115	Emulsions and Emulsification	Elective	
5	CHEM-6116	Paints and Coatings	Elective	
6	CHEM-6117	Renewable Energy Resources	Elective	
7	CHEM-6118	Agrochemicals	Elective	
8	CHEM-6119	Chemistry of Dyes and Pigments	Elective	
9	CHEM-6120	Industrial Polymers	Elective	
10	CHEM-6121	Stereochemistry	Elective	
11	CHEM-6122	Petrochemicals	Elective	
12	CHEM-6123	Environmental Issues of Chemical Industries	Elective	
13	CHEM-6124	Plastics Recycling Industries	Elective	
14	CHEM-7103	Pharmaceutical Chemistry	Elective	
15	CHEM-7104	Industrial Catalysis	Elective	

Biochemistry Courses

S. No.	Course Code	Course Title	Credit Hrs.	Contact Hrs.
			Th+Lab	Th+Lab
1	CHEM-6125	Advanced Cell Biology	Elective	
2	CHEM-6126	Biomaterials	Elective	
3	CHEM-6127	Regulation of Metabolism in Health and Diseases	Elective	
4	CHEM-6128	Antioxidants	Elective	
5	CHEM-6129	Gene Expression and Manipulation	Elective	
6	CHEM-6130	Recent Trends in Immunology	Elective	
7	CHEM-6131	Biochemistry of Disease and Drug Designing	Elective	
8	CHEM-6132	Enzymes- Mechanism & Kinetics	Elective	
9	CHEM-6133	Applied Biochemistry	Elective	
10	CHEM-6134	RNA Processing	Elective	
11	CHEM-6135	Proteomics and Protein Engineering	Elective	
12	CHEM-7105	Advanced Fermentation and Biochemical Engineering	Elective	
13	CHEM-7106	Forensic Biochemistry	Elective	

Applied Chemistry Courses

S. No.	Course Code	Course Title	Credit Hrs.	Contact Hrs.
			Th+Lab	Th+Lab
1	CHEM-6136	Solid State Chemistry	Elective	
2	CHEM-6137	Photochemical Reactions of Transition Metals	Elective	
3	CHEM-6138	Applied Transition Metal Catalytic Chemistry	Elective	
4	CHEM-6139	Chemistry of Organometallic Compounds	Elective	
5	CHEM-6140	Inorganic Electronic Spectroscopy	Elective	
6	CHEM-6141	Kinetics and Mechanisms of Inorganic Reactions	Elective	
7	CHEM-6142	Bio-Inorganic Chemistry	Elective	
8	CHEM-6143	Extractive Metallurgy	Elective	
9	CHEM-6144	Medicinal Inorganic Chemistry	Elective	
10	CHEM-6145	Nano Chemistry	Elective	
11	CHEM-6146	Metal Complexes in Cancer Chemotherapy	Elective	
12	CHEM-6147	Inorganic Cage Compounds	Elective	
13	CHEM-7107	Advanced Thermal Analysis	Elective	
14	CHEM-7108	Metal Based Drugs	Elective	

Organic Chemistry Courses

S. No.	Course Code	Course Title	Credit Hrs.	Contact Hrs.
			Th+Lab	Th+Lab
1	CHEM-6148	Modern Name Reactions in Organic Synthesis	Elective	
2	CHEM-6149	A programmed introduction to the synthon approach	Elective	
3	CHEM-6150	Protecting Groups in Organic Synthesis	Elective	
4	CHEM-6151	Advanced Stereochemistry	Elective	
5	CHEM-6152	Nuclear magnetic resonance in organic chemistry	Elective	
6	CHEM-6153	Chemistry of isoprenoids, Steroids and Glycosides	Elective	
7	CHEM-6154	Computational Chemistry/Molecular Modeling in Organic Chemistry	Elective	
8	CHEM-6155	Chemistry of Organometallic Compounds	Elective	
9	CHEM-6156	Reactive Intermediates in Organic Chemistry	Elective	
10	CHEM-6157	Pericyclic Reactions	Elective	
11	CHEM-6159	Special Topics in Organic Chemistry	Elective	
12	CHEM-6160	Medicinal Chemistry	Elective	
13	CHEM-6161	Biosynthesis of Natural Products	Elective	
14	CHEM-7109	Supramolecular Chemistry	Elective	
15	CHEM-7110		Elective	

Physical Chemistry Courses

S. No.	Course Code	Course Title	Credit Hrs.	Contact Hrs.
			Th+Lab	Th+Lab
1	CHEM-6162	Photochemistry	Elective	
2	CHEM-6163	Polymers and Advanced Composite Materials	Elective	
3	CHEM-6164	Advanced Chemical Kinetics	Elective	
4	CHEM-6165	Group Theory and Symmetry	Elective	
5	CHEM-6166	Advanced Quantum Chemistry	Elective	
6	CHEM-6167	Luminescence Spectroscopy	Elective	
7	CHEM-6168	Radio and Nuclear Chemistry	Elective	
8	CHEM-6169	Computational Chemistry	Elective	
9	CHEM-6170	Colloidal Chemistry	Elective	
10	CHEM-6171	Chemistry of Supramolecules in Physical Chemistry	Elective	
11	CHEM-7111	Advanced Surface Chemistry	Elective	
12	CHEM-7112	Statistical Thermodynamics and Mechanics	Elective	

“The best way to predict the future is to invent it”

-Alan Kay



Faculty Members Engaging Students in Lab Work (Department of Chemistry)

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Head of Department of Chemistry Presiding over BoS Meeting

Department of

Food Science & Technology

Introduction and Overview

Food Science is a multidisciplinary approach that deals with various aspects of food. The basic structure of Food Science and Technology comprises of Food Sciences, Food Technology, Food Processing, Analysis, Nutrition, Research & Development, Product Development, Food Laws & Regulations, Food Safety, Food Quality, etc.

Key Features / Facilities

Department of Food Science and Technology has laboratories equipped with latest facilities and equipment. Following mentioned laboratories are operational catering the needs of different degree programs at under graduate and post graduate level:

- Food Analysis Laboratory
- Dairy & Meat Technology Laboratory
- Food Microbiology Laboratory
- Food Processing Hall

Vision

The Department of Food Science and Technology at KFUEIT would like to be recognized nationally and globally as a high seminary of learning pertinent to Food and Nutrition, Food Quality and Safety, Food Analysis, Food Microbiology, other novel and emerging trends of 21st century. The professionals (teachers/researchers) are aimed to excel imparting education and trainings contributing to local and national development of the country in an efficient manner.

Mission

Our mission is to provide high quality education in Food Science and Technology;

- To provide an outstanding educational experience and unique research and training opportunities in Food Safety and Nutritional Sciences, and to develop multidisciplinary and quality-oriented leaders to solve important national and global health problems.
- To provide a cost-effective processing and storage technology to curtail post-harvest losses and to achieve maximum value addition
- To provide a value addition to agricultural products, Food Bioprocessing and Technology, Food Nutrition and Dietetics, Food Safety and Quality and Natural Resource Sciences in order to realize sustainable and secure livelihoods.



Programs being offered

BS Food Science and Technology (BS-FDST)

BS Human Nutrition and Dietetics (BS-HNAD)

MS Food Technology

MS Human Nutrition and Dietetics *

MS Food Safety and Quality Management *



* Subject to Approval / NOC from HEC / Competent Authority / Accreditation Body



Faculty & Administration with VCs of KFUEIT & MNSUAM after Seminar



Scheme of Study

BS Food Science and Technology

Semester 1

S. No.	Course Code	Course Title	Credit Hrs.	
			Theory	Lab
1	ENGL-1118	Functional English	3	0
2	MATH-1111/ BTNY-1107	Mathematics-I/Botany	3	0
3	PAKS-1113	Pakistan Studies	2	0
4	FDST-1101/ FDST-1201	Introduction to Food Science and Technology	2	1
5	AGRI-1101/ AGRI-1201	Basic Agriculture	2	1
6	STAT-1101/ STAT-1201	Statistical Theory- I	2	1
7	HLTH-1113	Basic Health Awareness	2	0
Credit Hours			19	

Semester 2

S. No.	Course Code	Course Title	Credit Hrs.	
			Theory	Lab
1	ISLS-1112/ ETIC-1112	Islamic Studies / Ethics	2	0
2	ENGL-1119	Communication Skills	3	0
3	MATH-1112/ ZOO-1171	Mathematics-II (Calculus) / Zoology	3	0
4	FDST-1102/ FDST-1202	Food Processing and Preservation	2	1
5	STAT-1102/ STAT-1202	Statistical Theory- II	2	1
6	AGEN-1102/ AGEN-1202	Fluid Mechanics	2	1
7	SSCI-3120	Constitution and Legal System of Pakistan	2	0
Credit Hours			19	

Semester 3

S. No.	Course Code	Course Title	Credit Hrs.	
			Theory	Lab
1	INFT-1102/ INFT-1202	Introduction to Computing	2	1
2	BOCH-1101	Introductory Biochemistry	3	0
3	FDST-2101/ FDST-2201	Food Analysis	1	2
4	FDST-2102/ FDST-2202	Unit Operation in Food Processing	2	1
5	FDST-2103	Food Plant Layout and Design	2	0
6	FDST-2104	Food Safety	3	0
7	FDST-2105 FDST-2205	Food Microbiology	2	1
Credit Hours			20	

Semester 4

S. No.	Course Code	Course Title	Credit Hrs.	
			Theory	Lab
1	FDST-2106/ FDST-2206	Food Process Engineering	2	1
2	FDST-2107	Food Chemistry	3	0
3	FDST-2108/ FDST-2208	Dairy Technology	2	1
4	FDST-2109/ FDST-2209	Fruits and Vegetables Processing	2	1
5	FDST-2110	Fish, poultry and egg processing	2	1
6	HNAD-1101	Fundamentals of Human Nutrition	3	0
Credit Hours			18	

Semester 5

S. No.	Course Code	Course Title	Credit Hrs.	
			Theory	Lab
1	FDST-3101/ FDST-3201	Meat Technology	2	1
2	FDST-3102/ FDST-3202	Cereal Technology	2	1
3	FDST-3103/ FDST-3203	Sugar Technology	2	1
4	AGRI-3101/ AGRI-3201	Stored Grain Pest Management	2	1
5	FDST-3104/ FDST-3204	Instrumental Techniques in Food Analysis	1	2
7	MSCI-4165	Agricultural Marketing	3	0
Credit Hours			18	

Semester 6

S. No.	Course Code	Course Title	Credit Hrs.	
			Theory	Lab
1	FDST-3105/ FDST-3205	Bakery Products Technology	2	1
2	FDST-3106	Community Nutrition	2	0
3	FDST-3107/ FDST-3207	Confectionery and Snack Foods	2	1
4	FDST-3108/ FDST-3208	Food Packaging	2	1
5	FDST-3109/ FDST-3209	Sensory Evaluation of Foods	2	1
6	FDST-3110	Technology of Fats and Oils	2	1
7	FDST-3111/ FDST-3211	Postharvest Technology	2	1
Credit Hours			20	

Semester 7

S. No.	Course Code	Course Title	Credit Hrs.	
			Theory	Lab
1	FDST-4101/ FDST-4201	Food Product Development	2	1
2	FDST-4102/ FDST-4202	Food Biotechnology	2	1
3	FDST-4103	Food Laws and Regulations	3	0
4	FDST-4104	Food Quality management	3	0
5	FDST-4105/ FDST-4205	Beverage Technology	2	1
6	FDST-4106/ FDST-4206	Extrusion Technology	2	1
7	FDST-4107/ FDST-4207	Research Project and Scientific writing	1	1
Credit Hours			20	

Semester 8

S. No.	Course Code	Course Title	Credit Hrs.	
			Theory	Lab
1	FDST-4400	Internship	0	04
Credit Hours			04	

GRAND TOTAL

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BS Human Nutrition & Dietetics

Semester 1

S. No.	Course Code	Course Title	Credit Hrs.	
			Theory	Lab
1	ENGL-1118	Functional English	3	0
2	MATH-1111	Mathematics (Algebra)-I	3	0
3	PAKS-1113	Pakistan Studies	2	0
4	HNAD-1101	Fundamentals of Human Nutrition	3	0
5	AGRI-1101/ AGRI-1201	Basic Agriculture	2	1
6	FDST-1101/ FDST-1201	Introduction to Food Science & Technology	2	1
7	HLTH-1113	Basic Health Awareness	2	0
Credit Hours			19	

Semester 2

S. No.	Course Code	Course Title	Credit Hrs.	
			Theory	Lab
1	ISLS-1112/ ETIC-1112	Islamic Studies / Ethics *	2	0
2	ENGL-1119	Communication Skills	3	0
3	HNAD-1102	Macronutrients in Human Nutrition	3	0
4	BOCH-1101	Introductory Biochemistry	3	0
5	STAT-1101/ STAT-1201	Statistical Theory-I	2	1
6	INFT-1102/ INFT-1202	Introduction to Computing	2	1
7	SSCI-3120	Constitution and Legal System of Pakistan	2	0
Credit Hours			19	

Semester 3

S. No.	Course Code	Course Title	Credit Hrs.	
			Theory	Lab
1	HNAD-2101	Micronutrients in Human Nutrition	3	0
2	HNAD-2102 HNAD-2202	Human Anatomy	2	1
3	HNAD-2103 HNAD-2203	Human Physiology-I	2	1
4	FDST-2104	Food Safety	3	0
5	FDST-2105/ FDST-2205	Food Microbiology	2	1
6	FDST-2107	Food Chemistry	3	0
7	FDST-4102 FDST-4203	Food Biotechnology	2	1
Credit Hours			21	

Semester 4

S. No.	Course Code	Course Title	Credit Hrs.	
			Theory	Lab
1	HNAD-2104/ HNAD-2204	Human Physiology – II	2	1
2	HNAD-2105/ HNAD-2205	Assessment of Nutritional Status	2	1
3	HNAD-2106	Nutrition Through the Life Cycle	3	0
4	HNAD-2107/ HNAD-2207	General Pathology	2	1
5	FDST-2101/ FDST-2201	Food Analysis	1	2
6	FDST-2109/ FDST-2209	Dairy Technology	2	1
Credit Hours			18	

Semester 5

S. No.	Course Code	Course Title	Credit Hrs.	
			Theory	Lab
1	HNAD-3101/ HNAD-3201	Dietetics-I	2	1
2	HNAD-3102/ HNAD-3202	Public Health Nutrition	2	1
3	HNAD-3103/ HNAD-3203	Meal Planning and Management	2	1
4	HNAD-3104/ HNAD-3204	Nutritional Education and Awareness	2	1
5	FDST-4103	Food Laws and Regulations	3	0
6	HNAD-3105/ HNAD-3205	Sports Nutrition	2	1
Credit Hours			18	

Semester 6

S. No.	Course Code	Course Title	Credit Hrs.	
			Theory	Lab
1	HNAD-3106 HNAD-3107/	Nutritional Disorders Dietetics-II	3	0
2	HNAD-3207 HNAD-3108	Nutrition in Emergencies	2	1
3	HNAD-3109	Global Food Issues	3	0
4	HNAD-3110/ HNAD-3210	Infant and Young Child Feeding	3	0
5			2	
6	FDST-4104	Food Quality Management	3	1
7	FDST-2103	Food Plant Layout and Design	2	
Credit Hours			20	

Semester 7

S. No.	Course Code	Course Title	Credit Hrs.	
			Theory	Lab
1	HNAD-4101/ HNAD-4201	Nutritional Practices in Clinical Care	2	1
2	HNAD-4102/ HNAD-4202	Dietetics-III	2	1
3	HNAD-4103	Drug & Nutrient Interactions	2	0
4	HNAD-4104	Research Methods in Nutrition	3	0
5	HNAD-4105	Nutrition Policies and Programs	3	0
6	BOCH-3114/ BOCH-3214	Clinical Biochemistry	2	1
7	FDST-4107/ FDST-4207	Research Project and Scientific Writing	1	1
Credit Hours			19	

Semester 8

S. No.	Course Code	Course Title	Credit Hrs.	
			Theory	Lab
1	HNAD-4400	Internship	0	04
Credit Hours			04	

GRAND TOTAL

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MS Food Technology

List of Core Courses

S. No.	Course Code	Course Title	Theory	Credit Hrs. Lab.
1	FDST-5101	Food Quality Assurance Management	3	0
2	FDST-5102	Recent Advances in Food Science & Tech	3	0
3	FDST-5103/ FDST-5203	Research Methodology	2	1
4	FDST-5104	Seminar and Special Problem	3	0

List of Elective Courses (i)

S. No.	Course Code	Course Title	Theory	Lab.
1	FDST-6101	Food Additive	3	0
2	FDST-6102/ FDST-6202	Baking Science and Technology	2	1
3	FDST-6103/ FDST-6203	Technology of Processed Meat	2	1
4	FDST-6104/ FDST-6204	Dairy Processing-I	2	1

List of Elective Courses (ii)

S. No.	Course Code	Course Title	Theory	Lab.
5	FDST-6105/ FDST-6205	Dairy Processing-II	2	1
6	FDST-6106/ FDST-6206	Advanced Food Biotechnology	2	1
7	FDST-6107/ FDST-6207	Milling of Cereals	2	1
8	FDST-6108/ FDST-6208	Advanced Beverage Technology	2	1
9	FDST-6109/ FDST-6209	Nutraceuticals and Functional Foods	2	1
10	FDST-6110	Food Supply Chain Management	3	0
11	FDST-6111/ FDST-6212	Food Enzymology	2	1

List of Elective Courses (iii)

S. No.	Course Code	Course Title	Theory	Lab.
12	FDST-6112	Food Toxicology	3	0
13	FDST-6113	Starch Chemistry and Technology	3	0
14	FDST-6114/ FDST-6214	Advanced Food Chemistry	2	1
15	FDST-6115/ FDST-6215	Chemistry of Edible Oils and Fats	2	1
16	FDST-6116/ FDST-6216	Ind. Processing Technol. of Edible Oils & Fats Products	2	1
17	FDST-6117/ FDST-6217	Meat Science	2	1
18	FDST-6118	Food Industrial Waste Management	3	0
19	FDST-6119	Post-Harvest Management	3	0
20	FDST-6119	Food Packaging	3	0
21	FDST-6120/ FDST-6220	Advanced Food Microbiology	2	1
22	FDST-6121/ FDST-6221		2	1

MS Human Nutrition and Dietetics

List of Core Courses

S. No.	Course Code	Course Title	Theory	Credit Hrs. Lab.
1	HNAD-5101	Maternal and Child Nutrition	3	0
2	HNAD-5102	Recent Advances in Nutrition and Dietetics	3	0
3	HNAD-5103/ HNAD-5203	Nutrigenomics and Proteomics	2	1
4	HNAD-5104	Seminar and Special Problem	3	0

List of Elective Courses (i)

S. No.	Course Code	Course Title	Theory	Lab.
1	HNAD-6101	Nutritional Controversies	3	0
2	HNAD-6102/ HNAD-6202	Clinical Nutrition and Dietetics	2	1
3	HNAD-6103/ HNAD-6203	Therapeutic and Complementary Nutrition	2	1
4	HNAD-6104	Personalized Nutrition	3	0
5	HNAD-6105/ HNAD-6205	Nutrition in Institutions	2	1

List of Elective Courses (ii)

S. No.	Course Code	Course Title	Theory	Lab.
6	HNAD-6106/ HNAD-6206	Sports and Exercise Nutrition	2	1
7	HNAD-6107/ HNAD-6207	Applied Dietetics	2	1
8	HNAD-6108	Pediatric and Geriatric Nutrition	3	0
9	HNAD-6109	Professional Dietetics Practices	3	0
10	HNAD-6110	Diet Diversification and Health Promotion	3	0
11	HNAD-6111/ HNAD-6211	Public Health Nutrition	2	1
12	HNAD-6112	Vegetarian Nutrition	3	0
13	HNAD-6113/ HNAD-6213	Bioactive Components and Health	2	1
14	HNAD-6114/ HNAD-6214	Physiology of Digestion and Metabolism	2	1

List of Elective Courses (iii)

S. No.	Course Code	Course Title	Theory	Lab.
15	HNAD-6115	Food and Nutritional Security Policy to Practice	3	0
16	HNAD-6116/ HNAD-6216	Nutritional Epidemiology and Research Methods	2	1
17	HNAD-6117	International Nutrition	3	0
18	HNAD-6118/ HNAD-6218	Public Health Microbiology	2	1

MS Food Safety and Quality Management

List of Core Courses

S. No.	Course Code	Course Title	Theory	Credit Hrs. Lab.
1	FSQM-5101	Food Auditing and Inspections	3	0
2	FSQM-5102 FSQM-5202	Food Traceability and Authenticity	3	0
3	FSQM-5103	Research Methodology	2	1
4	FSQM-5104	Seminar and Special Problem	3	0

List of Elective Courses

S. No.	Course Code	Course Title	Theory	Lab.
1	FSQM-6101 FSQM-6202	Food Safety and Quality	2	1
2	FSQM-6102	Food Quality Management	3	0
3	FSQM-6103 FSQM-6203	Food Safety and Quality Control Systems	2	1
4	FSQM-6104	Food laws and Regulations	3	0

S. No.	Course Code	Course Title	Theory	Lab.
5	FSQM-6105	Public Health	3	0
6	FSQM-6106	Hygiene and Food Plant Sanitation	3	0
7	FSQM-6107	Food Labeling	3	0
8	FSQM-6108	Safe Handling of Foods	3	0
9	FSQM-6109	Preharvest and Postharvest Food Safety	3	0
10	FSQM-6110	Consumer Behavior & Preferences-	3	0
11	FSQM-6111 FSQM-6211	Food of Animal Origin	2	1

S. No.	Course Code	Course Title	Theory	Lab.
12	FSQM-6112 FSQM-6212	Food Sampling Techniques and Analysis	1	2
13	FSQM-6113	Food Related Legal System in Pakistan	3	0
14	FSQM-6114 FSQM-6214	Food Inspection, Investigation and Judgment	2	1
15	FSQM-6115	Food Safety Standards and Trades	3	0
16	FSQM-6116	Compliance Strategies and Effective	3	0
17	FDST-6101	Food Additive	3	0
18	FDST-6109/ FDST-6209	Nutraceuticals and Functional Foods	2	1
19	FDST-6110	Food Supply Chain Management	3	0
20	FDST-6112	Food Toxicology	3	0
21	FDST-6118	Food Industrial Waste Management	3	0

S. No.	Course Code	Course Title	Theory	Lab.
21	FDST-6119	Post-Harvest Management	3	0
22	FDST-6120/ FDST-6220	Food Packaging	2	1
23	FDST-6121/ FDST-6221	Advanced Food Microbiology	2	1



Health Awareness Seminar Group Photo (Department of Food Sciences)



World Food Day (2018)



BOS (Department of Food Sciences)



Students in Lab



Health Awareness Seminar by Executive Director

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Spring Fiesta 2019

Department of

Health Sciences

Introduction and Overview

The newly established Department of Health Sciences of KFUEIT is committed to deliver dynamic sharing of knowledge, research and services beyond the walls of KFUEIT by offering exceptional learning opportunities of professional education and encourages its staff, students to contribute their knowledge and expertise in public domains nationally and internationally.

There's an exciting future ahead in health sciences and the department is ready to play a leading role in it by finding cure to behavioral diseases, introducing new laboratory and imaging interventions, vision sciences, pharmaceuticals and improving quality of life through vast research based resources being developed on continuous basis at KFUEIT. Amongst its degree programs are; BS Clinical Psychology, BS Medical Laboratory Technology, BS Radiology, BS Optometry, BS Cosmetology and Dermatological Sciences and Pharm-D.

With highly qualified and internationally engaged faculty, well-equipped laboratories and resource rich library facilities, the Department of Health Sciences is striving to provide education, research and service facilities and consultancy in the health science disciplines of the highest quality to produce competent healthcare professionals. The programs curriculum incorporate theory, practice and research based components to develop core skills, knowledge and professionalism. The focus is given to various subjects as per the guidelines of the Higher Education Commission and their respective Councils.

“The Strongest among you is the one who controls his anger”

-Prophet Muhammad (PBUH)



Vision

As a national premier health sciences education, research and service provider in public sector, we are recognized for our strategic partnerships and collaboration initiatives, our commitment to diversity, and innovative approaches to health education, research and services excellence.

“The difference between ordinary and extraordinary is that little extra”

-Jimmy Johnson



Mission

We empower, engage, and educate health professionals and researchers who will lead their fields to best serve the health and well-being of people in South Punjab and beyond to the development of regional economy and uplift of the local community by becoming powerhouse of intellectual and human capital generation.

MS Health Care Management:

The objective of the programme is to provide a unique opportunity to healthcare professionals, thus enabling them to develop and enhance their leadership potential and specific skill-sets which are seen to be a top priority in health care management, particularly in today's highly charged competitive business environment. Healthcare professionals with requisite business management skills and knowledge are increasingly in demand to meet newly emerging industry standards and the growing needs of the healthcare industry. These healthcare specialists are empowered to create and deliver value in highly performing healthcare organizations.

Participants embarking on this MS program will go through an integrated learning experience that will broaden their leadership style and strategic management skill-sets, ultimately laying the foundation for strategic innovative thinking that is germane in creating competitive edge for the organizations they are engaged.

Career Perspective:

- Health Care Manager/Administrator
- Health Care Supplier
- Insurance Company Executive
- Pharmaceutical Business Experts
- Nursing Home/Rehabilitation Center Director
- Project Management Executive in the Ministry of Health
- Policy Maker in Regulatory bodies/Councils
- Hospital/Healthcare Service Administrator
- Epidemiology and Research Officer

Programs being offered

BS Clinical Psychology
BS Medical Laboratory Technology
BS Radiology
BS Optometry
BS Cosmetology and Dermatological Sciences
MS Health Care Management



BS Clinical Psychology

BS Clinical Psychology is the first program being offered which will help to fulfil the urgent demand for trained clinical psychologists across the country taking into consideration the growth, development and awareness of clinical psychology during the last few years. The aim of this program is to educate and train healthcare professionals who have the knowledge and expertise to fulfil their roles in healthcare and beyond.

Professionals in this field are called as clinical psychologists. Clinical psychologists work for medical organizations. Clinical psychologists provide psychotherapy, psychological testing, and diagnosis of mental illness. Psychologists are generally trained within four primary theoretical orientations, psychodynamic, humanistic, cognitive-behavioral (CBT), and systems or family therapy. The subject offers wide range of career opportunities. Clinical psychologists usually work in hospitals, academic institutions, counselling and rehabilitation centres. They can also establish private consultation firms.

BS Medical Laboratory Technology

The BS Medical Laboratory Technology program takes an integrated approach to learning across the curriculum. Self grooming and enhancement are given a lot of importance in the institution. The courses which would be studied in the program will enhance the knowledge and skills to the next level. The study program and courses have been designed as to fulfil the current needs with regard to professionalism, marketability, employability and entrepreneurship.

Medical Laboratory Technologists are equally a part of healthcare Industry and the task of a Medical Laboratory Technologist is quite important as they are also known as Clinical Laboratory Technologist. They are in charge of doing tests which include analysing blood, body fluids, body tissues, cell counting amongst other tests. These tests are required for preliminary treatment of a patient.

BS (4 years degree program) in Medical Laboratory Technology being Offered:

- To prepare a team of health technologists who can effectively assist senior health professionals in the delivery of quality health services.
- To prepare graduate Medical Technologist with the knowledge and abilities needed for certification by nationally recognized professional agencies.
- To prepare paramedical workers for all levels of the health care delivery system from the primary to the tertiary level.
- To introduce and impart standard technical education with advanced techniques by replacing the conventional methods of pre service training.
- To provide paramedical workers a status and recognition in the health care delivery system through improving their capacity along with increasing awareness of their responsibilities, authority and job description.
- To facilitate paramedical staff with modern skills and techniques and latest technical knowledge of international level.

BS Radiology

A radiographer produces radiography of patients with the help of X-ray to find the exact medical condition of the patient. In addition to X-ray, a radiographer also considers CT scans, ultrasounds and MRI for producing radiography. The need of educated and professional radiology technologists in hospitals, clinics, and physicians' offices are increasing continuously. The field of radiography will be continued to show higher than average job growth into the future. After completing your degree in this field you will become Radiology Technologists/ Radiographer, Radiology Technicians, Ultrasound Technician/ Diagnostic Medical Sonographer, MRI Technician, CT Tech/ CAT Scan Technologist/ CT Scan Technologist.

The program is designed to attain the following objectives:

- To train radiological professionals with sufficient and relevant scientific and technological skills with high degree of competence and safety in the practice of radiography in health care delivery system.
- To train radiological professionals with sufficient interdisciplinary skills to perform their role as members in healthcare teams.
- Course work typically focuses on patient care, patient positioning, radiation safety and protection in addition to radiation physics, pathology and other advanced topics.

BS Optometry

Optometry is a professional discipline based on the optical and vision sciences. Optometry graduates are considered to be qualified professionals who are able to practice in the public as well as private institutions. Presently quite a few institutions run the BS program of optometry in Pakistan although the demand for optometrists is on the increase not only within the country but also in other parts of the World.

The first two semesters offer foundation courses. The students will develop clinical skills through in depth understanding of Anatomy, Physiology and Pathology of the visual system in the conducive classroom teaching as well as working in the clinical skills center during the first 2 years of education.

During the next semesters the students will develop the knowledge and achieve the clinical skills required for modern optometrist practice. They will also work under the supervision of team of experts working in Eye Clinic. The students will carry out full eye examinations and will gain specialist skills such as in ocular vision, contact lens and dispensing. In addition, they will examine patients with a range of eye diseases and gain experience in dispensing spectacles. Being a newly introduced program in Optometry and Visionary Science, it has tremendous job opportunities in public and private sector hospitals of the country. The graduates will have opportunity for employment in Pharmaceutical Industry as well. They can also run an independent optometrist clinic that will prove as a novel option and fruitful experience.

BS Cosmetology and Dermatological Sciences

BS Cosmetology and Dermatological Sciences has a vision of Skin Care for all ages to achieve excellence in skincare by educating skin care experts having relevant knowledge, skills and attitudes to take care of skin in all age groups through interactive teaching, hands on practice on modern equipment and activates for intellectual development. At the end of this four year program, graduates will be able to perform their role as:

- Cosmetic scientist: Consultants and team leader in pharmaceutical and cosmetics industry regarding production, quality assurance, marketing and research of skin care products.
- Cosmetologist: Guide clients regarding skin care and perform non-invasive cosmetics procedures independently.
- Physician associate: Work with Dermatologist as part of a skin care team, in patient management and invasive procedures
- Academician: pursue an academic career in allied health sciences undergraduate program

Scheme of Study

MS Health Care Management

Semester 1

S. No.	Course Code	Course Title	Credit Hours	Course Category
1	MSCI-5101	Theory and Practices of Management	3	Core
2	MATH-5121	Business Mathematics and Statistics	3	Core
3	ECON-5103	Health Economics	3	Core
4	ENGL-5121	Speech Communication	3	Core
5	MSCI-5109	Financial Accounting	3	Core
Total Credit Hours			15	

Semester 2

S. No.	Course Code	Course Title	Credit Hours	Course Category
1	MSCI-5102	Financial Management	3	Core
2	MHLT-5102	Introduction to Health Policy	3	Core
3	MSCI-5106	Human Resource Management	3	Core
4	MSCI-5108	Marketing Management	3	Core
5	COSC-5121	Health Management Information Systems	3	Core
Total Credit Hours			15	

Semester 3

S. No.	Course Code	Course Title	Credit Hours	Course Category
1	HLMG-6101	Strategic Management of Health Services	3	Core
2	HLMG-6103	Health Service Delivery and Operation	3	Core
3	MSCI-6105	Strategic Marketing	3	Core
4	HLMG-6107	Healthcare Leadership	3	Core
Total Credit Hours			12	

Semester 4

S. No.	Course Code	Course Title	Credit Hours	Course Category
1	HLMG-6108	Managing Professional Health Care Organa	3	Core
2	MSCI-6159	Total Quality Management	3	Core
3	HLMG	Elective 1	3	Core
4	HLMG	Elective 2	3	Core
Total Credit Hours			12	

Semester 5

S. No.	Course Code	Course Title	Credit Hours	Course Category
1	HLMG-6301/HLMG-6601	Project/Thesis	12	Mandatory
Total Credit Hours			12	
Grand Total			66	

BS Clinical Psychology

Semester 1

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	ENGL-1118	Functional English	3	0	3
2	PAKS-1113	Pakistan Studies	2	0	2
3	MATH-1111	Mathematics I	3		
4	HLTH-1113	Basic Health Awareness	2	0	3
5	CPSY-1101	Fundamentals of Biology	3	0	2
6	CPSY-1102	Introduction to Psychology	3	0	3
Total Credit Hours			16	0	16

Semester 2

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	ENGL-1119	Communication Skills	3	0	3
2	ISLS-1112	Islamic studies	2	0	3
3	CPSY-1103	Social Psychology	3	0	3
4	CPSY-1104	History and School of Psychology	3	0	3
5	HLSC-1101	Introduction to Health Care Management	3	0	3
Total Credit Hours			14	0	14

Semester 3

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	ENGL-2111	Technical Writing	3	0	3
2	INFT-1102	Introduction to Computing	2	0	2
3	INFT-1202	Introduction to Computing	0	1	1
4	CPSY-2101	Theories of Personality I	3	0	3
5	CPSY-2102	Counselling	3	0	3
6	CPSY-2103	Experimental Psychology I	2	1	3
7	CPSY-2104	Child Psychology	3		3
Total Credit Hours			16	2	18

Semester 4

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	CPSY-2105	Theories of Personality II	3	0	3
2	CPSY-2105	Psychology of life span	3	0	3
3	CPSY-2106	Experimental Psychology II	3	0	3
4	CPSY-2107	Positive psychology	3	0	3
5	CPSY-2108	Psychology of Leadership	3	0	3
Total Credit Hours			15	0	15

Semester 5

S. No.	Course Code		Theory	Lab	Credits
1	BOCH-3108	Bio Statistics	2	1	3
2	CPSY-3101	Mental Health and Psychopathology I	3	0	3
3	CPSY-3102	Cognitive Psychology	3	0	3
4	CPSY-3401	Psychological Practicum	0	3	3
5	CPSY-3104	Psychological Testing I	3	0	3
Total Credit Hours			11	4	15

Semester 6

S. No.	Course Code		Theory	Lab	Credits
1	BOCH-3114	Statistical tools for social sciences	3	0	3
2	CPSY-3105	Mental Health and Psychology II	3	0	3
3	CPSY-3106	Neurological Basis of Behavior	3	0	3
4	CPSY-3107	Clinical Psychology	2	0	2
5	CPSY-3108	Psychological Testing II	3	0	3
6	CPSY-3109	Environmental Psychology	3	0	3
Total Credit Hours			17	0	17

Semester 7

S. No.	Course Code		Theory	Lab	Credits
1	CPSY-4401	Clinical Internship	0	2	2
2	CPSY-4101	Psychology of Cross Cultural differences	3	0	3
3	CPSY-4102	Clinical pharmacology	3	0	3
4	CPSY-4103	Educational Psychology	2	0	2
5	CPSY-4104	Counselling for HIV/STIs	3	0	3
6	CPSY-4105	Psychology of Special Children	3	0	3
7	CPSY-4106	Psychology of Motivation	2	0	2
Total Credit Hours			16	2	18

Semester 8

S. No.	Course Code		Theory	Lab	Credits
1	CPSY-4107	Community Psychology	3	0	3
2	BOCH-4601	Research Project	0	6	6
3	CPSY-4108	Organizational Psychology	2	0	2
4	CPSY-4109	Applied Behavior Analysis	3	0	3
5	CPSY-4402	Clinical Internship		3	3
Total Credit Hours			8	9	17

Grand Total**130****BS Cosmetology and Dermatological Sciences****Semester 1**

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	ENGL-1118	Functional English	3	0	3
2	PAKS-1113	Pakistan Studies	2	0	2
3	MATH-1111	Mathematics I	3	0	3
4	HLTH-1113	Basic Health Awareness	2	0	2
5	CDMS-1101	Anatomy I	2	1	3
6	CDMS-1102	Physiology I	2	1	3
7	CDMS-1103	Biochemistry I	2	1	3
Total Credit Hours			16	3	19

Semester 2

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	ENGL-1119	Communication Skills	3	0	3
2	ISLS-1112	Islamic studies	2	0	2
3	CDMS-1104	Physiology II (Physiology of Cutaneous System)	2	1	3
4	CDMS-1105	Anatomy II (Anatomy of Cutane)	2	1	3
5	CDMS-1106	Cosmetic Sciences I (Fundamentals)	2	0	2
6	CDMS-1107	Biochemistry II	2	1	3
7	HLSC-1101	Introduction to HealthCare Management	3	0	3
Total Credit Hours			16	3	19

Semester 3

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	ENGL-2111	Introduction to Computing	3	0	3
2	INFT-1102	Introduction to Computing	2	0	2
3	INFT-1202	Pathology I (General Pathology)	0	1	1
4	CDMS-2101	Cosmetic Sciences II (Manufacturing cosmetic formulations, labeling and packaging)	2	1	3
5	CDMS-2102		2	1	3
6	CDMS-2103		2	0	2
7	CDMS-2104	Regulation/Legislation of Cosmetic Products	2	1	3
8	CDMS-2105	Pharmacology	2	0	2
Total Credit Hours			15	4	19

Semester 4

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	CDMS-2106	Pathology II (Patho physiology of Skin Diseases)	2	1	3
2	CDMS-2107	Cosmetic Sciences III (Dispensing of Manufactured Formulations)	2	1	3
3	CDMS-2108	Community Dermatology	2	1	3
4	CDMS-2109	Nutritional Deficiencies	3	0	3
5	CDMS-2110	Therapeutics	3	0	3
6	CDMS-2111	Cross Infections and Control	1	1	2
Total Credit Hours			13	4	17

“Do not dispute with anyone in any matter as far as possible. For in argumentation lies much harm and its evil is greater than its benefit”

- Al-Ghazali

Semester 5

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	CDMS-3101	Cosmetic Sciences IV (Chemical Analysis and Stability)	2	1	3
2	CDMS-3102	Quality Control of Cosmetics	2	1	3
3	CDMS-3103	Approach to a patient with skin problem	2	1	3
4	CDMS-3104	Adverse effects of cosmetics and drugs	3	0	3
5	CDMS-3105	Inflammatory Skin Diseases	3	0	3
6	CDMS-3106	Skin Assessment Techniques	2	1	3
Total Credit Hour			14	4	18

Semester 6

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	CDMS-3107	Dermatology and Internal Medicine I	3	0	3
2	CDMS-3108	Skin Care of the pediatric and Young population	3	0	3
3	BIOI-2101	Biostatistics	2	1	3
4	BIOI-2201	Research Methodology	2	1	3
5	CDMS-3109	Aging and Geriatrics	2	1	3
Total Credit Hour			12	3	15

Semester 7

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	CDMS-4101	Disorder of Pigmentation	2	1	3
2	CDMS-4401	Supervised Skin Care Practice I	0	2	2
3	CDMS-4102	Photobiology and phototherapy	2	1	3
4	CDMS-4103	Infections and Infestations	2	1	3
5	CDMS-4104	Hair Nail and Mucosal Disorders	3	0	3
Total Credit Hour			9	5	14

Semester 8

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	CDMS-4105	Lasers in Aesthetics	2	1	3
2	CDMS-4106	Management of Common Dermatoses and Cosmetic Procedures	2	1	3
3	CDMS-4601	Research Project	0	6	6
4	CDMS-4402	Supervised Skin Care Practice II	0	3	3
Total Credit Hour			4	11	15

GRAND TOTAL

136

BS Medical Laboratory Technology

Semester 1

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	ENGL-1118	Functional English	3	0	3
2	PAKS-1113	Pakistan Studies	2	0	2
3	MATH-1111	Mathematics I	3	0	3
4	HLTH-1113	Basic Health Awareness	2	0	2
5	MLTG-1101	Human Physiology I	2	1	3
6	MLTG-1102	Biochemistry I	2	1	3
7	MLTG-1103	Human Anatomy I	2	1	3
Total Credit Hour			16	3	19

Semester 2

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	ENGL-1119	Communication Skills	3	0	3
2	ISLS-1112	Islamic studies	2	0	2
3	MLTG-1103	Biochemistry II	3	1	4
4	MLTG-1104	Human Physiology II	3	1	4
5	MLTG-1105	Human Anatomy II	3	1	4
6	HLSC-1101	Introduction to Health Care Managem	3	0	3
Total Credit Hour			17	3	20

Semester 3

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	ENGL-2111	Technical Writing and Presentation Skills	3	0	3
2	INFT-1102	Introduction to Computing	2	0	2
3	INFT-1202	Introduction to Computing	0	1	1
4	MLTG-2101	Human Genetics	2	1	3
5	MLTG-2102	Hematology I	2	1	3
6	MLTG-2103	General Pathology I	2	1	3
7	MLTG-2104	General Pharmacology I	2	1	3
8	MLTG-2105	Medical Microbiology	2	1	3
Total Credit Hour			15	6	21

Semester 4

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	MLTG-2106	General Pathology II	2	1	3
2	MLTG-2107	General Pharmacology II	2	1	3
3	MLTG-2108	Clinical Virology and Mycology	2	1	3
4	MLTG-2109	Medical Microbiology II	2	1	3
5	MLTG-2110	Hematology II	2	1	3
6	MLTG-2111	Chemical Pathology	2	1	3
Total Credit Hour			12	6	18

“Knowledge without action is wastefulness and action without knowledge is foolishness”

- Al-Ghazali

Semester 5

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	MLTG-3101	WBCs and Platelets Disorders	2	1	3
2	MLTG-3102	Histopathology	2	1	3
3	MLTG-3103	Bioinformatics	2	1	3
4	MLTG-3104	Clinical parasitology	2	1	3
5	MLTG-3105	Clinical Pathology	2	1	3
6	MLTG-3106	Biotechnology	1	1	2
Total Credit Hours			11	6	17

Semester 6

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	MLTG-3107	Medical Laboratory Instrumentation	2	1	3
2	MLTG-3108	Immunology and serology	2	1	3
3	MLTG-3109	Blood Banking	2	1	3
4	BIOI-2101	Biostatistics	2	1	3
5	BIOI-2201	Research Methodology	2	1	3
Total Credit Hours			10	5	15

Semester 7

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	MLTG-4101	Medical Laboratory management skills	2	1	3
2	MLTG-4102	Fundamentals of infection control	1	1	2
3	MLTG-4103	Molecular Biology	2	1	3
4	MLTG-4104	Epidemiology	2	0	2
5	MLTG-4105	Diagnostic Bacteriology	2	1	3
6	MLTG-4106	Cytology and Cytogenetics	2	1	3
Total Credit Hours			11	5	16

Semester 8

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	MLTG-4107	Bio Ethics	2	0	2
2	MLTG-4601	Research Project	0	6	6
3	MLTG-4108	Medical Sociology	2	0	2
Total Credit Hours			4	6	10

GRAND TOTAL**136****BS Radiology****Semester 1**

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	ENGL-1118	Functional English	3	0	3
2	PAKS-1113	Pakistan Studies	2	0	2
3	MATH-1111	Mathematics I	3	0	3
4	HLTH-1113	Basic Health Awareness	2	0	2
5	RDGY-1101	Human Physiology I	2	1	3
6	CHEM-1252	Biochemistry I	2	1	3
7	RDGY-1102	Human Anatomy I	2	1	3
Total Credit Hours			16	3	19

Semester 2

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	ENGL-1119	Communication Skills	3	0	3
2	ISLS-1112	Islamic studies	2	0	2
3	CHEM-1163	Biochemistry II	2	1	3
4	RDGY-1103	Human Physiology II	2	1	3
5	RDGY-1104	Human Anatomy II	2	1	3
6	HLSC-1101	Introduction to Health Care Management	3	0	3
Total Credit Hours			14	3	17

Semester 3

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	ENGL-2111	Technical Writing and Presentation Skills	3	0	3
2	INFT-1102	Introduction to Computing	2	0	2
3	INFT-1202	Introduction to Computing	0	1	1
4	RDGY-2101	Regional and Radiological Anatomy I	2	1	3
5	RDGY-2102	General Radiology	2	1	3
6	RDGY-2103	General Pathology	2	1	3
7	RDGY-2104	General Pharmacology	2	1	3
Total Credit Hours			13	5	18

Semester 4

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	MLTG-2106	Clinical Medicine I	2	0	2
2	MLTG-2107	Regional and Radiological Anatomy II	2	1	3
3	MLTG-2108	Conventional Radiology and clinical practice	2	1	3
4	MLTG-2109	Radiological positioning	2	1	3
5	MLTG-2110	Computed and Digital Radiography	1	1	2
6	MLTG-2111	Radiobiology and Radiation Protection	2	0	2
Total Credit Hours			11	4	15

Semester 5

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	RDGY-3101	Clinical Medicine II	1	1	2
2	RDGY-3102	Computed Tomography	2	1	3
3	RDGY-3103	Mammography and Special Radiological Techniques	2	1	3
4	RDGY-3104	Magnetic Resonance Imaging	2	1	3
5	RDGY-3105	General Surgery	2	0	2
6	RDGY-3106	Interventional Radiology	1	1	2
Total Credit Hours			10	5	15

Semester 6

S. No.	Course Code	Course Title	Theory	Lab	Credits
1	RDGY-3107	Radiological and Cross sectional anatomy	2	1	3
2	RDGY-3108	Computed tomography procedures and clinical practice	2	1	3
3	RDGY-3109	Magnetic resonance Imaging procedures and clinical practice	2	1	3
4	RDGY-3110	Therapeutic Radiology	2	1	3
5	BIOI-2101	Biostatistics	2	1	3
Total Credit Hours			10	5	15

Semester 7

S. No.	Course Code		Theory	Pract.	Credits
1	RDGY-4101	Clinical Sonography	2	2	4
2	RDGY-4102	Angiography and Cardiac Imaging	2	2	4
3	RDGY-4103	Nuclear Medicine	2	1	3
4	RDGY-4104	Echocardiography	1	1	2
5	RDGY-4105	Clinical Pathology and Radiological Presentation	1	1	2
6	RDGY-4106	Electrocardiography	1	1	2
Total Credit Hours			9	8	17

Semester 8

S. No.	Course Code		Theory	Pract.	Credits
1	RDGY-4107	Patient Care Management	2	1	3
2	RDGY-4601	Research Project	0	6	6
3	RDGY-4108	Medical Sociology	2	0	2
Total Credit Hours			4	7	11

GRAND TOTAL

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BS Optometry

Semester 1

S. No.	Course Code	Course Title	Theory	Pract.	Credits
1	ENGL-1118	Functional English	3	0	3
2	PAKS-1113	Pakistan Studies	2	0	2
3	MATH-1111	Mathematics I	3	0	3
4	HLTH-1113	Basic Health Awareness	2	0	2
5	OPTM-1101	Ocular Anatomy	2	1	3
6	OPTM-1102	Introduction to optometry	2	1	3
7	OPTM-1103	Human Anatomy (Head & Neck)	2	1	3
Total Credit Hours			16	3	19

Semester 2

S. No.	Course Code	Course Title	Theory	Pract.	Credits
1	ENGL-1119	Communication Skills	3	0	3
2	ISLS-1112	Islamic studies	2	0	2
3	OPTM-1104	Physical and Geometric Optics	2	1	3
4	OPTM-1105	Neuro Anatomy	2	1	3
5	OPTM-1106	Neuro Physiology	2	1	3
6	OPTM-1107	Ocular Physiology	2	1	3
7	HLSC-1101	Introduction to Health Care Management	3	0	3
Total Credit Hours			16	4	20

Semester 3

S. No.	Course Code	Course Title	Theory	Pract.	Credits
1	ENGL-2111	Technical Writing and Presentation Skills	3	0	3
2	INFT-1102	Introduction to Computing	2	0	2
3	INFT-1202	Introduction to Computing	0	1	1
4	OPTM-2101	Optics of the visual system I	2	1	3
5	OPTM-2102	Foundation of Ocular and systemic disease Management	2	1	3
6	OPTM-2103	Orthoptics	2	1	3
7	OPTM-2104	Clinical Topics in Binocular Vision and Pediatric Optics	2	1	3
8	OPTM-2105	Management of Refractive Errors	2	1	3
Total Credit Hours			15	6	21

Semester 4

S. No.	Course Code	Course Title	Theory	Pract.	Credits
1	OPTM-2106	Optics of the visual system II	2	1	3
2	OPTM-2107	Community Medicine and Public Health	3	0	3
3	OPTM-2108	Binocular vision Anomalies	2	1	3
4	OPTM-2109	Low Vision	2	1	3
5	OPTM-2110	Clinical and Geriatric Optometry	3	0	3
Total Credit Hours			12	3	15

Semester 5

S. No.	Course Code	Course Title	Theory	Pract.	Credits
1	OPTM-3101	Environmental Vision	2	0	2
2	OPTM-3102	Contact Lens	2	1	3
3	OPTM-3103	Pediatric Optometry	2	0	2
4	OPTM-3104	Occupational Optometry and ophthalmic dispensing	2	1	3
5	OPTM-3106	Ethical Practice in Optometry	2	1	3
6	OPTM-3107	Ocular Pharmacology	2	1	3
Total Credit Hours			12	4	16

Semester 6

S. No.	Course Code	Course Title	Theory	Pract.	Credits
1	OPTM-3108	Preventive Ophthalmology	2	1	3
2	OPTM-3109	Eye Health Management Patient Care	2	1	3
3	BIOI-2101	Biostatistics	2	1	3
4	BIOI-2201	Research Methodology	2	1	3
5	OPTM-3110	Ophthalmic Instruments	2	1	3
Total Credit Hours			10	5	15

Semester 7

S. No.	Course Code	Course Title	Theory	Pract.	Credits
1	OPTM-4401	Clinical rotations I (Refraction, Screening and Paediatric Care)	0	3	3
2	OPTM-4402	Clinical Rotations II (Diagnostic & Pediatric & Ophthalmology Clinic)	0	3	3
3	OPTM-4101	Epidemiology	3	0	3
4	OPTM-4102	Ophthalmic Lasers	2	1	3
Total Credit Hours			5	7	12

Semester 8

S. No.	Course Code	Course Title	Theory	Pract.	Credits
1	OPTM-4403	Clinical rotations III (Vireo-Retina Clinic & Glaucoma Clinic)	0	3	3
2	OPTM-4601	Research Project	0	6	6
3	OPTM-4404	Clinical Rotations IV (Contact Lens, Dispensing and Low Vision)	0	3	3
Total Credit Hours			0	12	12

GRAND TOTAL

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Faculty Profile

AHMAD BILAL ARIF

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SAADIA KALEEMULLAH

Manager Health Education

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BoS of Department of Health Sciences with Vice Chancellor & Senior Dean of all faculties

Department of

Mathematics

Introduction and Overview

The Department of Mathematics is one of the inaugural and pioneer departments in the radius of 200 km in Rahim Yar Khan, established in September 2017. The philosophy of department is to educate mathematics in much more interactive and conceptual point of view. Investigations and conceptual learning allow one to see mathematics being created by oneself. Our aim is to provide a new generation of innovative researchers and quality teachers to the nation. We provide mathematical instructions to students in a broad range of undergraduate and graduate academic programs in Mathematics, Engineering, Information Technology, Physics, Chemistry, Business and many other disciplines.

Vision

To become a hub of Mathematics in the region that revives and nourishes the mathematics culture and generates high caliber individuals who are pivotal to the development of regional economy.

Mission

The mission of the Mathematics department is to graduate qualified cadres who are equipped with insight and research skills in the field of mathematics. Providing learning opportunities of unmatched breadth and depth in an environment where students can learn and become competent users of mathematics and mathematical applications. Moreover, the department aims to contribute to the development of students as mathematical thinkers, enabling them to become lifelong learners, to continue to grow in their chosen professions and to function as productive citizens.

Scope and Associated Career

Our graduates will find numerous opportunities of working at research and teaching institutes in Pakistan and abroad. Depending upon the concentration that a student selects during study, various job opportunities are available after degree completion. Some of most visible ones are top academic and industrial research positions, Software Development, Education Sector, Consultants and many more.



Key Facts

- 19 faculty members
- 12 PhDs
- 6 Lectures
- 1 Teaching Assistant
- International & National PhD Qualified faculty

Programs being offered

BS Mathematics

MSc Mathematics

MS Mathematics

PhD Mathematics *

* Subject to approval / NOC from HEC / Competent Authority / Accreditation Body



Students Studying (Department of Mathematics)



Scheme of Study

BS Mathematics

Semester 1

S. No.	Course Code	Course Title	Credit Hours	Remarks
1	MATH-1101	Calculus-I	3	Core
2	MATH-1103	Elements of Set Theory and Mathematical logic	3	Compulsory
3	ENGL-1118	Functional English	3	Compulsory
4	PHYS-1126	Applied Physics-I	3	General
5	COSC-1207	ICT Lab	3	Compulsory
6	PAKS-1113/ ISLS-1112/ ETIC-1112	Pakistan Studies/ Islamic Studies/ Ethics	2	Compulsory
Total Credit Hours			17	

Semester 2

S. No.	Course Code	Course Title	Credit Hours	Remarks
1	MATH-1102	Calculus-II	3	Core
2	MATH-1104	Discrete Mathematics	3	Compulsory
3	STAT-2131	Introduction to Statistics	3	General
4	ENGL-1119	Communication Skills	3	Compulsory
5	PHYS-1127	Applied Physics-II	3	General
6	ISLS-1112/ ETIC-1112/ PAKS-1113	Islamic Studies/ Ethics/ Pakistan Studies	2	Compulsory
Total Credit Hours			17	

Semester 3

S. No.	Course Code	Course Title	Credit Hours	Remarks
1	MATH-2101	Calculus-III	3	Core
2	MATH-2103	Linear Algebra	3	Core
3	MSCI-2115	Principal of Management	3	General
4	MATH-2105	Introduction to Mechanics	3	Core
5	ENGL-2111	Technical Writing & Presentation Skills	3	Compulsory
6	HLTH-1113	Basic Health Awareness	2	Compulsory
Total Credit Hours			17	

Semester 4

S. No.	Course Code	Course Title	Credit Hours	Remarks
1	MATH-2104	Affine & Euclidean Geometry	3	Core
2	MATH-2106	Number Theory	3	Core
3	MATH-2108	Introduction to Probability Theory	3	Core
4	SSCI-1111	Introduction to Sociology	3	General
5	COSC-1101 COSC-1201	Programming Fundamentals + Lab	3	General
6	SSCI-3120	Constitution & Legal System of Pakistan	2	Compulsory
Total Credit Hours			17	

Semester 5

S. No.	Course Code	Course Title	Credit Hours	Remarks
1	MATH-3116	Numerical Analysis	3	Core
2	MATH-3131	Software Packages for Mathematics	3	General
3	MATH-3105	Ordinary Differential Equations	3	Core
4	MATH-3107	Real Analysis-I	3	Core
5	MATH-3121	Algebra-I	3	Core
6	MATH-3119	Complex Analysis	3	Core
Total Credit Hours			18	

Semester 6

S. No.	Course Code	Course Title	Credit Hours	Remarks
1	MATH-3126	Analytical Mechanics	3	Core
2	MATH-3104	Partial Differential Equations	3	Core
3	MATH-3124	Algebra-II	3	Core
4	MATH-3117	Topology	3	Core
5	MATH-3110	Real Analysis-II	3	Core
6	MATH-3118	Differential Geometry	3	Core
Total Credit Hours			18	

Semester 7

S. No.	Course Code	Course Title	Credit Hours	Remarks
1	MATH-4101	Introduction to Vectors & Tensor Analysis	3	Core
2	MATH-4103	Functional Analysis	3	Core
3	MATH-4105	Operation Research	3	Core
4	MATH-XXXX	E-1	3	Core
5	MATH-XXXX	E-2	3	Core
Total Credit Hours			15	

Semester 8

S. No.	Course Code	Course Title	Credit Hours	Remarks
1	MATH-4102	Mathematical Statistics	3	Core
2	MATH-4104	Integral Equations	3	Core
3	MATH-XXXX	E-3	3	Core
4	MATH-XXXX	E-4	3	Core
5	MATH-XXXX	Project	3	Core
Total Credit Hours			15	

“Listen with ears of Tolerance! See through the eyes of Compassion! Speak with language of Love!”

- Rumi

MSc Mathematics

Semester 1

S. No.	Course Code	Course Title	Credit Hours
1	MATH-3116	Numerical Analysis	3
2	MATH-3131	Software Packages for Mathematics	3
3	MATH-3105	Ordinary Differential Equations	3
4	MATH-3107	Real Analysis-I	3
5	MATH-3121	Algebra-I	3
6	MATH-3119	Complex Analysis	3
Total Credit Hours			18

Semester 2

S. No.	Course Code	Course Title	Credit Hours
1	MATH-3126	Analytical Mechanics	3
2	MATH-3104	Partial Differential Equations	3
3	MATH-3124	Algebra-II	3
4	MATH-3117	Topology	3
5	MATH-3110	Real Analysis-II	3
6	MATH-3118	Differential Geometry	3
Total Credit Hours			18

Semester 3

S. No.	Course Code	Course Title	Credit Hours
1	MATH-4101	Introduction to Vectors & Tensor Analysis	3
2	MATH-4103	Functional Analysis	3
3	MATH-4105	Operation Research	3
4	MATH-XXXX	E-1	3
5	MATH-XXXX	E-2	3
Total Credit Hours			15

Semester 4

S. No.	Course Code	Course Title	Credit Hours
1	MATH-4102	Mathematical Statistics	3
2	MATH-4104	Integral Equations	3
3	MATH-XXXX	E-3	3
4	MATH-XXXX	E-4	3
5	MATH-XXXX	E-5	3
Total Credit Hours			15

MS Mathematics

Semester 1

S. No.	Course Code	Course Title	Credit Hours	Remarks
1	MATH-5101	Advanced Algebra	3	Core
2	MATH-5102	Advanced Mathematical Analysis	3	Core
3	MATH-5103	Advance Partial Differential Equations	3	Core
4	MATH-5104	Advanced Integral Equations	3	Core
Total Credit Hours			12	

Semester 2

S. No.	Course Code	Course Title	Credit Hours	Remarks
1	MATH-	Elective-1	3	Optional
2	MATH-	Elective-2	3	Optional
3	MATH-	Elective-3	3	Optional
4	MATH-	Elective-4	3	Optional
Total Credit Hours			12	

Semester 3 & 4

S. No.	Course Code	Course Title	Credit Hours	Remarks
1	MATH-6601	Thesis	12	Mandatory
Total Credit Hours			12	

PhD Mathematics

Semester 1

S. No.	Course Code	Course Title	Credit Hours	Remarks
1	MATH-	Elective I	3	Optional
2	MATH-	Elective II	3	Optional
3	MATH-	Elective III	3	Optional
Total Credit Hours			9	

Semester 2

S. No.	Course Code	Course Title	Credit Hours	Remarks
1	MATH-	Elective IV	3	Optional
2	MATH-	Elective V	3	Optional
3	MATH-	Elective VI	3	Optional
Total Credit Hours			9	

Semester - 3 and onward

S. No.	Course Code	Course Title	Credit Hours	Remarks
1	MATH-8601	Thesis	30	Compulsory

Elective / Optional Courses and Specialization

S. No.	Course Code	Course Title	Credit Hours	S. No.	Course Code	Course Title	Credit Hours
1	MATH-4151	Mathematical Spaces	3	17	MATH-4168	Quantum Mechanics-I	3
2	MATH-4152	Modelling and Simulation	3	18	MATH-4169	Quantum Mechanics-II	3
3	MATH-5153	Advanced Complex Analysis	3	19	MATH-4170	Relativity-I (Special Theory)	3
4	MATH-4155	History of Mathematics	3	20	MATH-4171	Relativity-II (General Theory)	3
5	MATH-4156	Graph Theory	3	21	MATH-4122	Mathematical Methods	3
6	MATH-4157	Measure Theory-I	3	22	MATH-4173	Solid Mechanics	3
7	MATH-4158	Measure Theory-II	3	23	MATH-4174	Heat Transfer	3
8	MATH-4159	Abstract Algebra	3	24	MATH-4175	Analytical Dynamics	3
9	MATH-4160	Theory of Modules	3	25	MATH-4176	Control Theory	3
10	MATH-4161	Category Theory-I	3	26	MATH-4177	Calculus of Variations and Optimal Control	3
11	MATH-4162	Algebraic Topology	3	27	MATH-4178	Matrix Computation	3
12	MATH-4163	Analytical Number Theory	3	28	MATH-4179	Theory of Automata	3
13	MATH-4164	Astronomy-I (Spherical Astronomy)	3	29	MATH-4180	Advanced Numerical Analysis	3
14	MATH-4165	Astronomy-II (Celestial observation and corrections)	3	30	MATH-4181	Special Function	3
15	MATH-4166	Fluid Mechanics-I	3	31	MATH-4182	Optimization Theory	3
16	MATH-4167	Fluid Mechanics-II	3	32	MATH-4183	Numerical Methods	3

List of Elective Courses for MSc Mathematics Program

S. No.	Course Code	Course Title	Credit Hours	S. No.	Course Code	Course Title	Credit Hours
1	MATH-4151	Mathematical Spaces	3	17	MATH-4168	Quantum Mechanics-I	3
2	MATH-4152	Modelling and Simulation	3	18	MATH-4169	Quantum Mechanics-II	3
3	MATH-5153	Advanced Complex Analysis	3	19	MATH-4170	Relativity-I (Special Theory)	3
4	MATH-4155	History of Mathematics	3	20	MATH-4171	Relativity-II (General Theory)	3
5	MATH-4156	Graph Theory	3	21	MATH-4122	Mathematical Methods	3
6	MATH-4157	Measure Theory-I	3	22	MATH-4173	Solid Mechanics	3
7	MATH-4158	Measure Theory-II	3	23	MATH-4174	Heat Transfer	3
8	MATH-4159	Abstract Algebra	3	24	MATH-4175	Analytical Dynamics	3
9	MATH-4160	Theory of Modules	3	25	MATH-4176	Control Theory	3
10	MATH-4161	Category Theory-I	3	26	MATH-4177	Calculus of Variations and Optimal Control	3
11	MATH-4162	Algebraic Topology	3	27	MATH-4178	Matrix Computation	3
12	MATH-4163	Analytical Number Theory	3	28	MATH-4179	Theory of Automata	3
13	MATH-4164	Astronomy-I (Spherical Astronomy)	3	29	MATH-4180	Advanced Numerical Analysis	3
14	MATH-4165	Astronomy-II (Celestial observation and corrections)	3	30	MATH-4181	Special Function	3
15	MATH-4166	Fluid Mechanics-I	3	31	MATH-4182	Optimization Theory	3
16	MATH-4167	Fluid Mechanics-II	3	32	MATH-4183	Numerical Methods	3

List of all MS Mathematics Courses

S. No.	Course Code	Course Title	Credit Hours	S. No.	Course Code	Course Title	Credit Hours
1	MATH-5101	Advanced Algebra	3(3-0)	20	MATH-6135	Math Techniques for Boundary Value Problems	3(3-0)
2	MATH-5102	Advanced Mathematical Analysis	3(3-0)	21	MATH-6136	Sampling Techniques	3(3-0)
3	MATH-5103	Advance Partial Differential Equations	3(3-0)	22	MATH-6137	Multivariate Analysis	3(3-0)
4	MATH-5104	Advanced Integral Equations	3(3-0)	23	MATH-6138	Finite Mixture Distributions	3(3-0)
5	MATH-6121	Advanced Measure Theory	3(3-0)	24	MATH-6139	Computer Aided Geometric Design	3(3-0)
6	MATH-6122	Advanced Topology	3(3-0)	25	MATH-6140	Advanced Complex Analysis	3(3-0)
7	MATH-6123	Lie Algebra	3(3-0)	26	MATH-6141	Topics in Functional Analysis	3(3-0)
8	MATH-6124	Topological Groups	3(3-0)	27	MATH-6142	Topics in Measure Theory	3(3-0)
9	MATH-6125	Theory of Group Graphs	3(3-0)	28	MATH-6143	Topics in Topology	3(3-0)
10	MATH-6126	Theory of Group Actions	3(3-0)	29	MATH-6144	Banach Algebras	3(3-0)
11	MATH-6127	Approximation Theory	3(3-0)	30	MATH-6145	Lie Groups	3(3-0)
12	MATH-6128	Complex Analysis of Several Variables	3(3-0)	31	MATH-6146	C*-Algebras	3(3-0)
13	MATH-6129	Advanced Functional Analysis	3(3-0)	32	MATH-6147	Topological Algebras	3(3-0)
14	MATH-6130	Magneto-hydrodynamics	3(3-0)	33	MATH-6148	Geometric Function Theory	3(3-0)
15	MATH-6131	Advanced Analytical Dynamics	3(3-0)	34	MATH-6149	Heat and Mass Transfer	3(3-0)
16	MATH-6132	Advanced General Relativity	3(3-0)	35	MATH-6150	Cosmology	3(3-0)
17	MATH-6133	Astrophysics	3(3-0)	36	MATH-6151	Advanced Numerical Analysis	3(3-0)
18	MATH-6134	The Classical Theory of Fields	3(3-0)	37	MATH-6152	Rings and Modules	3(3-0)
19	MATH-6153	Linear Groups and Group Representations	3(3-0)	38	MATH-6154	Lattice Theory	3(3-0)

S. No.	Course Code	Course Title	Credit Hours
40	MATH-6155	Representation Theory	3(3-0)
41	MATH-6156	Numerical Optimization	3(3-0)
42	MATH-6157	Random Number Generation and Monte Carlo Methods	3(3-0)
43	MATH-6158	Mathematical Statistics	3(3-0)
44	MATH-6159	Topological Vector Spaces	3(3-0)
45	MATH-6160	Numerical Solutions of Ordinary Differential Equations	3(3-0)
46	MATH-6161	Newtonian Fluid Mechanics	3(3-0)
47	MATH-6162	Fixed Point Theory	3(3-0)



List of PhD Mathematics Courses

S. No.	Course Code	Course Title	Credit Hours	S. No.	Course Code	Course Title	Credit Hours
1	MATH-6121	Advanced Measure Theory	3(3-0)	20	MATH-6140	Advanced Complex Analysis	3(3-0)
2	MATH-6122	Advanced Topology	3(3-0)	21	MATH-6141	Topics in Functional Analysis	3(3-0)
3	MATH-6123	Lie Algebra	3(3-0)	22	MATH-6142	Topics in Measure Theory	3(3-0)
4	MATH-6124	Topological Groups	3(3-0)	23	MATH-6143	Topics in Topology	3(3-0)
5	MATH-6125	Theory of Group Graphs	3(3-0)	24	MATH-6144	Banach Algebras	3(3-0)
6	MATH-6126	Theory of Group Actions	3(3-0)	25	MATH-6145	Lie Groups	3(3-0)
7	MATH-6127	Approximation Theory	3(3-0)	26	MATH-6146	C* - Algebras	3(3-0)
8	MATH-6128	Complex Analysis of Several Variables	3(3-0)	27	MATH-6147	Topological Algebras	3(3-0)
9	MATH-6129	Advanced Functional Analysis	3(3-0)	28	MATH-6148	Geometric Function Theory	3(3-0)
10	MATH-6130	Magneto-hydrodynamics	3(3-0)	29	MATH-6149	Heat and Mass Transfer	3(3-0)
11	MATH-6131	Advanced Analytical Dynamics	3(3-0)	30	MATH-6150	Cosmology	3(3-0)
12	MATH-6132	Advanced General Relativity	3(3-0)	31	MATH-6151	Advanced Numerical Analysis	3(3-0)
13	MATH-6133	Astrophysics	3(3-0)	32	MATH-6152	Rings and Modules	3(3-0)
14	MATH-6134	The Classical Theory of Fields	3(3-0)	33	MATH-6153	Linear Groups and Group Representations	3(3-0)
15	MATH-6135	Math Techniques for Boundary Value Problems	3(3-0)	34	MATH-6154	Lattice Theory	3(3-0)
16	MATH-6136	Sampling Techniques	3(3-0)	35	MATH-6155	Representation Theory	3(3-0)
17	MATH-6137	Multivariate Analysis	3(3-0)	36	MATH-6156	Numerical optimization	3(3-0)
18	MATH-6138	Finite Mixture Distributions	3(3-0)	37	MATH-6157	Random Number Generation and Monte Carlo Methods	3(3-0)
19	MATH-6139	Computer Aided Geometric Design	3(3-0)	38	MATH-6158	Mathematical Statistics	3(3-0)

S. No.	Course Code	Course Title	Credit Hours	S. No.	Course Code	Course Title	Credit Hours
39	MATH-6159	Topological Vector Spaces	3(3-0)	59	MATH-7132	Advanced Fluid Dynamics	3(3-0)
40	MATH-6160	Numerical Solutions of Ordinary Differential Equations	3(3-0)	60	MATH-7133	Advanced Computer Aided Geometric Design	3(3-0)
41	MATH-6161	Newtonian Fluid Mechanics	3(3-0)	61	MATH-7134	Advanced Analytical Methods	3(3-0)
42	MATH-6162	Fixed Point Theory	3(3-0)	62	MATH-7135	Elasto-dynamics	3(3-0)
43	MATH-7101	Fuzzy Analysis	3(3-0)	63	MATH-7136	Convex Analysis	3(3-0)
44	MATH-7102	Numerical Solution of Partial Differential Equations	3(3-0)	64	MATH-7137	BCK Algebra	3(3-0)
45	MATH-7103	Non-Newtonian Fluid Mechanics	3(3-0)	65	MATH-7138	Computer Graphics	3(3-0)
46	MATH-7104	Calculus of Finite Differences	3(3-0)	66	MATH-7139	Lie Group Analysis of Difference Equations	3(3-0)
47	MATH-7121	Advanced Magneto Hydrodynamics	3(3-0)	67	MATH-7140	Theory of Complex Manifolds	3(3-0)
48	MATH-7122	Advanced Electrodynamics	3(3-0)	68	MATH-7141	BCI Algebra	3(3-0)
49	MATH-7123	Topics in Analytical Dynamics	3(3-0)	69	MATH-7142	Advanced Theory of Rings and Modules	3(3-0)
50	MATH-7124	Group Methods for Differential Equations	3(3-0)				
51	MATH-7125	Advanced Sampling Techniques	3(3-0)				
52	MATH-7126	Advanced Multivariate Analysis	3(3-0)				
53	MATH-7127	Advanced Finite Mixture Distributions	3(3-0)				
54	MATH-7128	Fractional Differential Equations	3(3-0)				
55	MATH-7129	Advances in Discrete Mathematics and Applications	3(3-0)				
56	MATH-7130	Strict Convexity	3(3-0)				
57	MATH-7131	Theory of Differential Equations	3(3-0)				

“Raise your words, not voice. It is rain that grows flowers, not thunder”

- Rumi

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ارادے جن کے پختہ ہوں، نظر جن کی خدا پر ہو
طلاطم خیز موجوں سے وہ گھبرایا نہیں کرتے

حضرت علامہ محمد اقبال رحمۃ اللہ علیہ

Department of

Physics

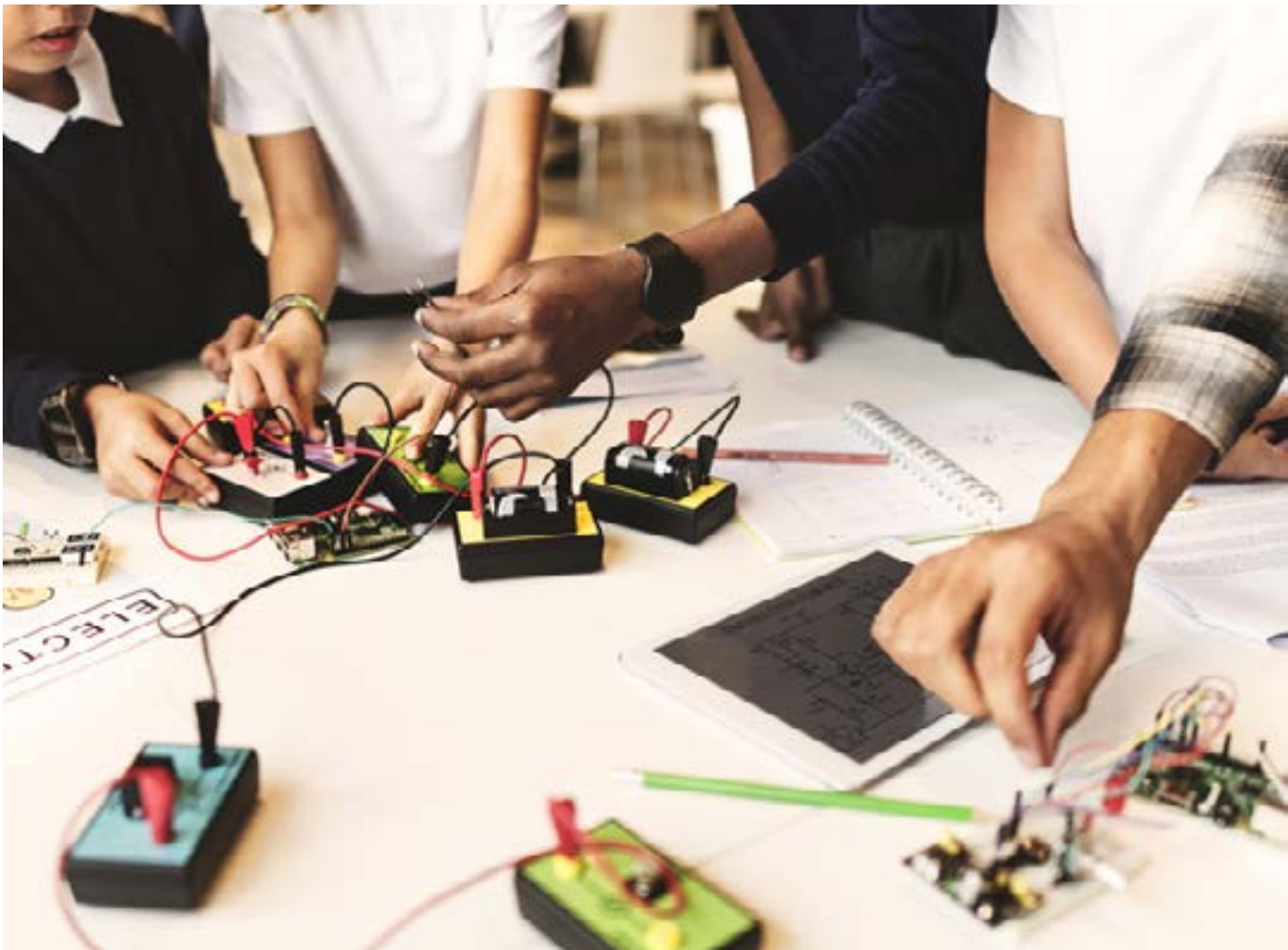
Introduction

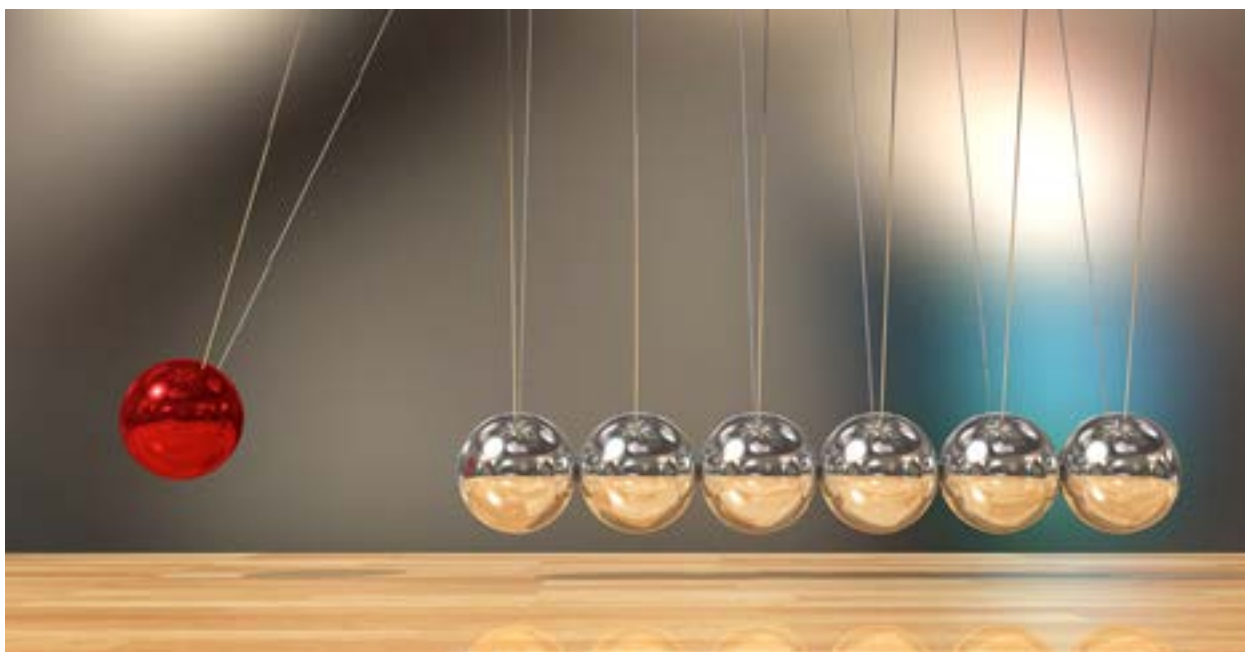
The Department of Physics at Khwaja Fareed University of Engineering and Information Technology is privileged to have highly enriched faculty. Most of the faculty members are PhDs with more than half having international qualification and experience. The department has well-equipped laboratories, advanced learning facilities, technology equipped class rooms and lecture theatres. The courses offered by the department of physics constitute an integrated series of basic and advanced physics topics in different fields of physics.

Vision & Mission

To become the centre of excellence in physics by providing high quality education through rigorous course work, cutting-edge interdisciplinary, multi- disciplinary research and collaboration with industry.

The department seeks to deliver the best scientific methods in teaching the principles of physics theoretically and experimentally, and focuses to maintain the level of education, scientific research and community services.





Key Features / Facilities

- The Physics department has an honour of hiring more than 12 PhD qualified faculty members graduated locally and from various foreign universities.
- Deliver excellent education to nascent scientist and engineers.
- Providing a lively intellectual atmosphere to its under-graduate and graduate students.
- Special attention in teaching and training the students to be at the forefront of the next generation of physicists.
- Department of Physics is equipped with various labs such as:
 - Mechanics Lab
 - Thermodynamics and Electromagnetism Lab
 - Waves and Optics Lab
 - Advance Physics Lab
 - Electronics Lab
 - Modern Physics and Spectroscopy Lab
- Department of Physics has also established a research Lab to fulfil the needs of undergraduate and graduate research projects
- Necessary equipment for materials synthesis is already present the lab, e.g.,
 - Muffle Furnace
 - Magnetic Stirrer
 - Oven Universal Memmert Digital PID control
 - Centrifuge Machine
 - Microscope Trinocular Research Antimould Treated Stand with Camera
- Moreover, Department is in process of purchasing state of the art latest equipment to fulfil the need of material characterization at micro and nano meter scales.
 - X-ray Diffractometer
 - Field Emission Scanning Electron Microscope

Programs being offered

BS Physics
MSc Physics
MS Physics
PhD Physics



BS Physics

Semester 1

S. No.	Course Code	Course Title	Credit Hours
1	COSC-1105	Introduction to ICT	2
2	COSC-1205	Introduction to ICT Lab	1
3	ENGL-1118	Functional English	3
4	HLTH-1113	Basic Health Awareness	2
5	MATH-1101	Calculus-I	3
6	PAKS-1113	Pakistan Studies	2
7	PHYS-1101	Mechanics-I	3
Total Credit Hours			16

Semester 2

S. No.	Course Code	Course Title	Credit Hours
1	ENGL-1119	Communication Skills	3
2	ISLS-1112	Islamic Studies	2
3	MATH-1102	Calculus-II	3
4	PHYS-1108	Heat and Thermodynamics	3
5	PHYS-1102	Mechanics-II	3
6	PHYS-1104	Electricity and Magnetism-I	3
7	PHYS-1201	Mechanics Lab	1
Total Credit Hours			18

Semester 3

S. No.	Course Code	Course Title	Credit Hours
1	ENGL-2111	Technical Writing and Presentation Skills	3
2	MATH-2103	Linear Algebra	3
3	PHYS-2101	Waves and Oscillations	3
4	PHYS-2210	Thermodynamics and Electromagnetism Lab	1
5	PHYS-2105	Electricity and Magnetism-II	3
6	STAT-2104	Probability and Statistics	3
Total Credit Hours			16

Semester 4

S. No.	Course Code	Course Title	Credit Hours
1	CHEM-1108	Introduction to Chemistry	3
2	COSC-2115	Introduction to Computer Program and Applications	2
3	COSC-2215	Introduction to Computer Program and Applications Lab	1
4	MATH-2122	Differential equations	3
5	PHYS-2102	Optics	3
6	PHYS-2108	Modern Physics	3
7	PHYS-2202	Waves and Optics Lab	1
8	SSCI-3120	Constitution and Legal System of Pakistan	2
Total Credit Hours			18

Semester 5

S. No.	Course Code	Course Title	Credit Hours
1	PHYS-3101	Mathematical Methods of Physics-I	3
2	PHYS-3103	Electrodynamics-I	3
3	PHYS-3105	Classical Mechanics-I	3
4	PHYS-3113	Introduction to Computational Physics	3
5	PHYS-3211	Modern Physics & Spectroscopy Lab	2
6	PHYS-3109	Circuits and Devices	3
Total Credit Hours			17

Semester 6

S. No.	Course Code	Course Title	Credit Hours
1	PHYS-3102	Mathematical Methods of Physics-II	3
2	PHYS-3104	Electrodynamics-II	3
3	PHYS-3106	Classical Mechanics-II	3
4	PHYS-3110	Quantum Mechanics-I	3
5	PHYS-3116	Digital Electronics	3
6	PHYS-3215	Electronics Lab	2
Total Credit Hours			17

Semester 7

S. No.	Course Code	Course Title	Credit Hours
1	PHYS-3112	Nuclear Physics	3
2	PHYS-4105	Solid State Physics-I	3
3	PHYS-4109	Quantum Mechanics-II	3
4	PHYS-4111	Statistical Physics	3
5	PHYS-4211	Advanced Physics Lab	2
6	PHYS-XXXX	Elective-I	3
Total Credit Hours			17

Semester 8

S. No.	Course Code	Course Title	Credit Hours
1	PHYS-4106	Solid State Physics-II	3
2	PHYS-4108	Atomic and Molecular Physics	3
3	PHYS-XXXX	Elective-II	3
4	PHYS-XXXX	Elective-III	3
5	PHYS-4360	Project	3
Total Credit Hours			15

Program Total Credit Hours

134

MSc Physics

Semester 1

S. No.	Course Code	Course Title	Credit Hours
1	PHYS-3101	Mathematical Methods of Physics-I	3
2	PHYS-3103	Electrodynamics-I	3
3	PHYS-3105	Classical Mechanics-I	3
4	PHYS-3113	Introduction to Computational Physics	3
5	PHYS-3211	Modern Physics & Spectroscopy Lab	2
6	PHYS-3109	Circuits and Devices	3
Total Credit Hours			17

Semester 2

S. No.	Course Code	Course Title	Credit Hours
1	PHYS-3102	Mathematical Methods of Physics-II	3
2	PHYS-3104	Electrodynamics-II	3
3	PHYS-3106	Classical Mechanics-II	3
4	PHYS-3110	Quantum Mechanics-I	3
5	PHYS-3116	Digital Electronics	3
6	PHYS-3215	Electronics Lab	2
Total Credit Hours			17

Semester 3

S. No.	Course Code	Course Title	Credit Hours
1	PHYS-3112	Nuclear Physics	3
2	PHYS-4105	Solid State Physics-I	3
3	PHYS-4109	Quantum Mechanics-II	3
4	PHYS-4111	Statistical Physics	3
5	PHYS-4211	Advanced Physics Lab	2
6	PHYS-XXXX	Elective-I	3
Total Credit Hours			17

Semester 4

S. No.	Course Code	Course Title	Credit Hours
1	PHYS-4106	Solid State Physics-II	3
2	PHYS-4108	Atomic and Molecular Physics	3
3	PHYS-XXXX	Elective-II	3
4	PHYS-XXXX	Elective-III	3
5	PHYS-XXXX	Elective-IV / Project	3
Total Credit Hours			15

Program Total Credit Hours

66

MS Physics**Semester 1**

S. No.	Course Code	Course Title	Credit Hrs.	
			Theory	Remarks
1	PHYS-5101	Mathematical Methods of Physics	3	Compulsory
2	PHYS-5103	Advanced Electrodynamics	3	Compulsory
3	PHYS-6105	Advanced Quantum Mechanics	3	Compulsory
4	PHYS-6107	Advanced Classical Mechanics	3	Compulsory
Total Credit Hours			12	

Semester 2

S. No.	Course Code	Course Title	Credit Hrs.	
			Theory	Remarks
1	PHYS-6108	Statistical Physics	3	Compulsory
2	PHYS-XXXX	Graduate Level Physics Course	3	Elective-I
3	PHYS-XXXX	Graduate Level Physics Course	3	Elective-II
4	PHYS-XXXX	Graduate Level Physics Course	3	Elective-III
Total Credit Hours			12	

Semester 3 & 4

S. No.	Course Code	Course Title	Credit Hrs.	
			Theory	Remarks
1	PHYS-6601	Thesis	12	Mandatory
Total Credit Hours			12	

Program Total Credit Hours

36

PhD Physics**Semester 1**

S. No.	Course Code	Course Title	Credit Hrs.	
			Theory	Remarks
1	PHYS-XXXX	Graduate Level Physics Course	3	Elective-I
2	PHYS-XXXX	Graduate Level Physics Course	3	Elective-II
3	PHYS-XXXX	Graduate Level Physics Course	3	Elective-III
Total Credit Hours			9	

Semester 2

S. No.	Course Code	Course Title	Credit Hrs.	
			Theory	Remarks
1	PHYS-XXXX	Graduate Level Physics Course	3	Elective-IV
2	PHYS-XXXX	Graduate Level Physics Course	3	Elective-V
3	PHYS-XXXX	Graduate Level Physics Course	3	Elective-VI
Total Credit Hours			9	

Semester 3 and onwards

S. No.	Course Code	Course Title	Credit Hrs.	
			Theory	Remarks
1	PHYS-8601	Thesis	30	Mandatory
Total Credit Hours			30	

Program Total Credit Hours

48

The Participants of 7th ICSMAND International Conference with VC of KFUEIT

List of Elective Courses

Elective Courses (BS / MSc Program)

S. No.	Course Code	Course Title	Credit Hours	S. No.	Course Code	Course Title	Credit Hours
1	PHYS-4110	Plasma Physics	3	15	PHYS-4138	Computational Physics	3
2	PHYS-4112	Methods of Experimental Physics	3	16	PHYS-4140	Solid State Electronic Devices	3
3	PHYS-4114	Introduction to Quantum Computing	3	17	PHYS-4142	Environmental Physics	3
4	PHYS-4116	Quantum Information Theory	3	18	PHYS-4144	Characterization Techniques for Nano-materials	3
5	PHYS-4118	Introduction to optoelectronics	3	19	PHYS-4146	Chemical and Physical Synthesis of Nanomaterials	3
6	PHYS-4120	Experimental Techniques in Particle and Nuclear Physics	3	20	PHYS-4148	Laser and Quantum optics	3
7	PHYS-4122	Electronic Materials and Devices	3	21	PHYS-4150	Quantum Field Theory	3
8	PHYS-4124	Fluid Dynamics	3	22	PHYS-4152	Physical and Geometrical Optics	3
9	PHYS-4126	Introduction to Photonics	3	23	PHYS-4154	Introduction to Laser Physics	3
10	PHYS-4128	Introduction to Material Science	3	24	PHYS-4156	Sub-Atomic Physics-I	3
11	PHYS-4130	Introduction to Nano Science and Nano-technologies	3	25	PHYS-4158	Sub-Atomic Physics-II	3
12	PHYS-4132	Introduction to Particle Physics	3	26	PHYS-4160	Introduction to Quantum Information and Computation	3
13	PHYS-4134	Computer Simulations in Physics	3				
14	PHYS-4136	Surface Science	3				

Elective Courses (MS Physics Program)

S. No.	Course Code	Course Title	Credit Hours	S. No.	Course Code	Course Title	Credit Hours
1	MSCI-6102	Research Methodology	3	26	PHYS-6171	Atomic and Electron Physics	3
2	PHYS-6113	Semiconductor Theory	3	27	PHYS-6172	Advanced Atomic and Electron Physics	3
3	PHYS-6114	Magnetism in Condensed Matter	3	28	PHYS-6173	Nuclear Theory	3
4	PHYS-6115	Methods and Techniques of Experimental Physics	3	29	PHYS-6174	Advanced Nuclear Theory	3
5	PHYS-6116	Optical Properties of Solids	3	30	PHYS-6141	Quantum Field Theory	3
6	PHYS-6117	Nanophysics and Nanotechnology	3	31	PHYS-6142	Advanced Quantum Field Theory	3
7	PHYS-6118	Advanced Nanophysics and Nanotechnology	3	32	PHYS-6143	Laser Physics	3
8	PHYS-6162	Quantum Optics	3	33	PHYS-6144	Advanced Laser Physics	3
9	PHYS-6164	Condensed Matter Theory	3	34	PHYS-6145	Computational Physics	3
10	PHYS-6166	Quantum Information Theory	3	35	PHYS-6146	Advanced Computational Physics	3
11	PHYS-6125	Materials Science	3	36	PHYS-6147	Physics of Non-linear Systems	3
12	PHYS-6126	Plasma Physics	3	37	PHYS-6148	Advanced Techniques of Experimental Physics	3
13	PHYS-6160	Group Theory	3	38	PHYS-6149	Applied Nuclear Physics	3
14	PHYS-6129	Superconductivity	3	39	PHYS-6150	Magnetic Materials	3
15	PHYS-6130	Particle Physics	3	40	PHYS-6151	Renewable Energy Resources	3
16	PHYS-6127	Advanced Plasma Physics	3	41	PHYS-6152	Conduction in Solids	3
17	PHYS-6131	General Relativity and Cosmology	3	42	PHYS-6153	Soil Physics	3
18	PHYS-6165	Advanced Condensed Matter Theory	3	43	PHYS-6154	Environmental and Atmospheric Physics	3
19	PHYS-6168	Experimental Plasma Physics	3	44	PHYS-6155	Microelectronics and Semiconductor Devices	3
20	PHYS-6163	Advanced Quantum Optics	3	45	PHYS-6156	Optoelectronics	3
21	PHYS-6133	Atomic Physics	3	46	PHYS-6157	Thin Films Technology	3
22	PHYS-6167	Advanced Quantum Information Theory	3	47	PHYS-6158	X-Ray and Electron Diffraction	3
23	PHYS-6169	Accelerator Techniques for Materials	3	48	PHYS-6159	Defects in Solids	3
24	PHYS-6135	Solid State Physics	3	49	PHYS-6161	Structure and Properties of Materials	3
25	PHYS-6170	Solid State Theory	3	50	PHYS-6175	Nano magnetism	3



Champions of Sports (Department of Physics)

Elective Courses (PhD Physics)

S. No.	Course Code	Course Title	Credit Hours	S. No.	Course Code	Course Title	Credit Hours
1	PHYS-6105	Advanced Quantum Mechanics	3	26	PHYS-6169	Accelerator Techniques for Materials	3
2	PHYS-6107	Advanced Classical Mechanics	3	27	PHYS-6135	Solid State Physics	3
3	PHYS-6108	Statistical Physics	3	28	PHYS-6170	Solid State Theory	3
4	MSCI-6102	Research Methodology	3	29	PHYS-6171	Atomic and Electron Physics	3
5	PHYS-6113	Semiconductor Theory	3	30	PHYS-6172	Advanced Atomic and Electron Physics	3
6	PHYS-6114	Magnetism in Condensed Matter	3	31	PHYS-6173	Nuclear Theory	3
7	PHYS-6115	Methods and Techniques of Experimental Physics	3	32	PHYS-6174	Advanced Nuclear Theory	3
8	PHYS-6116	Optical Properties of Solids	3	33	PHYS-6141	Quantum Field Theory	3
9	PHYS-6117	Nanophysics and Nanotechnology	3	34	PHYS-6142	Advanced Quantum Field Theory	3
10	PHYS-6118	Advanced Nanophysics and Nanotechnology	3	35	PHYS-6143	Laser Physics	3
11	PHYS-6162	Quantum Optics	3	36	PHYS-6144	Advanced Laser Physics	3
12	PHYS-6164	Condensed Matter Theory	3	37	PHYS-6145	Computational Physics	3
13	PHYS-6166	Quantum Information Theory	3	38	PHYS-6146	Advanced Computational Physics	3
14	PHYS-6125	Materials Science	3	39	PHYS-6147	Physics of Non-linear Systems	3
15	PHYS-6126	Plasma Physics	3	40	PHYS-6148	Advanced Techniques of Experimental Physics	3
16	PHYS-6160	Group Theory	3	41	PHYS-6149	Applied Nuclear Physics	3
17	PHYS-6129	Superconductivity	3	42	PHYS-6150	Magnetic Materials	3
18	PHYS-6130	Particle Physics	3	43	PHYS-6151	Renewable Energy Resources	3
19	PHYS-6127	Advanced Plasma Physics	3	44	PHYS-6152	Conduction in Solids	3
20	PHYS-6131	General Relativity and Cosmology	3	45	PHYS-6153	Soil Physics	3
21	PHYS-6165	Advanced Condensed Matter Theory	3	46	PHYS-6154	Environmental and Atmospheric Physics	3
22	PHYS-6168	Experimental Plasma Physics	3	47	PHYS-6155	Microelectronics and Semiconductor Devices	3
23	PHYS-6163	Advanced Quantum Optics	3	48	PHYS-6156	Optoelectronics	3
24	PHYS-6133	Atomic Physics	3	49	PHYS-6157	Thin Films Technology	3
25	PHYS-6167	Advanced Quantum Information Theory	3	50	PHYS-6158	X-Ray and Electron Diffraction	3
				51	PHYS-6159	Defects in Solids	3
				52	PHYS-6161	Structure and Properties of Materials	3
				53	PHYS-6175	Nano-magnetism	3



Spring Fiesta 2019



7th ICMAND 2019 International Conference (Department of Physics)



Faculty Group Photo with Vice Chancellor, Senior Dean & External Delegates (Department of Physics)



Annual Dinner 2018 (Department of Physics)

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Faculty of

**Management Sciences
& Humanities**

Department of

Management Sciences

Introduction and Overview

Realizing the importance and growing need of business and management related education; Department of Management Sciences was established in March, 2017 at KFUEIT. In order to deliver innovative, relevant and forward looking education, training, consultancy and research, the Department of Management Sciences is offering various programs including BBA, BS Public Administration, BS Economics, MBA, MS Management Sciences and MS Engineering Management. The programs offered have reputation for excellence in professional education. These programs are rigorous and intensive offering participants the opportunity to think strategically, tackle complex issues regarding marketing, finance, human resource management, public administration, economy and engineering management. For wholesome development of its students, Department of Management Sciences strongly believes in close coordination and interaction between academia and industry through frequent liaison, joint field projects, research activities, workshops, seminars and lectures by experts of various industries located locally as well as at national level. If you want to work as a professional administrator in top notch organizations or you want to be an entrepreneur, it is the best place to join and move towards excellence.



Programs being offered

BBA	MBA (2 years)
BS Economics	MBA (2.5 years)
BS Public Administration	MS Management Sciences
	MS Engineering Management

* Subject to approval / NOC from HEC / Competent Authority / Accreditation Body

Vision

We seek to be a leading Management Sciences Department in the region with national prospective and to be recognized for teaching and knowledge creation excellence.

Mission

To develop knowledgeable and socially responsible individuals with intellectual ability to assume leadership roles in the society and organizations.



Skit Play (24-11-2018)



Opening Ceremony of Business Profile EXPO'19 (25-04-2019)



Champions of Spring Fiesta (04-04-2019)

Scheme of Study

BBA (4 Years)

Semester 1

S. No.	Course Code	Course Title	Credit Hours
1	ENGL-1118	Functional English	3
2	COSC-1105 & 1205	Introduction to ICT (Theory + Lab)	2+1
3	PAKS-1114	Pakistan Studies	2
4	MATH-1105	Fundamentals of Mathematics	3
5	MSCI-1101	Introduction to Business	3
6	HLTH-1113	Basic Health Awareness	2
Semester Credit Hours			16

Semester 2

S. No.	Course Code	Course Title	Credit Hours
1	ENGL-1119	Communication Skills	3
2	MSCI-1102	Principles of Management	3
3	ECON-2112	Micro Economics	3
4	STAT-1103	Introduction to Statistics	3
5	ISLS-1113	Islamic Studies	2
6	SSCI-3120	Constitution and Legal System of Pakistan	2
Semester Credit Hours			16

Semester 3

S. No.	Course Code	Course Title	Credit Hours
1	SSCI-1110	Contemporary World	3
2	ECON-2113	Macro Economics	3
3	STAT-3113	Inferential Statistics	3
4	ENGL-2111	Technical Writing and Presentation Skills	3
5	MSCI-2116	Principles of Accounting	3
6	MSCI-2101	Human Resource Management	3
Semester Credit Hours			18

Semester 4

S. No.	Course Code	Course Title	Credit Hours
1	ENSC-1101	Introduction to Environmental Sciences	3
2	MSCI-2102	Financial Accounting	3
3	LNNG-1111	Language Course (Chinese/Arabic/French)	3
4	ECON-2111	Economy of Pakistan	3
5	SSCI-4101	Principles of Psychology	3
6	MSCI-2104	Principles of Marketing	3
Semester Credit Hours			18

Semester 5

S. No.	Course Code	Course Title	Credit Hours
1	MSCI-3101	Marketing Management	3
2	MSCI-3103	Business Finance	3
3	MSCI-3105	Professional Ethics and Corporate Social Responsibility	3
4	COSC-2121	Management Information Systems	3
5	MSCI-3107	Managerial Accounting	3
6	SSCI-1111	Managerial Accounting	3
Semester Credit Hours			18

Semester 6

S. No.	Course Code	Course Title	Credit Hours
1	MSCI-3114	Research Methods & Techniques	3
2	MSCI-3104	Financial Management	3
3	MSCI-3106	Production and Operations Management	3
4	MSCI-3108	Financial Institutions and Markets	3
5	MSCI-3110	Organizational Behavior	3
6	MSCI-3112	Consumer Behavior	3
Semester Credit Hours			18

Semester 7

S. No.	Course Code	Course Title	Credit Hours
1	MSCI-3111	Entrepreneurship	3
2	MSCI-4101	Business Law	3
3	MSCI-4155	Total Quality Management	3
4	MSCI-XXXX	Elective – I	3
5	MSCI-XXXX	Elective – II	3
Semester Credit Hours			15

Semester 8

S. No.	Course Code	Course Title	Credit Hours
1	MSCI-4102	International Business Management	3
2	MSCI-4104	Money and Banking	3
3	MSCI-XXXX	Elective – III	3
4	MSCI-XXXX	Elective – IV	3
5	MSCI-4301	Research Project	3
Semester Credit Hours			15

List of Elective Courses

Specialization 1: Human Resource Management (HRM) Specialization 2: Finance

S. No.	Core Courses	Course Title
1.	MSCI-4121	Human Resource Development
2.	MSCI-4122	Workforce Diversity Management
3.	MSCI-4123	Workforce Planning and Management
4.	MSCI-4124	Employee Relations Management
5.	MSCI-4125	Performance Management
6.	MSCI-4126	Compensation Management
7.	MSCI-4127	Organizational Change and Development
8.	MSCI-4128	Labour Economics
9.	MSCI-4129	International Human Resource Management

S. No.	Core Courses	Course Title
1.	MSCI-4130	Financial Markets and Institutions
2.	MSCI-4131	Investment Analysis
3.	MSCI-4132	Financial Statement Analysis
4.	MSCI-4133	Capital Budgeting
5.	MSCI-4134	Islamic Finance
6.	MSCI-4135	International Finance
7.	MSCI-4136	Commercial Banking
8.	MSCI-4137	Principle of Risk Management
9.	MSCI-4138	Valuation
10.	MSCI-4139	Risk and Corporate Governance

Specialization 3: Supply Chain Management

S. No.	Core Courses	Course Title
1.	MSCI-4153	Logistics and Transportation Management
2.	MSCI-4154	Global Supply Chain Management
3.	MSCI-4155	Total Quality Management
4.	MSCI-4156	Production Planning and Inventory Control

Specialization 4: Project Management

S. No.	Core Courses	Course Title
1.	MSCI-4149	Project Management Process
2.	MSCI-4150	Project Management Leadership
3.	MSCI-4151	Project Risk Management
4.	MSCI-4152	Project Management Scheduling

Specialization 5: Marketing Specialization

S. No.	Core Courses	Course Title
1.	MSCI-4140	Advertising and Promotion
2.	MSCI-4141	Service Marketing
3.	MSCI-4142	Marketing Research Design and Analysis
4.	MSCI-4143	Selling and Sales Management
5.	MSCI-4144	Customer Loyalty Management
6.	MSCI-4145	Global Marketing
7.	MSCI-4146	New Product Development
8.	MSCI-4147	Internet Marketing
9.	MSCI-4148	Retail Marketing

"In an effective classroom, students should not only know what they are doing, they should also know why and how"

-Harry Wong

BS Economics (4 Years)**Semester 1**

S. No.	Course Code	Course Title	Credit Hours
1	ENGL-1118	Functional English	3
2	ECON-1101	Principles of Micro Economics	3
3	PAKS-1114	Pakistan Studies	2
4	MATH-1111	Mathematics-I	3
5	COSC-1105 & 1205	Introduction to ICT (Theory + Lab)	2+1
6	HLTH-1113	Basic Health Awareness	2
Semester Credit Hours			16

Semester 2

S. No.	Course Code	Course Title	Credit Hours
1	ENGL-1119	Communication Skills	3
2	ECON-1102	Principles of Macro Economics	3
3	MATH-1112	Mathematics-II	3
4	SSCI-3120	Constitution and Legal system of Pakistan	3
5	SSCI-1102	Principles of Management	3
6	ISLS-1113	Islamic Studies	2
Semester Credit Hours			16

Semester 3

S. No.	Course Code	Course Title	Credit Hours
1	ENGL-2111	Technical Writing and Presentation Skills	3
2	ECON-2101	Intermediate Microeconomics	3
3	ECON-2105	Development Economics	3
4	STAT-1103	Introduction to Statistics	3
5	MSCI-2102	Financial Accounting	3
6	SSCI-4101	Principles of Psychology	3
Semester Credit Hours			18

Semester 4

S. No.	Course Code	Course Title	Credit Hours
1	LNNG-1111	Language Course (Chinese/Arabic/French)	3
2	ECON-2102	Intermediate Macroeconomics	3
3	STAT-3113	Inferential Statistics	3
4	ECON-2104	World Economic History	3
5	MSCI-2104	Principles of Marketing	3
6	MSCI-3105	Professional Ethics and CSR	3
Semester Credit Hours			18

Semester 5

S. No.	Course Code	Course Title	Credit Hours
1	ECON-3102	Economic Growth	3
2	ECON-2112	Micro Economics	3
3	MATH-2111	Mathematical Economics-I	3
4	ECON-2111	Economy of Pakistan	3
5	MSCI-3104	Financial Management	3
Semester Credit Hours			15

Semester 6

S. No.	Course Code	Course Title	Credit Hours
1	ECON-2113	Macro Economics	3
2	ECON-3104	Econometrics-I	3
3	MATH-3101	Mathematical Economics-II	3
4	MSCI-3114	Research Methods and Techniques	3
5	MSCI-3111	Entrepreneurship	3
Semester Credit Hours			15

Semester 7

S. No.	Course Code	Course Title	Credit Hours
1	ECON-4001	International Trade Theory	3
2	ECON-4101	Public Sector Economics	3
3	ECON-4103	Econometrics-II	3
4	ECON-XXXX	Area of Specialization Course – I	3
5	ECON-XXXX	Area of Specialization Course – II	3
Semester Credit Hours			15

Semester 8

S. No.	Course Code	Course Title	Credit Hours
1	ECON-4102	Islamic Economics	3
2	ECON-4104	Monetary Economics	3
3	ECON-XXXX	Area of Specialization Course – III	3
4	ECON-XXXX	Area of Specialization Course – IV	3
5	ECON-4301	Research Project	3
Semester Credit Hours			15

List of Elective Courses

Specialization 1: Development Economics

S. No.	Course Code	Course Title	Credit Hours
1	ECON-4111	Institutional Economics	3
2	ECON-4112	Welfare and Happiness Economics	3
3	ECON-4113	Labor Economics	3
4	ECON-4114	Population Economics	3
5	ECON-4115	Comparative Economic System	3
6	ECON-4116	Environmental and Natural Resource Economics	3
7	ECON-4117	Rural Development	3
8	ECON-4118	Public Policies	3
9	ECON-4119	Ethics in Economics	3
10	ECON-4120	Development Policy	3
11	ECON-4121	Managerial Economics	3

Specialization 2: Economics and Finance

S. No.	Course Code	Course Title	Credit Hours
1	MSCI-4130	Financial Markets and Institutions	3
2	MSCI-4131	Investment Analysis	3
3	MSCI-4132	Financial Statement Analysis	3
4	MSCI-4133	Capital Budgeting	3
5	MSCI-4134	Islamic Finance	3
6	MSCI-4135	International Finance	3
7	MSCI-4136	Commercial Banking	3
8	MSCI-4137	Principle of Risk Management	3
9	MSCI-4139	Ethics, Risk and Corporate Governance	3

BS Public Administration

Semester 1

S. No.	Course Code	Course Title	Credit Hours
1	ENGL-1118	Functional English	3
2	COSC-1105 & 1205	Introduction to ICT (Theory + Lab)	2+1
3	PAKS-1114	Pakistan Studies	2
4	PADM-1101	Introduction to Public Administration	3
5	HLTH-1113	Basic Health Awareness	2
6	MATH-1105	Fundamentals of Mathematics	3
Semester Credit Hours			16

Semester 2

S. No.	Course Code	Course Title	Credit Hours
1	ENGL-1119	Communication Skills	3
2	ISLS-1113	Islamic Studies	2
3	ECON-2112	Micro Economics	3
4	MSCI-1102	Principles of Management	3
5	PADM-1102	Administrative Ethics	3
6	STAT-1110	Introduction to Statistics	3
Semester Credit Hours			17

Semester 3

S. No.	Course Code	Course Title	Credit Hours
1	STAT-3113	Inferential Statistics	3
2	ENGL-2111	Technical Writing and Presentation Skills	3
3	MSCI-2101	Human Resource Management	3
4	SSCI-1111	Introduction to Sociology	3
5	ECON-2113	Macro Economics	3
6	SSCI-3120	Constitution and Legal System of Pakistan	2
Semester Credit Hours			17

Semester 4

S. No.	Course Code	Course Title	Credit Hours
1	LNGN-1111	Language Course (Chinese/Arabic/French)	3
2	PADM-2102	World Civilization	3
3	PADM-2104	Introduction to Public Policy	3
4	MSCI-2104	Principles of Marketing	3
5	SSCI-4101	Principles of Psychology	3
6	MSCI-2102	Financial Accounting	3
Semester Credit Hours			18

Semester 5

S. No.	Course Code	Course Title	Credit Hours
1	PADM-3101	Government & Society in Pakistan	3
2	PADM-3103	Principles of Public Finance	3
3	PADM-3105	Introduction to Development Economics	3
4	PADM-3107	Logic & Critical Thinking	3
5	LEDU-4124	Constitutional Development in Pakistan	3
6	MSCI-3110	Organizational Behavior	3
Semester Credit Hours			18

Semester 6

S. No.	Course Code	Course Title	Credit Hours
1	MSCI-3114	Research Methods & Techniques	3
2	LEDU-5142	Administrative Law	3
3	SSCI-3112	International Relations	3
4	PADM-3101	Decentralization & Governance	3
5	MSCI-3111	Entrepreneurship	3
6	MSCI-3104	Financial Management	3
Semester Credit Hours			18

Semester 7

S. No.	Course Code	Course Title	Credit Hours
1	MSCI-XXXX	Area of Specialization Course – I	3
2	MSCI-XXXX	Area of Specialization Course – II	3
3	MSCI-4102	International Business Management	3
4	PADM-4101	Managing Public & Non-Profit Organizations	3
5	PADM-4103	Contemporary Issues of Public Administration in Pakistan	3
6	PADM-4105	Public Policy Analysis	3
Semester Credit Hours			18

Semester 8

S. No.	Course Code	Course Title	Credit Hours
1	MSCI-XXXX	Area of Specialization Course – III	3
2	MSCI-XXXX	Area of Specialization Course – IV	3
3	MSCI-2110	Project Management	3
4	PADM-4302	Research Project	6
Semester Credit Hours			15

List of Elective Courses

Specialization 1: Development Studies

S. No.	Core Courses	Course Title
1.	PADM-4111	Community and Rural Development
2.	PADM-4112	Human Rights and Development
3.	PADM-4113	Sustainable Development
4.	PADM-4114	Development Planning and Administration

Specialization 2: E-Governance

S. No.	Core Courses	Course Title
1.	PADM-4111	E- Management and Public Administration
2.	PADM-4112	Service Innovation
3.	PADM-4113	Implementing e-Government Projects
4.	PADM-4114	ICTs Management

Specialization 3: Human Resource Management (HRM)

S. No.	Core Courses	Course Title
1.	MSCI-4121	Human Resource Development
2.	MSCI-4122	Workforce Diversity Management
3.	MSCI-4123	Workforce Planning and Management
4.	MSCI-4124	Employee Relations Management
5.	MSCI-4125	Performance Management
6.	MSCI-4126	Compensation Management
7.	MSCI-4127	Organizational Change and Development
8.	MSCI-4128	Labor Economics
9.	MSCI-4129	International Human Resource Management

Specialization 4: Finance

S. No.	Core Courses	Course Title
1.	MSCI-4130	Financial Markets and Institutions
2.	MSCI-4131	Investment Analysis
3.	MSCI-4132	Financial Statement Analysis
4.	MSCI-4133	Capital Budgeting
5.	MSCI-4134	Islamic Finance
6.	MSCI-4135	International Finance
7.	MSCI-4136	Commercial Banking
8.	MSCI-4137	Principle of Risk Management
9.	MSCI-4139	Ethics, Risk and Corporate Governanc

Specialization 5: Marketing

S. No.	Core Courses	Course Title
1.	MSCI-4140	Advertising and Promotion
2.	MSCI-4141	Service Marketing
3.	MSCI-4142	Marketing Research Design and Analysis
4.	MSCI-4143	Selling and Sales Management
5.	MSCI-4144	Customer Loyalty Management
6.	MSCI-4145	Global Marketing
7.	MSCI-4146	New Product Development
8.	MSCI-4147	Internet Marketing
9.	MSCI-4148	Retail Marketing

Specialization 6: Public Health Administration

S. No.	Core Courses	Course Title
1.	PADM-4119	Essential of Public Health
2.	PADM-4120	Hospital Management
3.	PADM-4121	Disaster Management
4.	PADM-4122	Public Health Policy Analysis

Specialization 7: Public Policy

S. No.	Core Courses	Course Title
1.	PADM-4123	Theories of Public Policies
2.	PADM-4124	Theories and Actors of Policy Process
3.	PADM-4125	Media, Politics and Public Policy
4.	PADM-4126	Economics for Public Policy

“Never give up – Today is hard, tomorrow is worse, but the day after tomorrow will be sunshine”

- Jack MA

MBA (2 Years)

Semester 1

S. No.	Course Code	Course Title	Credit Hours	Course Category
1	MSCI-6101	Strategic Management	3	Core
2	MSCI-6103	Strategic Finance	3	Core
3	MSCI-6105	Strategic Marketing	3	Core
4	MSCI-6107	Strategic Human Resource Management	3	Core
Semester Credit Hours			12	

Semester 2

S. No.	Course Code	Course Title	Credit Hours	Course Category
1	MSCI-6102	Research Methodology	3	Core
2	MSCI-6104	Leadership and Organizational Behavior	3	Core
3	MSCI-XXXX	Elective 1	3	Elective
4	MSCI-XXXX	Elective 2	3	Elective
Semester Credit Hours			12	

Semester 3 & 4

S. No.	Course Code	Course Title	Credit Hours	Course Category
1	MSCI-6301/ MSCI-6601	Project /Thesis	12	Mandatory
Semester Credit Hours			12	

List of Elective Courses

Specialization 1: Supply Chain Management

S. No.	Core Courses	Course Title
1.	MSCI-6110	Logistics Management
2.	MSCI-6111	Procurement and Supply Chain Management
3.	MSCI-6112	Marketing Channels
4.	MSCI-6113	Enterprise Systems and Supply Chain Management
5.	MSCI-6114	Applied Time Series Analysis for Forecasting
6.	MSCI-6115	Strategic Outsourcing
7.	MSCI-6136	Supply Chain Management

Specialization 2: Finance

S. No.	Core Courses	Course Title
1.	MSCI-6116	Corporate Finance
2.	MSCI-6117	International Financial Management
3.	MSCI-6118	Investment & Portfolio Management
4.	MSCI-6119	Banking and Credit Markets
5.	MSCI-6120	Topics in Capital Budgeting
6.	MSCI-6121	Risk Management and Insurance
7.	MSCI-6122	Alternative Investments and Funds Management
8.	MSCI-6123	Enterprise Risk Management
9.	MSCI-6124	Financial Reporting and Analysis

Specialization 3: Human Resource Management

S. No.	Core Courses	Course Title
1.	MSCI-6125	Current Issues in Human Resource Management
2.	MSCI-6126	Strategies in Human Resource Management
3.	MSCI-6127	Introduction to Corporate Human Resource Management
4.	MSCI-6128	Labor Laws and Industrial Relations
5.	MSCI-6129	Work and Organizational Psychology
6.	MSCI-6130	Organization Staffing
7.	MSCI-6131	Leadership and Executive Development
8.	MSCI-6132	Performance Management and Motivation
9.	MSCI-6133	Compensation, Incentives and Governance
10.	MSCI-6115	Strategic Outsourcing

Specialization 4: Management

S. No.	Core Courses	Course Title
1.	MSCI-6134	Cases in Small Business & Entrepreneurship
2.	MSCI-6135	Topics in Quality Management
3.	MSCI-6136	Supply Chain Management
4.	MSCI-6137	Technology Management
5.	MSCI-6138	Current Issues in Management
6.	MSCI-6139	Business Process Management
7.	MSCI-6140	Innovation Management

Specialization 5: Marketing

S. No.	Core Courses	Course Title
1.	MSCI-6141	International Marketing
2.	MSCI-6142	Advanced Topics in Consumer Behavior
3.	MSCI-6143	Products Management
4.	MSCI-6144	Current Issues in Marketing
5.	MSCI-6145	Brand Management
6.	MSCI-6146	Pricing Strategy
7.	MSCI-6147	Service Marketing Strategy

Specialization 6: Project Management

S. No.	Core Courses	Course Title
1.	MSCI-6148	Contract Management
2.	MSCI-6149	Project Management
3.	MSCI-6150	Project Manager Competency Development
4.	MSCI-6151	Project Planning & Management



Spring Fiesta (04-04-2019)



Students Participating in KIET Business Intellect Contest (31-03-2019)

MBA (2.5 Years)

Semester 1

S. No.	Course Code	Course Title	Credit Hours	Course Category
1	MSCI-5101	Theory and Practices of Management	3	Core
2	MATH-5121	Business Mathematics and Statistics	3	Core
3	ECON-5101	Business Economics	3	Core
4	ENGL-5121	Speech Communication	3	Core
5	MSCI-5109	Financial Accounting	3	Core
Semester Credit Hours			15	

Semester 2

S. No.	Course Code	Course Title	Credit Hours	Course Category
1	MSCI-5102	Financial Management	3	Core
2	MSCI-5104	Business Law	3	Core
3	MSCI-5106	Human Resource Management	3	Core
4	MSCI-5108	Marketing Management	3	Core
5	MSCI-5110	Production and Operation Management	3	Core
Semester Credit Hours			15	

Semester 3

S. No.	Course Code	Course Title	Credit Hours	Course Category
1	MSCI-6101	Strategic Management	3	Core
2	MSCI-6103	Strategic Finance	3	Core
3	MSCI-6105	Strategic Marketing	3	Core
4	MSCI-6107	Strategic Human Resource Management	3	Core
Semester Credit Hours			12	

Semester 4

S. No.	Course Code	Course Title	Credit Hours	Course Category
1	MSCI-6102	Research Methodology	3	Core
2	MSCI-6104	Leadership and Organizational Behavior	3	Core
3	MSCI-XXXX	Elective 1	3	Core
4	MSCI-XXXX	Elective 2	3	Core
Semester Credit Hours			12	

Semester 5

S. No.	Course Code	Course Title	Credit Hours	Course Category
1	MSCI-6301/ MSCI- 6601	Project /Thesis	12	Mandatory
Semester Credit Hours			12	

MS Management Sciences

Semester 1

S. No.	Course Code	Course Title	Credit Hours	Course Category
1	MSCI-6101	Strategic Management	3	Core
2	MSCI-6103	Strategic Finance	3	Core
3	MSCI-6105	Strategic Marketing	3	Core
4	MSCI-6102	Research Methodology	3	Core
Semester Credit Hours			12	

Semester 2

S. No.	Course Code	Course Title	Credit Hours	Course Category
1	MSCI-XXXX	Elective 1	3	Elective
2	MSCI-XXXX	Elective 2	3	Elective
3	MSCI-XXXX	Elective 3	3	Elective
4	MSCI-XXXX	Elective 4	3	Elective
Semester Credit Hours			12	

Semester 3 & 4

S. No.	Course Code	Course Title	Credit Hours	Course Category
3	MSCI-6601	Project /Thesis	12	Mandatory
Semester Credit Hours			12	

List of Elective Courses

Specialization 1: Supply Chain Management

S. No.	Core Courses	Course Title
27.	MSCI-6110	Logistics Management
28.	MSCI-6111	Procurement and Supply Chain Management
29.	MSCI-6112	Marketing Channels
30.	MSCI-6113	Enterprise Systems and Supply Chain Management
7.	MSCI-6114	Applied Time Series Analysis for Forecasting
8.	MSCI-6115	Strategic Outsourcing
31.	MSCI-6136	Supply Chain Management

Specialization 2: Finance

S. No.	Core Courses	Course Title
14.	MSCI-6116	Corporate Finance
15.	MSCI-6117	International Financial Management
16.	MSCI-6118	Investment & Portfolio Management
17.	MSCI-6119	Banking and Credit Markets
18.	MSCI-6120	Topics in Capital Budgeting
19.	MSCI-6121	Risk Management and Insurance
20.	MSCI-6122	Alternative Investments and Funds Management
21.	MSCI-6123	Enterprise Risk Management
22.	MSCI-6124	Financial Reporting and Analysis

Specialization 3: Human Resource Management

S. No.	Core Courses	Course Title
15.	MSCI-6125	Current Issues in Human Resource Management
16.	MSCI-6126	Strategies in Human Resource Management
17.	MSCI-6127	Introduction to Corporate Human Resource Management
18.	MSCI-6128	Labor Laws and Industrial Relations
19.	MSCI-6129	Work and Organizational Psychology
20.	MSCI-6130	Organization Staffing
21.	MSCI-6131	Leadership and Executive Development
22.	MSCI-6132	Performance Management and Motivation
23.	MSCI-6133	Compensation, Incentives and Governance
24.	MSCI-6115	Strategic Outsourcing
25.	MSCI-6107	

Specialization 4: Management

S. No.	Core Courses	Course Title
8.	MSCI-6134	Cases in Small Business & Entrepreneurship
9.	MSCI-6135	Topics in Quality Management
10.	MSCI-6136	Supply Chain Management
11.	MSCI-6137	Technology Management
12.	MSCI-6138	Current Issues in Management
13.	MSCI-6139	Business Process Management
14.	MSCI-6140	Innovation Management

Specialization 5: Marketing

S. No.	Core Courses	Course Title
8.	MSCI-6141	International Marketing
9.	MSCI-6142	Advanced Topics in Consumer Behavior
10.	MSCI-6143	Products Management
11.	MSCI-6144	Current Issues in Marketing
12.	MSCI-6145	Brand Management
13.	MSCI-6146	Pricing Strategy
14.	MSCI-6147	Service Marketing Strategy

Specialization 6: Project Management

S. No.	Core Courses	Course Title
1.	MSCI-6148	Contract Management
2.	MSCI-6149	Project Management
3.	MSCI-6150	Project Manager Competency Development
4.	MSCI-6151	Project Planning & Management

"If you want something new, you have to stop doing something old"

-Peter Drucker

MS Engineering Management

Semester 1

S. No.	Course Code	Course Title	Credit Hours	Course Category
1	ENMG-6101	Management of Technical Organization	3	Core
2	MSCI-6109	Leadership & Motivation	3	Core
3	MSCI-6108	Organization Behavior Dynamics	3	Core
4	MSCI-6102	Research Methodology	3	Core
Semester Credit Hours			12	

Semester 2

S. No.	Course Code	Course Title	Credit Hours	Course Category
1	ENMG-XXXX	Elective 1	3	Elective
2	ENMG-XXXX	Elective 2	3	Elective
3	ENMG-XXXX	Elective 3	3	Elective
4	ENMG-XXXX	Elective 4	3	Elective
Semester Credit Hours			12	

Semester 3 & 4

S. No.	Course Code	Course Title	Credit Hours	Course Category
1	ENMG-6601 / ENMG-6301	Project /Thesis	12	Mandatory
Semester Credit Hours			12	

List of Elective Courses

Specialization 1: Engineering Management

S. No.	Core Courses	Course Title
16.	ENMG-6110	Engineering Economics
17.	ENMG-6111	Productivity Engineering and Management
18.	ENMG-6112	Entrepreneurship for Technical managers
19.	ENMG-6113	Procurement and Contract Management
20.	ENMG-6114	Problem Solving and Decision Making

Specialization 2: Quality Management

S. No.	Core Courses	Course Title
10.	MSCI-6158	Statistical Process Control
11.	MSCI-6159	Total Quality Management
12.	MSCI-6160	Design of Experiment
13.	MSCI-6161	Seminars in Quality Management

Specialization 3: Construction Management

S. No.	Core Courses	Course Title
11.	ENMG-6115	Construction Management
12.	ENMG-6116	Construction Technology
13.	MSCI-6117	Emerging Technologies in Construction
14.	ENMG-6113	Procurement and Contract Management

Specialization 4: Information Management Knowledge Management

S. No.	Core Courses	Course Title
1.	ENMG-6118	Data Warehousing
2.	ENMG-6119	Knowledge Management
3.	ENMG-6120	Business Intelligence
4.	ENMG-6121	Data Mining and Big Data

Specialization 5: Telecom Management

S. No.	Core Courses	Course Title
3.	ENMG-6122	Telecom Laws & Regulations
4.	ENMG-6123	Telecom Business Management
5.	ENMG-6124	Emerging Technologies in Telecom Sector
6.	ENMG-6125	Program Management in Telecom Organizations

Specialization 6: Manufacturing Management

S. No.	Core Courses	Course Title
3.	ENMG-6126	Manufacturing Systems
4.	ENMG-6127	Manufacturing Strategies
5.	ENMG-6128	Emerging Technologies in Manufacturing
6.	ENMG-6129	Concurrent Engineering Management

Specialization 7: Supply Chain Management

S. No.	Core Courses	Course Title
21.	MSCI-6110	Logistics Management
22.	MSCI-6111	Procurement and Supply Chain Management
23.	MSCI-6112	Marketing Channels
24.	MSCI-6113	Enterprise Systems and Supply Chain Management
25.	MSCI-6114	Applied Time Series Analysis for Forecasting
26.	MSCI-6115	Strategic Outsourcing

Specialization 8: Project Management

S. No.	Core Courses	Course Title
1.	MSCI-6148	Contract Management
2.	MSCI-6149	Project Management
3.	MSCI-6150	Project Manager Competency Development
4.	MSCI-6151	Project Planning & Management

“No man will make a great leader who wants to do it all himself, or to get all the credit for doing it”

-Andrew Carnegie



MS/MBA Get Together (28-11-2018)



PAF Base Karachi (31-03-2019)



Spring Fiesta (04-04-2019)

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Department of

Humanities and Social Sciences

Introduction and Overview

The department of Humanities and Social Sciences is a vibrant department comprising of professionally skilled, highly qualified PhD and MPhil and energetically motivated faculty in English (Linguistics and Literature), History, Pakistan Studies, Islamic Studies and Law. We also offer a variety of need-based courses to provide the most effective and up-to-date skills to the undergraduate and graduate students of other departments of the university including Engineering, Information Technology and Basic Sciences. The department ensures reinforcement of classroom teaching through modern teaching techniques and state of the art technology available in the university.

The primary goal of the department is personal, academic and professional grooming of the students inspired by the values of humanism – intended as a guiding principle combined with innovation through cultural, social, political and economic processes. Personal education is entrusted to the effective functioning of structures and services, within a perspective of exemplarity; academic and professional education on the other hand, is based on the effective organization of the courses, and in the competency of the teaching faculty who are continuously engaged in research based activities for their own development. The department also takes initiatives in organizing research oriented seminars, talks, trainings and workshops for the professional and skill-based development of its faculty as well as students.



Vision & Mission

- The establishment of the Department as the premier social sciences program at the BS, MS, MPhil and PhD levels in Pakistan, at least in the public sector.
- The Vision and Mission of Department of Humanities and Social Sciences “to impart, create and disseminate knowledge” is best encapsulated in the oldest of disciplines: Literature, History and Religious Studies.

“Protect yourself... from your own thoughts”

- Rumi

*“Education breeds confidence.
Confidence breeds hope.
Hope breeds Peace”*

-Confucius



Programs being offered

BS Pakistan Studies
BS History
BS Heritage Studies (Archaeology)
BS English
BS Islamic Studies with IT
BS Physical Education
B.Ed (Hons) 4 Years Elementary *
B.Ed 1.5 Year Secondary
LLB (5 Years)
M.Phil. English Linguistics
MS Pakistan Studies *
MS History *
MS Islamic Studies *
BS Urdu
MS Urdu *
BS Media & Communication
BS International Relations
BS Political Science
BS Fine Arts

Key Features / Facilities

- Highly Qualified and Experienced Faculty
- Facility of library stocked with useful books on English literature & linguistics, history, Pakistan movement, research methodology, philosophy, anthropology, culture, heritage, basic health awareness, ICT, mathematics and various research journals.
- Workshops, Seminars, Conferences, Extension lectures, Students' discussions & debates, field trips and study tours.





BoS (Department of Humanities & Social Sciences)

Scheme of Study

BS Pakistan Studies

Semester 1

S. No.	Course Code	Course Title	Credit Hours
1	ENGL-1118	Functional English	3
2	MATH-1111	Mathematics-I	3
3	SSCI-1111	Introduction of Sociology	3
4	HLTH-1113	Basic Health Awareness	2
5	COSC-1105	Introduction to ICT	2
6	COSC-1205	Introduction to ICT-Lab	1
7	PAKS-1113	Pakistan Studies (Compulsory)	2
Total			16

Semester 2

S. No.	Course Code	Course Title	Credit Hours
1	ENGL-1119	Communication Skills	3
2	ISLS-1112	Islamic Studies (Compulsory)	2
3	PHED-1110	Trauma and Rehabilitation	3
4	MATH-1112	Mathematics-II	3
5	ENSC-1101	Introduction to Environmental Science	3
6	PAKS-1122	International Relations	3
Total			17

Semester 3

S. No.	Course Code	Course Title	Credit Hours
1	ENGL-2111	Technical Writing and Presentation Skills	3
2	ISIS-4107	History of World Religions	3
3	PAKS-2119	Muslim Struggle for Pakistan (1857-1947)	3
4	PAKS-2120	Geography of Pakistan	3
5	PAKS-2121	Economic Development of Pakistan	3
Total			15

Semester 4

S. No.	Course Code	Course Title	Credit Hours
1	PAKS-2122	Political History of Pakistan	3
2	MSCI-2101	Human Resource Management	2
3	PAKS-2124	Geo Politics of Pakistan	3
4	PAKS-2125	Pakistan's Foreign Policy	3
5	PAKS-2126	Mass Media and Communication in Pakistan	3
6	PAKS-3131	Muslim Rule in the Sub-Continent (712-1526)	3
Total			17

Semester 5

S. No.	Course Code	Course Title	Credit Hours
1	PAKS-3127	Pakistani Society and Culture	3
2	PAKS-3128	Human Rights in Pakistan	3
3	PAKS-3129	Social Change and Development in Pakistan	3
4	PAKS-3130	Ancient Civilizations: Mehargarh, Indus Valley and Gandhara Civilizations	3
5	PAKS-3132	Muslim Rule in the Subcontinent (1526-1857)	3
Total			15

Semester 6

S. No.	Course Code	Course Title	Credit Hours
1	PAKS-3133	History of the Region/Bahawalpur	3
2	PAKS-3134	The Rise and Fall of British Raj in Subcontinent	3
3	PAKS-3135	Muslim Revivalist Movements in the Subcontinent	3
4	PAKS-3136	Constitutional and Political Developments in Pakistan (1947-1973)	3
5	SSCI-3120	Constitutional and Legal System of Pakistan	3
6	PAKS-3137	Pak-China Relation	3
Total			18

Semester 7

S. No.	Course Code	Course Title	Credit Hours
1	PAKS-4138	Cultural Heritage in Pakistan	3
2	PAKS-4147	Research Methodology	3
3	PAKS-4141	Environmental Problems of Pakistan	3
4	PAKS-4142	Political Parties and Pressure Groups in Pakistan.	3
5	PAKS-4143	Constitutional and Political Developments in Pakistan (1973- to-date)	3
Total			15

Semester 8

S. No.	Course Code	Course Title	Credit Hours
1	PAKS-4145	Pakistan and SAARC Countries.	3
2	PAKS-4146	Pakistan's Relations with Muslim World.	3
3	PAKS-4439	Social Issues in Pakistan (Child labor, forced labor, illiteracy, corruption, drug addiction, Wani (swara), Karo-kari and Honor-Killing).	3
4	PAKS-4144	Women Empowerment in Pakistan	3
5	PAKS-4348	Research Report/Viva Voce	6
Total			18

Total Number of Credit Hours

131

BS History

Semester 1

S. No.	Course Code	Course Title	Credit Hours
1	ENGL-1118	Functional English	3
2	MATH-1111	Mathematics-1	3
3	SSCI-1111	Introduction of Sociology	3
4	PAKS-1113	Pakistan Studies (Compulsory)	2
5	HLTH-1113	Basic Health Awareness	2
6	COSC-1105	Introduction to ICT	2
7	COSC-1205	Introduction to ICT-Lab	1
Total			16

Semester 2

S. No.	Course Code	Course Title	Credit Hours
1	ENGL-1119	Communication Skills	3
2	ISLS-1112	Islamic Studies (Compulsory)	2
3	PHED-1110	Trauma and Rehabilitation	3
4	MATH-1112	Mathematics-II	3
5	ENSC-1101	Introduction to Environmental Science	3
6	PAKS-1122	International Relations	3
Total			17

Semester 3

S. No.	Course Code	Course Title	Credit Hours
1	ENGL-2111	Technical Writing and presentation Skills	3
2	HIST-2121	Introduction to History	3
3	HIST-2122	History of Ancient Civilizations	3
4	ISST - 4107	History of Islamic Art & Architecture	3
5	HIST-2113	Islamic History (517-661) (Prophet Muhammad S.A.W& Pious Caliphate)	3
Total			15

Semester 4

S. No.	Course Code	Course Title	Credit Hours
1	HIST-2114	Life & Teachings of Prophet Muhammad (S.A.W) (571-632)	3
2	SSCI-3120	Constitution and Legal System of Pakistan	2
3	HIST-2119	History of Punjab	3
4	MSCI-2101	Introduction to Humane Resource Management	3
5	HIST-2115	History of Ancient India	3
6	HIST-2116	History of Umayyads	3
Total			17

Semester 5

S. No.	Course Code	Course Title	Credit Hours
1	HIST-3141	Muslim Rule in South Asia(711-1526AD)	3
2	HIST-3142	History of Sufism	3
3	HIST-3143	Muslim Political Thoughts in South Asia	3
4	HIST-3144	Muslim Rule in South Asia (1526-1857AD)	3
5	HIST-3145	History of Ancient Religions of South Asia	3
6	HIST-3152	Introduction to World Religions	3
Total			18

Semester6

S. No.	Course Code	Course Title	Credit Hours
1	HIST-3146	History of the Region/Bahawalpur	3
2	HIST-3147	Historiography	3
3	HIST-3148	History of Europe (1789--1919 AD)	3
4	HIST-3149	History of Pakistan (1947-2008)	3
5	HIST-3150	Cultural Heritage of Pakistan	3
6	HIST-3151	History of Muslim Social and Political Thought	3
Total			18

Semester 7

S. No.	Course Code	Course Title	Credit Hours
1	HIST-4111	History of Muslim Rule in Spain (755-1492)	3
2	HIST-4112	History of Ottomans	3
3	HIST-4113	History of Modern Muslim World	3
4	HIST-4115	History of Abbasids	3
5	HIST-4116	History of Abbasids	3
Total			15

Semester 8

S. No.	Course Code	Course Title	Credit Hours
1	PAKS-4147	Research Methodology	3
2	HIST-4118	History of Freedom Movement (1857-1947 AD)	3
3	HIST-4120	History of Revivalist Movement in South Asia (18th -20th Century)	3
4	HIST-4321	Research Report/viva voce	6
Total			15

Total Number of Credit Hours **131**

BS Heritage Studies (Archaeology)

Semester 1

S. No.	Course Code	Course Title	Credit Hours
1	ENGL-1118	Functional English	3
2	PAKS-1113	Pakistan Studies (Compulsory)	2
3	MATH-1111	Mathematics-I	3
4	HLTH-1113	Basic Health Awareness	3
5	COSC-1105	Introduction to ICT	2+1
6	COSC-1205	Introduction to ICT-Lab	3
Total			17

Semester 2

S. No.	Course Code	Course Title	Credit Hours
1	ENGL-1119	Communication Skills	3
2	ISLS-1112	Islamic Studies (Compulsory)	2
3	MATH-1112	Mathematics-II	3
4	PHED-1110	Trauma and Rehabilitation	3
5	PAKS-1122	International Relations	3
6	ENSC-1101	Introduction to Environmental Science	3
Total			16

Semester 3

S. No.	Course Code	Course Title	Credit Hours
1	ENGL-2111	Technical Writing and presentation Skills	3
2	ARCH-2101	Introduction to Archaeology	3
3	ARCH-2102	Introduction to Anthropology	3
4	ARCH-2103	Ancient History of South Asia	3
5	ARCH-2104	Archaeological Heritage of Pakistan.	3
6	ENGL-4127	Language , Culture & Identity	3
Total			18

Semester 4

S. No.	Course Code	Course Title	Credit Hours
1	ARCH-2105	Fundamentals of Geography	3
2	ARCH-2106	Introduction to Comparative Religion	3
3	ARCH-2107	Stone Age Cultures of Pakistan	3
4	ARCH-2207	Stone Age Cultures of Pakistan (Field Work)	1
5	ARCH-2108	Bronze Age Cultures of Pakistan	3
6	ARCH-2208	Bronze Age Cultures of Pakistan (Field Work)	1
7	ARCH-2109	Museums Studies	3
Total			17

Semester 5

S. No.	Course Code	Course Title	Credit Hours
1	HIST-3145	History of Ancient Religions of South Asia	3
2	ARCH-3101	Field Archaeology	3
3	ARCH-3201	Field Archaeology (Practical)	1
4	PAKS-3130	Ancient Civilizations: Mehargarh, Indus Valley and Gandhara Civilizations	3
5	ARCH-3102	Indus Civilization	3
6	ARCH-3103	Muslim History of South Asia	3
Total			16

Semester 6

S. No.	Course Code	Course Title	Credit Hours
1	ARCH-3104	Cultural Tourism in Pakistan	3
2	ARCH-3105	Muslim Architecture of South Asia	3
3	ARCH-3106	Cultural Anthropology	3
4	ARCH-3107	Provincial Cultural Heritage	3
5	SSCI-3120	Constitution and Legal System of Pakistan	2
6	SSCI-2151	Introduction to Social Work/Univ.Optional	3
Total			17

Semester 7

S. No.	Course Code	Course Title	Credit Hours
1	ARCH-4101	Muslim Art: Calligraphy, Painting, Minor Arts and Crafts	3
2	ARCH-4147	Research Methodology	3
3	ARCH-4102	Ancient Art and Architecture of South Asia (within Major)	3
4	ARCH-4103	Numismatics of Pakistan and India.	3
5	ARCH-4104	Paleography and Epigraphy of South Asia	3
Total			15

Semester 8

S. No.	Course Code	Course Title	Credit Hours
1	ARCH-4105	Gandhara Civilization (within Major)	3
2	ARCH-4106	Archaeological Conservation (within Major)	3
3	ARCH-4407	Internship with report writing and presentation in a Seminar.	6
4	ARCH-4308	Research Report/ Viva Voice	6
Total			18

MS Pakistan Studies**Semester 1**

S. No.	Course Code	Course Title	Credit Hours
1	PAKS-5101	Research Methodology	3
2	PAKS-5102	Philosophy of Social Sciences	3
3	PAKS-5103	Political and Constitutional History of Pakistan	3
4	PAKS-XXXX	Elective Course-I	3
Total			12

Semester 2

S. No.	Course Code	Course Title	Credit Hours
1	PAKS-XXXX	Elective Course-II	3
2	PAKS-XXXX	Elective Course-III	3
3	PAKS-XXXX	Elective Course-IV	3
4	PAKS-XXXX	Elective Course-V	3
Total			12

Semester 3 & 4

S. No.	Course Code	Course Title	Credit Hours
1	PAKS-6601	Thesis	12
Semester Credit Hours			12

“A Candle never Loses any of its Light while Lighting up another candle”

- Rumi

List of Elective Courses

S. No.	Course Code	Course Title	Credit Hours
1	PAKS-6101	Historiography in Pakistan	3
2	HIST-5101	Philosophy of History	3
3	PAKS-6103	Contemporary issues in Pakistan's Foreign Policy	3
4	PAKS-6104	Pakistan's Economy: Challenges and Responses	3
5	PAKS-6105	Social Change and Cultural Transformation	3
6	PAKS-6106	Pakistani Society as Reflected in Pakistani Literature (1947-till date)	3
7	PAKS-6107	Study of Archives	3

S. No.	Course Code	Course Title	Credit Hours
8	PAKS-6108	Study of Leadership	3
9	PAKS-6109	Study of Colonialism	3
10	PAKS-6110	History of Punjab (1849- 1947)/Regional History	3
11	PAKS-6111	History of Muslim Social and Political Thought	3
12	PAKS-6112	Era of European Domination in South Asia 1498 to 1857	3
13	PAKS-6113	Political and Constitutional History of Pakistan (1947 to 1969)	3
14	PAKS-6114	Political and Constitutional History of Pakistan (1969 to 1999)	3
15	PAKS-6115	Era of European Domination in South Asia 1858 to 1947	3

MS History

Semester 1

S. No.	Course Code	Course Title	Credit Hours
1	PAKS-5101	Research Methodology	3
2	PAKS-5102	Philosophy of Social Sciences	3
3	HIST- 5101	Philosophy of History	3
4	HIST-XXXX	Elective Course-I	3
Semester Credit Hours			12

Semester 2

S. No.	Course Code	Course Title	Credit Hours
1	HIST-XXXX	Elective Course-II	3
2	HIST-XXXX	Elective Course-III	3
3	HIST-XXXX	Elective Course-IV	3
4	HIST-XXXX	Elective Course-V	3
Semester Credit Hours			12

Semester 3 & 4

S. No.	Course Code	Course Title	Credit Hours
1	HIST-6601	Thesis	12
Semester Credit Hours			12

List of Elective Courses

S. No.	Course Code	Course Title	Credit Hours	S. No.	Course Code	Course Title	Credit Hours
1	PAKS-6112	Era of European Domination in South Asia 1498 to 1857	3	10	HIST-6105	History of Muslim Contribution to Science	3
2	PAKS-6115	Era of European Domination in South Asia 1857 to 1947	3	11	HIST-6106	History of Muslim Social and Political Thought	3
3	PAKS-6113	Political & Constitutional Development in Pakistan (1947-1969)	3	12	HIST-6107	History of Ancient Civilizations	3
4	PAKS-6114	Political & Constitutional Development in Pakistan (1969-1999)	3	13	HIST-6108	Muslim History (Life & Teachings of Prophet Muhammad (S.A.W) and Pious Caliphate (Khulafa-i-Rashideen)	3
5	PAKS-6111	History of Muslim Social and Political Thought	3	14	HIST-6109	History of Umayyads and Abbasids	3
6	HIST-6101	History of Sufism	3	15	HIST-6110	Muslim Rule in South Asia (711-1526 AD)	3
7	HIST-6102	History of Islamic Art and Architecture	3	16	HIST-6111	Muslim Rule in South Asia (1526-1707 AD)	3
8	HIST-6103	History of Modern Muslim World 1919-1945	3	17	HIST-6112	Historiography	3
9	HIST-6104	History of Religious Thought in Islam	3	18	HIST-6113	Cultural Heritage of Pakistan	3

BS Islamic Studies with IT

Semester 1

S. No.	Course Code	Course Title	Credit Hours
1	ENG-1118	Functional English	3+0
2	PAKS-1113	Pakistan Studies	2+0
3	MATH-1111	Mathematics-I	3+0
4	SSCI-1111	Introduction to Sociology	3+0
5	COSC-1105	Introduction to ICT	3+0
6	COSC-1205	Introduction to ICT lab	
	ISLS-1103	Text of Qur'an-I	3+0
Total			17

Semester 2

S. No.	Course Code	Course Title	Credit Hours
1	ENG-1119	Communication Skills	3+0
2	COSC-1101	Programming Fundamentals	2+1
	COSC-1201	Programming Fundamentals + lab	
3	ISLS-1101	Arabic Language-I	3+0
4	PAKS-1122	International Relations	3+0
5	ISLS-1113	Text of Qur'an-II	3+0
6	MATH-1112	Mathematics-II	3+0
Total			18

Semester 3

S. No.	Course Code	Course Title	Credit Hours
1	ENGL-2111	Technical Writing and Presentation Skills	3+0
2	ISLS-2104	Arabic Language-II	3+0
3	HLTH-1113	Basic Health Awareness	2+0
4	MSCI-XXXX	Basic Economics	2+0
5	ISLS-2103	Seerah and Fiqh us Seerah of Prophet SAWS	3+0
6	ISLS-3114	Uloom ul Qur'an	3+0
Total			16

Semester 4

S. No.	Course Code	Course Title	Credit Hours
1	ISLS-1112	Islamic Studies / Ethics	3+0
2	ISLS-2107	Arabic Language-III	3+0
3	ISLS-2108	Adab ut Tafseer	3+0
4	ISLS-2109	Fundamentals of Islamic Economics	3+0
5	ISLS-2110	Semitic religions & Non-Semitic religions	3+0
6	ISLS-2111	History of Caliphs, Umayyads and Ab-	3+0
Total			18

Semester 5

S. No.	Course Code	Course Title	Credit Hours
1	COSC-2103	Database Systems	3+0
2	COSC-2203	Database Systems-Lab	1+0
3	ISLS-3111	Arabic Language- IV	3+0
4	ISLS-3106	Research Methodology	3+0
5	ISLS-3102	History and Principles of fiqh	3+0
6	ISLS-3105	Uloom ul Hadith-I	3+0
Total			16

Semester 6

S. No.	Course Code	Course Title	Credit Hours
1	CPED-XXXX	Mendeley & SPSS Computer Program	2+1
2	ISLS-3108	Uloom ul Hadith-II	3+0
3	SSCI-3120	Constitution and legal system of Pakistan	2+0
4	HIST-3111	Introduction to the History of Ottomans, Spain & Sub-Continent (Mughal Emperor)	3+0
5	ISLS-3112	Islamic Philosophy and Kalam	3+0
6	ISLS-3113	Islam & Orientalism	3+0
Total			17

Semester 7

S. No.	Course Code	Course Title	Credit Hours
1	ISLS-4114	Muslim World (Problems & Solutions)	3
2	INFT-2102	Web Systems & Technologies	2
3	INFT-2202	Web Systems & Technologies – Lab	1
4	MSCI-XXXX	Islamic Banking & Finance	3
5	ISLS-4115	Modern Political Social Thoughts & Islam / Dawah wa Irshaad	3
6	ISLS-4117	Maktaba Shamila (Computer Islamic Library)	1+2
Total			15

Semester 8

S. No.	Course Code	Course Title	Credit Hours
1	ICOSC-2121	Management Information Systems	3
2	ISLS-4118	Islam and Science	3
3	ISLS-4119	Tassawwuf wa Ikhlāq	3
4	ISLS-4120	Modern Fiqh Problems & Solutions	3
5	ISLS-4301	Project/Case Study	6
Total			18

MS Islamic Studies

Semester 1

S. No.	Course Code	Course Title	Credit Hours
1	ISLS-5101	Research Methodology	3
2	ISLS-5102	Quranic Sciences	3
3	ISLS-5103	Hadith Sciences	3
4	ISLS-XXXX	Elective Course-I	3
Total			12

Semester 2

S. No.	Course Code	Course Title	Credit Hours
1	ISLS-XXXX	Elective Course-II	3
2	ISLS-XXXX	Elective Course-III	3
3	ISLS-XXXX	Elective Course-IV	3
4	ISLS-XXXX	Elective Course-V	3
Total			12

Semester 3 & 4

S. No.	Course Code	Course Title	Credit Hours
1	ISLS-6601	Thesis	12
Semester Credit Hours			12

List of Elective Courses

S. No.	Course Code	Course Title	Credit Hours
1	ISLS-6101	Comparative Study of Religion	3
2	ISLS-6103	Islam and Modern Thoughts	3
3	ISLS-6104	Islamic Jurisprudence and History	3
4	ISLS-6105	Sira and Tasawwuf	3
5	ISLS-6106	Arabic Language and literature	3
6	ISLS-6107	Human Rights in Islam	3
7	ISLS-6108	Analytical Study of Orientalism	3
8	ISLS-6109	Educational system of Islam	3

S. No.	Course Code	Course Title	Credit Hours
10	ISLS-6110	Dawah-wa-Irshad	3
11	ISLS-6111	Fiqh-wa-Ijtihad	3
12	ISLS-6112	Critical Study of English Text on Islam	3
13	ISLS-6113	Science of Tafseer and Methodology of Mu-fasireen	3
14	ENGL-1118	Functional English	3

BS English**Semester 1**

S. No.	Course Code	Course Title	Credit Hours
1	ENG-1118	Functional English	3
2	PAKS-1113	Mathematics-I	3
3	MATH-1111	Introduction to Sociology	3
4	SSCI-1111	Pakistan Studies (Compulsory)	2
5	COSC-1105	Basic Health Awareness	2
6	ISLS-1103	I Introduction to ICT-Lab	2+1
Total			16

Semester 2

S. No.	Course Code	Course Title	Credit Hours
1	ISLS-1112	Islamic Studies (Compulsory)	2
2	ENGL-1119	Communication Skills	3
3	MATH-1112	Mathematics-II	3
4	PAKS-1122	International Relations	3
5	ENSC-1101	Introduction to Environmental Sciences	3
6	PHED-1101	Trauma and Rehabilitation	3
Total			17

Semester 3

S. No.	Course Code	Course Title	Credit Hours
1	ENGL-2101	Introduction to Linguistics	3
2	ENGL-2108	Classical and Elizabethan Drama	3
3	ENGL-2104	Classical Poetry (from Chaucer to Pope)	3
4	ENGL-2105	Introduction to ELT	3
5	ENGL-2109	History of English Literature-I	3
6	ENGL-2111	Technical Writing and Presentation Skills	3
Total			18

Semester 4

S. No.	Course Code	Course Title	Credit Hours
1	ENGL-2102	Phonetics and Phonology	3
2	ENGL-2107	Romantic Poetry	3
3	ENGL-2106	Morphology and Syntax	3
4	MSCI-2101	Human Resource Management	3
5	ENGL-2103	History of English Literature-II	3
6	ENGL-2111	Literary Criticism	3
Total			18

Semester 5

S. No.	Course Code	Course Title	Credit Hours
1	ENGL-3112	Post-Colonial Literature	3
2	ENGL-3113	Modern Fiction	3
3	ENGL-3114	Literary Theory	3
4	ENGL-3115	Semantics and Pragmatics	3
5	ENGL-3116	Sociolinguistics	3
6	SSCI-2151	Introduction to Social Work/Univ. Optional	3
Total			18

Semester 6

S. No.	Course Code	Course Title	Credit Hours
1	ENGL-3123	American Literature	3
2	ENGL-3117	Modern Poetry	3
3	ENGL-3120	Introduction to Applied Linguistics	3
4	ENGL-3121	Modern Drama	3
5	ENGL-3122	Stylistics	3
6	SSCI-3120	Constitution and legal system of Pakistan	2
Total			17

Semester 7

S. No.	Course Code	Course Title	Credit Hours
1	ENGL-4124	Pakistani Literature in English	3
2	ENGL-4125	Modern Prose	3
3	ENGL-4127	Introduction to Critical Applied Linguistics	3
4	SSCI-2111	Professional Ethics	2
5	ENGL-4134	Research Methodology	3
6	ENGL-4130	Discourse Analysis	3
Total			17

Semester 8

S. No.	Course Code	Course Title	Credit Hours
1	ENGL-4328	Research Project	3
2	ENGL-4126	Psycholinguistics	3
3	ENGL-4131	Post -War Literature	3
4	ENGL 4132	Short Story	3
5	ENGL-4133	English for Specific Purposes	3
Total			15

Total Number of Credit Hours**136****M.Phil English Linguistics****Semester 1**

S. No.	Course Code	Course Title	Credit Hours
1	ENGL-5101	General Linguistics	03
2	ENGL-5102	Research Methodology	03
3	ENGL-XXXX	Elective Course – I	03
4	ENGL-XXXX	Elective Course – II	03
Total			12

Semester 2

S. No.	Course Code	Course Title	Credit Hours
1	ENGL-5103	Applied Linguistics	03
2	ENGL-5104	Discourse Analysis	03
3	ENGL-XXXX	Elective Course – I	03
4	ENGL-XXXX	Elective Course – II	03
Total			12

Semester 3 & 4

S. No.	Course Code	Course Title	Credit Hours
1	ENG-6601	Thesis (20,000 to 25,000 words)	12
Semester Credit Hours			12

List of Elective Courses

S. No.	Course Code	Course Title	Credit Hours
1	ENGL-6105	Stylistics	03
2	ENGL-6106	Intercultural pragmatics	03
3	ENGL-6107	Language and Gender	03
4	ENGL-6108	Semiotics	03
5	ENGL-6109	Sociolinguistics	03
6	ENGL-6110	Corpus Linguistics	03
7	ENGL-6111	Syntax	03
8	ENGL-6112	Computational Linguistics	03
9	ENGL-6113	Theory of Language Description	03
10	ENGL-6114	Language Assessment	03
11	ENGL-6115	Globalization and Spread of English	03
12	ENGL-6116	English for Specific Purposes	03
13	ENGL-6117	Translation Studies	03
14	ENGL-6118	Bilingualism	03
15	ENGL-6119	Psycholinguistics	03

B.Ed (Hons) 4 Years Elementary**Semester 1**

S. No.	Course Code	Course Title	Credit Hours
1	ENGL-1118	Functional English	3
2	COSC-1105	Introduction to ICT	2+1
	COSC-1205	Introduction to ICT-Lab	
3	BEDU-1101	Child Development (Foundation)	3
4	MATH-1111	Mathematics-I	3
5	BEDU-1103	General Science	3
6	PAKS-1113	Pakistan Studies (Compulsory)	3
Total			18

Semester 2

S. No.	Course Code	Course Title	Credit Hours
1	ENGL-1119	Communication Skills	3
2	BEDU-1105	Classroom Management (Foundation)	3
	BEDU-1106	Methods of Teaching Islamic Studies (Professional)	3
3			
4	ISLS-1112	Islamic Studies/Ethics (Compulsory)	3
5	BEDU-1102	Urdu / Regional Languages	3
6	BEDU-1104	General Methods of Teaching (Foundation)	3
Total			18

Semester 3

S. No.	Course Code	Course Title	Credit Hours
1	BEDU -3107	Teaching Literacy Skills (Professional)	3
2	BEDU-2108	Art, Crafts and Calligraphy	3
3	BEDU-2109	Teaching of Urdu/Regional Languages (Professional)	3
4	BEDU- 2110	Teaching of General Science (Professional)	3
5	BEDU- 2111	Instructional and Communication Technology (ICT) in Education (Professional)	3
6	BEDU- 2112	Teaching Practice (Short Term)	3
Total			18

Semester 4

S. No.	Course Code	Course Title	Credit Hours
1	BEDU- 2113	Classroom Assessment (Foundation)	3
2	BEDU -2114	Teaching of English (Professional)	3
3	BEDU-2115	Teaching of Mathematics (Professional)	3
4	BEDU-3116	School, Community and Teacher (Foundation)	3
5	BEDU -2117	Teaching of Social Studies (Professional)	3
6	BEDU -2118	Teaching Practice	3
Total			18

Semester 5

S. No.	Course Code	Course Title	Credit Hours
1	ENGL- 2111	Technical Writing & Presentation Skills	3
2	BEDU-3119	Foundations of Education (Foundation)	3
3	BEDU-XXXX	Content Course from Specialization- I/a	3
4	BEDU-XXXX	Content Course from Specialization - II/a	3
5	BEDU-3122	Curriculum Development& Planning (Foundation)	3
6	BEDU-3123	Educational Psychology (Foundation)	3
Total			18

Semester 6

S. No.	Course Code	Course Title	Credit Hours
1	BEDU-4124	Contemporary Issues and Trends in Education (Professional)	3
2	BEDU-XXXX	Content Course from Specialization - I/b	3
3	BEDU-XXXX	Content Course from Specialization - II/b	3
4	BEDU-4127	Comparative Education (Professional)	3
5	BEDU-3128	Introduction to Guidance and Counseling (Professional)	3
Total			15

Semester 7

S. No.	Course Code	Course Title	Credit Hours
1	BEDU- 4129	Content Course from Specialization - I/c	3
2	BEDU -4130	Content Course from Specialization - II/c	3
3	BEDU -4131	Pedagogy - 1 (Methods of Teachings related to specialization - Id)	3
4	BEDU-4132	Pedagogy - 1 (Methods of Teachings related to specialization - Id)	3
5	BEDU-4133	Pedagogy - II (Methods of teaching related to specialization - IId)	3
6	BEDU-4134	Research Methods in Education (Professional)	3
Total			18

Semester 8

S. No.	Course Code	Course Title	Credit Hours
1	BEDU- 4135	School Management (Professional)	3
2	BEDU- 4136	Test Development and Evaluation	3
3	BEDU -4237	Practicum (Long Term) (06 Credit Hours) *	6
4	BEDU -4338	Research Project	3
Total			15

Total Credit Hours of Program**138****B.Ed 1.5 Year Secondary****Semester 1**

S. No.	Course Code	Course Title	Credit Hours
1	BEDU-5141	Philosophy of Education (Foundation)	03
2	BEDU-5123	Educational Psychology	03
3	BEDU-5140	General Methods of Teaching (Professional)	03
4	BEDU-5142	Critical Thinking and Reflective Practices (Professional)	03
5	BEDU-XXXX	Area of Specialization – Course –I	03
6	BEDU-XXXX	Area of Specialization – Course –II	03
Total			18

Semester 2

S. No.	Course Code	Course Title	Credit Hours
1	BEDU-5136	Test Development and Evaluation	03
2	BEDU-3122	Curriculum planning & Development (Foundation)	03
3	BEDU-5147	Perspectives on Teacher Education (Professional)	03
4	BEDU-5133	Research Methods in Education (Professional)	03
5	BEDU-XXXX	Area of Specialization –Course –III	03
6	BEDU-5160	Micro-Teaching and Pedagogy (Professional)	03
Total			18

Semester 3

S. No.	Course Code	Course Title	Credit Hours
1	BEDU-5148	Inclusive Education (Professional)	03
2	BEDU-5161	Teaching Practice (professional)	03
3	BEDU-5338	Research Project (Professional)	03
4	BEDU-5162	Educational Leadership and Management (Professional)	03
5	BEDU-5163	Citizenship and Community Engagement	03
6	BEDU-XXXX	Area of Specialization –Course- IV	03
Total			18

“The art of knowing is knowing what to ignore”
- Rumi

LLB (5 Years)

Semester 1

S. No.	Course Code	Course Title	Credit Hours
1	ENGL-1118	Functional English	3
2	COSC-1105	Introduction to ICT	2+1
	COSC-1205	Introduction to ICT-Lab	
3	LEDU-1147	Introduction to Law	3
4	PAKS-1113	Pakistan Studies	2
5	LEDU-1102	Legal System of Pakistan	3
6	SSCI-1111	Introduction to Sociology	3
Total			17

Semester 2

S. No.	Course Code	Course Title	Credit Hours
1	EENGL-1119	Communication Skills	3
2	ENSC-1101	Introduction to Environmental Science	3
3	ISLS-1112	Islamic Studies/Ethics	2
4	PAKS-1122	International Relations	3
5	LEDU-1103	Law of Torts- I	3
6	PHED-1110	Trauma and Rehabilitation	3
Total			17

Semester 3

S. No.	Course Code	Course Title	Credit Hours
1	ENGL-2111	Technical Writing and Presentation Skills	3
2	LEDU-2104	Introduction to Logic and Reasoning	3
3	LEDU-2105	Islamic Jurisprudence – I	3
4	LEDU-2106	Law of Torts-II	3
5	LEDU-2107	Law of Contract – I	3
6	LEDU-2108	Constitutional Law-I (UK)	3
Total			18

Semester 4

S. No.	Course Code	Course Title	Credit Hours
1	LEDU-2109	Human Rights Law	3
2	LEDU-2110	Constitutional Law-II (Us)	3
3	LEDU-2111	Law of Contract-II	3
4	LEDU-2112	Islamic Jurisprudence – II	3
5	LEDU-2113	Introduction to Psychology	3
Total			15

Semester 5

S. No.	Course Code	Course Title	Credit Hours
1	LEDU-3114	Jurisprudence – I	3
2	LEDU-3123	Constitutional Law-III (Pakistan)	3
3	LEDU-3115	Islamic Personal Law – I	3
4	LEDU-3116	Criminal Law-I	3
5	LEDU-3117	Law of Property	3
Total			15

Semester 6

S. No.	Course Code	Course Title	Credit Hours
1	LEDU-3118	Jurisprudence – II	3
2	LEDU-3119	Law of Business Organizations	3
3	LEDU-3120	Islamic Personal Law – II	3
4	LEDU-3121	Criminal Law – II	3
5	LEDU-3122	Land Laws	3
Total			15

Semester 7

S. No.	Course Code	Course Title	Credit Hours
1	LEDU-4123	Public International Law – I	3
2	LEDU-4124	Constitutional Development in Pakistan	3
3	LEDU-4125	Civil Procedure – I	3
4	LEDU-4126	Criminal Procedure – I	3
5	LEDU-4127	Law of Evidence – I	3
6	LEDU-4128	Legal Drafting – I	3
Total			18

Semester 8

S. No.	Course Code	Course Title	Credit Hours
1	LEDU-4129	Public International Law – II	3
2	LEDU-4130	Equity and Specific Relief	3
3	LEDU-4131	Civil Procedure – II	3
4	LEDU-4132	Criminal Procedure – II	3
5	LEDU-4134	Law of Evidence – II	3
6	LEDU-4135	Legal Drafting – II	3
Total			18

Semester 9

S. No.	Course Code	Course Title	Credit Hours
1	LEDU-5137	Research Methods	3
2	HLTH-1113	Basic Health Awareness	2
3	LEDU-5138	Minor Acts	3
4	LEDU-5141	Moot Cases and Professional Ethics	3
5	LEDU-XXXX	Elective-I*	3
6	LEDU-XXXX	Elective-II*	3
Total			17

Semester 10

S. No.	Course Code	Course Title	Credit Hours
1	LEDU-5142	Administrative LAW	3
2	LEDU-5143	Interpretation of Statutes and Legislative Drafting	3
3	LEDU-5344	Research Project	3
4	LEDU-XXXX	Elective-III*	3
5	LEDU-XXXX	Elective-IV*	3
6			
Total			15

Total Number of Credit Hours

166

List of Elective Courses

S. No.	Course Code	Course Title	Credit Hours
1	LEDU-5146	Alternate Dispute Resolution	3
2	LEDU-5147	Banking Laws	3
3	LEDU-5148	Conflict of Laws	3
4	LEDU-5149	Consumer Protection Laws	3
5	LEDU-5150	Custom and Tariff Laws	3
6	LEDU-5151	e-Commerce Law	3
7	LEDU-5152	Election Laws	3
8	LEDU-5153	Environmental Laws	3
9	LEDU-5154	Gender and Law	3
10	LEDU-5155	Insurance laws	3

S. No.	Course Code	Course Title	Credit Hours
11	LEDU-5156	Intellectual Property Laws	3
12	LEDU-5157	International Economic Law	3
13	LEDU-5158	International Humanitarian Law	3
14	LEDU-5159	International Institutions	3
15	LEDU-5160	International Trade Law	3
16	LEDU-5161	Islamic Commercial Laws	3
17	LEDU-5162	Labour Laws	3
18	LEDU-5163	Law and Development	3
19	LEDU-5164	Law and Energy	3

S. No.	Course Code	Course Title	Credit Hours
20	LEDU-5165	Law and Society in Pakistan	3
21	LEDU-5166	Local and Special Laws	3
22	LEDU-5167	Media Laws	3
23	LEDU-5168	Medical and Forensic Law	3
24	LEDU-5169	Mergers and Acquisitions	3
25	LEDU-5170	Islamic Legal Maxims	3
26	LEDU-5171	Public Interest Litigation	3
27	LEDU-5172	Securities Regulation	3
28	LEDU-5173	Shipping and Admiralty Laws	3
29	LEDU-5174	Taxation Laws	3
30	LEDU-5175	Telecommunication Laws	3

*“All progress takes place
outside the comfort zone.”*

- Michael John Bobak

BS Physical Education

Semester 1

S. No.	Course Code	Course Title	Credit Hours
1	ENGL-1118	Functional English	3
2	COSC-1105	Introduction to ICT	2+1
	COSC-1205	Introduction to ICT-Lab	
3	MATH-1111	Mathematics-I	3
4	PAKS-1113	Pakistan Studies (Compulsory)	2
5	HLTH-1113	Basic Health Awareness	2
6	SSCI-1111	Introduction to Sociology	3
Total			16

Semester 2

S. No.	Course Code	Course Title	Credit Hours
1	ENGL-1119	Communication Skills	3
2	ENSC-1101	Introduction to Environmental Science	3
3	PHED-1110	Trauma and Rehabilitation	3
4	ISLS-1112	Islamic Studies/Ethics (Compulsory)	2
5	MATH-1112	Mathematics-II	3
6	PHED-1217	Games Practical (Table Tennis)	2
Total			16

Semester 3

S. No.	Course Code	Course Title	Credit Hours
1	PHED-2104	Administration and Management in Sports (Foundation 4) (Theory)	3
2	ENGL-2111	Technical Writing and Presentation Skills	3
3	PHED-2101	Science of Track and Field	3
4	PHED-2150	Research Methodology in Physical Education	3
5	PHED-2202	Games Practical-III	2
6	PHED-2203	Athletics Practical-III	2
Total			16

Semester 4

S. No.	Course Code	Course Title	Credit Hours
1	ENGL-1102	Phonetics and Phonology	3
2	MSCI-2101	Human Resource Management	3
3	PAKS-3128	Human Rights in Pakistan	3
4	PHED-2205	Games Practical-IV(Badminton)	2
5	PHED-2206	Athletics Practical-IV	2
6	SSCI-2151	Introduction to Social Work/Univ. Optional	3
Total			16

Semester 5

S. No.	Course Code	Course Title	Credit Hours
1	PHED-3107	Science of Sports Training	3
2	PHED-3208	Physical Education for Special Population (Elective-1)	3
3	PHED-3109	Sports Nutrition	3
4	PHED-3210	Science of Human Movement Education (General 5)	3
5	PHED-3211	Games Practical (Hockey)	2
6	PHED-3212	Scouting (Roaring)/Girl Guiding	3
Total			17

Semester 6

S. No.	Course Code	Course Title	Credit Hours
1	PHED-3113	Basics of Human Anatomy and Physiology	3
2	PHED-3114	Test, Measurement and Evaluation in Phy. Edu	3
3	PHED-3116	Sports Bio-Mechanics	3
4	PHED-3218	Net Ball for Girls/Swimming for Boys	2
5	PAKS-1122	International Relations	3
6	SSCI-3120	Constitution and legal system of Pakistan	2
Total			16

Semester 7

S. No.	Course Code	Course Title	Credit Hours
1	PHED-4123	Development of Research Proposal	3
2	PHED-4219	Sport Injuries, Treatment & Rehabilitation (Major 6)	3
3	PHED-4220	Exercise Physiology (Major 7) (Theory + Practical)	3
4	PHED-4221	Scientific Sports Coaching (Foundation 6)	3
5	PHED-4224	Physical Efficiency Test (Theory + Practical)	1+2
6	PHED-4222	Specialization in one game	3
Total			18

Semester 8

S. No.	Course Code	Course Title	Credit Hours
1	PHED-4125	Sports Medicine (Major 8)	3
2	PHED-4126	Curriculum Development in Physical Education (Major 9)	3
3	PHED-4228	Gymnastic (Practical)	2
4	PHED-4229	Recreation, Hiking & Hill Trekking	3
5	PHED-4327	Research Theses/ Research Project	4
Total			15

Total Number of Credit Hours

130

BS Urdu**Semester 1**

S. No.	Course Code	Course Title	Credit Hours
1	ENGL-1118	Functional English	3
2	PAKS-1113	Pakistan Studies (Compulsory)	2
3	SSCI-1111	Introduction to Sociology	3
4	MATH-1111	Mathematics - I	3
5	URDU-1101	اردو زبانیت - تفہیم و ارتقاء	3
Total			14

Semester 2

S. No.	Course Code	Course Title	Credit Hours
1	ENGL-1119	Communication Skill	3
2	ISLS-1112	Islamic Studies (Compulsory)	2
3	MATH-1112	Mathematics - II	3
4	URDU-1102	علم و تعلیم	3
5	URDU-1103	شعری اصناف - تعارف اور تفہیم - حصہ اول	3
Total			14

Semester 3

S. No.	Course Code	Course Title	Credit Hours
1	ENGL-2111	Technical Writing and Presentation Skill	3
2	PHED-1110	Trauma and Rehabilitation	3
3	SSCI-3120	Constitutional and Legal System of Pakistan	3
4	URDU-2101	بر تعلیم کے تاریخ - ماضی و تاریخ سے ۱۹۳۷ء	3
5	URDU-2102	شعری اصناف - تعارف و تفہیم - حصہ دوم	3
Total			15

Semester 4

S. No.	Course Code	Course Title	Credit Hours
1	COSC-1105	Introduction to ICT	2
2	COSC-1205	Introduction to ICT (Lab)	1
3	URDU-2103	پاکستانی زبانوں کا ادب - بنیادی / سرانجامی	3
4	URDU-2104	جغرافیہ عالم	3
5	URDU-2105	نثری اصناف - تعارف و تفہیم - حصہ اول	3
6	URDU-2106	تحریر و انشاء - عملی تربیت	3
Total			15

Semester 5

S. No.	Course Code	Course Title	Credit Hours
1	URDU-3101	اردو داستان اور ناول: فکر و فکر اور فن مباحث	3
2	URDU-3102	اردو غزل کا فکر و فن: مباحث	3
3	URDU-3103	تاریخ ادب اردو اور ادبی تحریکیں	3
4	URDU-3104	Economics	3
5	URDU-3105	مسلم تہذیب و ثقافت / تاریخ اسلام	3
6	URDU-3106	اردو داستان اور ناول: فکر و فکر اور فن مباحث	3
Total			18

Semester 6

S. No.	Course Code	Course Title	Credit Hours
1	URDU-3107	اردو افسانہ اور ڈرامہ: فکر و فکر اور فن مباحث	3
2	URDU-3108	اردو ناول کا ارتقاء - تصویب صدی تا حال	3
3	URDU-3109	اردو نظم - فکر و فن مباحث	3
4	URDU-3110	اردو نثر کے اسالیب	3
5	URDU-3111	بشریات	3
6	Urdu-3112	اردو افسانہ اور ڈرامہ: فکر و فکر اور فن مباحث	3
Total			18

Semester 7

S. No.	Course Code	Course Title	Credit Hours
1	URDU-4101	اسانیات	3
2	URDU-4102	اصول تحقیق و تنقید	3
3	URDU-4303	ریفرھ ورک	3
4	URDU-4104	اردو نکلش میں تاریخی و تہذیبی شعور	3
5	URDU-4105	غالب کی تخلیقی و فکری جہات	3
6	URDU-4106	اسانیات	3
Total			18

Semester 8

S. No.	Course Code	Course Title	Credit Hours
1	URDU-4303	ریفرھ ورک	3
2	URDU-4107	نئے تنقیدی مباحث	3
3	URDU-4108	اقبال کا خصوصی مطالعہ - فکری و فنی مطالعہ اور تشریحی متن	3
4	URDU-4109	اردو ادب کا ماہر نوآبادیاتی مطالعہ	3
5	URDU-4110	سر سید کی فکری جہات	3
Total			15

MS Urdu**Semester 1**

S. No.	Course Code	Course Title	Credit Hours
1	URDU-5101	اصول تحقیق	3
2	URDU-5102	اصول تنقید	3
3	URDU-5103	تنقید و تدوین عمل و اطلاقی	3
4	URDU-XXXX	Elective Course-I	3
Total			12

Semester 2

S. No.	Course Code	Course Title	Credit Hours
1	URDU-XXXX	Elective Course-II	3
2	URDU-XXXX	Elective Course-III	3
3	URDU-XXXX	Elective Course-IV	3
4	URDU-XXXX	Elective Course-V	3
Total			12

Semester 3 & 4

S. No.	Course Code	Course Title	Credit Hours
1	URDU-6601	Thesis	12
Semester Credit Hours			12
Total Number of Credit Hours			36

List of Elective Courses

S. No.	Course Code	Course Title	Credit Hours
1	URDU-6101	تدوین و روایات	3
2	URDU-1118	اصول تنقید	3
3	URDU -6103	تاریخ ادب اردو	3
4	URDU -6104	فارسی زبان ادب و مطالعہ	3
5	URDU -6105	ہندی زبان رسم الخط اور بنیادی معلومات	3
6	URDU -6106	اسانیات	3
7	URDU -6107	تنقید و تدوین عمل و اطلاقی	3
8	URDU -6108	جدید تنقید	3
9	URDU -6109	ترجمہ اصول قواعد	3
10	URDU-6110	اقبالیات میں تحقیق و تدوین کی روایات	3
11	URDU -6111	اصول تنقید و تدوین	3
12	URDU -6112	اصول تنقید	3
13	URDU -6113	انگریزی زبان کا مطالعہ	3
14	URDU-6114	کمپیوٹر لکریسی	3

“It’s your road & yours alone. Others may walk it with you, but no one can walk it for you”

- Rumi

BS International Relations

Semester 1

S. No.	Course Code	Course Title	Credit Hours
1	ENGL-1118	Functional English	3
2	MATH-1111	Mathematics-1	3
3	SSCI-1111	Introduction of Sociology	3
4	HLTH-1113	Basic Health Awareness	2
5	COSC-1105	Introduction to ICT	2
6	COSC-1205	Introduction to ICT (LAB)	1
7	PAKS-1113	Pakistan Studies (Compulsory)	2
Total			16

Semester 2

S. No.	Course Code	Course Title	Credit Hours
1	ENGL-1119	Communication Skills	3
2	ISLS-1112	Islamic Studies (Compulsory)	2
3	PHED-1110	Trauma and Rehabilitation	3
4	MATH-1112	Mathematics-II (Calculus)	3
5	ENSC-1101	Introduction to Environmental Science	3
6	PAKS-1122	International Relations (General)	3
Total			17

Semester 3

S. No.	Course Code	Course Title	Credit Hours
1	ENGL-2111	Technical Writing and Presentation Skills	3
2	POSC-2101	Introduction to Political Science - I	3
3	IRRE-2101	Public Administration	3
4	IRRE-2102	Globalization and International Relations	3
5	IRRE-2103	International Relations: 1648-1945	3
Total			15

Semester 4

S. No.	Course Code	Course Title	Credit Hours
1	IRRE-2104	Approaches and theories of international relations	3
2	IRRE-2105	International Relations Since 1945	3
3	IRRE-2106	Introduction to International Security	3
4	IRRE-2107	Evolution of State	3
5	IRRE-2108	Foreign Policy Analysis	3
6	IRRE-2109	Public International Law-I	3
Total			18

Semester 5

S. No.	Course Code	Course Title	Credit Hours
1	IRRE-3101	International Politics of Environment	3
2	IRRE-3102	Public International Law-II	3
3	IRRE-3103	Regional and International Organizations	3
4	IRRE-3104	Geo-Political Structure of the World	3
5	IRRE-3105	Foreign Policy of Pakistan	3
Total			15

Semester 6

S. No.	Course Code	Course Title	Credit Hours
1	PAKS-4147	Research Methodology	3
2	IRRE-3107	Comparative Politics	3
3	IRRE-3108	International Political Economy	3
4	IRRE-3109	Strategic Studies	3
5	SSCI-3120	Constitutional and Legal System of Pakistan	3
6	IRRE-3110	International Politics of Human Rights	3
Total			18

Semester 7

S. No.	Course Code	Course Title	Credit Hours
1	IRRE-4101	Diplomacy	3
2	IRRE-4102	Conflict Management and Resolution	3
3	IRRE-4103	Dynamics of Kashmir Conflict	3
4	IRRE-4104	Comparative Foreign Policies of Us, Russia, and China	3
5	IRRE-4105	Nuclear Studies	3
6	IRRE-4310	Research Report / Viva Voce	3
Total			18

Semester 8

S. No.	Course Code	Course Title	Credit Hours
1	IRRE-4106	Regional Connectivity and CPEC	3
2	IRRE-4107	Government and Politics in Pakistan	3
3	IRRE-4108	Arms Control, Disarmament and Nuclear Non-Proliferation	3
4	IRRE-4109	Peace Studies	3
5	IRRE-4310	Research Report/Viva Voce	3
Total			15

Program Total Credit Hours
132

BS Political Science

Semester 1

S. No.	Course Code	Course Title	Credit Hours
1	ENGL-1118	Functional English	3
2	MATH-1111	Mathematics-1	3
3	SSCI-1111	Introduction of Sociology	3
4	HLTH-1113	Basic Health Awareness	2
5	COSC-1105	Introduction to ICT	2
6	COSC-1205	Introduction to ICT (LAB)	1
7	PAKS-1113	Pakistan Studies (Compulsory)	2
Total			16

Semester 2

S. No.	Course Code	Course Title	Credit Hours
1	ENGL-1119	Communication Skills	3
2	ISLS-1112	Islamic Studies (Compulsory)	2
3	PHED-1110	Trauma and Rehabilitation	3
4	MATH-1112	Mathematics-II (Calculus)	3
5	ENSC-1101	Introduction to Environmental Science	3
6	PAKS-1122	International Relations	3
Total			17

Semester 3

S. No.	Course Code	Course Title	Credit Hours
1	ENGL-2111	Technical Writing And Presentation Skills	3
2	POSC-2101	Introduction to Political Science - I	3
3	POSC-2102	Political Systems (Developed) UK and USA	3
4	POSC-2103	Pakistan Movement	3
5	POSC-2104	Comparative and Developmental Politics-I	3
6	POSC-2105	Introduction to Philosophy	3
Total			18

Semester 4

S. No.	Course Code	Course Title	Credit Hours
1	POSC-2106	Introduction to Political Science - II	3
2	POSC-2107	Political Systems (Developing) China, India, Turkey	3
3	POSC-2108	Western Political Philosophy-I	3
4	POSC-2109	Muslim Political Philosophy-I	3
5	IRRE-2108	Foreign Policy Analysis	3
Total			15

Semester 5

S. No.	Course Code	Course Title	Credit Hours
1	POSC-3101	Introduction to Political Science - III	3
2	POSC-3102	Western Political Philosophy-II	3
3	POSC-3103	Muslim Political Philosophy-II	3
4	IRRE-3105	Foreign Policy of Pakistan	3
5	POSC-3104	Comparative and Developmental Politics-II	3
Total			15

Semester 6

S. No.	Course Code	Course Title	Credit Hours
1	PAKS-4147	Research Methodology	3
2	POSC-3105	Ideology and dynamics of Pakistan's politics	3
3	SSCI-3120	Constitution and Legal System of Pakistan	3
4	POSC-3107	Public Administration	3
5	POSC-3108	Introduction to Local Government	3
Total			15

Semester 7

S. No.	Course Code	Course Title	Credit Hours
1	IRRE-4101	Diplomacy	3
2	IRRE-4102	Conflict Management And Resolution	3
3	IRRE-4104	Comparative Foreign Policies Of Us, Russia, And China	4
4	POSC-4101	Political Parties and Elections in Pakistan	3
5	POSC-4102	Democracy and Governance	3
Total			16

Semester 8

S. No.	Course Code	Course Title	Credit Hours
1	POSC-4103	Muslim World in Global Politics	3
2	POSC-4104	Political Ideologies	3
3	POSC-4105	Political Economy of Pakistan	3
4	IRRE-4109	Peace Studies	3
5	POSC-4307	Research Report/Viva Voce	6
Total			18

Program Total Credit Hours

130

“The highest result of education is tolerance”

-Helen Keller

BS Fine Arts

Foundation Year

Semester 1

S. No.	Course Code	Course Title	Credit Hours
1	ARTS-1201	Drawing-I	3(0+3)
2	ARTS-1202	Drafting-I	2(0+2)
3	ARTS-1203	Basic Design-I	2(0+2)
4	ARTS-1204	3D Study-I	2(0+2)
5	ARTS-1105	History of Art-I	3(3+0)
6	ARTS-1206	Material and Process-I	2(0+2)
7	ENGL-1118	Functional English	3(3+0)
8	PAKS-1113	Pakistan Studies	2(2+0)
Total			18

Semester 2

S. No.	Course Code	Course Title	Credit Hours
1	ARTS-1207	Drawing-II	3(0+3)
2	ARTS-1208	Drafting-II	2(0+2)
3	ARTS-1209	Basic Design-II	2(0+2)
4	ARTS-1210	3D Study-II	2(0+2)
5	ARTS-1111	History of Art-II	3(3+0)
6	ARTS-1212	Material and Process-II	2(0+2)
7	ENGL-2111	Technical Writing and Presentation Skill	3(3+0)
8	ISLS-1112	Islamic Studies / Ethics	2(2+0)
Total			17

Painting Major

Semester 3

S. No.	Course Code	Course Title	Credit Hours
1	ARTS -2201	Drawing-III	2(0+2)
2	ARTS -2202	Major Studio Painting-I	3(0+3)
3	ARTS -2203	Fundamental of Graphic Art	3(0+3)
4	ARTS -2104	History of Art-III	2(2+0)
5	COSC-1105	Introduction to ICT	1(1+0)
6	COSC-1205	Introduction to ICT (Lab)	2(0+2)
7	ENGL-1119	Communication Skills	3(3+0)
Total			16

Semester 4

S. No.	Course Code	Course Title	Credit Hours
1	ARTS- 2211	Drawing-IV	2(0+2)
2	ARTS -2212	Major Studio Painting-II	3(0+3)
3	ARTS -2213	Major Studio Painting-III	3(0+3)
4	ARTS -2214	Elective Studio Minor-I	3(0+3)
5	ARTS -2115	History of Art-IV	2(2+0)
6	MATH-XXXX	Maths for Art & Design	3(3+0)
Total			16

Semester 5

S. No.	Course Code	Course Title	Credit Hours
1	ARTS -3201	Drawing-V	2(0+2)
2	ARTS -3202	Major Studio Painting-IV	3(0+3)
3	ARTS -3203	Major Studio Painting-V	3(0+3)
4	ARTS -3204	Major Studio Painting-VI	3(0+3)
5	ARTS -3205	Elective Studio Minor-II	3(0+3)
6	ARTS -3106	History of Art-V	2(2+0)
Total			18

Semester 6

S. No.	Course Code	Course Title	Credit Hours
1	ARTS-3211	Drawing-VI	2(0+2)
2	ARTS -3212	Major Studio Painting-VII	3(0+3)
3	ARTS -3213	Major Studio Painting-VIII	3(0+3)
4	ARTS -3214	Major Studio Painting-IX	3(0+3)
5	ARTS-3215	Elective Studio Minor-III	3(0+3)
6	ARTS -3116	History of Art-VI	3(3+0)
Total			18

Semester 7

S. No.	Course Code	Course Title	Credit Hours
1	ARTS-4201	Drawing-VII	2(0+2)
2	ARTS -4202	Research and Thesis	4(0+4)
3	ARTS -4203	Major Studio Painting-X	3(0+3)
4	ARTS -4204	Major Studio Painting-XI	3(0+3)
5	ARTS -4205	Elective Studio Minor-IV	3(0+3)
6	ARTS -4106	Contemporary Art Seminar	3(3+0)
Total			18

Semester 8

S. No.	Course Code	Course Title	Credit Hours
1	ARTS-4211	Painting Thesis-XII	4(0+4)
2	ARTS-4212	Painting Thesis-XIII	4(0+4)
3	ARTS-4213	Painting Thesis-XIV	4(0+4)
4	ARTS-4114	Universal Optional (Thesis Report)(optional minor course)	3(3+0)
Total			15

Program Total Credit Hours

136(40+96)

Graphic Art Major

Semester 3

S. No.	Course Code	Course Title	Credit Hours
1	ARTS -2201	Drawing-III	2(0+2)
2	ARTS -2204	Major Studio Graphic Art-I	3(0+3)
3	ARTS -2203	Fundamental of Graphic Art	3(0+3)
4	ARTS -2104	History of Art-II	2(2+0)
5	COSC-1105	Introduction to ICT	1(1+0)
6	COSC-1205	Introduction to ICT	2(0+2)
7	ENGL-1119	Communication Skills	3(3+0)
Total			16

Semester 4

S. No.	Course Code	Course Title	Credit Hours
1	ARTS - 2211	Drawing-IV	2(0+2)
2	ARTS -2222	Major Studio Graphic Art-II	3(0+3)
3	ARTS -2223	Major Studio Graphic Art-III	3(0+3)
4	ARTS -2214	Elective Studio Minor-I	3(0+3)
5	ARTS -2115	History of Art-IV	2(2+0)
6	MATH-XXXX	Maths for Art & Design	3(3+0)
Total			16

Semester 5

S. No.	Course Code	Course Title	Credit Hours
1	ARTS -3201	Drawing-V	2(0+2)
2	ARTS -3222	Major Studio Graphic Art –IV	3(0+3)
3	ARTS -3223	Major Studio Graphic Art –V	3(0+3)
4	ARTS -3224	Major Studio Graphic Art –VI	3(0+3)
5	ARTS -3205	Elective Studio Minor-II	3(0+3)
6	ARTS -3106	History of Art-V	2(2+0)
8	ARTS -3107	General Theory-I	2(2+0)
Total			18

Semester 6

S. No.	Course Code	Course Title	Credit Hours
1	ARTS -3211	Drawing-VI	2(0+2)
2	ARTS -3222	Major Studio Graphic Art –VII	3(0+3)
3	ARTS -3223	Major Studio Graphic Art –VIII	3(0+3)
4	ARTS -3214	Major Studio Graphic Art –IX	3(0+3)
5	ARTS -3215	Elective Studio Minor-III	3(0+3)
6	ARTS -3116	History of Art-VI	3(3+0)
Total			17

Semester 7

S. No.	Course Code	Course Title	Credit Hours
1	ARTS-4201	Drawing-VII	2(0+2)
2	ARTS -4202	Research and Thesis	4(0+4)
3	ARTS -4223	Major Studio Graphic Art –X	3(0+3)
4	ARTS -4224	Major Studio Graphic Art –XI	3(0+3)
5	ARTS -4205	Elective Studio Minor-IV	3(0+3)
6	ARTS -4106	Contemporary Art Seminar	3(3+0)
Total			18

Semester 8

S. No.	Course Code	Course Title	Credit Hours
1	ARTS-4221	Graphic Art Thesis-XII	4(0+4)
2	ARTS-4222	Graphic Art Thesis-XIII	4(0+4)
3	ARTS-4223	Graphic Art Thesis-XIV	4(0+4)
4	ARTS-4114	Universal Optional (Thesis Report)	3(3+0)
Total			15

Program Total Credit Hours

136(40+96)

Sculpture Major

Semester 3

S. No.	Course Code	Course Title	Credit Hours
1	ARTS -2201	Drawing-III	2(0+2)
2	ARTS -2205	Major Studio Sculpture-I	3(0+3)
3	ARTS -2203	Fundamental of Graphic Art	3(0+3)
4	ARTS -2104	History of Art-III	2(2+0)
5	COSC-1105	Introduction to ICT	1(1+0)
6	COSC-1205	Introduction to ICT (Lab)	2(0+2)
7	ENGL-1119	Communication Skills	3(3+0)
Total			16

Semester 4

S. No.	Course Code	Course Title	Credit Hours
1	ARTS- 2211	Drawing-IV	2(0+2)
2	ARTS -2232	Major Studio Sculpture-II	3(0+3)
3	ARTS -2233	Major Studio Sculpture –III	3(0+3)
4	ARTS -2214	Elective Studio Minor-I	3(0+3)
5	ARTS -2115	History of Art-IV	2(2+0)
6	MATH-XXXX	Maths for Art & Design	3(3+0)
Total			16

Semester 5

S. No.	Course Code	Course Title	Credit Hours
1	ARTS -3201	Drawing-V	2(0+2)
2	ARTS -3232	Major Studio Sculpture –IV	3(0+3)
3	ARTS -3233	Major Studio Sculpture –V	3(0+3)
4	ARTS -3234	Major Studio Sculpture –VI	3(0+3)
5	ARTS -3205	Elective Studio Minor-II	3(0+3)
6	ARTS -3106	History of Art-V	2(2+0)
8	ARTS -3107	General Theory-I	2(2+0)
Total			18

Semester 6

S. No.	Course Code	Course Title	Credit Hours
1	ARTS -3211	Drawing-VI	2(0+2)
2	ARTS -3232	Major Studio Sculpture –VII	3(0+3)
	ARTS -3233	Major Studio Sculpture –VIII	3(0+3)
3	ARTS -3234	Major Studio Sculpture –IX	3(0+3)
4	ARTS -3215	Elective Studio Minor-III	3(0+3)
5	ARTS -3116	History of Art-VI	3(3+0)
Total			17

Semester 7

S. No.	Course Code	Course Title	Credit Hours
1	ARTS-4201	Drawing-VII	2(0+2)
2	ARTS -4202	Research and Thesis	4(0+4)
3	ARTS -4233	Major Studio Sculpture –X	3(0+3)
4	ARTS -4234	Major Studio Sculpture –XI	3(0+3)
5	ARTS -4205	Elective Studio Minor-IV	3(0+3)
6	ARTS -4106	Contemporary Art Seminar	3(3+0)
Total			18

Semester 8

S. No.	Course Code	Course Title	Credit Hours
1	ARTS-4231	Sculpture Thesis-XII	4(0+4)
2	ARTS-4232	Sculpture Thesis-XIII	4(0+4)
3	ARTS-4233	Sculpture Thesis-XIV	4(0+4)
4	ARTS-4114	Universal Optional (Thesis Report)	3(3+0)
Total			15

Program Total Credit Hours

136(40+96)

Miniature Major

Semester 3

S. No.	Course Code	Course Title	Credit Hours
1	ARTS -2201	Drawing-III	2(0+2)
2	ARTS -2206	Major Studio Miniature-I	3(0+3)
3	ARTS -2203	Major Studio Graphic Art-II	3(0+3)
4	ARTS -2104	History of Art-III	2(2+0)
5	COSC-1105	Introduction to ICT	1(1+0)
6	COSC-1205	Introduction to ICT(Lab)	2(0+2)
7	ENGL-1119	Communication Skills	3(3+0)
Total			16

Semester 4

S. No.	Course Code	Course Title	Credit Hours
1	ARTS -2211	Drawing-IV	2(0+2)
2	ARTS -2242	Major Studio Miniature-II	3(0+3)
3	ARTS -2243	Major Studio Miniature -III	3(0+3)
4	ARTS -2214	Elective Studio Minor-IV	3(0+3)
5	ARTS -2115	History of Art-IV	2(2+0)
6	MATH-XXXX	Maths for Art & Design	3(3+0)
Total			16

Semester 5

S. No.	Course Code	Course Title	Credit Hours
1	ARTS -3201	Drawing-V	2(0+2)
2	ARTS -3242	Major Studio Miniature –V	3(0+3)
3	ARTS -3243	Major Studio Miniature –VI	3(0+3)
4	ARTS -3244	Major Studio Miniature -VII	3(0+3)
5	ARTS -3205	Elective Studio Minor-II	3(0+3)
6	ARTS -3106	History of Art-V	2(2+0)
8	ARTS -3107	General Theory-I	2(2+0)
Total			18

Semester 6

S. No.	Course Code	Course Title	Credit Hours
1	ARTS -3211	Drawing-VI	2(0+2)
2	ARTS -3242	Major Studio Miniature –VIII	3(0+3)
	ARTS -3243	Major Studio Miniature –IX	3(0+3)
3	ARTS -3244	Major Studio Miniature –X	3(0+3)
4	ARTS -3215	Elective Studio Minor-III	3(0+3)
5	ARTS -3116	History of Art-VI	3(3+0)
Total			17

Semester 7

S. No.	Course Code	Course Title	Credit Hours
1	ARTS -4201	Drawing-VII	2(0+2)
2	ARTS -4202	Research and Thesis	4(0+4)
3	ARTS -4243	Major Studio Miniature -XI	3(0+3)
4	ARTS -4244	Major Studio Miniature -XII	3(0+3)
5	ARTS -4205	Elective Studio Minor-IV	3(0+3)
6	ARTS -4106	Contemporary Art Seminar	3(3+0)
Total			18

Semester 8

S. No.	Course Code	Course Title	Credit Hours
1	ARTS-4241	Miniature Thesis-XIII	4(0+4)
2	ARTS-4242	Miniature Thesis-XIV	4(0+4)
3	ARTS-4243	Miniature Thesis-XV	4(0+4)
4	ARTS-4114	Universal Optional (Thesis Report)	3(3+0)
Total			15

Program Total Credit Hours

136(40+96)

BS Media and Communication

Semester 1

S. No.	Course Code	Course Title	Credit Hours
1	ENGL-1118	Functional English	3
2	PAKS-1113	Pakistan Studies	2
3	MECO-1101	Introduction to Mass Communication	3
4	COSC-1101	Introduction to ICT	2+1
	COSC-1201	Introduction to ICT-lab	
5	MATH-1111	Mathematics-I	3
6	HLTH-1113	Basic Health Awareness	3
Total			17

Semester 2

S. No.	Course Code	Course Title	Credit Hours
1	ENGL-1119	Communication Skills	3
2	ISLS-1112	Islamic Studies	2
3	MECO-1102	Contemporary World Media	3
4	ENSC-1101	Introduction to Environmental Science	3
5	URDU-XXXX	Functional Urdu	3
6	PAKS-1122	International Relations	3
Total			17

Semester 3

S. No.	Course Code	Course Title	Credit Hours
1	ENGL-2111	Technical Writing and Presentation Skills	3
2	MECO-2104	Media Laws and Ethics	3
3	MECO-2105	National & International Affairs	3
4	POSC-XXXX	Political Economics	3
5	SSCI-1111	Introduction of Sociology	3
6	MATH-XXXX	Statistics	3
Total			18

Semester 4

S. No.	Course Code	Course Title	Credit Hours
1	MECO-2218	Introduction to Advertising and Public Relations	2+1
2	MECO-2106	Mass Media in Pakistan	3
3	POSC-2101	Introduction to Political Science-I	3
4	MSCI-2102	Human Resource Management	3
5	BEDU-XXXX	Introduction to Education studies	3
	ENGL-XXXX	Academic writing	3
Total			18

Semester 5

S. No.	Course Code	Course Title	Credit Hours
1	MECO-3109	News Reporting & Writing	3
2	MECO-3110	Broadcast Journalism	3
3	MECO-3111	Online Journalism	3
4	MECO-3212	Introduction to Film and Cinema	2+1
5	MECO-3113	Theories of Communication-I	3
Total			15

Semester 6

S. No.	Course Code	Course Title	Credit Hours
1	MECO-3114	Sub Editing & Page Designing (Theory & Practice)	2+1
2	MECO-3214		
3	MECO-3116	Research Methods –I	4
4	MECO-3117	Theories of Communication – II	3
5	MECO-3218	ICT for Mass Media and Communication	2+1
6	SSCI-3120	Constitution and Legal System of Pakistan	3
Total			16

Semester 7

S. No.	Course Code	Course Title	Credit Hours
1	MECO-4119	Development Communication	3
2	IRRE-4109	Peace Studies	3
3	MECO-XXXX	Course from Specialization-I	2+1
4	MECO-XXXX	Course from Specialization-II	2+1
5	MECO-3115 MECO-3215	Feature, Column & Editorial Writing (Theory & Practice)	2+1
Total			15

Semester 8

S. No.	Course Code	Course Title	Credit Hours
1	MECO-4122	Media Management & Marketing	3
2	MECO-XXXX	Course from Specialization-III	3
3	MECO-XXXX	Course from Specialization-IV	3
4	MECO-4436	Internship	3
5	MECO-4321	Research Report/Media project	3
Total			15

Program Total Credit Hours

131

Elective Courses of Specialization

Specialization Course-I (Print Media)

S. No.	Course Code	Course Title	Credit Hours
1	MECO-4137 MECO-4237	Advance Reporting (Theory+ Practical)	2+1
2	MECO-4138 MECO-4238	Newspaper Production (Theory+ Practical)	2+1
3	MECO-4139 MECO-4239	Advance Sub Editing (Theory+ Practical)	2+1
4	MECO-4140 MECO-4240	Magazine and Book Production (Theory+ Practical)	2+1

Specialization Course-III(Advertising and Public Relations)

S. No.	Course Code	Course Title	Credit Hours
1	MECO-4141 MECO-4241	Radio News Reporting and Production (Theory+ Practical)	2+1
2	MECO-4142 MECO-4242	TV News Reporting and Production (Theory+ Practical)	2+1
3	MECO-4143 MECO-4243	Radio Programme Production (Theory+ Practical)	2+1
4	MECO-4144 MECO-4244	TV Programme Production (Theory+ Practical)	2+1

Specialization Course-III(Advertising and Public Relations)

S. No.	Course Code	Course Title	Credit Hours
1	MECO-4145 MECO-4245	Advertising-I (Theory+ Practical)	2+1
2	MECO-4146 MECO-4246	Public Relations-I (Theory+ Practical)	2+1
3	MECO-4147 MECO-4247	Advertising-II (Theory+ Practical)	2+1
4	MECO-4148 MECO-4248	Public Relations-II (Theory+ Practical)	2+1

“A ruler should be slow to punish and swift to reward”

-Ovid



BoS (Department of Humanities & Social Sciences)





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Events & Happenings

Section 4

Events & Happenings

- Sports Gala-2019
- Spring Fiesta-2019
- Mushaira
- EXPO (Educational and Industrial)
- Holi (For Minorities)
- Mock Exercises (Security)
- Open House and Project Exhibition
- FIT Challenge
- Tree Plantation
- Blood Donation Camps
- Health & Safety Seminars
- Turkish Agriculture Delegation
- PEC Visits
- MOU signing ceremony with Bait-ul-Maal
- KRIS
- Institute of Electrical and Electronics Engineers (IEEE)
- Pink Ribbons Day
- Smog Walk
- Media Confrence with Print & Electronic Media
- World Food Day

Sports Gala 2019



Spring Fiesta 2019





Mushaira





Holi (For Minorities)



Security Mock Exercises



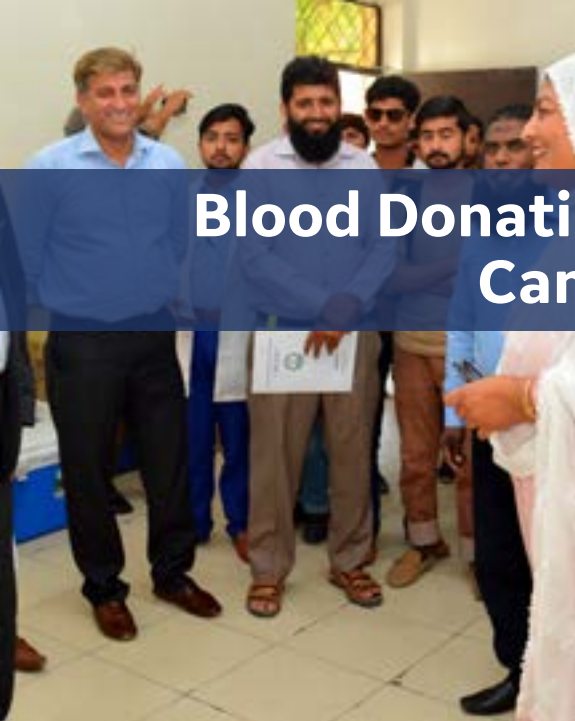






Tree Plantation





Blood Donation Camp





Turkish Agriculture Delegation

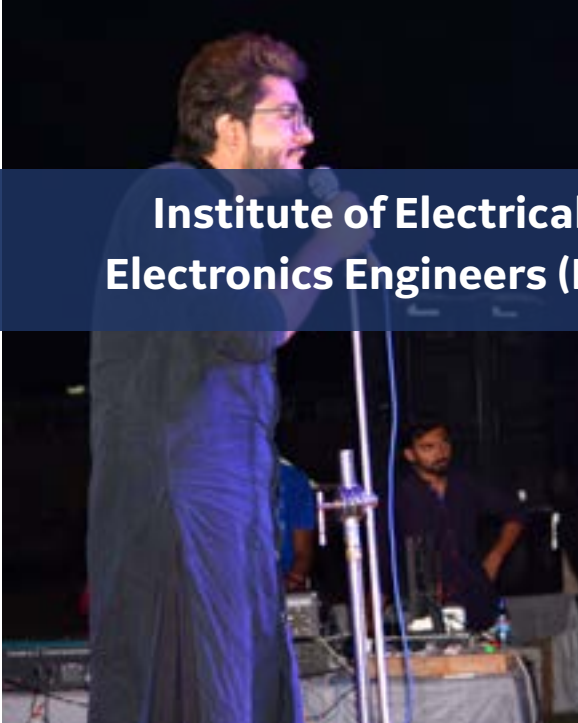




MOU Signing with Pakistan Bait-Ul-Maal







**Institute of Electrical and
Electronics Engineers (IEEE)**



Media Conference 2019



Smog Walk





World Food Day



A globe is positioned on a wooden desk, showing the Indian Ocean and surrounding continents. In the background, a green chalkboard and a pen holder with various pens are visible. The text 'Admissions, Scholarships and Testing Services' is overlaid on the lower left of the globe.

**Admissions,
Scholarships and
Testing Services**

Section

5

Admissions, Scholarships and Testing Services

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Admission Office

Ali Goher

Director Admissions

Call: +92 (68) 5882433

Email: admissions@kfueit.edu.pk



The Admission Office, being first contact point for any student, assists in every possible way and provides complete relevant information about admissions in all programs. It guides student about making the right choice regarding particular academic program & career. Our Admission Counseling Team actively engages with the parents and the prospective students about different options and opportunities available for them.

The major services provided by admission office of KFUEIT include:

- Operate and maintain the admissions and enrolment modules of the Web Application
- Briefings about admission procedures, courses offered and documentation to prospective students and their parents through phone calls, emails and face to face meetings
- Counseling the prospective students about their future aims / targets
- Reviewing student applications for the eligibility and academic qualification
- Processing of Admission Applications and enrolment of new students
- Fee submission and on-boarding of students
- Prepare and present applicants report and analysis to University management
- Maintain regular communication with students, parents, colleagues and external agencies for coordinating admission activities and resolving problems
- Collaborate with the program coordinators to organize presentations, information sessions and recruitment related activities

Department of Testing Services

Muhammad Nasir

Manager Testing Services

Call: +92 (68) 5882472

Email: mts@kfueit.edu.pk



Department of Testing Services has been established to conduct tests for the purpose of recruitment, promotions, admissions and competency / skill assessment of applicants, students and employees of the University. The Testing Services Department through its conduct of appropriate test shall ensure merit and transparency in recruitment, admissions, promotions and teaching activities of the University. Properly developed and well-validated tests are a reliable and objective means of gathering education / job-related information on candidates / employees / students.

Core Services of Testing Services Department are:

- Admission Tests / Entry Tests / Migration Tests
- End of Degree Exam / Comprehensive
- Recruitment / Pre-Employment Test
- Employees Promotion Tests
- Test conduction on the request of other departments outside the University

Scholarships and Financial Assistance Department

Dr. Muhammad Hashim

Director Scholarships and Financial Assistance

Call: +92 (68) 5882419

Email: dsfa@kfueit.edu.pk



In order to facilitate the talented and needy student, the university offers substantial number of scholarships and financial assistants so that the future leaders do not discontinue their studies because of financial constraints. To ensure transparency and meritocracy, Scholarships and Financial Assistance Department along with a Committee, consisting of member from each faculty, administers all matters related to scholarships and financial assistance.

The major function of the Scholarships Department is to process the internal Need Based, Merit Scholarships and external scholarships like Fareed Scholarship, Pakistan Bait ul Mall, Ministry of Religious Affairs and IEP – SAC (Saudi Arabia) Scholarships.

List of Scholarships currently running at KFUEIT

Internal Programs:

- KFUEIT Merit Scholarships
- KFUEIT Need Based Scholarships

External Programs:

- Prime Minister's Fee Reimbursement Scheme
- PEEF Scholarships
- PEEF Master's Scholarships
- Fareed Scholarships
- IEP-SAC (Saudi Arabia) Scholarships
- Karwan-e-Ilm Foundation
- Mora (Zakat) Scholarships
- Ihsan Trust Interest Free Student Loan Scheme
- Pakistan Bait-ul-Mal
- FFC Sona Wards Scholarships
- Fouji Foundation Scholarships
- National Bank of Pakistan Interest Free Student Loan Scheme
- WEVA Scholarships
- WISSEN-Zafar Shamim Scholarships

Scholarships Committee

Name	Designation	Status
Dr. Muhammad Hashim	Director Scholarships	President
Dr. Muhammad Aslam	Assistant Professor	Member
Engr. Dr. Shanawar Hamid	Assistant Professor	Member
Dr. Muthur Mansoor Qaisrani	Assistant Professor	Member
Ms. Fasiha Nargis	Assistant Registrar	Member
Mr. Athar Munir	Assistant Manager Finance	Member
Ms. Gul e Zainab Bukhari	Manager Scholarships	Member/Secretary

Total Number of Scholarships Awarded to KFUEIT Students since, its Establishment

Total Applications Processed	3,270
Amount of Scholarships Awarded	PKR 81,873,914

Following External Scholarships are also being processed through Scholarships and Financial Assistance Department to assist our students.

- Benevolent Fund Scholarships
- Minorities Scholarships
- WAPDA Welfare Fund Scholarships
- Federal Employee Group Insurance Fund
- Unilever Pakistan Scholarships
- Diya Pakistan Scholarships
- Worker Welfare Board
- Pakistan Engineering Congress

Summary of Scholarships (Fall 2014 to Fall 2018)

The following semester wise summary picturizes the growth of scholarships department along with the University:

Semester	No. of scholarships awarded to students	Amount Distributed among students
Fall-14	9	159,000
Spring-15	18	399,000
Fall-15	18	399,000
Spring-16	95	1,430,052
Fall-16	388	11,139,384
Spring-17	475	13,363,336
Fall-17	702	16,954,980
Spring-18	732	17,207,601
Fall-18	833	20,821,561
Total	3,270	81,873,914

Programs Being Offered (Undergraduate, Graduate, PhD)

Undergraduate Degree Programs	Graduate Degree Programs
<ol style="list-style-type: none"> 1. BS Electrical Engineering 2. BS Electrical Technology * 3. BS Electronics 4. BS Mechanical Engineering 5. BS Materials Science 6. BS Civil Engineering 7. BS Computer Engineering 8. BS Software Engineering 9. BS Agricultural Engineering 10. BS Agriculture 11. BS Chemical Engineering 12. BS Environmental Science 13. BS Environmental Engineering * 14. BS Computer Science 15. MSc Computer Science 16. BS Information Technology 17. BS Bioinformatics 18. BS Telecommunication System * 19. BS Chemistry 20. MSc Chemistry 21. BS Forensic Science 22. BS Zoology 23. BS Botany 24. BS Biochemistry 25. BS Biotechnology 26. BS Physics 27. MSc Physics 28. BS Mathematics 29. MSc Mathematics 30. BS Food Science and Technology 31. BS Human Nutrition and Dietetics 32. BBA 33. BS Public Administration 34. BS Economics 35. MBA Executive 36. BS English 37. BS Islamic Studies with IT 38. BS Pakistan Studies 39. BS Physical Education 40. BS History 41. BS Heritage Studies (Archaeology) 42. LLB (5 Years) 43. B.Ed 1.5 Year Secondary * 44. B.Ed (Hons) 4 Years Elementary * 45. BS Urdu 46. BS Media & Communication 47. BS International Relations 48. BS Political Science 49. BS Fine Arts 50. BS Clinical Psychology 51. BS Cosmetology and Dermatological Sciences 52. BS Radiology * 53. BS Medical Laboratory Technology * 54. BS Optometry * 	<ol style="list-style-type: none"> 1. MS Electrical Engineering 2. MS Electronics * 3. MS Mechanical Engineering 4. MS Materials Science * 5. MS Civil Engineering (Water Resource & Irrigation Engineering) 6. MS Computer Engineering 7. MS Software Engineering 8. MS Agricultural Engineering 9. MS Water Resources Management * 10. MS Chemical Engineering 11. MS Environmental Science 12. MS Environmental Engineering * 13. MS Computer Science 14. MS Data Science * 15. MS Information Technology * 16. MS Information Security 17. MS Telecommunication System * 18. MS Chemistry 19. MS Physics 20. MS Mathematics 21. MS Food Technology 22. MS Human Nutrition and Dietetics * 23. MS Food Safety and Quality Management * 24. MBA 2 Years 25. MBA 2.5 Years 26. MS Management Sciences 27. MS Engineering Management 28. M.Phil English Linguistics 29. MS Islamic Studies * 30. MS Pakistan Studies * 31. MS History * 32. MS Urdu * 33. MS Health Care Management
PhD Degree Programs	
<ol style="list-style-type: none"> 1. PhD Electrical Engineering * 2. PhD Mechanical Engineering * 3. PhD Environmental Science * 4. PhD Computer Science * 5. PhD Chemistry 6. PhD Physics * 7. PhD Mathematics * 	
<p style="text-align: center; font-style: italic;">“Knowledge is that which benefits not that which is memorized”</p> <p style="text-align: right; color: green; font-style: italic;">Imam Al-Shafi'i (RA)</p>	

* Subject to approval / NOC from HEC / Competent Authority / Accreditation Body

** KFUEIT can take decision not to start any program subject to no of applicants below standard number

Eligibility Criteria | Undergraduate (BS Program)

Faculty of Engineering

a) Candidate should meet standards of physique and eye sight laid down in the medical certificate.

b) Merit Score = (0.7x Percentage HSSC including Hafiz-e-Quran marks) + (0.3x Percentage Aptitude Test Score).

* Result awaiting candidate(s) may apply on the basis of Part I result. Result of Part I will be considered for merit calculation in place of HSSC complete result, provided that the candidate(s) fulfill the minimum eligibility criteria.

Programs	Academic Qualification
BS Agricultural Engineering BS Civil Engineering BS Chemical Engineering BS Electrical Engineering BS Environmental Engineering * BS Mechanical Engineering	a) Higher Secondary School Certificate (HSSC) with Pre-Engineering / Pre-Medical with additional Mathematics or equivalent with 60% marks. b) KFUEIT recognized aptitude test (ECAT / HAT / KFEAT) c) DAE in relevant field (2% quota)
BS Computer Engineering	a) Higher Secondary School Certificate (HSSC) with Pre-Engineering / Pre-Medical with additional Mathematics / ICS including Mathematics, Physics and Computer or equivalent with 60% marks. b) KFUEIT recognized aptitude test (ECAT / HAT / KFEAT) c) DAE in relevant field (2% quota)
BS Software Engineering	a) The minimum requirements for admission in a Bachelor degree program in Software Engineering, is at least 50% marks in Intermediate (HSSC) examination. Moreover, applicant must have obtained at least 60% marks in Intermediate (HSSC) level Mathematics. Applicants having equivalent qualifications (such as A-level or diploma from a Polytechnic) are also eligible. b) KFUEIT recognized aptitude test (KFAT / NAT / ECAT / KFEAT / HAT) with minimum score of 40%.
BS Electronics	a) Higher Secondary School Certificate (HSSC) with Pre-Engineering / Pre-Medical with additional Mathematics / ICS including Mathematics, Physics and Computer / Diploma of Associate Engineering (DAE) in Electrical / Electronics or equivalent with 2nd Division. b) KFUEIT recognized aptitude test (KFAT / NAT / ECAT / KFEAT / HAT) with minimum score of 40%
BS Electrical Technology *	a) Higher Secondary School Certificate (HSSC) with Pre-Engineering / Pre-Medical with additional Mathematics / ICS including Mathematics, Physics and Computer / Diploma of Associate Engineering (DAE) in Electrical / Electronics or equivalent with 50% marks. b) KFUEIT recognized aptitude test (KFAT / NAT / ECAT / KFEAT / HAT) with minimum score of 40%
BS Environmental Science	a) Higher Secondary School Certificate (HSSC) with Pre-Engineering / Pre-Medical or equivalent with 50% marks. b) KFUEIT recognized aptitude test (KFAT / NAT / MCAT / HAT / ECAT / KFEAT) with minimum score of 40% c) DAE in relevant field are eligible
BS Material Sciences	a) Higher Secondary School Certificate (HSSC) with Pre-Engineering / Pre-Medical with additional Mathematics / ICS with Mathematics, with 50% marks / Diploma of Associate Engineer (DAE) in relevant technologies* with 60% marks. b) KFUEIT recognized aptitude test (KFAT / NAT / ECAT / KFEAT / HAT) with minimum score of 40% c) DAE in relevant field are eligible

Non-Engineering Programs

Faculty of Computer Science & Information Technology

Programs	Academic Qualification
BS Computer Science	a) Higher Secondary School Certificate (HSSC) with Pre-Engineering / Pre-Medical with additional Mathematics / "Computer Science group" including Math, Physics and Computer Studies as mandatory subjects or equivalent with 50% marks. At least 60% marks in Intermediate (HSSC) level Mathematics. b) KFUEIT recognized aptitude test (KFAT / NAT / ECAT / KFEAT / HAT) with minimum score of 40% c) DAE in relevant field are eligible
BS Information Technology BS Telecommunications System	a) Higher Secondary School Certificate (HSSC) with Pre-Engineering / Pre-Medical with additional Mathematics / "Computer Science group" including Math, Physics and Computer Studies as mandatory subjects or equivalent with 50% marks. At least 60% marks in Intermediate (HSSC) level Mathematics. b) KFUEIT recognized aptitude test (KFAT / NAT / ECAT / KFEAT / HAT) with minimum score of 40% c) DAE in relevant field are eligible
BS Bioinformatics	a) Higher Secondary School Certificate (HSSC) with Pre Medical or equivalent with 50% marks. b) KFUEIT recognized aptitude test (KFAT / NAT / MCAT / HAT) with minimum score of 40% c) DAE in relevant field are eligible



Faculty of Natural Sciences

Programs	Academic Qualification
BS Food Science and Technology	a) Higher Secondary School Certificate (HSSC) with Pre-Engineering / Pre-Medical or equivalent with 60% marks. b) KFUEIT recognized aptitude test (KFAT / NAT / MCAT/ ECAT / KFEAT / HAT) with minimum score of 40% c) DAE in Food Science & Technology are eligible
BS Human Nutrition and Dietetics	a) Higher Secondary School Certificate (HSSC) with Pre-Medical or equivalent with 50% marks. b) KFUEIT recognized aptitude test (KFAT / NAT / MCAT) with minimum score of 40% are eligible
BS Mathematics	a) Higher Secondary School Certificate (HSSC) with Pre-Engineering or equivalent with Mathematics with 50% marks. b) KFUEIT recognized aptitude test (KFAT / NAT / ECAT / KFEAT / HAT) with minimum score of 40% c) DAE at least 60% marks with Mathematics are eligible
BS Physics	a) Higher Secondary School Certificate (HSSC) with Physics or equivalent with 50% marks. b) KFUEIT recognized aptitude test (KFAT / NAT / MCAT / ECAT / KFEAT / HAT) with minimum score of 40% c) DAE in relevant field are eligible
BS Forensic Science	a) Higher Secondary School Certificate (HSSC) with Pre-Engineering / Pre-Medical or equivalent with 50% marks. b) KFUEIT recognized aptitude test (KFAT / NAT / MCAT/ ECAT / KFEAT / HAT) with minimum score of 40% c) DAE in relevant field are eligible
BS Chemistry	a) Higher Secondary School Certificate (HSSC) with Chemistry or equivalent with 50% marks. b) KFUEIT recognized aptitude test (KFAT / NAT / MCAT / ECAT / KFEAT / HAT) with minimum score of 40% c) DAE in relevant field are eligible
BS Biochemistry BS Botany BS Biotechnology BS Zoology	a) Higher Secondary School Certificate (HSSC) with Pre-Medical or equivalent with Chemistry and Biology with 50% marks. b) KFUEIT recognized aptitude test (KFAT / NAT / MCAT) with minimum score of 40% c) DAE in relevant field are eligible
BS Clinical Psychology BS Cosmetology and Dermatological Sciences BS Medical Laboratory Technology * BS Optometry * BS Radiology *	a) Higher Secondary School Certificate (HSSC) with Pre-Medical or equivalent with 50% marks. b) KFUEIT recognized aptitude test (KFAT / NAT / MCAT) with minimum score of 40% c) 50% Marks in F.Sc. Pre Medical or Equivalent from any recognized Institution.
BS Agriculture	a) Higher Secondary School Certificate (HSSC) with Pre-Engineering / Pre-Medical / Diploma in Agricultural Sciences or equivalent with 50% marks. b) KFUEIT recognized aptitude test (KFAT / NAT / MCAT/ ECAT / KFEAT / HAT) with minimum score of 40% c) Diploma in Agriculture Sciences

Faculty of Management Sciences & Humanities

Programs	Academic Qualification
BBA BS Economics BS Public Administration	a) Higher Secondary School Certificate (HSSC) or equivalent with 45% marks. b) KFUEIT recognized aptitude test (KFAT / NAT / HAT / KFEAT) with minimum score of 40% c) DAE in all fields are eligible.
BS English BS Fine Arts BS History BS Heritage Studies (Archeology) BS Islamic Studies with Computer Technology BS Media & Communication BS Pakistan Studies BS Physical Education BS Political Sciences BS International Relations BS Urdu	a) Higher Secondary School Certificate (HSSC) or equivalent with 45% marks. b) KFUEIT recognized aptitude test (KFAT / KFEAT). c) PET (Physical Efficiency Test) only for BS Physical Education. d) 45% Marks in English only for BS English. e) DAE in all fields are eligible.
LLB (5 Years)	a) Higher Secondary School Certificate (HSSC) or equivalent with 45% marks. b) LAT conducted by HEC c) KFUEIT recognized aptitude test (KFAT / KFEAT). d) 05% Quota for the sons / daughters of Advocates e) Maximum age limit to get admission in LLB is 23(years). f) Only LAT qualifiers will be allowed to get admission, except the genuine cases like students from FATA.
B.Ed (Hons) 4 Years Elementary *	a) Higher Secondary School Certificate (HSSC) or equivalent with 45% marks. b) KFUEIT recognized aptitude test (KFAT / KFEAT). c) DAE in all fields are eligible.
B.Ed 1.5 Year Secondary *	a) 16 Years of education or equivalent with CGPA 2.50/4.00 in semester system or 45% marks in annual system. b) KFUEIT recognized aptitude test (KFAT / KFEAT). c) Interview for admission is not mandatory d) Bachelors Pre Req for B.Ed 2.5Years



Eligibility Criteria | Undergraduate (MSc and BBA 3rd Year Program)

Programs	Academic Qualification
MSc Physics	a) 14 years of education with Mathematics & Physics or equivalent with 45% marks. b) KFUEIT recognized aptitude test (KFAT / NAT / HAT) with minimum score of 40%
MSc Chemistry	a) 14 years of education with Chemistry or equivalent with 45% marks. b) KFUEIT recognized aptitude test (KFAT / NAT / HAT) with minimum score of 40%
MSc Mathematics	a) 14 years of education with Mathematics A & B or any other examination of a Foreign University / Institution / Examination Body, equivalent to BSc with Physics and Mathematics (equivalence and percentage of marks will be determined by HEC) or equivalent with 45% marks. b) KFUEIT recognized aptitude test (KFAT / NAT / HAT) with minimum score of 40%
MSc Computer Science	a) 14 years of education with Computer Science of 200 marks or equivalent with 45% marks. b) 5% seats are reserved for Associate Degree Program (ADP in Computer Science) holders. c) KFUEIT recognized aptitude test (KFAT / NAT / HAT) with minimum score of 40%
BBA (3rd Year)	a) 14 years of education or equivalent with 45% marks. b) KFUEIT recognized aptitude test (KFAT / NAT / HAT) with minimum score of 40%

Eligibility Criteria | Graduate Programs

- a) 2.5/4.0 or 3.5/5.0 in semester system or 50% in annual system. (45% in annual system for MS English Program)
b) NTS GAT General Test/HEC/Department Admission Test with a minimum 50% cumulative score is mandatory.

Programs	Academic Eligibility Requirement	Specializations Offered in MBA/MS Programs
MS Electrical Engineering	16 years of education in following disciplines: 1- Electrical Engineering 2- Telecommunication Engineering 3- Electronics Engineering 4- Any other relevant degree	1- Power 2- Telecommunication 3- Electronics
MS Electronics	16 years of education in following disciplines: 1- Electrical Engineering 2- Electrical Technology 3- Telecommunication Engineering 4- Electronics Engineering 5- Electronics Technology 6- BS Physics 7- Any other relevant degree	1- MS Electronics

Programs	Academic Eligibility Requirement	Specializations Offered in MBA/MS Programs
MS Mechanical Engineering	16 years of education in following disciplines: 1- BS Mechanical Engineering 2- BS Mechatronics Engineering 3- BS Industrial Engineering 4- Any other relevant degree	1- MS Mechanical Engineering
MS Chemical Engineering	16 years of education in following disciplines: 1- Chemical Engineering 2- Petroleum and Gas Engineering 3- Polymer Engineering 4- Environmental Engineering 5- Any other relevant degree	1- MS Chemical Engineering
MS Environmental Engineering *	16 years of education in following disciplines: 1- Environmental Engineering 2- Chemical Engineering 3- Petroleum and Gas Engineering 4- Mining Engineering 5- Polymer Engineering 6- Energy Engineering 7- Industrial Engineering 8- Agricultural Engineering 9- Mechanical Engineering 10- Civil Engineering 11- Any other relevant degree	1- MS Environmental Engineering*
MS Environmental Science	16 years of education in following disciplines: 1- Environmental Science 2- Environmental Engineering 3- Any other relevant degree	1- MS Environmental Science
MS Software Engineering	16 years of education in following disciplines: 1- BS Computer Science 2- BS Information Technology 3- BS Software Engineering 4- MCS/MSc Computer Science 5- Any other relevant degree	1- MS Software Engineering
MS Computer Engineering	16 years of education in following disciplines: 1- Computer (Systems) Engineering 2- Software Engineering 3- Electrical Engineering 4- Telecommunication Engineering 5- Electronics Engineering 6- BS Computer Sciences 7- BS Information Technology 8- Any other relevant degree	1- Machine Vision 2- Hardware Design 3- Communications
MS Computer Science MS Data Science *	16 years of education in following disciplines: 1- BS Computer Science 2- BS Information Technology 3- BS Software Engineering 4- MCS/MSc Computer Science	1- General Computer Science Degree
MS Physics	16 years of education in following disciplines: 1- MSc Physics 2- BS Physics 3- Any other relevant degree	1- Master of Science in Physics
MS Chemistry	16 years of education in following disciplines: 1- MSc Chemistry 2- BS Chemistry 3- Any other relevant degree	1- Analytical Chemistry 2- Organic Chemistry 3- Physical Chemistry 4- Applied Chemistry

Programs	Academic Eligibility Requirement	Specializations Offered in MBA/MS Programs
MS Mathematics	16 years of education in following disciplines: 1- MSc Mathematics 2- BS Mathematics 3- Any other relevant degree	1- Pure Mathematics 2- Applied Mathematics
MS Management Sciences	16 years of education in following disciplines: 1- BS (Hons)-Management 2- BPA (Hons) 3- B.Com (Hons) 4- BBS 5- M.Com 6- MA Accounting & Finance 7- MPA 8- MBA 16 Years 9- BBA	1- Supply Chain Management 2- Finance 3- Human Resource Management 4- Management 5- Marketing 6- Project Management
MS Engineering Management	16 years of education in any engineering relevant discipline including the following: 1- B.Sc. Computer Engineering 2- B.Sc. Building & Architectural Engineering 3- B.Sc. Architectural Engineering 4- B.Sc. Petroleum & Gas Engineering 5- B.Sc. Polymer Engineering 6- B.Sc. Geological Engineering 7- B.Sc. Chemical Engineering 8- B.Sc. Electrical Engineering 9- B.Sc. Mining Engineering 10- B.Sc. Metallurgical & Materials Engineering 11- B.Sc. Civil Engineering 12- B.Sc. Environmental Engineering 13- B.Sc. Industrial & Manufacturing Engineering 14- B.Sc. Mechatronics & Control Engineering 15- B.Sc. Mechanical Engineering 16- B.Sc. Transportation Engineering 17- B.Sc. Chemical Engineering 18- B.Sc. Mechatronics Engineering 19- B.Sc. Textile Engineering	1- Engineering Management 2- Quality Management 3- Construction Management 4- Information Management 5- Knowledge Management 6- Telecom Management 7- Manufacturing Management 8- Supply Chain Management 9- Project Management
MBA 2 Years	16 years of education in following disciplines: 1- BBA (Hons) 2- BS (Hons)-Management 3- BPA (Hons) 4- B.Com (Hons) 5- BBS 6- M.Com 7- MBA 16 Years 8- MA Accounting & Finance 9- MPA	1- Supply Chain Management 2- Finance 3- Human Resource Management 4- Management 5- Marketing 6- Project Management
MBA 2.5 Years	16 years of education in any discipline:	1- Supply Chain Management 2- Finance 3- Human Resource Management 4- Management 5- Marketing 6- Project Management
MS Food Technology	16 years of education in following disciplines: 1- BS Food Science & Technology 2- B.Sc. (Hons.) Agriculture with Food Technology as a major subject 3- BS/B.Sc. (Hons.) Dairy Technology 4- BS/B.Sc. (Hons.) Dairy Science & Technology. The candidates possessing following are also eligible for admission in MS Food Technology with deficiency courses. 5- BS/B.Sc. (Hons) Human Nutrition and Dietetics 6- BS/B.Sc. (Hons.) Food Engineering 7- BS/B.Sc. (Hons.) Microbiology 8- BS/B.Sc. (Hons.) Home Economics (Food & Nutrition) 9- DND Doctor of Nutrition and Dietetics. 10- DONS Doctor of Dietetics and Nutritional Science 11-Any other relevant degree	1- MS Food Technology

Programs	Academic Eligibility Requirement	Specializations Offered in MBA/MS Programs
MS Human Nutrition and Dietetics	<p>16 years of education in following disciplines:</p> <ol style="list-style-type: none"> 1- B.Sc. (Hons.) Human Nutrition and Dietetics. 2- B.Sc. (Hons.) Human Nutrition. 3- B.S. (Hons.) Nutrition and Dietetics. 4- B.S. Food Science and Nutrition. 5- B.Sc. (Hons.) Food Science and Human Nutrition. 6- B.S/ B.Sc. (Hons.) Home Economics (Food and Nutrition). 7- B.Sc. (Hons.) Nutrition <p>The candidates possessing following are also eligible for admission in MS Human Nutrition and Dietetics with deficiency courses.</p> <ol style="list-style-type: none"> 8- B.Sc. (Hons.) Food Science and Technology/ Food Technology or 9- B.Sc. (Hons.) Agriculture with Food Technology as major/ 10- B.Sc. (Hons.) Dairy Science and Technology/Dairy Science/ 11- B.Sc. (Hons.) Microbiology/ Doctor of Veterinary Medicines/ Pharm D/MBBS 12- DND Doctor of Nutrition and Dietetics 13- DDNS Doctor of Dietetics and Nutritional Sciences. 14- Any other relevant degree 	1- MS Human Nutrition and Dietetics
MS Food Safety and Quality Management	<p>16 years of education in following disciplines</p> <ol style="list-style-type: none"> 1- B.S/B.Sc. (Hons.) Food Science and Technology/ Food Technology 2- B.Sc. (Hons.) Agriculture with Food Technology as major 3- B.Sc. (Hons.) Home Economics (Food & Nutrition) 4- B.Sc. (Hons.) Human Nutrition & Dietetics 5- B.S. Food Science & Nutrition 6- B.Sc. (Hons.) Dairy Science & Technology 7- B.S. (Hons.) Dairy Technology 8- B.S. (Hons.) Animal Science 9- B.Sc. (Hons.) Microbiology 10- B.Sc. Agricultural Engineering/ Food Engineering/ Doctor of Veterinary Medicines 11- DND Doctor of Nutrition and Dietetics 12- DONS Doctor of Dietetics and Nutritional Science 13- Any other relevant degree 	1- MS Food Safety and Quality Management
MS Healthcare Management	<p>16 years of education in relevant discipline including the following:</p> <ol style="list-style-type: none"> 1- MBBS 2- BDS 3- Pharm-D 4- BS Nursing 5- MHA 6- DPT 7- BS Physiotherapy 8- Any other relevant degree 	1- MS Healthcare Management
MS Civil Engineering	<p>16 years of education in following disciplines:</p> <ol style="list-style-type: none"> 1- BS Civil Engineering 2- BS Architectural Engineering 3- BS Transportation Engineering 4- BS Environmental Engineering 5- BS Water Resource Engineering 5- Any other equivalent degree 	1- Water Resource & Irrigation Engineering.
MS Information Security MS Information Technology MS Telecommunications System	<p>16 years of education in following disciplines:</p> <ol style="list-style-type: none"> 1- BS Information Technology 2- BS Computer Engineering 3- BS Computer Science 4- BS Electrical Engineering 5- BS Telecommunication Engineering 6- BS Electronics (Engineering) 7- BS Physics 8- BS Mathematics 9- BS Software Engineering 10- MCS/MSc Computer Science 11- Any other equivalent degree 	<ol style="list-style-type: none"> 1- MS Information Security 2- MS Information Technology 3- MS Telecommunication System

Programs	Academic Eligibility Requirement	Specializations Offered in MBA/MS Programs
MS Pakistan Studies MS Islamic Studies * MS Urdu	16 years of education in following disciplines: 1- BS/MSc/MA/MSc/BA(Hons) 2- Any other equivalent degree	1- MS Pakistan Studies 2- MS Urdu 3- MS Islamic Studies with Computer Technology
M.Phil English Linguistics	16 years of education in following disciplines: 1- MA English 2- BS English 3- Any other equivalent degree	1- MS English (Linguistics)
MS Water Resource Management	16 years of education in following disciplines: 1- BS Agricultural Engineering 2- BS Civil Engineering 3- BS Environmental Engineering 4- BS Water Management 5- Any other equivalent degree	1- MS Water Resource Management
MS Agricultural Engineering	16 years of education in following disciplines: 1- BS Agriculture Engineering 2- BS Civil Engineering 3- BS Mechanical Engineering 4- BS Environmental Science 5- BS Water Resource 6- BS Energy System 7- BS Food Engineering 8- Any other equivalent degree	1- MS Agricultural Engineering
MS Materials Science *	16 years of education in following disciplines: 1- Materials Science 2- Environmental Science 3- Chemistry 4- Physics 5- Metallurgy Engineering 6- Electrical Engineering 7- Mechanical Engineering 8- Chemical Engineering 9- MSc (16 years) in Chemistry/Physics 10- Relevant physical science and engineering disciplines	1- MS Materials Sciences

DAE Acceptable

Program Acceptable	Academic Qualification
BS Electrical Engineering	DAE Electrical Technology DAE Telecommunication Technology DAE Electronics Technology DAE Avionics Technology DAE Instrumentation Technology DAE Information Technology
BS Mechanical Engineering	DAE Mechanical Technology (with any specialization) DAE Precision Mechanical & Instruments Technology DAE Auto & Diesel Technology DAE Bio-Medical Technology DAE Dies & Mold Technology DAE Automation Technology DAE Refrigeration & Air Conditioning Technology

Programs	Academic Qualification
BS Chemistry	Bio Medical Petroleum Petrochemical Chemical Technology Chemical Processing Technology Food Technology Food Processing & Preservation Critical Health and Technology Diploma in Agriculture Science
BS Biochemistry BS Biotechnology BS Zoology BS Botany BS Forensic Science	Bio Medical Chemical Technology Chemical Processing Technology Food Technology Food Processing & Preservation Critical Health and Technology Diploma in Agriculture Science
BS Material Sciences	DAE Electrical Technology DAE Electronics Technology DAE Mechanical Technology DAE Chemical Technology DAE Bio Mechanical Technology DAE Metallurgy and welding technology DAE Petro-Chemical Technology DAE Petroleum Technology
BS Environmental Science	DAE Leather Technology DAE Chemical Technology DAE Petrochemical Technology DAE Petroleum Technology DAE in Chemical Technology with Specialization in Pharmaceutical
BS Computer Engineering	DAE Computer Information Technology DAE Computer Science DAE Telecommunication Technology DAE Electrical Technology DAE Electronics Technology DAE Software DAE Radar Technology DAE Automation DAE Radio Technology DAE Instrumentation/Instrumentation & Process Control
BS Agricultural Engineering	DAE Agricultural Engineering DAE Civil Engineering DAE Mechanical Engineering DAE Auto Mobil Engineering DAE Farm Machinery Technology
BS Chemical Engineering	DAE Chemical Technology
BS Civil Engineering	DAE Civil Engineering

Programs	Academic Qualification
BS Food Science and Technology	DAE Food Sciences
BS Computer Science BS IT BS Software Engineering	DAE relevant to Computer Sciences
BBA BS Economics BS Public Administration	All DAE candidates are eligible
BS Mathematics	DAE with Mathematics
BS Physics	DAE with Physics and Mathematics
BS English BS Fine Arts BS History BS Heritage Studies (Archeology) BS Islamic Studies (With Computer Technology) BS Media And Communication BS Pakistan Studies BS Physical Education BS Political Sciences BS International Relations BS Urdu B.Ed. (Hons) Elementary (4 - Year) LLB (5 Years)	All DAE candidates are eligible





Eligibility Criteria | Post Graduate / PhD Programs

- a) 3.0/4.0 in semester system or 60% in annual system
 b) NTS GAT Subject Test / HEC Test / International GRE Subject test with a minimum 60% percentile score or departmental admission test with a minimum 70% cumulative score is mandatory

Programs	Academic Qualification
PhD Chemistry	18 years of education in following disciplines: 1- Chemistry 2- Any other relevant degree
PhD Mathematics	18 years of education in following disciplines: 1- Mathematics 2- Any other relevant degree
PhD Physics	18 years of education in following Discipline 1- Physics 2- Any other relevant degree
PhD Mechanical Engineering	18 years of education in following disciplines: 1- Mechanical Engineering 2- Mechatronics Engineering 3- Industrial Engineering 4- Any other relevant degree
PhD Environmental Science *	18 years of education in following disciplines: 1-Environmental Science 2-Chemistry 3-Any other relevant degree
PhD Electrical Engineering	18 years of education in following disciplines: 1- Electrical 2- Electronic 3- Telecommunications 4- Any other relevant degree
PhD Computer Science *	18 years of education in following disciplines: 1- MS Computer Science 2- MS Information Technology 3- MS Software Engineering 4- Any other relevant degree

Reserved Seats

S. No.	Type of Reserved Seat(s)	Description / Eligibility	No. of Reserved Seat(s)
1	Advocates / Lawyers Children	5% Quota for the children of Advocates / Lawyers in Law Degree Programs.	5% in Law Degree Programs
2	Baluchistan	Baluchistan residents The applicant must have domicile of Baluchistan	1 seat in each Program
3	Martyred / War-Disabled / KFUEIT-Deceased	Children of martyrs of Army, Police, War disabled personnel OR The children of employee of KFUEIT, who died during the service at KFUEIT. The certificate of martyrdom or war disability from relevant Govt department (if Applicable) must be provided. Death certificate (if applicable) must be provided. Proof of employment must be provided.	1 seat in each program
4	KFUEIT Employees	Children / spouse(s) / self / siblings i.e. brothers or sisters (excluding step siblings) of the KFUEIT Employees, serving or retired or contract completed or resigned (excluding deputation/part-time employees) are eligible to apply as follows: First preference will be given to Employees (Regular / Contract awarded after Selection Process) having continuous or intermittent minimum service of 5 years. Second Preference will be given to Employees (Regular / Contract awarded after Selection Process / Ad-hoc) having continuous minimum service of 3 years.	4% Seat(s) in each program



How to Apply for Admissions

A candidate seeking admission in any academic program shall apply online as per prescribed procedure:

- Candidates shall register himself / herself on the university website <https://eportal.kfueit.edu.pk/> by filling the registration form <https://eportal.kfueit.edu.pk/>
- After completing registration, he/she will be able to fill Admission Application Form by using his/her login credentials. While submitting the admission form, the applicants are advised to be careful and provide the correct information.
- After submitting of application, system will generate a challan form, to be printed by the candidate.
- The applicant shall deposit prescribed admission processing fee on auto generated challan in any nearest HBL branch and then upload a copy of paid challan on <https://eportal.kfueit.edu.pk/>.
- The candidate will be able to check the status of his/her application online by logging in.
- Merit lists will be displayed on website. If the candidate's name appears in merit list, with-in due date he/she has to submit all original documents to the admission office and follow the instructions given by the admission office.

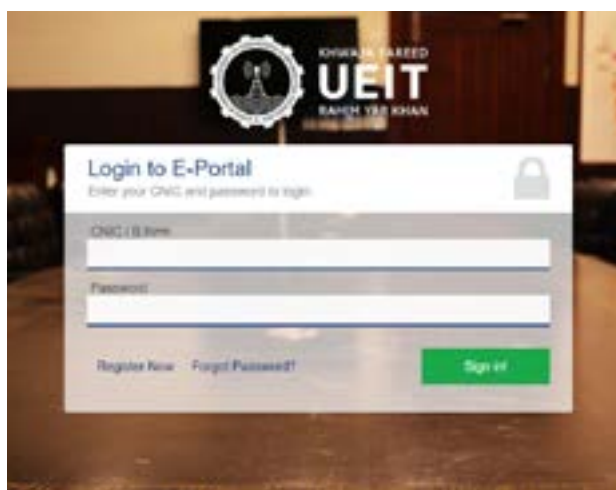
Steps to Apply for Admissions

1. First step goes to login E-Portal

- Click on Register Now
- Registered your self

2. Create new account

- Fill all the fields
- Click on Register Now



3. Welcome to KFUEIT E-portal

- Click on the KTS apply for test if required
- Click on the admissions if you are interested for apply admission
- Click on KFUEIT if you want to visit the main menu of website



4. Personal Information

- Fill all the fields with your best knowledge
- Click Next to go on the next page or window

5. Guardian's Information

- Fill all the fields with your best knowledge
- Click Next to go on the next page or window

6. Additional Information

- Fill all the fields with your best knowledge
- Click Next to go on the next page or window

7. Academic Information

- Click on add qualification
- Enter your all degree's marks one by one
- Click on Entry Test tab
- Enter your Entry test marks

8. Choose Program

- Click on select category
- Click on Bachelors (16 Years) for BS students
- Click on Masters (16 Years) for MSc students
- Click on MS/M.Phil. (18 Years) for MS students
- Click on PhD for PhD students/applicants
- After your program selection click on next

Steps to Apply for KFUEIT Entry Test

Step 1

- Visit / Open link
<https://eportal.kfueit.edu.pk>



Step 2

- If you are a new user, click on "Register Now" button and register yourself.
- If you are existing user, just put your CNIC / B-Form number and password to get login



Step 3

- Fill all the fields.
- Click on "Register Now" button to proceed further the registration process.



Step 4

- Click on the KTS link to apply for Entry Test.



Step 5

- After clicking the KTS link, following window will be get displayed.
- Click on "Update Profile" link on left side of the page to update your profile.



Step 6

- Fill and verify all Text boxes carefully.
- Upload your recent photograph (Maximum size of 1MB).
- Upload your CNIC (front side) or B-Form picture (Maximum size of 1MB)
- Click on the "Update Profile" button.

Step 7

- After updating profile, Click at "Home" top left corner of the page.
- Click on "Apply Now" showing parallel to your desired test.

Test	Description of Test	Test Date	Last Date	Action
1000	1000 Test (1000 questions) - 1000 marks	10/10/2018	10/10/2018	Apply Now
1000	1000 Test (1000 questions) - 1000 marks	10/10/2018	10/10/2018	Apply Now
1000	1000 Test (1000 questions) - 1000 marks	10/10/2018	10/10/2018	Apply Now

Step 8

- Click on "My Tests" appeared after clicking on "Apply Now".

Test	Description of Test	Test Date	Last Date	Status	Action
1000	1000 Test (1000 questions) - 1000 marks	10/10/2018	10/10/2018	Applied	Download Voucher
1000	1000 Test (1000 questions) - 1000 marks	10/10/2018	10/10/2018	Applied	Download Voucher
1000	1000 Test (1000 questions) - 1000 marks	10/10/2018	10/10/2018	Applied	Download Voucher

Step 9

- Download your test fee voucher from the "Download Voucher" button.
- Upload your scanned clear picture of paid voucher using "Upload Voucher" action.

Test	Description of Test	Test Date	Last Date	Status	Action
1000	1000 Test (1000 questions) - 1000 marks	10/10/2018	10/10/2018	Applied	Download Voucher
1000	1000 Test (1000 questions) - 1000 marks	10/10/2018	10/10/2018	Applied	Download Voucher
1000	1000 Test (1000 questions) - 1000 marks	10/10/2018	10/10/2018	Applied	Download Voucher

Fee Voucher Sample

- Fee voucher will be like this.

Step 10

- After uploading the paid voucher, go to the "My Tests" menu as shown below, to check status of your application.
- Your application status will appear like given below. It shows that you have successfully

Test	Description of Test	Test Date	Last Date	Status	Action
1000	1000 Test (1000 questions) - 1000 marks	10/10/2018	10/10/2018	Applied	Download Voucher
1000	1000 Test (1000 questions) - 1000 marks	10/10/2018	10/10/2018	Applied	Download Voucher
1000	1000 Test (1000 questions) - 1000 marks	10/10/2018	10/10/2018	Applied	Download Voucher

SPECIAL INSTRUCTIONS:

- Upload recent photograph and CNIC image.
- Upload paid voucher for verification (readable) after payment (mentioned on the voucher) in the concerned bank within due date; otherwise you may not be notified for test schedule or not be able to appear in the test.
- Remember your password to get back this portal for your result.
- Remember that you must have to upload the paid voucher on the portal; otherwise you may not be able to sit in the test.
- Any kind of electronic or calculating device is not allowed in the test center.
- For further queries, feel free to contact Testing Services Department during office hours or call at +92-68-5882472, +92-303-0300666, or email us at kts@kfueit.edu.pk



Merit Determination Criteria

Undergraduate Programs

Merit Score = (0.7 X Last Earned Degree including Hafiz-e-Quran marks) + (0.3 X Percentage Aptitude Test Score)

Graduate Programs

Merit Score = (0.4 X Percentage Academic Record) + (0.3 X Percentage KFGAT / NAT-GAT Score) + (0.3 X Percentage Interview / Statement of Purpose Marks)

The weightage of academic record is further distributed as:

SSC	HSSC	Undergraduate (04 Years)	Total
5%	5%	Y1=5%, Y2=5%, Y3=10%, Y4=10%	40%

Post Graduate Programs

Merit Score = (0.4 X Percentage Academic Record) + (0.3 X Percentage KFGAT / NAT-GAT Score) + (0.3 X Percentage Interview / Statement of Purpose Marks)

The weightage of academic record is further distributed as:

SSC	HSSC	BS	MS/M.Phil
5%	5%	Y1=2%, Y2=2%, Y3=3%, Y4=3% (10%)	20%

For each degree the final Percentage or CGPA will only be counted. For example, If a student has passed two years BSc with 60% marks and two years MSc with also 60% marks, then contribution against undergraduate will be equal to

$$(04\% * 60/100) + (06\% * 60/100) = 6\%$$

Entry Test

Internal Entry Tests of KFUEIT

KFAT	Entry Test for Undergraduate Programs
KFEAT	Entry Test for Engineering Programs
KFGAT	Entry Test for Graduate Programs

Valid Entry Tests (Other than Internal Tests)

For Undergraduate Programs	NAT, MCAT, HAT, ECAT, LAT
For Graduate Programs	NTS, GAT, HEC Test

Fee Structure

General Dues for BS Programmes, BBA, B.Ed. (4 Years) & L.L.B.

S. No	Fee Type	Amount (Rs.)	Remarks
1	Admission Fee	10,000	Once only at the time of Admission (Non-Refundable)
2	Security Deposit	5,000	Once only at the time of Admission (Refundable)
3	Tuition Fee	35,000	Per Semester
4	Semester Charges	3,500	Per Semester
5	Internet Charges	1,500	Per Semester
6	Transport Charges	5,000	Per Semester
Total		60,000	

General Dues for M.Sc Programmes, B.Ed (2.5 Years) & MBA Executive

S. No	Fee Type	Amount (Rs.)	Remarks
1	Admission Fee	10,000	Once only at the time of Admission (Non-Refundable)
2	Security Deposit	5,000	Once only at the time of Admission (Refundable)
3	Tuition Fee	40,000	Per Semester
4	Semester Charges	6,000	Per Semester
5	Internet Charges	1,500	Per Semester
6	Transport Charges	5,000	Per Semester
Total		67,500	

General Dues for MS, B.Ed. (1.5 Years) & MBA (2, 2.5years)

S. No	Fee Type	Amount (Rs.)	Remarks
1	Admission Fee	15,000	Once only at the time of Admission (Non-Refundable)
2	Security Deposit	10,000	Once only at the time of Admission (Refundable)
3	Tuition Fee	50,000	Per Semester
4	Semester Charges	8,500	Per Semester
5	Internet Charges	1,500	Per Semester
6	Research Facility Expenditure	5,000	Per Semester
7	Transport Charges	5,000	Per Semester
Total		95,000	

General Dues for PHD Programmes

S. No	Fee Type	Amount (Rs.)	Remarks
1	Admission Fee	20,000	Once only at the time of Admission (Non-Refundable)
2	Security Deposit	10,000	Once only at the time of Admission (Refundable)
3	Tuition Fee	50,000	Per Semester
4	Semester Charges	13,500	Per Semester
5	Internet Charges	1,500	Per Semester
6	Research Facility Expenditure	5,000	Per Semester
7	Transport Charges	5,000	Per Semester
Total		105,000	

Hostel Fees

S. No	Fee Type	Amount (Rs.)	Remarks
1	Hostel Fee	15,000	Per Semester (Non- Refundable)
2	Hostel Security Deposit	6,000	Once only at the time of Admission (Refundable)
3	Processing Fee	750	Once only at the time of Admission (Non-Refundable)
Total		21,750	

Other Fees / Charges

S. No	Fee Type	Amount (Rs.)	Remarks
1	Absconding Charges	15,000	Per semester at the time of freeze (Non-Refundable)
2	Freeze Semester BS & MSc, B.Ed(2.5) & MBA (Executive)	10,000	Per semester at the time of freeze (Non-Refundable)
3	Freeze Semester MS, MBA (2, 2.5 Years) & B.Ed. (1.5 Year)	10,000	Per semester at the time of freeze (Non-Refundable)
4	Freeze Semester PHD Programmes	10,000	Per semester at the time of freeze (Non-Refundable)
5	Late Fee Payment Fine	50	Per Day (Non-Refundable)
6	Subject Improvement/Repeat-BS, BBA, B.Ed.(4 years) & LLB(5years)	1,500	Per Credit Hour
7	Subject Improvement/Repeat-MSc, B.Ed(2.5) & MBA(Executive)	2,000	Per Credit Hour
8	Subject Improvement/Repeat-MS, MBA (2, 2.5 Years) & B.Ed. (1.5 Year)	2,500	Per Credit Hour
9	Subject Improvement/Repeat-PHD Programmes	3,000	Per Credit Hour
10	Summer Session-BS, BBA, B.Ed.(4 years) & LLB(5years)	" Double of Course improvement fee "	Per Credit Hour
11	Summer Session-MSc, B.Ed(2.5) & MBA(Executive)		Per Credit Hour
12	Summer Session-MS, MBA (2, 2.5 Years) & B.Ed. (1.5 Year)		Per Credit Hour
13	Summer Session-PHD Programmes		Per Credit Hour
14	Migration / Assesment Fee (Other university to KFUEIT)	25,000	At the time of Migration (Non-Refundable)
15	NOC Charges for Migration (KFUEIT to other university)	5,000	At the time of Migration (Non-Refundable)
16	Make Up Exam Fee (Mid Term)	3,000	Per Paper (Non-Refundable)
17	Make Up Exam Fee (Final Exam)	3,000	Per Paper (Non-Refundable)
18	Re-Checking Fee (Mid Exam)	500	Per Paper (Non-Refundable)
19	Re-Checking Fee (Final Exam)	500	Per Paper (Non-Refundable)
20	Late Course Registration Fee	1,500	Per Paper (Non-Refundable)
21	Final Transcript Fee	1,000	Per Transcript (Non-Refundable)
22	ID Card / Duplicate Transcript Fee (First Time)	200	Per Application for ID Card / Transcript (Non-Refundable)
23	ID Card / Duplicate Transcript Fee (Second Time and Onwards)	500	Per Application for ID Card / Transcript (Non-Refundable)
24	Admission Processing Fee - Under Graduates & Graduates	750	At the time of application for admission (Non-Refundable)
25	Admission Processing Fee - Post Graduates	1,500	Pre-Admission Test Fee (Non-Refundable)
26	KTS - KFAT Fee	1,000	
27	KTS - KFEAT Fee	1,000	
28	KTS - KFGAT Fee	1,500	

Employees Testing Fee

S. No	BPS	Amount (Rs.)	Remarks
1	BPS-1-4	500	
2	BPS-5-9	1,000	
3	BPS-10-16	1,500	
4	BPS-17	2,000	
5	BPS-18	2,500	
6	BPS-19 & Above	3,000	

Fee Structure For Foreign Students

General Dues for BS Programmes, BBA, B.Ed. (4 Years) & L.L.B.

S. No	Fee Type	Amount (USD)	Remarks
1	Admission Fee	250	Once only at the time of Admission (Non-Refundable)
2	Security Deposit	125	Once only at the time of Admission (Refundable)
3	Tuition Fee	875	Per Semester
4	Semester Charges	90	Per Semester
5	Internet Charges	35	Per Semester
6	Transport Charges	125	Per Semester
Total		1,500	

General Dues for M.Sc Programmes, B.Ed (2.5 Years) & MBA Executive

S. No	Fee Type	Amount (USD)	Remarks
1	Admission Fee	250.00	Once only at the time of Admission (Non-Refundable)
2	Security Deposit	140.00	Once only at the time of Admission (Refundable)
3	Tuition Fee	1,000.00	Per Semester
4	Semester Charges	150.00	Per Semester
5	Internet Charges	35.00	Per Semester
6	Transport Charges	125.00	Per Semester
Total		1,700	

General Dues for MS, B.Ed. (1.5 Years) & MBA (2, 2.5years)

S. No	Fee Type	Amount (USD)	Remarks
1	Admission Fee	275.00	Once only at the time of Admission (Non-Refundable)
2	Security Deposit	210.00	Once only at the time of Admission (Refundable)
3	Tuition Fee	1,050.00	Per Semester
4	Semester Charges	180.00	Per Semester
5	Internet Charges	35.00	Per Semester
6	Research Facility Expenditure	125.00	Per Semester
7	Transport Charges	125.00	Per Semester
Total		2,000	

General Dues for PHD Programmes

S. No	Fee Type	Amount (USD)	Remarks
1	Admission Fee	634	Once only at the time of Admission (Non-Refundable)
2	Security Deposit	210	Once only at the time of Admission (Refundable)
3	Tuition Fee	1,050	Per Semester
4	Semester Charges	321	Per Semester
5	Internet Charges	35	Per Semester
6	Research Facility Expenditure	125	Per Semester
7	Transport Charges	125	Per Semester
Total		2,500	

Hostel Fees

S. No	Fee Type	Amount (USD)	Remarks
1	Hostel Fee	315	Per Semester (Non- Refundable)
2	Hostel Security Deposit	120	Once only at the time of Admission (Refundable)
3	Processing Fee	65	Once only at the time of Admission (Non-Refundable)
Total		500	

Other Fees / Charges

S. No	Fee Type	Amount (USD)	Remarks
1	Absconding Charges	315	Per semester at the time of freeze (Non-Refundable)
2	Freeze Semester BS & MSc, B.Ed.(2.5) & MBA (Executive)	210	Per semester at the time of freeze (Non-Refundable)
3	Freeze Semester MS, MBA (2, 2.5 Years) & B.Ed. (1.5 Year)	210	Per semester at the time of freeze (Non-Refundable)
4	Freeze Semester PHD Programmes	210	Per semester at the time of freeze (Non-Refundable)
5	Late Fee Payment Fine	1	Per Day (Non-Refundable)
6	Subject Improvement/Repeat-BS, BBA, B.Ed.(4 years) & LLB(5years)	32	Per Credit Hour
7	Subject Improvement/Repeat-MSc, B.Ed.(2.5) & MBA(Executive)	42	Per Credit Hour
8	Subject Improvement/Repeat-MS, MBA (2, 2.5 Years) & B.Ed. (1.5 Year)	53	Per Credit Hour
9	Subject Improvement/Repeat-PHD Programmes	63	Per Credit Hour
10	Summer Session-BS, BBA, B.Ed.(4 years) & LLB(5years)	" Double of Subject Improvement Fee "	Per Credit Hour
11	Summer Session-MSc, B.Ed.(2.5) & MBA(Executive)		Per Credit Hour
12	Summer Session-MS, MBA (2, 2.5 Years) & B.Ed. (1.5 Year)		Per Credit Hour
13	Summer Session-PHD Programmes		Per Credit Hour
14	Migration / Assesment Fee (Other university to KFUEIT)	525	At the time of Migration (Non-Refundable)
15	NOC Charges for Migration (KFUEIT to other university)	105	At the time of Migration (Non-Refundable)
16	Make Up Exam Fee (Mid Term)	63	Per Paper (Non-Refundable)
17	Make Up Exam Fee (Final Exam)	63	Per Paper (Non-Refundable)
18	Re-Checking Fee (Mid Exam)	11	Per Paper (Non-Refundable)
19	Re-Checking Fee (Final Exam)	11	Per Paper (Non-Refundable)
20	Late Course Registration Fee	32	Per Paper (Non-Refundable)
21	Final Transcript Fee	21	Per Transcript (Non-Refundable)
22	ID Card / Duplicate Transcript Fee (First Time)	4	Per Application for ID Card / Transcript (Non-Refundable)
23	ID Card / Duplicate Transcript Fee (Second Time and Onwards)	11	Per Application for ID Card / Transcript (Non-Refundable)
24	ID Card / Duplicate Transcript Fee (Second Time and Onwards)	15	Per Application for ID Card / Transcript (Non-Refundable)
25	Admission Processing Fee - Under Graduates & Graduates	30	At the time of application for admission (Non-Refundable)
26	Admission Processing Fee - Post Graduates	20	Pre-Admission Test Fee (Non-Refundable)
27	KTS - KFAT Fee	20	Pre-Admission Test Fee (Non-Refundable)
28	KTS - KFEAT Fee	30	Pre-Admission Test Fee (Non-Refundable)

Candidates Testing Fee

S. No	BPS	Amount (USD)	Remarks
1	BPS-1-4	10	
2	BPS-5-9	20	
3	BPS-10-16	30	
4	BPS-17	45	
5	BPS-18	55	
6	BPS-19 & Above	65	



**Rules &
Regulations**

Section

6

Rules & Regulations

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ADMISSION REGULATIONS 2019

1. SHORT TITLE

These regulations shall be called as the Khwaja Fareed University of Engineering & Information Technology (KFUEIT), Rahim Yar Khan Admission Regulations 2019.

2. COMMENCEMENT

These regulations shall come into force at once upon/after approval of the Syndicate.

3. APPLICATION

These regulations govern the admission to all degree programs at the Khwaja Fareed University of Engineering & Information Technology (KFUEIT), Rahim Yar Khan.

4. ADMISSIONS COMMITTEE

Vice Chancellor shall constitute an Admissions Committee for Undergraduate Programs to oversee the undergraduate admission process. Graduate Programs Committee, which is constituted by the Vice Chancellor, shall oversee the graduate admission process in addition to other responsibilities. These committees will ensure that admission to the University is conducted in a transparent manner and that Admission Rules and Regulations are faithfully observed.

5. ADMISSION NOTICE

The University shall conduct admission to its degree programs after publishing Admission Notice in the National press, informing potential candidates about the degree programs for which admissions are open. Other advertisement and publicity channels will also be utilized. The relevant guidance and instructions will be provided to the potential candidates.

6. ADMISSION PROCEDURE

To the extent possible, the University shall facilitate the admission procedure and application procedure by adopting information and communication technologies.

A candidate seeking admission in any degree program shall apply online as per the following procedure:

- i. Candidate process shall register himself/herself through the University website www.eportal.kfueit.edu.pk, on online admission portal by filling the online registration form.
- ii. After completing registration, candidate will be able to fill the online Admission Application Form and upload the required documents.
- iii. After submitting the application, the system will generate a challan form, to be printed by the candidate.
- iv. The applicant shall deposit the prescribed admission processing fee on auto-generated challan in the bank and upload it to the admission portal.
- v. The candidate will be able to check the status of his/her application online.
- vi. If the candidate's name appears in a merit list, then within due date he/she has to submit all required documents including deposited fee challan to the admission office and follow any other instructions provided by the admission office.

7. GENERAL RULES

- (a) All selected candidates will be granted provisional admission.
- (b) In case of revelation or discovery at any stage before or after graduation, of forged, fake, and/or tempered degree, certificate, documents, or any incorrect information provided by the candidate, he/she shall stand expelled from university, his/her graduate status shall stand null and void, or any decision made by university authorities. Furthermore, candidate shall be liable to legal action leading to imprisonment as provided in the law and he/she shall also stand disqualified to seek admission in any university of Pakistan, as may deem suitable by the university authorities.

- (c) In case of expulsion, removed from the university rolls and/or graduate status declared null and void, a student shall not claim any compensation and/or damages including but not limited to fees and dues.
- (d) The university reserves the right to rectify/correct any error, omission or clerical/typographical mistake at any stage. In case, a candidate/student becomes ineligible or falls out of the merit due to aforementioned correction(s) by the university, he/she shall be removed from the rolls of the University at any time or any decision made by KFUEIT authorities.
- (e) Conditional admission(s) may be granted in any discipline/degree program with the approval of Vice Chancellor.
- (f) The university reserves the right to start or discontinue any program / discipline. In case of discontinuation of a program, such candidates may be offered to apply for admission in other discipline/program where vacant seat(s) are available, if the candidate fulfill the admission eligibility criteria for the desired program/discipline.
- (g) The University may open second phase of Admission as it may deem fit, with the approval of Competent Authority.

8. EQUIVALENT EXAMINATIONS

The University recognizes the following examinations as equivalent to the Intermediate (Pre-Engineering) examination with Mathematics, Physics, and Chemistry of the Pakistani Boards of Intermediate and Secondary Education:

- (a) Intermediate (Pre-Engineering) Examination of the Board of Intermediate & Secondary Education, Azad Kashmir.
- (b) Cambridge Overseas Higher School Certificate with Physics, Chemistry, and Mathematics.
- (c) British General Certificate of Education (Advanced Level) with Physics, Chemistry, and Mathematics.
- (d) Intermediate (Pre-Medical) in Mathematics as an additional course.
- (e) American High School Graduation Diploma (12th Grade) or equivalent.

Such applicants are required to attach an equivalence certificate showing marks with the application for admission issued by the Inter Board Committee of Chairmen (IBCC).

9. ELIGIBILITY CRITERIA AND MERIT DETERMINATION FOR ADMISSION

A candidate must fulfill the eligibility criteria to get admission in any discipline/degree program at KFUEIT. The eligibility criteria and merit determination for all disciplines/degree programs are provided in Annex-A, which may be revised from time to time with the approval of concerned authorities.

10. SEATS FOR DIPLOMA HOLDERS

- (a) For admission in Engineering Programs against seats reserved for the holders of Diploma of Associate Engineer (DAE), the candidate should have passed diploma examination of a Board of Technical Education in the relevant technology. Number of reserved seats / quotas against each discipline/program is mentioned in Annex-A, which may be revised from time to time with the approval of concerned authorities.
- (b) Applicants seeking admission against reserved seats for the holders of Diploma of Associate Engineer shall not be eligible unless their diplomas are in the relevant technology as specified against each degree course mentioned in Annex-B, which may be revised from time to time with the approval of concerned Authorities.

11. AGE LIMIT

There is no age restriction for seeking admission to any degree program at the University, unless otherwise specified in the eligibility criteria.

12. APPLICANT'S GENDER

All applicants regardless of gender are eligible to apply for all seats.

13. CREDIT FOR HAFIZ-E-QURAN

Up to 20 marks will be added to the academic marks in H.S.S.C/BSc or equivalent examination of an applicant who is Hafiz-e-Quran. He will get the benefit only if he/she has:

- (a) Filled in the necessary check box (option) provided in the application form;

- (b) Appeared before the Hafiz-e-Quran Committee for oral test carrying zero to twenty marks and the Committee has awarded marks according to the degree of his proficiency.

14. TIE-BREAKER IN CASE OF EQUAL MERIT PERCENTAGE/SCORE

If two or more candidates have equal merit percentage/score up to three places of decimal, then tie breaker in the following order will be considered

- (a) The candidate with higher percentage of marks in the latest degree/certificate on the basis of which the candidate applied for admission (e.g. Intermediate, if the candidate applied for a BS program).
- (b) The candidate with higher percentage of marks in the degree/certificate immediately before as merit in part-I, so 1st total being decided on marks check the latest degree/certificate on the basis of which the candidate applied for admission (e.g. Matriculation, if the candidate applied for a BS program).
- (c) A coin flip or lucky draw among the candidates, as seems appropriate, in the presence of candidates.

15. TRANSFER OF DEGREE PROGRAM/DISCIPLINE

In case an applicant who has already secured admission in any program and appears in another merit list, he/she will submit a written application to Admission Office within due time and his/her admission and semester fee will be transferred to the desired discipline/program. Mutual transfer can be allowed on submission of written application within 15 days after commencement of classes, if both applicants have higher merit score than the closing merit of respective degree programs after fulfilling the eligibility criteria.

16. VARIATION IN SEATS

The University authorities may exercise their right at any time to increase or decrease the number of seat(s) allocated to any program and there shall be no appeal against such a decision.

17. RESERVED SEATS

Since the University has been established for the uplift of the higher education of the region, it may enforce a system whereby at least 60% of the student intake is from the region of Rahim Yar Khan and adjoining districts. Furthermore, the University under Government policy directives may also admit students against open merit seats. The list of reserved seats is attached at Annex-C. The reserved seats may be created / revised from time to time with approval of competent authority. In case reserved seat(s) remain vacant, these seat(s) will be transferred to open merit. The fraction will be rounded upward to the whole number.

18. INTERPRETATION

If any question arises regarding the interpretation of these regulations, the matter shall be deliberated by the academic administration consisting of Head of Admission Department, Convener Admissions Committee, Registrar, Dean, and Vice Chancellor, and their decision thereon shall be final.

19. REMOVAL OF DIFFICULTIES

If any difficulty arises in giving effect to any of the provisions of these Regulations, the Vice Chancellor in individual cases may make such decision, not inconsistent with the spirit of these Regulations, as may appear to necessary for the purpose of removing the difficulty, provided that such a decision is not ultra vires of the Khwaja Fareed University of Engineering and Information Technology, Rahim Yar Khan Act 2014.



ANNEX-A

Eligibility Criteria Undergraduate (BS Program) Fall 2019

- a) Candidate should meet standards of physique and eye sight laid down in the medical Certificate.
 b) Merit Score = (0.7x Percentage HSSC* including Hafiz-e-Quran marks) + (0.3x Percentage Aptitude Test Score).

* Result awaiting candidate(s) may apply on the basis of Part-I result. Result of Part-I will be considered for merit calculation in place of HSSC complete result, provided that the candidate(s) fulfill the minimum eligibility criteria.

Faculty of Engineering

Programs	Academic Qualification
BS Agriculture Engineering BS Civil Engineering BS Chemical Engineering BS Electrical Engineering BS Environmental Engineering* BS Mechanical Engineering	a) Higher Secondary School Certificate (HSSC) with Pre-Engineering / Pre-Medical with additional Mathematics or equivalent with 60% marks. b) KFUEIT recognized aptitude test (KFEAT / HAT / ECAT) c) DAE in relevant field (2% quota)
BS Computer Engineering	a) Higher Secondary School Certificate (HSSC) with Pre-Engineering / Pre-Medical with additional Mathematics / ICS including Mathematics, Physics and Computer or equivalent with 60% marks. b) KFUEIT recognized aptitude test (KFEAT / HAT / ECAT) c) DAE in relevant field (2% quota)
BS Software Engineering	a) Higher Secondary School Certificate (HSSC) with Pre-Engineering / Pre-Medical with additional Mathematics / "Computer Science group" including Math, Physics and Computer Studies as mandatory subjects or equivalent with 50% marks. b) KFUEIT recognized aptitude test (KFAT / KFEAT / ECAT / NAT / HAT) with minimum score of 40% c) DAE in relevant field
BS Electronics	a) Higher Secondary School Certificate (HSSC) with Pre-Engineering / Pre-Medical with additional Mathematics / ICS including Mathematics, Physics and Computer / Diploma of Associate Engineering (DAE) in Electrical / Electronics or equivalent with 2nd Division. b) KFUEIT recognized aptitude test (KFAT / KFEAT / ECAT / NAT / HAT) with minimum score of 40%
BS Electrical Technology	a) Higher Secondary School Certificate (HSSC) with Pre-Engineering / Pre-Medical with additional Mathematics / ICS including Mathematics, Physics and Computer / Diploma of Associate Engineering (DAE) in Electrical / Electronics or equivalent with 50% marks. b) KFUEIT recognized aptitude test (KFAT / KFEAT / ECAT / NAT / HAT) with minimum score of 40%
BS Environmental Science	a) Higher Secondary School Certificate (HSSC) with Pre-Engineering / Pre-Medical or equivalent with 50% marks. b) KFUEIT recognized aptitude test (KFAT / KFEAT / MCAT / HAT / ECAT / NAT) with minimum score of 40% c) DAE in relevant field.
BS Material Sciences	a) Higher Secondary School Certificate (HSSC) with Pre-Engineering / Pre-Medical with additional Mathematics / ICS with Mathematics, with 50% marks / Diploma of Associate Engineer (DAE) in relevant technologies with 60% marks. b) KFUEIT recognized aptitude test (KFAT / KFEAT / ECAT / NAT / HAT) with minimum score of 40% c) DAE in relevant field

Faculty of Computer Science & Information Technology

Programs	Academic Qualification
BS Computer Science	a) Higher Secondary School Certificate (HSSC) with Pre-Engineering / Pre-Medical with additional Mathematics / "Computer Science group" including Math, Physics and Computer Studies as mandatory subjects or equivalent with 50% marks. At least 60% marks in Intermediate (HSSC) level Mathematics. b) KFUEIT recognized aptitude test (KFAT / KFEAT / HAT/ ECAT / NAT) with minimum score of 40% c) DAE in relevant field
BS Information Technology BS Telecommunication System	a) Higher Secondary School Certificate (HSSC) with Pre-Engineering / Pre-Medical with additional Mathematics / "Computer Science group" including Math, Physics and Computer Studies as mandatory subjects or equivalent with 50% marks. At least 60% marks in Intermediate (HSSC) level Mathematics. b) KFUEIT recognized aptitude test (KFAT / KFEAT / ECAT / NAT / HAT) with minimum score of 40% c) DAE in relevant field
BS Bioinformatics	a) Higher Secondary School Certificate (HSSC) with Pre Medical or equivalent with 50% marks. b) KFUEIT recognized aptitude test (KFAT / KFEAT/ NAT / MCAT / HAT) with minimum score of 40% c) DAE in relevant field

Faculty of Natural Sciences

Programs	Academic Qualification
BS Food Science and Technology	a) Higher Secondary School Certificate (HSSC) with Pre-Engineering / Pre-Medical or equivalent with 60% marks. b) KFUEIT recognized aptitude test (KFAT / KFEAT / MCAT/ ECAT / NAT / HAT) with minimum score of 40% c) DAE in Food Science & Technology
BS Human Nutrition and Dietetics	a) Higher Secondary School Certificate (HSSC) with Pre-Medical or equivalent with 50% marks. b) KFUEIT recognized aptitude test (KFAT / NAT / MCAT) with minimum score of 40%
BS Mathematics	a) Higher Secondary School Certificate (HSSC) with Pre-Engineering or equivalent with Mathematics with 50% marks. b) KFUEIT recognized aptitude test (KFAT / KFEAT / ECAT / NAT/ HAT) with minimum score of 40% c) DAE at least 60% marks with Mathematics.
BS Physics	a) Higher Secondary School Certificate (HSSC) with Physics or equivalent with 50% marks. b) KFUEIT recognized aptitude test (KFAT / KFEAT / MCAT / ECAT / NAT / HAT) with minimum score of 40% c) DAE in relevant field securing at least 60% marks.
BS Forensic Science	a) Higher Secondary School Certificate (HSSC) with Pre-Engineering / Pre-Medical or equivalent with 50% marks. b) KFUEIT recognized aptitude test (KFAT / KFEAT / MCAT/ ECAT / NAT/ HAT) with minimum score of 40% c) DAE in relevant field
BS Chemistry BS Biochemistry BS Botany BS Biotechnology BS Zoology	a) Higher Secondary School Certificate (HSSC) with Chemistry or equivalent with 50% marks. b) KFUEIT recognized aptitude test (KFAT / KFEAT / MCAT / ECAT / NAT/ HAT) with minimum score of 40% c) DAE in relevant field.

BS Clinical Psychology BS Cosmetology and Dermatological Sciences BS Medical Laboratory Technology* BS Optometry*	a) Higher Secondary School Certificate (HSSC) with Pre-Medical or equivalent with Chemistry and Biology with 50% marks. b) KFUEIT recognized aptitude test (KFAT / NAT / MCAT) with minimum score of 40% c) DAE in relevant field.
BS Radiology*	a) Higher Secondary School Certificate (HSSC) with Pre-Medical or equivalent with 60% marks. b) KFUEIT recognized aptitude test (KFAT / NAT / MCAT) with minimum score of 40%
BS Agriculture	a) Higher Secondary School Certificate (HSSC) with Pre-Engineering / Pre-Medical / Diploma in Agricultural Sciences or equivalent with 50% marks. b) KFUEIT recognized aptitude test (KFAT / NAT / MCAT/ ECAT / KFEAT / HAT) with minimum score of 40% c) Diploma in Agriculture Sciences

Faculty of Management Sciences & Humanities

Programs	Academic Qualification
BBA BS (Economics) BS (Public Administration)	a) Higher Secondary School Certificate (HSSC) or equivalent with 45% marks. b) KFUEIT recognized aptitude test (KFAT / NAT / HAT / KFEAT) with minimum score of 40% c) DAE in any field of study
BS English BS Fine Arts BS History BS Heritage Studies (Archeology) BS Islamic Studies (With Computer Technology) BS Media And Communication BS Pakistan Studies BS Physical Education BS Political Sciences BS International Relations BS Urdu	a) Higher Secondary School Certificate (HSSC) or equivalent with 45% marks. b) KFUEIT recognized aptitude test (KFAT / KFEAT). c) PET (Physical Efficiency Test) only for BS Physical Education. d) 45% Marks in English only for BS English. e) DAE in relevant field
LLB (5 Years)	a) Higher Secondary School Certificate (HSSC) or equivalent with 45% marks. b) i. KFUEIT recognized aptitude test (KFAT) ii. LAT conducted by (HEC) c) KFUEIT recognized aptitude test (KFAT / KFEAT). d) 05% Quota for the sons / daughters of Advocates e) Maximum age limit to get admission in LLB is 23(years). f) Only LAT qualifiers will be allowed to get admission, except the genuine cases like students from FATA.
B.Ed. (Hons) Elementary (4 - Year) Program)	a) Higher Secondary School Certificate (HSSC) or equivalent with 45% marks. b) KFUEIT recognized aptitude test (KFAT / KFEAT). c) DAE in relevant field
B.Ed. (Hons) Elementary (2.5 - Year) Program	a) 14 years of education or equivalent with 45% marks. b) KFUEIT recognized aptitude test (KFAT / KFEAT).
B.Ed. (Hons) Elementary (1.5 - Year) Program	a) 16 Years of education or equivalent with CGPA 2.50/4.00 in semester system or 45% marks in annual system. b) KFUEIT recognized aptitude test (KFAT / KFEAT). c) Interview for admission is not mandatory d) Bachelors Pre Req for B.Ed 2.5Years

Eligibility Criteria Undergraduate (MSc and MBA Executive Program)

a) Candidate should meet standards of physique and eye sight laid down in the medical Certificate.

b) Merit Score = (0.7x Percentage Terminal Degree* including Hafiz-e-Quran marks) + (0.3x Percentage Aptitude Test Score).

* Result awaiting candidate(s) may apply on the basis of Part I result. Result of Part I will be considered for merit calculation in place of Terminal Degree complete result, provided that the candidate(s) fulfill the minimum eligibility criteria.

Programs	Academic Qualification
MSc Physics	a) 14 years of education with Mathematics & Physics or equivalent with 45% marks. b) KFUEIT recognized aptitude test (KFAT / NAT / HAT) with minimum score of 40%
MSc Chemistry	a) 14 years of education with Chemistry or equivalent with 45% marks. b) KFUEIT recognized aptitude test (KFAT / NAT / HAT) with minimum score of 40%
MSc Mathematics	a) 14 years of education with Mathematics A & B or any other examination of a Foreign University / Institution / Examination Body, equivalent to BSc with Physics and Mathematics (equivalence and percentage of marks will be determined by HEC) or equivalent with 45% marks. b) KFUEIT recognized aptitude test (KFAT / NAT / HAT) with minimum score of 40%
MSc Computer Science	a) 14 years of education with Computer Science of 200 marks or equivalent with 45% marks. b) 5% seats are reserved for Associate Degree Program (ADP in Computer Science) holders. c) KFUEIT recognized aptitude test (KFAT / NAT / HAT) with minimum score of 40%



ANNEX-B

DAE ACCEPTABLE

Programs	Academic Qualification
BS Electrical Engineering	a) DAE Electrical Technology. b) DAE Telecommunication Technology. c) DAE Electronics Technology. d) DAE Avionics Technology. e) DAE Instrumentation Technology. f) DAE Information Technology.
BS Mechanical Engineering	a) DAE Mechanical Technology (with any specialization). b) DAE Precision Mechanical & Instruments Technology. c) DAE Auto & Diesel Technology. d) DAE Bio-Medical Technology. e) DAE Dies & Mold Technology. f) DAE Automation Technology. g) DAE Refrigeration & Air Conditioning Technology.
BS Chemistry	a) Bio Medical b) Petroleum c) Petrochemical d) Chemical Technology e) Chemical Processing Technology f) Food Technology Food Processing & Preservation g) Critical Health and Technology h) Diploma in Agriculture Science
BS Biochemistry	a) Bio Medical b) Chemical Technology c) Chemical Processing Technology d) Food Technology e) Food Processing & Preservation f) Critical Health and Technology g) Diploma in Agriculture Science
BS Biotechnology	a) Bio Medical b) Chemical Technology c) Chemical Processing Technology d) Food Technology e) Food Processing & Preservation f) Critical Health and Technology g) Diploma in Agriculture Science
BS Forensic Science	a) Bio Medical b) Chemical Technology c) Chemical Processing Technology d) Food Technology e) Food Processing & Preservation f) Critical Health and Technology g) Diploma in Agriculture Science
BS Materials Science	a) DAE Electrical Technology b) DAE Electronics Technology c) DAE Mechanical Technology d) DAE Chemical Technology e) DAE Bio Mechanical Technology f) DAE Metallurgy and welding technology g) DAE Petro-Chemical Technology h) DAE Petroleum Technology

Programs	Academic Qualification
BS Environmental Science	<ul style="list-style-type: none"> a) DAE Leather Technology b) DAE Chemical Technology c) DAE Petrochemical Technology d) DAE Petroleum Technology e) DAE in Chemical Technology with Specialization in Pharmaceutical
BS Computer Engineering	<ul style="list-style-type: none"> a) DAE Computer Information Technology. b) DAE Computer Science. c) DAE Telecommunication Technology. d) DAE Electrical Technology. e) DAE Electronics Technology. f) DAE Software. g) DAE Radar Technology. h) DAE Automation. i) DAE Radio Technology. j) DAE Instrumentation/Instrumentation & Process Control.
BS Agriculture Engineering	<ul style="list-style-type: none"> a) DAE Agriculture Engineering. b) DAE Civil Engineering. c) DAE Mechanical Engineering. d) DAE Auto Mobil Engineering. e) DAE Farm Machinery Technology.
BS Chemical Engineering	DAE Chemical Technology.
BS Civil Engineering	DAE Civil Engineering.
BS Food Science and Technology	DAE Food Sciences.
BS Computer Science / BS IT / BS Software Engineering	DAE relevant to Computer Sciences.
BBA	All DAE candidates are eligible.
BS Mathematics	DAE with Mathematics.
BS Physics	DAE with Physics and Mathematics.
BS Physical Education	All DAE candidates are eligible.
BS English	All DAE candidates are eligible.
BS Pakistan Studies	All DAE candidates are eligible.
BS Islamic Studies	All DAE candidates are eligible.
BS Heritage Studies	All DAE candidates are eligible.
BS History	All DAE candidates are eligible.

ANNEX-C

Sr. No.	Type of Reserved Seat(s)	Description / Eligibility	No. of Reserved Seat(s)
1	Advocates / Lawyers Children	<ul style="list-style-type: none"> 5% Quota for the children of Advocates / Lawyers in Law Degree Programs. 	5% in Law Degree Programs
2	Balochistan	<ul style="list-style-type: none"> Balochistan residents The applicant must have domicile of Balochistan 	1 seat in each Program
3	Martyred / War-Disabled / KFUEIT-Deceased	<ul style="list-style-type: none"> Children of martyrs of Army, Police, War disabled personnel OR The children of employee of KFUEIT, who died during the service at KFUEIT. The certificate of martyrdom or war disability from relevant Govt department (if Applicable) must be provided. Death certificate (if applicable) must be provided. Proof of employment must be provided. 	1 Seat in Each Program
4	KFUEIT Employees	<ul style="list-style-type: none"> Children / spouse(s) / self / siblings i.e. brothers or sisters (excluding step siblings) of the KFUEIT Employees, serving or retired or contract completed or resigned (excluding deputation/part-time employees) are eligible to apply as follows: First preference will be given to Employees (Regular / Contract awarded after Selection Process or board) having continuous or intermittent minimum service of 5 years. Second Preference will be given to Employees (Regular / Contract awarded after Selection Process / Ad-hoc) having continuous minimum service of 3 years. 	4% Seat(s) in each program

MIGRATION / TRANSFER REGULATIONS FOR ENGINEERING AND NON-ENGINEERING PROGRAMS

1. SHORT TITLE

These regulations shall be called as the Khwaja Fareed University of Engineering & Information Technology (KFUEIT), Rahim Yar Khan Migration / Transfer Regulations 2019 for Engineering and Non-Engineering Programs.

2. APPLICATION

These regulations govern the Migration / Transfer to Khwaja Fareed University of Engineering & Information Technology (KFUEIT), Rahim Yar Khan and will be effective from Fall 2018.

3. MIGRATION / TRANSFER CHANNEL

On the recommendations of the Migration Committee, the HoD and the Dean concerned, the Vice Chancellor may allow transfer of a student within KFUEIT or migration from other foreign / Pakistani universities / colleges of repute, generally under the conditions specified in these Regulations.

4. INTRA-UNIVERSITY TRANSFER

- Transfer from one academic program to another within KFUEIT during admission process does not constitute Migration and shall be done based on Admission Policy.
- Transfer from an academic program of higher merit to a program of lower merit shall be permitted on the recommendation of the HoD's and Deans concerned and the applicant meeting the admission eligibility conditions of the target program.
- Option for transfer as per 4.b above shall also be available to students separated due to poor academic performance.

5. MIGRATION FROM OTHER UNIVERSITIES TO KFUEIT

- a. Migration application shall only be entertained on the prescribed application form.
- b. An application for admission by migration shall be accompanied by a detailed marks certificate showing the examinations passed by the applicant at other university. The applicant is required to be in good standing with a minimum CGPA of 2.5 out of 4.0 or 3.0 out of 5.0.
- c. No application shall be entertained after 2nd week of a regular semester.
- d. Prescribed Migration Application Processing fee (non-refundable) shall be paid by the candidate at the time of submission of application form.
- e. All Non-FSc stream candidates shall have to provide equivalence certificate duly obtained from IBCC, Pakistan.
- f. A candidate applying for migration to a degree program should meet at least the mini-mum requirements of admission for that program to the extent of marks percentage of Intermediate or Bachelor, as the case may be, subject to availability of vacant seat in that program.
- g. A candidate pursuing for migration shall have to appear in the relevant KFAT or KFGAT (Engineering / Non- Engineering) Entry Test of KFUEIT, Minimum passing score for Bachelors programs shall be 50% and for MS / PhD Program shall be 60%. An applicant securing the passing score would be allowed to appear for interview before the Migration Committee where the HoD concerned or his / her representative (not below the rank of a PhD qualified faculty member) will also be a co-opted member.
Merit list would be drawn in case where the number of applicants is higher than the number of available vacant seats. For calculation of merit, 60% weightage would be given to the test and 40% to the interview.
- h. The university / college / institute from where the student intends to migrate should be recognized by the HEC and the degree program shall be accredited by the relevant accreditation body of Pakistan or foreign country in case of student migration from foreign university.
- i. No student shall be admitted by migration from a university or institution in Pakistan unless he / she produces a "No Objection Certificate" to the effect that the student has not been debarred from taking university examinations or suspended or not expelled or rusticated from the university or institution from which he / she intends to migrate and that no disciplinary action is pending against him / her.
- j. Migrated students are not eligible for Honors / Awards at KFUEIT.
- k. KFUEIT authorities reserve the right to reject any application for migration without as signing any reason.

6. CREDIT FOR COURSES COMPLETED AT OTHER INSTITUTIONS

- a. A maximum of up to 50% of credit hours required for degree at KFUEIT are allowed to be transferred from other institution.
- b. The credits transferred shall be counted towards the degree requirement and GPA of the transferred credits shall not be counted towards the calculation of CGPA at KFUEIT.
- c. Only courses completed with a minimum B-Grade will be transferred. Courses must correspond to courses offered by KFUEIT or be equivalent in depth and intensity.

7. MIGRATION FROM KFUEIT TO OTHER UNIVERSITIES

- a. A student desiring to leave KFUEIT in order to join another University or Institution shall apply to the Dean of the Faculty concerned on the prescribed form after payment of prescribed fee of Rs. 5,000/- (non-refundable).
- b. The Dean of Faculty concerned shall be competent to issue a migration certificate on the prescribed form.
- c. No migration certificate shall be issued unless the student has cleared all University dues.
- d. In case of student who has been debarred from taking University examination or has been expelled or rusticated, no migration certificate shall be issued so far as the punishment is in force.
- e. A student who has obtained Migration Certificate from KFUEIT but then desires to be readmitted to KFUEIT shall be allowed readmission on payment of Readmission Fee and Security Deposit in addition to prevalent semester fees and charges. Such readmission shall be approved by the Vice Chancellor on the recommendation of the HoD and the Dean concerned, in the class to which he / she can be admitted under the regulations provided that his / her absence from the current teaching session of that class does not exceed four weeks and further that he / she surrenders the Migration Certificate.

8. INTERPRETATION

If any question arises regarding the interpretation of these regulations the matter shall be deliberated by the academic administration consisting of Head of the Department, Controller of Examinations, Registrar, Deans and Vice Chancellor and their decision thereon shall be final.

9. REMOVAL OF DIFFICULTIES

If any difficulty arises in giving effect to any of the provisions of these Regulations, the Vice Chancellor in individual cases may make such decision, not inconsistent with the spirit of these Regulations, as may appear to be necessary for the purpose of removing the difficulty, provided that such a decision is not ultra vires of the Khwaja Fareed University of Engineering and Information Technology, Rahim Yar Khan Act 2014.

SEMESTER REGULATIONS

1. SHORT TITLE

These regulations shall be called as the Khwaja Fareed University of Engineering & Information Technology (KFUEIT), Rahim Yar Khan Semester Regulations 2019.

2. COMMENCEMENT

These regulations shall come into force at once on approval of the Syndicate.

3. APPLICATION

These regulations govern the Semester System of teaching at the Khwaja Fareed University of Engineering & Information Technology (KFUEIT), Rahim Yar Khan.

4. DEFINITIONS

- (a) Masculine gender used in the following regulations implies male students as well as female students.
- (b) The term faculty member or instructor or teacher when mentioned in these regulations would refer to the concerned faculty member or instructor or teacher, if not mentioned as such.
- (c) The medium of instructions and examinations shall be English for all courses except Islamic Studies and Pakistan Studies for which the medium of instructions and examinations may be either Urdu or English.
- (d) The expressions used in these regulations, unless otherwise specified, or unless there is anything repugnant to the Act and Statutes, shall have the meanings as follows:
 - (i) "Academic Council" means the Academic Council of the University as specified in the charter.
 - (ii) "Academic Head" or "HOD" means Head of a Teaching Department of the University.
 - (iii) "Academic Program" means a program of studies, which leads to the award of a University degree to the students, after successful completion of all its requirements.
 - (iv) The term "Academic Year" refers to the period of study at the University spread over one calendar year period. Academic year is further divided into two regular semesters, Fall and Spring.
 - (v) "Act" means The Khwaja Fareed University of Engineering and Information Technology, Rahim Yar Khan Act 2014.
 - (vi) "Board of Faculty" means the Board of Faculty for each faculty of the University.
 - (vii) "Board of Studies" means the Board of Studies for each department of the University.
 - (viii) "Contact Hour" means one hour, spent on academic and research related activities including instructional work/tutorials, laboratory work (practical), research work, projects, seminars, workshops, internships, etc. during the course of studies at the University.
 - (ix) "Controller of Examinations" means the Controller of Examinations (CoE) of the University.
 - (x) "Co-requisite" refers to courses that must be registered simultaneously if studied for the first time. During repetition, simultaneous registration of such courses is not necessary.
 - (xvii) "Credit Course" means a course of study whose grade points shall be used in calculating student's CGPA.
 - (xi) "Credit Hour (Cr Hr)" means a unit of academic credit during a semester. Each credit hour is related to a one or more "Contact hours per week" according to course type and the semester in which it is offered as defined in these regulations.

- (xii) "Cumulative Grade Point Average (CGPA)" means the summation of grade points of all credit courses divided by the total number of credit hours taken by a student, i.e.

$$\text{"CGPA"} = (\sum P \times N) / (\sum N)$$
Where P represents grade point assigned to a letter grade scored by the student in a course and N represents the number of credit hours associated with the course.
- (xii) "Dean" means the Chairman of a Faculty of the University.
- (xiv) "Faculty" means a Faculty of the University.
- (xv) "Government" means the Government of Punjab.
- (xvi) "Grade" means a letter grade indicating the quality of students' academic performance.
- (xvii) "Grade Point" means number of points representing the letter grade obtained by a student in a course.
- (xxviii) "Grade Points of a Credit Course" is the product of grade points representing the letter grade scored by the student in a course and the number of credit hours assigned to the course.
- (xix) "Non Credit Course" means a course of study, successful completion of which shall not be a requirement for the degree.
- (xiv) "Pre-requisites" refer to courses that must be successfully completed prior to registration in a course requiring these pre-requisites.
- (xx) "Probation" means that a student is deficient in academic standards and is likely to be separated from the program.
- (xv) "Registrar" means the Registrar of the University.
- (xxi) "Statutes", "regulations" and "rules" mean prescribed statutes, regulations and rules made under the Act.
- (xxii) "Semester" means an academic period, in which one set of courses in any discipline of studies is offered.
- (xxiii) "Semester Grade Point Average (SGPA)" means the summation of grade points of all credit courses divided by the total number of the credit hours taken by a student during a semester.
- (xiv) "Separated" means that a student is considered unsuitable for further studies and shall be de-registered from University rolls.
- (xxv) "Course" means a topic or subject related to an academic program, which is to be studied by a student for a fixed number of credit hours during a semester. Each course shall carry a specific discipline code and number.
- (xxvi) "Teacher" means Professor, Associate Professor, Assistant Professor, Lecturer, Lab Engineer and Visiting Faculty engaged whole time or part time by the University for teaching, and any other person as may be declared to be the teacher.
- (xxvii) "Teaching Department" means a teaching department established and maintained by the University.
- (xxviii) "Tutor" refers to a teacher appointed as an advisor and counselor to a group of students and the term "Tutorial" refers to a scheduled session with their tutor.
- (xxix) "University" means the Khwaja Fareed University of Engineering and Information Technology, Rahim Yar Khan.
- (xxx) "Vice Chancellor" means Vice Chancellor of the University.
- (e) All other words and expressions used, but not defined herein, shall have the same meanings as assigned to them in the Act.

5. SEMESTER SYSTEM

- (a) Teaching at the University shall be done according to the Semester system of instruction. There will be two regular semesters (Fall and Spring) in an academic year. Fall/Spring semester will spread over 16-18 weeks (inclusive of 1-2 weeks for exams).
- (b) Teaching departments shall announce the courses being offered in a semester in advance and allow students to register in the courses after academic advising.

6. ACADEMIC ADVISING

- (a) Academic advising shall be done by faculty members designated as "Advisor" and shall consist of advisor's review of student's academic record with the student himself/herself. Advising shall lay particular emphasis on courses failed by the student, student's CGPA and the steps student needs to take to fulfill his/her degree requirements within the stipulated time. Furthermore, student may be advised of pre-requisite and co-requisite relationship between courses relevant to him/her. University will provide academic guidance to all students throughout their academic career at University. Responsibilities of Student Advisor also include advising students with the general adjustments to university life and semester system, informing and explaining course registration, implication of credit transfer, attendance policy, withdrawal of courses. Additionally, Student Advisor is to serve as a resource person for university information and guiding students to meet graduation requirements.
- (b) Not with standing anything stated above with regard to advising, it will be the students' responsibility to know their degree requirements, various deadlines/information announced through notices placed on Department/Campus Notice Boards, to be accountable for observing University policies and to obtain course-scheduling information. A student will be responsible for completion of all degree requirements, including pre-requisites. For any clarification, query or problem relating to any academic matter which may not be resolved at the HOD level, the student may contact Dean of the concerned Faculty.

7. SUMMER SEMESTER

- (a) Summer semester will be offered as an optional semester of 8-9 weeks duration including exam
- (b) Students will be offered courses to remove deficiencies and can enroll in up to a maximum of 9 credit hours during summer.
- (c) The courses offered in the summer are decided by the respective HOD's office keeping in view the number of students interested in taking a particular course.
- (d) In summer, teaching departments may offer courses for whole session as well as for repeaters. Students have to pay separately for registering in a summer course without crossing certain maximum Credit Hours limit.
- (e) Moreover, a student who has either failed or has been stopped to take the examination due to shortage of class attendance or wishes to improve his/her grade is allowed to register in the summer semester.
- (f) The contact hours per week during the summer semester will be doubled to ensure that the course is completely taught in a summer session with half of the duration as compared to a regular (Fall/Spring) semester.

8. DEGREE DURATION

- (a) Minimum duration for
 - (i) undergraduate and master's degree programs (16 years of education) shall not be less than four and two academic years, respectively.
 - (ii) master's degree programs (18 years of education) shall not be less than 2 years for full time students.
 - (iii) doctoral (PhD) degree programs shall not be less than 3 years (including course work duration and Research Dissertation).
- (b) The maximum duration for
 - (i) Undergraduate and master's degree programs (16 years of education) shall not be more than six and three academic years, respectively.
 - (ii) Master's degree programs (18 years of education) shall not be more than four years for full time students.
 - (iii) Doctoral (PhD) degree programs shall not be more than 8 years (including course work duration and Research Dissertation).
- (c) Extension Beyond Maximum Duration
 - (i) The Vice Chancellor may grant extensions up to a maximum period of one year beyond the maximum duration for completing requirements for the award of degree. Students requiring extension may apply to the Vice chancellor for this purpose.
 - (ii) A student would be separated from the University if he/she requires extension beyond one year.
 - (iii) Separated students can apply to the Vice Chancellor for re-admission.
 - (iv) A re-admitted student will not be granted second re-admission if he/she is separated second time from the University.

9. REGISTRATION SCHEDULE

Students have to register for their courses in a semester during the period specified for the purpose before the commencement of a semester. The office of the Examinations, before the start of every semester, will notify the course registration deadline i.e. final two weeks study of a semester. Requests for late registration for valid reasons can be entertained till the end of the third study week of a semester. However, such students shall be required to pay late registration fee. Students deciding not to register in a semester must inform the department of their decision. Failure to register without any prior intimation may result in separation from the University.

10. STUDENT STATUS

- (a) Students shall be classified:
 - (i) on the basis of number of credit hours registered in a semester and
 - (ii) on the basis of credit hours completed.
- (b) The students are classified as per the following nomenclature on the basis of credit hours registered during a semester:
 - (i) Students registering in at least 12 credit hours during Fall and Spring semesters and 6 credit hours during summer semester within the minimum duration of their respective degree program shall be called "Regular".
 - (ii) Students shall be classified as "Casual" students if they register in less than 12 credit hours during Fall and Spring semesters and less than 6 credit hours during summer semester; or they register in courses after completion of their minimum degree duration period.
- (c) The students are classified as per the following nomenclature on the basis of credit hours completed:
 - (i) "First Year" students if they have successfully completed less than or up to 32 credit hours of prescribed syllabus;
 - (ii) "Second Year" students if they have successfully completed more than 32 credit hours but up to 68 credit hours of prescribed syllabus;
 - (iii) "Third Year" students if they have successfully completed more than 68 credit hours but up to 104 credit hours of prescribed syllabus;
 - (iv) "Final Year" students if they have successfully completed more than 104 credit hours but up to 136 credit hours of prescribed syllabus.

11. CREDIT HOUR SYSTEM

The credit hours assigned to a theory or a laboratory course are determined by the contact hours allocated to it per week throughout a semester. For a theory course one credit hour is equivalent to one contact hour of lecture per week, and for a laboratory course, three contact hours of practical work per week constitute one credit hour.

12. CREDIT HOURS REQUIREMENT

- (a) The credit hours required for the award of a Bachelors degree may range from a minimum of 124 to a maximum of 140 for degree programs with minimum duration of four academic years.
- (b) The credit hours required for the award of M.Sc. degree may range from a minimum of 65 to a maximum of 72 for degree programs with minimum duration of two academic years.
- (c) The credit hours required for the award of MS degree may range from a minimum of 30 to a maximum of 36 for degree programs with minimum duration of one academic year.
- (d) The credit hours required for the award of PhD is 48 (18 Credit Hours of Course Work + 30 Credit Hours of PhD dissertation).

13. REGISTRATION MATTERS

- (a) The maximum and minimum permissible number of students to be allowed registration in a course section will be decided by the concerned Board of Studies.
- (b) Students may consult their advisors for registration guidelines.
- (c) Registration limits for students are given as under:
 - (i) Students are allowed to register in maximum of 20 credit hours in Fall and Spring semesters.
 - (ii) Students, because of repetition of courses or fulfillment of graduation requirements, may apply to the concerned Dean for one credit hour extension in the 20 credit hours registration limit.
 - (iii) A student may register for at most 9 credit hours during summer semester such that the contact hours per week do not exceed 24.

- (d) Registration will only be allowed in a course if the pre-requisites, if specified, of the course have been completed successfully.
- (e) Registration in a course section will be closed if the maximum permitted number of students have registered in it.
- (f) A course section may be cancelled if less than the minimum numbers of students register in that section. Such students who have been denied registration due to cancellation of a section may add some alternate course(s) during add and drop period.

14. CURRICULUM AND CLASSIFICATION OF COURSES

- (a) The curriculum, course identification numbers, the credit hours allocated to each course and detailed syllabus shall be according to the proposals made by the Board of Studies and the Board of Faculty concerned and approved by the Syndicate on the recommendations of the Academic Council.
- (b) Courses shall be classified as:
 - (i) "Theory" wherein the primary mode of teaching shall be lectures given by teachers supplemented by home assignments. For the purpose of these regulations, courses of this type shall be referred to as Type-A;
 - (ii) "Practical" wherein the primary mode of teaching shall be experiments, studio laboratory, designs, drawings, assignments and projects conducted/executed by students as specified in the syllabus. For the purpose of these regulations, courses of this type shall be referred to as Type-B;
- (c) Type-A Courses Evaluation and Contact Hours
 - (i) In Type-A courses, there shall be a mid-semester examination of at least one hour duration and a comprehensive end semester examination of at least one and a half hour duration. These examinations shall carry 30% and 50% weightage towards the course grade, respectively.
 - (ii) The teacher shall schedule additional assessment instruments such as quizzes, assignments, presentations, seminars, group discussions, field study reports, etc. as specified in the syllabus or as determined by the teacher. These assessment instruments shall carry the remaining 20% weightage of the course.
 - (iii) There shall be one contact hour per week during Fall and Spring semesters and two contact hours per week during Summer semester for each credit hour assigned to Type-A courses.
- (d) Type-B Courses Evaluation and Contact Hours
 - (i) In Type-B courses, each Experiment, Studio work, Jury Presentation, Design, Drawing, Project or Assignment shall be considered as an independent assessment instrument. Cumulative performance in all independent assessment instruments shall form the basis for evaluating a student.
 - (ii) There shall be two to three contact hours per week during Fall and Spring semesters and four to six contact hours per week during Summer semester for each credit hour assigned to Type-B courses.
- (e) Type-C Courses Evaluation and Contact Hours
 - (i) In Type-C courses, each exercise, project or assignment shall be assessed for process during its life time (Continuous Assessment) while the end product shall be assessed, right after its submission, through Viva-Voce / Jury examination (Terminal Assessment).
 - (ii) Continuous Assessment and Terminal Assessment of Type-C courses may carry 60 and 40 percent weightage, respectively.
 - (iii) External Examiners / Jurors shall be involved in the assessment of all Type-C courses.
 - (iv) There shall be two to four contact hours per week during Fall and Spring semesters for each credit hour assigned to Type-C courses.

15. SEMESTER FREEZE

- (a) A student enrolled in four years bachelor's degree program can freeze maximum of two semesters throughout the degree duration.
- (b) A student enrolled in two years master's degree program can freeze maximum of one semester throughout the degree duration.
- (c) Freezing of first semester is not allowed, however under special *hardship circumstances freezing of first semester can be considered by the approval of Vice Chancellor.
- * Iddat, Maternity/Delivery, Death in the immediate family or any other subject to acceptance on justified rationale
- (d) Student can apply for semester freeze before the start of the semester

16. ATTENDANCE RULES

- (a) Students are expected to attend all the Lectures and Laboratories work pertaining to their courses of study and are required to attend at least 75% of the total Lectures/Lab work for each course to qualify for appearance in the final examination.
- (b) In case a student fails to maintain 75% attendance in a course he/she shall not be allowed to appear in the Final Examination of that course and shall be placed under academic status F-SAT. A 'W4' grade shall be awarded in the course in which he/she is short of attendance and shall not be used in computation of SGPA/CGPA.. However, course withdrawal option may be exercised (as per rules) by the student. Courses repeated after short of attendance will not be suffixed with "(Repeat)".

17. ABSCONDING STUDENTS

- (a) If a student fails to register for classes before the end of fourth week of a regular semester (Fall/Spring) or is absent from classes for 30 days or more in a regular semester (Fall/Spring), without information and approval of the HOD, admission of such a student will be suspended automatically.
- (b) Such a student may only be reinstated to continue studies at the University on the recommendation of the HOD and approval of the Dean of the Faculty, subject to payment of prescribed reinstatement fee which shall be equivalent to the Admission Fee enforced at the time of reinstatement. All outstanding dues are also to be cleared by the student before the reinstatement. However, such a student shall only be allowed to join the classes from beginning of the next semester available after the reinstatement. For the current semester the student shall be treated as if he/she dropped the semester.
- (c) Procedure specified below is to be followed for student admission suspension and reinstatement:
 - (i) The Teaching Department concerned is to make absentee report of the student on the prescribed form to the Registrar Office giving details of absence of the student.
 - (ii) Registrar Office is to suspend the admission of the student and enrollment of courses forthwith, recording the same in the University information system for further disposal as per SOP. Student ID for login through LMS shall also be disabled.
 - (iii) Registrar Office is to dispatch a letter addressed to the student, with a copy to the parent / guardian of the student, intimating about suspension of the admission. Copy of the same is to be kept in student's personal file.
 - (iv) Student desirous of reinstatement of admission is to apply for the same on the prescribed proforma.
 - (v) Student may be reinstated after scrutiny of his/her academic record of study at the University, adjudging his/her ability to complete the degree requirement while remaining within the maximum period allowed for the same and clearance of all outstanding dues including reinstatement fee. In case the student is found ineligible for reinstatement, his/her admission will be canceled.
 - (vi) On reinstatement, the student is to take appropriate action for course enrollment in the next semester and restoration of login ID for use of LMS, etc.

18. CHANGING DISCIPLINE AFTER ADMISSION

- (a) A student may apply for change in discipline. The minimum admission merit of the discipline, being opted for, must be equal or lower than the merit of the opting student at the time of his/her admission.



- (b) The student opting to change his discipline must apply to the Vice Chancellor through his Chairman and the Dean. Acceptance shall depend on the availability of seats in the opted discipline and student's admission merit.

- (c) On acceptance of his/her request, the student shall start afresh with credit transfer for any course(s) studied in the original discipline which are applicable to the new discipline. He/she will be issued a new registration number and his maximum permissible degree duration count will start afresh.

19. TRANSFER OF CREDITS OF COURSES FOR MIGRATED STUDENTS

- (a) Students from other HEC approved universities and programs accredited by PEC or PCATP, may apply for migration to this University in the same programs, in accordance with University's Migration Rules. Following conditions shall govern transfer of courses (credits) to the University for courses studied elsewhere. Courses that do not satisfy these conditions shall not be transferred nor given any credit.
 - (i) The course must correspond to a course offered by the University or be deemed equivalent in depth and intensity.
 - (ii) The student must have earned at least "70%" marks in case of absolute grading system or a minimum of "B-" grade or higher in a letter grading system similar to the one in this University. In case of any other grading system, the department shall decide with keeping the above mentioned minimum limits in perspective. In case, both letter grades and marks are mentioned on the transcript, only letter grade will be considered for the purpose of transfer of semester credits.
- (b) The accumulative credits accepted for transfer in any program should not exceed one-half (50%) of the total credits required to complete that particular program, in any case.
- (c) The credits transferred are counted towards the degree requirements of the student. However, GPA of transferred credits shall not be counted towards the calculation of CGPA, and that only "Transferred" shall be written against those course(s) in which transfer of credits was allowed. In addition, migrated students shall neither be eligible for a merit position nor degree with Honours.
- (d) Migrating student may be deficient in courses as compared to the class which he has joined. Such a student shall repeat these courses. In case, he is studying a particular course for the first time, it will not be classified as repeated course for him.

20. TRANSFER OF CREDITS AND GRADE POINTS OF COURSES FOR RE-ADMITTED STUDENTS

"Courses" and "grades of courses", studied during a period before re-admission shall stand exempted accept those with D+, D and F grade. To facilitate a re-admitted student, the CGPA after re-admission shall be calculated considering all courses learnt by him/her excluding those in which he/she has obtained D+, D or F grade before re-admission. The Interim Transcript shall show all attempts made by the student. However, for each course only the best one shall be considered in CGPA calculation. After re-admission, the student shall be placed in the semester recommended by the department. A re-admitted student shall not be allowed to repeat a course with grade "C" or above. Repetition of course with "C-" grade, before re-admission, is permitted. In addition, re-admitted students shall neither be eligible for a merit position nor degree with Honours.

21. TRANSFER OF CREDITS OF COURSES FOR DOUBLE DEGREE STUDENTS

Credit hours of courses, as recommended by the concerned department, in which they have earned a minimum of 40% marks or a minimum grade of "C" (as the case may be) during their first degree program within the University shall stand transferred and they shall be placed in the semester recommended by the department. The credits transferred are counted towards the degree requirements of the student. However, GPA of transferred credits shall not be counted towards the calculation of CGPA, and that only "Transferred" shall be written against those course(s) in which transfer of credits was allowed. In addition, double degree students shall neither be eligible for a merit position nor a degree with Honours.

22. EXCHANGE STUDENTS

Foreign students under student exchange program will be enrolled for any semester or for any single course and university will issue transcript with letter grades at the end of the semester.

23. TRANSFER OF CREDITS OF COURSES FOR EXCHANGE STUDENTS

- (a) Following conditions shall govern transfer of courses (credits) to the University for courses studied elsewhere as Exchange students under an HEC or University approved scheme. Courses that do not satisfy these conditions shall not be transferred nor given any credit.
 - (i) The course must correspond to a course offered by the university or be deemed equivalent in depth and intensity.
 - (ii) The student must have earned at least "40%" marks in case of absolute grading system or a minimum of "C" grade or higher in a letter grading system similar to the one in this University.

In case of any other grading system, the department shall decide with the above minimum limits in perspective. In case, both letter grades and marks are mentioned on the transcript, only letter grade will be considered for the purpose of transfer of semester credits.

- (b) The credits transferred are counted towards the degree requirements of the student. However, GPA of transferred credits shall not be counted towards the calculation of CGPA, and that only "Transferred" shall be written against those course(s) in which transfer of credits were allowed. In addition, such students shall neither be eligible for a merit position nor degree with Honours.

24. TEMPORARY STUDENTS

- (a) University may enroll a duly qualified person as Temporary Student on the payment of the prescribed course fee and on the recommendation of the course teacher and the Head of the Department concerned for up to 9 credit hours of courses in a semester.
- (b) A temporary student will not be eligible for award of degree. However, the University shall issue transcript with the letter grades earned by the temporary student at the end of the semester.
- (c) Temporary student will be assigned a temporary registration number and registered according to rules and regulations for regular students but will not be classified as regular student.
- (d) Courses completed successfully as temporary student may be used for credit towards a degree program at the University within two years.
- (e) Temporary students shall have no special claim or right for admission into a degree program. In order to be admitted as a regular student in a degree program they shall have to meet the eligibility and merit criteria for admission into the program.

25. EQUIVALENT COURSES AT KFUEIT

Courses being taught at KFUEIT can be made equivalent if their contents or type is same.

- (a) Content wise equivalent courses
Inter departmental courses/courses from within the department are equivalent if they all have same contents and are of same type. This is applicable to core courses and university electives included in plan of studies.
- (b) Logically equivalent courses
Elective courses of any program plan of studies are logically equivalent if they belong to same category and they can fulfil degree requirements in replacement of each other. Logically equivalent courses studied by student may not be considered as repeat.

26. INTERPRETATION

If any question arises regarding the interpretation of these regulations the matter shall be deliberated by the academic administration consisting of Head of the Department, Controller of Examinations, Registrar, Deans and Vice Chancellor and their decision thereon shall be final.

27. REMOVAL OF DIFFICULTIES

If any difficulty arises in giving effect to any of the provisions of these regulations, the Vice Chancellor in individual cases may make such decision, not inconsistent with the spirit of these regulations, as may appear to necessary for the purpose of removing the difficulty, provided that such a decision is not ultra vires of the Khwaja Fareed University of Engineering and Information Technology, Rahim Yar Khan Act 2014.

EXAMINATION REGULATIONS

1. SHORT TITLE

These regulations shall be called the Khwaja Fareed University of Engineering & Information Technology, Rahim Yar Khan Examination Regulations 2019.

2. COMMENCEMENT

These regulations shall come into force at once on approval of the Syndicate.

3. APPLICATION

These regulations govern the system of examinations at the Khwaja Fareed University of Engineering & Information Technology (KFUEIT), Rahim Yar Khan.

4. DEFINITIONS

- (a) Masculine gender used in the following regulations implies male students as well as female students.
- (b) The term faculty member / instructor / teacher when mentioned in these regulations would refer to the concerned faculty member / instructor / teacher, if not mentioned as such.
- (c) The mode of instructions and examinations shall be English for all courses except Islamic Studies, Urdu and Pakistan Studies for the medium of instructions and examinations may be either Urdu or English.
- (d) The expressions used in these regulations, unless otherwise specified, or unless there is anything repugnant to the Act and Statutes, shall have the meanings as follows:
 - (i) "Academic Council" means the Academic Council of the University as specified in the charter.
 - (ii) "Academic Head" or "HOD" means Head of a Teaching Department of the University.
 - (iii) "Academic Program" means a program of studies, which leads to the award of a University degree to the students, after successful completion of all its requirements.
 - (iv) The term "Academic Year" refers to the period of study at the University spread over one calendar year period. Academic year is further divided into two regular semesters, Fall and Spring.
 - (v) "Act" means The Khwaja Fareed University of Engineering and Information Technology, Rahim Yar Khan Act 2014.
 - (vi) "Board of Faculty" means the Board of Faculty for each faculty of the University.
 - (vii) "Board of Studies" means the Board of Studies for each department of the University.
 - (viii) "Contact Hour" means one hour, spent on academic and research related activities including instructional work/tutorials, laboratory work (practical), research work, projects, seminars, workshops, internships, etc. during the course of studies at the University.
 - ix. "Controller of Examinations" means the Controller of Examinations (CoE) of the University.
 - x. "Co-requisite" refers to courses that must be registered simultaneously if studied for the first time. During repetition, simultaneous registration of such courses is not necessary.
 - xi. "Credit Course" means a course of study whose grade points shall be used in calculating student's CGPA.
 - xii. "Credit Hour (Cr Hr)" means a unit of academic credit during a semester. Each credit hour is related to a one or more "Contact hours per week" according to course type and the semester in which it is offered as defined in these regulations.
 - xiii. "Cumulative Grade Point Average (CGPA)" means the summation of grade points of all credit courses divided by the total number of credit hours taken by a student, i.e.

$$\text{CGPA} = (\sum P \times N) / (\sum N)$$
 Where P represents grade point assigned to a letter grade scored by the student in a course and N represents the number of credit hours associated with the course.
 - xiv. "Dean" means the Chairman of a Faculty of the University.
 - xv. "Faculty" means a Faculty of the University.
 - xvi. "Government" means the Government of Punjab.
 - xvii. "Grade" means a letter grade indicating the quality of students' academic performance.
 - xviii. "Grade Point" means number of points representing the letter grade obtained by a student in a course.
 - xix. "Grade Points of a Credit Course" is the product of grade points representing the letter grade scored by the student in a course and the number of credit hours assigned to the course.
 - xx. "Non Credit Course" means a course of study, successful completion of which shall not be a requirement for the degree.
 - xxi. "Pre-requisites" refer to courses that must be successfully completed prior to registration in a course requiring these pre-requisites.

- xxiii. "Probation" means that a student is deficient in academic standards and is likely to be separated from the program.
- xxiv. "Registrar" means the Registrar of the University.
- xxv. "Statutes", "regulations" and "rules" mean prescribed statutes, regulations and rules made under the Act.
- xxvi. "Semester" means an academic period, in which one set of courses in any discipline of studies is offered.
- xxvii. "Semester Grade Point Average (SGPA)" means the summation of grade points of all credit courses divided by the total number of the credit hours taken by a student during a semester.
- xxviii. "Separated" means that a student is considered unsuitable for further studies and shall be de-registered from University rolls.
- xxix. "Course" means a topic or subject related to an academic program, which is to be studied by a student for a fixed number of credit hours during a semester. Each course shall carry a specific discipline code and number.
- xxx. "Teacher" means Professor, Associate Professor, Assistant Professor, Lecturer, Lab Engineer and Visiting Faculty engaged whole time or part time by the University for teaching, and any other person as may be declared to be the teacher.
- xxxi. "Teaching Department" means a teaching department established and maintained by the University.
- xxxii. "Tutor" refers to a teacher appointed as an advisor and counselor to a group of students and the term "Tutorial" refers to a scheduled session with their tutor.
- xxxiii. "University" means the Khwaja Fareed University of Engineering and Information Technology, Rahim Yar Khan.
- xxxiv. "Vice Chancellor" means Vice Chancellor of the University.
- (e) All other words and expressions used, but not defined herein, shall have the same meanings as assigned to them in the Act.

5. EXAMINATIONS OFFICE

This office of Controller of Examinations is responsible for preparing examination schedules, formulation and implementation of exam regulations, holding of semester's examinations, maintenance and compilation of results issuance of semester result reports, transcripts, certificates and degrees.

6. DEGREE REQUIREMENTS

- (a) To earn 16 years of education degree, a student must successfully complete the number of credit hours as prescribed by the plan of study of the degree program in which he/she is enrolled. At the time of graduation, the Cumulative Grade Point Average (CGPA) should not be below 2.00.
- (b) To earn 18 years of education degree, a student must successfully complete the number of credit hours as prescribed by the plan of study of the degree program in which he/she is enrolled. At the time of graduation, the Cumulative Grade Point Average (CGPA) should not be below 2.50.

7. COMPREHENSIVE EXAM

In addition to fulfillment of CGPA and credit hours requirement, student has to pass a comprehensive exam of his/her department (with minimum of 50% or above) to qualify for award of degree and final transcript.

8. INTERNSHIP

The student must have done an internship in his/her academic period in order to be eligible for award of degree. However, this internship would be of non-credit Hours.

9. STUDENT EVALUATION

Students are evaluated by mid-semester exam, home assignments, quizzes, case studies, course project, laboratory reports, oral tests and the end semester examination. The weightage allocated to each assessment item depends upon the nature of the course.

10. STUDENT ENROLLMENT

A student enrolled in a semester and active throughout the semester will be considered eligible for being permitted to appear in the mid semester and end semester examinations.

11. AWARD OF LETTER GRADES

The course teacher, having interacted with the students, taught them and having assessed them over the semester, shall award letter grades to the students. Chairman of the concerned degree awarding department will be consulted while finalizing the letter grades. Letter grades in each Type-A course (where class size is minimum of 25) shall be awarded on a relative scale whereas, letter grades in Type-B and Type-C courses may be awarded on an absolute scale, if deemed appropriate by the course teacher. The student who obtains zero marks in end semester exam shall be awarded F grade and excluded while awarding relative grades in a course.

12. RELATIVE GRADING METHOD

A number of different relative grading schemes may be used at the University. Two of the acceptable schemes are explained below. Other schemes may be used with the approval of the Dean of the Faculty.

- (a) Relative Grading Based on Mean and Standard Deviation on a Normal Distribution Curve
Following steps in awarding letter grades on a relative scale are to be followed:
 - (1) Minimum marks threshold linked to content mastery shall be established for award of a passing letter grade. Students earning marks below this threshold shall be awarded "F" grade;
 - (2) Expected maximum marks threshold shall also be established. Student(s) crossing the maximum threshold, if any, will be awarded "A+" grade. The grade points of "A+" and "A" are same. As such, it is expected that only exceptional students demonstrating outstanding results are given recognition by award of this grade.
 - (3) Students earning marks between the maximum and minimum thresholds are listed in descending order of merit and the average (\bar{x}) and standard deviation (σ) is computed for the set of marks obtained by students.
 - (4) Passing letter grades are awarded according to the table given below, with "A" being the highest passing grade and "D" being the lowest passing grade.

Table: Letter Grades and Corresponding Grade Points

A+	A	A-	B+	B	B-	C+	C	C-	D+	D	F
4.00	4.00	3.70	3.30	3.00	2.70	2.30	2.00	1.70	1.30	1.00	0.00

- (5) The following ranges for the letter grading are recommended and the detail is also shown in the below figure:

A+ will be assigned to above $\bar{x}+2\sigma$

A will be assigned to the range between $\bar{x}+3\sigma/2$ and $\bar{x}+2\sigma$

A- will be assigned to the range between $\bar{x}+\sigma$ and $\bar{x}+3\sigma/2$

B+ will be assigned to the range between $\bar{x}+\sigma/2$ and $\bar{x}+\sigma$

B grade will be assigned to the mean and spread in 1st half of the standard deviation i.e. $B = \bar{x}+\sigma/2$

B- will be assigned to the range between $\bar{x}-\sigma/2$ and \bar{x}

C+ will be assigned to the range between $\bar{x}-\sigma$ and $\bar{x}-4\sigma/3$

C will be assigned to the range between $\bar{x}-4\sigma/3$ and $\bar{x}-5\sigma/3$

C- will be assigned to the range between $\bar{x}-5\sigma/3$ and $\bar{x}-2\sigma$

Similarly, below $\bar{x}-2\sigma$ D and fail grades shall be assigned

D grade shall not fall below 30



- (6) It is not essential that every class should have all letter grades awarded, that is, it is possible that a class does not have any student below the minimum threshold; Or in another scenario in which no student, in the opinion of the instructor, is eligible for any grade. There may be cases where no student qualifies for some intermediate grade.
- (7) An upper limit on percentage of students in a course who can earn a particular passing grade may be placed, if required.
- (b) Relative grading using Normalization with Respect to Highest Score
Teacher may normalize absolute grades in order to incorporate aspects of both absolute and relative grading methods, if felt necessary. The normalized absolute grade levels are set as follows:
- (i) Letter grades in type-A courses, which include theoretical credits, shall be awarded on a relative scale. If maximum marks obtained by a student in any type-A course are "X", minimum levels for letter grades become:

A	≥ 0.85X
A-	≥ 0.80X
B+	≥ 0.75X
B	≥ 0.71X
B-	≥ 0.68X
C+	≥ 0.64X
C	≥ 0.61X
C-	≥ 0.58X
D+	≥ 0.54X
D	≥ 0.50X
F	≥ 0



- (ii) A+ is the highest passing grade and D is the lowest passing grade. However, it is expected that only exceptional students demonstrating outstanding results are given recognition by award of A+ grade.
- (iii) In type-B courses, which include laboratory credits, letter grades can be assigned on relative or absolute scale whichever is deemed fit by the course teacher.
- (c) Absolute Grading Method
For absolute grading scale, following grade boundaries are to be used:



A+	95 and above
A	86-94
A-	80-85
B+	76-79
B	72-75
B-	68-71
C+	64-67
C	60-63
C-	57-59
D+	54-56
D	50-53
F	Below 50

- (d) The course teacher may award an "F" grade to a student if he is convinced, while checking the answer script of mid or end semester examination that the student has cheated. The course teacher will give opportunity to the student to defend himself before award of the "F" grade.

- (e) If a teacher or HoD is convinced that students in a course have colluded to influence the outcome or grades of a course or limited attempts on assessment items of a course (exams, homeworks, quizzes, etc.) so as to lower the class average or to limit the highest score, the teacher may use an absolute scale for awarding the letter grades.

13. CONVERSION OF CGPA INTO PERCENTAGE OF MARKS ON THE SCALE OF 4.0

Whenever any party from outside the University requires equivalent percentage of SGPA/CGPA, the following equivalence of SGPA/CGPA and percentage is to be used:

CGPA	% Marks
3.63-4.00	90-100
3.25-3.62	80-89
2.88-3.24	70-79
2.50-2.87	60-69
1.80-2.49	50-59
1.00-1.79	40-49
0.00-0.99	Below 40

If the CGPA falls in between any range, then the percentage has to be defined by linear interpolation between two extreme limits. For example, if the CGPA of a student is 2.80, it falls in range 60-69, percentage will be calculated as follows:

X1=2.50	Y1=60
X2=2.80	Y2=?
X3=2.87	Y3=69

$$Y2 = [(X2-X1)(Y3-Y1)/(X3-X1)] + Y1 = 67.3\%$$

14. GPA COMPUTATION METHOD

The Semester Grade Point Average (SGPA) and Cumulative Grade point Average (CGPA) shall be computed according to the following formulae:

$$SGPA = \frac{\sum(GPx \cdot CHx)}{\sum CHx}$$

x = 1 to n, where n is the number of courses in the semester for which SGPA is to be computed.

$$CGPA = \frac{\sum(GPy \cdot CHy)}{\sum CHy}$$

y = 1 to m, where m is the number of total courses covered in all semesters up to the semester for which CGPA is to be computed.

15. AUTHORITY TO COMPUTE RESULTS

Grade Points (GP) in each course, Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA) of each student shall be computed and notified by the Controller of Examinations at the end of each semester.

16. WITHDRAWAL FROM A COURSE

- (a) A student may withdraw from a course(s) if he/she feels that he/she cannot complete it and continuing with it will adversely affect all of the other courses also. The HoD must be informed by the student through a written request on the prescribed form regarding his/her intention for withdrawal from a course. Non-attendance will not constitute an official withdrawal

Withdrawal Before End of Second Week ("W0" Grade)

- (b) After being registered in any semester, a student can Add/Drop any course with the permission of Advisor/HoD till the end of second study week. Such withdrawn courses shall be identified with status "W0", and neither will be shown on transcript nor will affect the SGPA. Courses repeated after such withdrawal will not be suffixed with "(Repeat)" when shown on the transcript.

Withdrawal Before End of 10th Week ("W1" Grade)

- (c) With the permission of teacher and HoD/Advisor, a student can withdraw from any course till the end of 10th study week and there will be no fee refund. Such course will be identified with status "W1" and neither will be shown on transcript nor will affect the SGPA. Courses repeated after such withdrawal will not be suffixed with "(Repeat)" when shown on the transcript.

Withdrawal After 10th Week ("W2" Grade)

- (d) With the permission of teacher and HoD/Advisor, a student can withdraw from any course after 10th study week but before final exam and there will be no fee refund. Such withdrawn courses shall appear in the transcript with a letter grade "W2", and shall not be used in computation of SGPA. Courses repeated after such withdrawal will not be suffixed with "(Repeat)" when shown on the transcript.

Administrative Withdrawal ("W3" Grade)

- (e) A student registered in a course may not be permitted to continue due to any disciplinary action. Such student shall be placed under "W3" academic status. It shall appear in the transcript as such, and shall not be used in computation of SGPA. Courses repeated after forced withdrawal will not be suffixed with "(Repeat)" when shown on the transcript. A student who does not drop a course nor appears in any assessment instrument will not be eligible for "W3" grade and will be awarded an "F" grade instead.

Withdrawal due to short of attendance ("W4" Grade)

- (f) If a student is short of attendance in any course, he/she shall be placed under enrollment status "F-Sat". Such courses shall appear in transcript with letter grade "W4" and shall not be used in computation of SGPA/CGPA.

17. AWARD OF "I" AND "IP" GRADES**Incomplete "I" Grade**

- (a) A student, who because of illness or any other acceptable reason fails to complete the required instruments in any course may be awarded an "I" (Incomplete) grade as an interim grade. The student having less than 75% attendance will not be eligible for award of this grade. This grade shall appear in the transcript temporarily until it is replaced by the actual grade and will not be treated as "F" grade. The student receiving such a grade shall make up the unfinished portion of his course to the satisfaction of the faculty member who has awarded this grade, and shall be given a letter grade as per regulations at the discretion of the faculty member without prejudice to the previous grade "I". In case, the student fails to complete the unfinished portion within the following semester his/her "I" grade would be converted to "F" grade by the Controller of Examinations. The responsibility for completing the unfinished portion and lies with the affected student.

In Progress "IP" Grade

- (b) Course(s) that spread over more than one semester maybe graded as "IP" until completion of these courses. This grade shall be recorded in the transcript and will not be treated as "F" grade. First portion of such course maybe graded as "IP" if the department decides to award the final letter grade upon completion of the second portion. It shall appear in the transcript as such, and shall not be used in computation of SGPA/CGPA and total credit hours completed till that time. However, this IP grade will be replaced by the original grade when final grade is awarded. Upon completion of this course the SGPA of previous semester(s) and credit hour count will be updated as well.

18. REPETITION OF COURSES

- (a) A student is permitted to repeat a course to improve his/her grade in the course during a semester within their maximum credit hours registration limit and has to pay the prescribed per credit hours fee.
- (b) Separate repetition of Type B part or Type A part of a course, which is combination of Type A and Type B, is permitted.
- (c) Only those students who fail to qualify in a course, have obtained a D, D+, C- or C grade shall be allowed to repeat a course.
- (d) A student can repeat a course in summer semester or in a regular semester with another session.
- (e) In case of repetition of a course, the better earned grade shall be used in computing the CGPA on the transcript.
- (f) The student has to repeat course with F grade and in addition to this, he is allowed to improve maximum of five courses in an eight semester degree program. However, this limit applies to type-A theoretical courses only.
- (g) The student, after re-admission, is permitted to repeat five courses irrespective of those repeated before re-admission.

19. ACADEMIC WARNING, PROBATION AND SEPARATION

- (a) A student will be placed on Warning if his/her SGPA falls below 2.0 in any semester with his/her CGPA remaining greater than 2.0.
- (b) A student will be placed on Probation if his/her CGPA falls below 2.0 after any semester.
- (c) A student will be separated from the University if he remains on probation for two consecutive semesters.
- (d) Separated students can apply to the Vice Chancellor for re-admission.

20. STUDENT'S STATUS AND ACADEMIC DEFICIENCIES AFTER SUMMER SEMESTER

- (a) After summer semester, student can't be placed under academic status "Warning" if his/her semester grade point average falls below 2.00.
- (b) No probation decision shall be made based upon the CGPA attained by the student at the end of summer semester.
- (c) If student is on probation after Spring semester, this probation can be removed after summer semester if CGPA becomes greater than 2.00.
- (d) If student is on probation after Spring semester he/she can't be separated after summer semester if CGPA remains below 2.00 and has another chance to improve CGPA in Fall semester.
- (e) If a student is separated after Spring semester and succeeds in improving his/her CGPA in summer semester (ie., greater than or equal to 2.00), his/her status of separation can be removed.

21. AWARD OF DEGREE AND MERIT POSITION

- (a) Students who are eligible for the award of degree are required to submit a Degree Requirements Completion Form to their respective chairman for onward submission to the Controller of Examinations. Degree award status would be decided only after receipt of this form.
- (b) Students shall qualify for the award of degree if they earn a minimum CGPA of 2.0 for BS and M.Sc. Programs and 3.0 for MS/PhD programs and they satisfy the following conditions:
 - (i) Have no compulsory outstanding course with "W0", "W1", "W2", "W3", "W4", "I", "IP" and "F" grades during all semesters of a degree program.
 - (ii) Have repeated elective courses in which "W0", "W1", "W2", "W3", "W4", "I", "IP" and "F" grades have been earned or have studied alternate elective courses in lieu of these to fulfill the credit hour requirements.
 - (iii) Have completed the prescribed number of credit hours.
- (c) Students shall qualify for a "Degree with Honours" if they satisfy the following conditions:
 - (i) Have earned a CGPA of 3.70 or above out of a maximum of 4.00;
 - (ii) Have not repeated a course;
 - (iii) Have not withdrawn from a course with a "W1", "W2", "W3" or "W4" grade; and
 - (iv) Have not earned an 'F' grade in any core or elective course during the course of study.



(d) Medals and merit positions will only be awarded to students having earned degree with honours. The awards will be based on the CGPA earned at the time of graduation. Comparison will be made within the students of same entry session graduating in the minimum permissible duration. Immigrating and re-admitted students will not be eligible for any medal or merit position.

22. DEAN'S HONOUR ROLL

At the end of each semester, there shall be a "Dean's Honour Roll" of students earning a Semester GPA of 3.7 and above without any "W2", "W2", "W3", "W4" or "F" grade while registered in at least 15 credit hours during that semester. There shall not be any Dean's Honour Roll for summer semester result.

23. STUDENT GRIEVANCES

(a) A student may file a grievance petition with the Chairman of his/her department about any course instructor or grades or for any other issue. The Chairman will form a 3 members departmental committee headed by a senior faculty member to redress the grievance. It will be mandatory on the committee to hear both sides (student and the teacher), and give the final decision within (05) five working days or before the start of registration for the new semester, whichever comes earlier. The decision of the committee will be deemed final and will be binding on all parties.

- (b) In respect of grade a student must submit the grievance application, if any, in writing to the Head of the Department within (07) seven working days of the receipt of the grade. The Head of Department shall forward the grievance application to the committee.

24. RECHECKING OF EXAMINATION SCRIPT

- (a) The student can apply for re-checking of exam answer book within seven days after result announcement.
- (b) The answer book of a candidate shall not be re-assessed under any circumstances.
- (c) Whereas the re-checking does not mean re-assessment/re-evaluation/re-marking of the answer book, the examination department can arrange for re-checking of examination script. The Controller of Examination or any officer or re-checking committee appointed shall see that:
- (i) There is no computational mistake in the grand total on the title page of the answer book.
 - (ii) The total of various parts of a question has been correctly made at the end of each question.
 - (iii) All totals have been correctly brought forward on the title page of the answer book.
 - (iv) No portion of any answer has been left un-marked.
 - (v) Total marks in answer book tally with the marks sheet.
 - (vi) The hand-writing of the candidate tally in the questions/answer book.
- (d) The candidate or anybody on his/her behalf has no right to see or examine the answer books for any purpose.
- (e) The marks of student could even decrease in light of 21(b) above. In the event of reduction of marks the record shall be corrected accordingly and revised transcript will be issued.
- (f) In case if any observation related to above is found, the Examination Department shall route the recommendations through the Dean to the Head of Department. Finally communicated to concerned teacher, who can only make necessary actions. In case that faculty member is no longer available or cannot be reached, the department Chairman has the authority to evaluate the situation, if required.

When a grade is to be changed, the Chairman shall forward the case to the Dean with justification for change. The result will be modified after approval of the Dean.

25. DAMAGED/LOST ANSWER BOOK

In an exceptional case where an answer script is damaged, lost or destroyed due to unavoidable circumstances, then the student will be given following options:

- (i) Average marks shall be awarded to the student in that course.
- (ii) In case of end semester examination, if the candidate so desires, he/she shall be given another chance as a special case to take the Examination in that course in the next examination and no examination fee shall be charged from the student.
- (iii) In case of internal assessment, if the candidate so desires, he/she shall be given another chance as a special case to take the make-up assessment in that course in the same academic session.

26. EVALUATION PROCESS OF COURSES**(a) Evaluation of Type-A Courses**

- (i) For mid and end semester examination of Type-A courses, the teacher of a course shall set the question paper of that course, supervise its examination, mark the answer books and prepare the award list. Any teaching resource provided to assist a teacher cannot be tasked to mark mid and end semester examination answer books.
- (ii) Every teacher of Type-A courses shall return the marked quizzes, assignments, etc. and mid semester examination scripts to the students for review, and in case of presentations etc. communicate the earned score to the student within one week of the event. Mid-semester examination scripts, however, would be recovered from the students and deposited with the chairman concerned.
- (iii) At the end of scheduled teaching period of a semester but before commencement of the end semester examination, the teacher shall prepare and display the Interim Award List. Composition, display, correction, and reporting requirements/procedures of Interim Award List shall be as prescribed in these rules.
- (iv) Teachers would mark the end semester examination scripts, and prepare and display complete Award List within one week after the examination of the course.
- (v) The students may be shown the end semester examination marked scripts before submission of Comprehensive Award List to the Controller of Examinations, if they so desire.

(b) Evaluation of Type-B Courses

- (i) Teachers of Type-B courses shall keep all students informed of their performance at every stage in each category of task performed. Immediately after the end of each stage/assessment event, teachers shall prepare and communicate the earned score to the student in that stage/assessment event.
- (ii) At the end of semester and before the end of examination period, teachers shall prepare and display the Interim Award List. Content and other requirements regarding Interim Award List shall be as prescribed in these rules.
- (iii) After following the procedures and requirements regarding Interim Award List, the teachers shall prepare and display complete Award List, within one week after the end of scheduled teaching period.

(c) Evaluation of Type-C Courses

- (i) Teachers of Type-C courses shall keep all students informed of their performance at every stage in each category of task performed. Immediately after the end of each stage/assessment event, teachers shall prepare and display a list of earned score of each student in that assessment instrument.
- (ii) At the end of first of the two semesters of a Type-C course and before the end of examination period, teachers would prepare and display an Intermediate Award List. This list would be similar to the Comprehensive Award List of Type-A and Type -B courses except that letter grade assignment based upon this list will be limited to "IP" Grade.
- (iii) At the end of second of the two semesters of a Type-C course and before the end of examination period, teachers shall prepare and display the Interim Award List. Content and other requirements regarding Interim Award List shall be as prescribed in these rules.
- (iv) Within one week of the conduct of Viva-voce/Jury examination, internal and external examiners shall prepare and display complete Award List.

27. INTERIM AWARD LIST

- (a) Interim Award List would show the percentage as well as weighted score of each stage/assessment instrument of that course including the mid-semester examination in case of Type-A courses.
- (b) The Interim Award List will be communicated to all students via electronic means or/and displayed on the Notice Boards for at least five working days to permit students to point out any anomalies, errors, omissions etc. in the list.
- (c) The teachers shall give due consideration to any anomalies, errors, omissions etc. in the list pointed out by any student, and may correct the list.
- (d) Any further processing of the list shall be carried out only after it has been displayed on the Notice Boards for the mandatory period and decisions regarding all matters pointed out by students have been taken.

28. COMPREHENSIVE AWARD LIST

The Comprehensive Award List shall show, for each student:

- (a) The weighted combination of the Interim Award and End Semester Examination award in percentage format and Letter Grades corresponding to the comprehensive award.
- (b) Sealed Comprehensive Award List will be submitted to the Controller of Examinations by the concerned teacher duly vetted by the Chairman of the Department.

29. DELAY IN SUBMISSION OF RESULTS

After passage of 6 working days from the date of scheduled final examination period, Controller of Examinations will submit a report to the Vice Chancellor on the status of submitted results. The Vice Chancellor will decide on the disposal of teachers failing to submit their results within the prescribed time.

30. CONDUCT OF EXAMINATION OF TYPE A COURSES UNDER SEMESTER SYSTEM**Question Papers**

- (a) Question papers for examinations are to be set by the concerned teacher.
- (b) The question paper prepared by the teacher duly vetted by the concerned Chairman of the department should be submitted in a sealed envelope to the Controller of Examinations by the prescribed date.

31. CONDUCT OF MID AND END SEMESTER EXAMINATIONS

- (a) The Controller of Examinations shall prepare duty roster of teachers or staff as Deputy Superintendent and Invigilators for the conduct of examinations. The number of invigilators will be estimated on the basis of one invigilator for every 25 students.
- (b) The course teacher shall be the Superintendent for the conduct of examination. The Superintendent shall ensure the following:
 - (i) All answer books used in the examination are signed or initialed. The teacher may require the students to answer on the question paper itself. No other answer books are to be used in these cases.
 - (ii) Answer books are issued to the invigilators 5 minutes before the commencement of the examination and retrieved at the end of the examination.
 - (iii) The absentee report, if any, is prepared and forwarded to the Chairman's office at the end of each examination.
- (c) Teachers or Staff acting as invigilators shall ensure the following:
 - (i) Students are identified through means such as University identification card or a valid photo ID.
 - (ii) Students are warned against the use of unfair means and have been advised to surrender mobile phones, notes, papers or other unauthorized material before the commencement of the examination.

- (iii) Students are not allowed to talk with or copy from other students during the examination.
 - (iv) No student is allowed to join the examination 30 minutes after its commencement.
 - (v) No student is allowed to submit the answer sheet and leave the examination room within 30 minutes of commencement of examination. Visits to toilets are carefully controlled.
 - (vi) The question papers and answer books of a student detected using unfair means or assisting another candidate, are taken away and the matter is reported to the Vigilance/Unfair Means Committee. The superintendent records all available evidence to be used as written proof later on.
 - (vii) Students write their registration numbers, name and class on the front cover of each additional answer sheet used. If more than one answer book is used, these are stapled together.
- (d) The course teachers, being the Superintendent(s), shall:
- (i) Supervise distribution of the question papers to the students according to the schedule published.
 - (ii) Be available in the examination center during examination of their course to clarify any query and to collect answer books after the examination. In case of multiple examination centers, they must remain available near the centers.
 - (iii) Report any incidence of unfair means or disobedience or rowdy-ism detected in the examination center to the Vigilance/Unfair Means Committee for processing under rules governing use of unfair means during examinations. The report must include collected evidence (if any), written and signed statement by the invigilator detecting the incidence and of the candidate(s) found involved.
- (e) The Vice Chancellor will constitute Vigilance and Unfair Means committees to overlook the conduct of examinations, report cases of unfair means usage and penalize students according to committee guidelines.

32. INDISCIPLINE IN THE EXAMINATIONS

- (a) Any candidate found guilty of any of the following shall have his/her case submitted to Unfair Means Committee for recommendation of disciplinary action:
- (i) Removes a leaf from his/her answer book, the answer book shall be cancelled.
 - (ii) Submits Forged or fake documents in connection with the examination.
 - (iii) Commits impersonation in the examination.
 - (iv) Copies from any paper, book or notes.
 - (v) Mutilates the Answer Book.
 - (vi) Possesses any kind of material, which may be helpful to his/her in the examination.
 - (vii) Refuses to obey the invigilation staff or refuses to follow the instructions issued by the University in connection with the examination.
 - (viii) Misbehaves or creates any kind of disturbance in or around the examination center.
 - (ix) Uses abusive or obscene language on the answer script.
 - (x) Possesses any kind of weapon in or around examination center.
 - (xi) Possesses any kind of electronic device which may be helpful in the examination.
- (b) His/her case shall result in penalties keeping in view the nature and intensity of offence.
- (i) Cancellation of paper.
 - (ii) Suspension from program for one semester.
 - (iii) Heavy and light fine.
 - (iv) Expulsion from the University.
 - (v) Any other penalty.

33. DISPOSAL OF ANSWER SCRIPTS

Answer sheets of mid-semester and end-semester examinations will be stored in the Examinations Department for one semester after declaration of result of a semester. The answer sheets would be disposed of subsequently in a suitable manner as decided by the Controller of Examinations.

34. FINAL RESULTS AND TRANSCRIPTS

The recording of result on final transcript will be according to the following:

- (a) The transcript will be chronological showing all courses registered in each semester and corresponding grades earned.
- (b) All "I" grades would be replaced by the grade earned or "F" grade if requirements have not been completed.
- (c) "IP" grade in a course or sequel of courses would be shown in the semester(s) in which it has been awarded. It will not be counted towards computation of SGPA or CGPA in these semesters.
- (d) The semester grade awarded in a course, which is a follow up of a course in which "IP" has been awarded in previous semesters, would be counted towards computation of semester GPA and CGPA by considering the total credit hours assigned to the course or a sequel of courses.
- (e) Elective courses in which the student has earned "F" grades may not be counted towards computation of CGPA if alternate elective courses have been studied in their place. This will not be done automatically. The student must apply to the Controller Examination to avail this facility.

35. RESULT DECLARATION BY EXAMINATION DEPARTMENT

A student would be able to see his course grades on the Examination portal as soon as those have been submitted by the teachers to the Controller of Examinations. The status of these results would be "Provisional". When all results have been received by the Examinations Department, official results would be declared within one week following due process of scrutiny and verification. The status of these results would change to "Confirmed" after declaration.

36. MAKEUP EXAM POLICY

- (a) Following makeup exam policy is to be used at the University in which a student will be provided an opportunity for Makeup Exam in lieu of a missed exam for the following reasons:
 - (i) in case of death of very close blood relative.
 - (ii) in case of severe illness or bodily injury, preventing from appearing in the exam.
 - (iii) in case of an emergency situation beyond the control of the student, which prevents him / her from appearing in the exam.
- (b) In all of the above cases, student has to pay the prescribed fee for makeup exam.
- (c) Important Guidelines for the Makeup Exam Process
 - (i) In all above mentioned cases the student has to report to the examination office within one week of the conduct of regular exam.
 - (ii) The request of a student, will be considered only after the recommendation of the concerned Teacher and HoD, and finally approved by the Dean of the Faculty / Controller of Examination.
 - (iii) In case of blood relative's death, the student has to provide Death Certificate along with Makeup Exam application.
 - (iv) In case of illness or injury, the student must provide the Medical Certificate duly signed by the Medical Superintendent.
 - (v) In case of illness, if the student himself / herself, is unable to report to the examination office within the given time, then he / she has to arrange the submission of the justification certificate signed by the competent medical authority.
 - (vi) After approval, the Makeup Exam will be conducted within one week.
 - (vii) No request for Makeup Exam, will be entertained after two weeks of conduct of regular exam.

37. Medical Certificate

Medical certificate from a registered medical practitioner duly endorsed by the University Medical Officer is acceptable for the examination purposes in the University.

1. Makeup Exam	5. Final Transcript
2. Duplicate Transcript Issuance	6. Duplicate Final Transcript
3. Re-checking of Examination Transcript	7. Degree Issuance Fee
4. Late Course Registration Fee	

37. INTERPRETATION

If any question arises regarding the interpretation of these regulations the matter shall be deliberated by the academic administration consisting of Head of the Department, Controller of Examinations, Registrar, Deans and Vice Chancellor and their decision thereon shall be final. In all cases where the regulations are silent, the decision of the Vice Chancellor shall be final.

38. REMOVAL OF DIFFICULTIES

If any difficulty arises in giving effect to any of the provisions of these Regulations, the Vice Chancellor in individual cases may make such decision, not inconsistent with the spirit of these Regulations, as may appear to necessary for the purpose of removing the difficulty, provided that such a decision is not ultra vires of the Khwaja Fareed University of Engineering and Information Technology, Rahim Yar Khan Act 2014.

39. OTHER SPECIAL PROVISIONS

- (a) The University authorities reserve the right to make any changes in the existing regulations, rules, fee structure and courses of study that may be considered necessary at any time without prior notice.
- (b) No student is allowed to maintain simultaneous enrollment in any other program of studies in the University or any other educational institution within or outside Pakistan, unless permitted by the competent authority as an exchange student.
- (c) In case a student enrolled in this University is found to be a regular student of some other University/institution whether local or foreign, his admission in this University shall be canceled.
- (d) Students are required to know the rules and regulations mentioned in the prospectus and notified time to time. Ignorance of rules and regulations does not absolve them of their responsibilities and shall not be accepted as an excuse.
- (e) The Vice Chancellor has been authorized by the Syndicate, on the recommendations of the Deans, to make amendments in these regulations and remove any difficulties faced during implementations of these regulations.

STUDENT DISCIPLINE REGULATIONS

PART (A)– CODE OF ETHICS AND CONDUCT FOR STUDENTS

1. SHORT TITLE

These regulations shall be called the Khwaja Fareed University of Engineering & Information Technology (KFUEIT), Rahim Yar Khan regulations for student conduct and discipline 2019.

2. COMMENCEMENT

These regulations shall come into force at once on approval of the Syndicate.

3. APPLICATION

These regulations govern the conduct and discipline of students of the Khwaja Fareed University of Engineering & Information Technology (KFUEIT), Rahim Yar Khan.

4. PREAMBLE

The student community at a university overwhelmingly represents the youth of a nation. Their capacity and ability to play their roles effectively in diverse professional fields and businesses essentially depends on the quality of education imparted to them. Education has been recognized as the most dynamic catalyst to people's professional, personal and moral development. Sheer professional education in a diversity of disciplines cannot cope with the social and moral challenges of societies, unless it is tempered with adequate moral grooming. Every university worth its name, therefore, puts due premium on developing in its student community the values of decent moral behaviour. KFUEIT firmly believes in and is committed to promoting the growth of ethically responsible students and future professionals in all disciplines by inculcating in them adherence to the highest standards of academic integrity and overall ethical conduct.

The university endeavours to develop a sense of individual responsibility on the part of each member of its community and seeks to enhance active participation of all segments, faculty, students, administration, in maintaining such standards, towards fostering and sustaining an environment of honour and trust across the spectrum. While representing himself or herself as a member of KFUEIT community, the student will maintain the highest standards of honesty and integrity. He/she will strive for these standards in his or her representations, academic pursuits, and respect for the property and individual rights of others. The student will uphold and actively follow the specific principles described in the Code.

The purpose of a code of ethics within an organization is to define acceptable standards and provide general principles of professional behaviour which should be followed by members of the organization in order to act in an appropriate moral way and to preclude misconduct. In other words, a code of conduct outlines for the members of an organization how to become true professionals by applying ethical concepts in everyday professional practice, thus enriching their respective assignments. Whereas without an institutional code of ethics, it remains impossible for an organization or institution to regulate the ethical conduct of its members across the spectrum. As a progressive and forward-looking institution, Khwaja Fareed University of Engineering and Information Technology (KFUEIT), Pakistan ardently believes in nurturing in its students wholesome ethical discipline with a focus on inculcating in them the virtues of diligence, service, integrity, fairness, decency, respect, competence and excellence.

The KFUEIT Code of Ethics and Conduct for students flows from a set of values which include our core values as well as other universally accepted values. The KFUEIT core values embody our vision and mission. These core values permeate all our activities and form a benchmark to judge our efforts against. These core values are the qualities that we want to maximize in our students, faculty, officers and non-teaching staff. Furthermore, we believe that these core values will allow us to transform our society into an advance one. Our core values are based on our acronym so that they are easy to remember for us. Our core values are:

K: Knowledge-able
F: Faithful
U: Useful
E: Eco-friendly
I: Innovative
T: Tolerant



A look at the shades/leadership of meaning conveyed by these core values will help us and others understand fully the impact that we intend these core values to have on our students, faculty, officers and non-teaching staff.

Knowledge-able: means well informed; learned; with great knowledge; well read; well educated; widely read; erudite; scholarly; cultured; cultivated; enlightened; aware.

Faithful: means strict or thorough in the performance of duty; true to one's word; promises; vows; etc.; steady in allegiance or affection; loyal; constant; reliable; trusted; or believed; adhering or true to fact; a standard; or an original; accurate.

Useful: means able to be used for a practical purpose or in several ways; functional; practical; handy; neat; convenient; utilitarian; utility; helpful; applicable; serviceable; of use; of service; beneficial; advantageous; helpful; worthwhile; profitable; gainful; rewarding; productive; constructive; effective; efficacious; valuable; fruitful; of help; of assistance. Thus KFUEIT faculty, officers, body of students and the members of staff have an obligation to serve the cause of education in their respective spheres. They should seek to elevate the University to others above self-interest by drawing on their knowledge, values, and skills.

Eco-friendly: literally means earth-friendly or not harmful to the environment. This term most commonly refers to products that contribute to green living or practices that help conserve resources like water and energy. Eco-friendly products also prevent contributions to air, water and land pollution.

Innovative: means featuring new methods; advanced and original; introducing new ideas; original and creative in thinking; original; innovatory; innovational; new; novel; fresh; unconventional; unorthodox; unusual; unprecedented; avant-garde; experimental; inventive and ingenious.

Tolerant: means showing willingness to allow the existence of opinions or behavior that one does not necessarily agree with; open-minded; forbearing; unprejudiced; unbiased; unbigoted; broad-minded; patient; magnanimous; sympathetic; understanding; charitable and lenient.

Furthermore, KFUEIT also subscribes to other universally accepted values such as social justice, dignity and worth of the person, importance of human relationships, integrity, and competence. These values further aim to identify the ideals to which students as well as faculty, officers and non-teaching staff of the University should aspire.

Social Justice: In their respective spheres, every member of the university is responsible to promote sensitivity to and knowledge about oppression and cultural and ethnic diversity. They must have access to needed information, services, and resources; equality of opportunity; and meaningful participation in decision-making at appropriate levels.

Dignity and Worth of the Person: It is incumbent on faculty, students and administrators to treat one another in a caring and respectful manner, deferring to individual differences, as well as cultural and ethnic diversity. They should be cognizant of their dual responsibility to the university and to the broader society.

Importance of Human Relationships: Relationships between and among people promote understanding and harmony, paving the way for creating and sustaining wholesome work environment. KFUEIT students as well as faculty, officers and non-teaching staff owe both to their own advantage and the larger interest of the university and society to strengthen relationships in a purposeful effort to promote, restore, maintain, and enhance the collective well-being of individuals, families, the organization, and the civil society at large.

Integrity: It is expected of KFUEIT faculty, students, and administrators to be aware of the University's mission, values, ethical principles, and ethical standards and demonstrate ethical behaviour consistent with them. They must act honestly and responsibly and promote ethical practices within the organizations with which they are associated.

Competence: KFUEIT students must continually seek to enhance their professional knowledge and skills. They should also aspire to contribute to the knowledge in their own ways and manners.

Discipline and Respect for Law: Discipline is a cardinal law of nature visible, among other things, in the orderly working of celestial bodies. Discipline is necessary in all walks of life, and forms the core of other virtues like punctuality, cleanliness and dress-code. If people do not observe discipline, the entire social fabric would crumble like a house of cards. All along physical discipline, far more important are the virtues of moral and intellectual discipline. Moral and intellectual disciplines show in the sublime traits of self-restraint, honesty, fortitude, forbearance, integrity and courage. No society or organization can function and prosper smoothly unless its members demonstrate a sense of sound discipline. Discipline is necessary for becoming good citizens and, more importantly, good human beings. Respect for law, which means not merely not doing something negative but actually doing something positive, is a manifest expression of discipline. In fact, discipline and respect for law are the distinguishing features of civilized societies across the globe. KFUEIT urges its entire community of members to observe in letter and spirit the University discipline. Respect for authority, strict observance of the rules and regulations of the University, as well as due respect to law of the land are expected all times in all situations.

While it is desirable that students should acquaint themselves with the KFUEIT Student Code of Ethics and Conduct in entirety to deepen their understanding, they are specifically required to study the code of conduct and internalize the guidelines provided therein. Significant violation or persistent deviation from this Code of Ethics and Conduct by a University student will constitute misconduct and will be a cause for disciplinary action. An appropriate mechanism built around appropriate procedures along with suitable corrective actions exists at the University to deal with such deviations and violations of the prescribed code of ethics and conduct.

5. JURISDICTION

This code applies to the on-campus conduct of all registered students, including the individuals using university academic resources. The code also applies to the off-campus conduct of students in direct connection with:

- (a) Academic course requirements or any credit-bearing experiences, such as internships, field trips, study abroad, or student teaching;
- (b) Any activity supporting pursuit of a degree, such as research at another institution or a professional practice assignment;
- (c) Any activity sponsored, conducted, or authorized by the university or by registered student organizations;
- (d) Any activity that causes substantial destruction of property belonging to the university or members of the university community, or causes or threatens serious harm to the safety or security of members of the university community; or
- (e) Any activity in which a police report has been filed, a summons or indictment issued, or an arrest has occurred for a crime of violence.

This code governs all campuses of the University. However, students attending at regional campuses, centres, or institutes are advised to consult their local resources for additional information or rules pertaining to those locations.

The University reserves the right to administer the code and proceed with the hearing process even if the student withdraws from the university, is no longer enrolled in classes, or subsequently fails to meet the definition of a student while a disciplinary matter is pending.

Students continue to be subject to city, state laws while at the University, and violations of those laws may also constitute violations of the code. In such instances, the University may proceed with university disciplinary action under the code independently of any criminal proceeding involving the same conduct and may impose sanctions for violation of the code even if such criminal proceeding is not yet resolved or is resolved in the student's favour.

6. DEFINITIONS

- (a) "University premises" includes all lands, buildings, facilities, and resources owned, leased, managed, or operated by the University.
- (b) "Student" includes an individual who has paid an acceptance fee, registered for classes, or otherwise entered into any other contractual relationship with the University to take instruction, conduct research or undertake project.
- (c) It further includes persons who are eligible to receive any of the rights and privileges afforded a person who is enrolled at the university, including, but not limited to, those individuals admitted to the University and attending orientation programmes.
- (d) Student status lasts until an individual graduates, is dismissed, or is not in attendance for two (2) complete, consecutive semesters.
- (e) "Student" also includes registered student organizations.

7. PROHIBITED CONDUCT

Any student found to have engaged, or attempted to engage, in any of the following conduct while within the University's jurisdiction, will be subject to disciplinary action by the University. Any student who abandons an attempt or prevents the prohibited conduct from occurring under circumstances that demonstrate a complete and voluntary renunciation of the prohibited conduct will not be subject to disciplinary action by the University.

I. Academic Misconduct

Any activity that tends to compromise the academic integrity of the University or subvert the educational process. Examples of academic misconduct include, but are not limited to:

- (a) Violation of course rules as contained in the course syllabus or other information provided to the student;
- (b) Knowingly providing or receiving information during tests/ examinations; or the possession and/ or use of unauthorized materials during those examinations (including mobile phones or written material);
- (c) Knowingly providing or using unauthorized assistance in the laboratory, on field work, in studies or on a course assignment;
- (d) Submitting plagiarized work for an academic requirement. Plagiarism is the representation of another's work or ideas as one's own; it includes the unacknowledged word-for-word use and/or paraphrasing of another person's work, and/or the inappropriate unacknowledged use of another person's ideas;

- (e) Submitting substantially the same work to satisfy requirements for one course or academic requirement that has been submitted in satisfaction of requirements for another course or academic requirement without permission of the instructor of the course for which the work is being submitted or supervising authority for the academic requirement;
- (f) Falsification, fabrication, or dishonesty in creating or reporting laboratory results, research results, and/or any other assignments;
- (g) Serving as, or enlisting the assistance of, a substitute for a student in any graded assignments;
- (h) Alteration of grades or marks by the student in an effort to change the earned grade or credit;
- (i) Alteration of academically related University forms or records, or unauthorized use of those forms or records;
- (j) Engaging in activities that unfairly place other students at a disadvantage, such as taking, hiding or altering resource material, or manipulating a grading system; and
- (k) Violation of programme regulations as established by departmental committees and made available to students.
- (l) Violation of instructions/guidelines included in the University/institutional/students' handbook etc.

II. Endangering Health or Safety

- (a) Endangering behaviour: Taking or threatening action that endangers the safety, physical or mental health, or life of any person, or creates a reasonable fear of such action. Relationship violence or intimate partner abuse may constitute endangering behaviour.
- (b) Stalking: Engaging in a pattern of unwanted conduct directed at another person that threatens or endangers the safety, physical or mental health, or life or property of that person, or creates a reasonable fear of such a threat or action.
- (c) Sexual harassment: Sexual harassment of fellow students and other people on the campus. Sexual harassment includes sexual advances, sexual solicitation, requests for sexual favours, and other verbal or physical conduct of a sexual nature.
- (d) Indecent exposure: Defined as the exposure of the private or intimate parts of the body in a lewd manner in public or in private premises when the accused may be readily observed.

III. Destruction of Property

Actual or threatened damage to or destruction of university property or property of others, whether done intentionally or with reckless disregard.

IV. Dangerous Weapons or Devices

Storage or possession of dangerous weapons, devices, or substances including, but not limited to, firearms, ammunition, or fireworks.

V. Dishonest Conduct

Dishonest conduct, including, but not limited to: knowingly reporting a false emergency; knowingly making false accusation of misconduct; misuse or falsification of university or related documents by actions such as forgery, alteration, or improper transfer; submission of information known by the submitter to be false to a university official.

VI. Theft or Unauthorized Use of Property

Theft, or the unauthorized use or possession of university property, services, resources, or the property of others.

VII. Failure to Comply with University or Civil Authority

Failure to comply with legitimate directives of authorized university officials, law enforcement or emergency personnel, identified as such, in the performance of their duties, including failure to identify oneself when so requested; or violation of the terms of a disciplinary sanction.

VIII. Drugs

Use, production, distribution, sale, or possession of drugs in a manner prohibited under law. This includes, but is not limited to, the misuse of prescription drugs.

IX. Alcohol

Use, production, distribution, sale, or possession of alcohol in any manner.

X. Unauthorized Presence

Unauthorized entrance to or presence in or on university premises.

XI. Disorderly or Disruptive Conduct

Disorderly or disruptive conduct that unreasonably interferes with university activities or with the legitimate activities of any member of the university community.

XII. Hazing

Doing, requiring, or encouraging any act, whether or not the act is voluntarily agreed upon, in conjunction with initiation or continued membership or participation in any group that causes or creates a substantial risk of causing mental or physical harm or humiliation. Such acts may include, but are not limited to, use of alcohol, creation of excessive fatigue, and paddling, punching or kicking in any form.

XIII. Abuse of Student Conduct System

Abuse of any university student conduct system, including but not limited to:

- (a) Failure to obey the summons or directives of a student conduct body or university official;
- (b) Falsification, distortion, or misrepresentation of information before a student conduct body;
- (c) Disruption or interference with the orderly process of a student conduct proceedings;
- (d) Knowingly instituting of a student conduct proceeding without cause;
- (e) Discouraging an individual's proper participation in, or use of, a university student conduct system;
- (f) Influencing the impartiality of a member of a student conduct body prior to, and/or during the course of a student conduct proceeding;
- (g) Harassment and/or intimidation of a member of a student conduct body prior to, during, and/or after a student conduct proceeding;
- (h) Failure to comply with one or more sanctions imposed under the code of student conduct; and
- (i) Influencing another person to commit an abuse of a university student conduct system.

XIV. Violation of University Rules

Violation of other published university regulations, guidelines, policies, or rules, or violations of federal, state, or local law. These university regulations, guidelines, policies, or rules include, but are not limited to, those which prohibit the misuse of computing resources, sexual harassment, rules for student groups or organizations, and residence hall rules and regulations.

XV. Riotous Behaviour

Participation in a disturbance with the purpose to commit or incite any action that presents a clear and present danger to others, causes physical harm to others, or damages property. Proscribed behaviour in the context of a riot includes, but is not limited to:

- (a) Knowingly engaging in conduct designed to incite another to engage in riotous behaviour; and
- (b) Actual or threatened damage to or destruction of university property or property of others, whether done intentionally or with reckless disregard; and
- (c) Failing to comply with a directive to disperse by university officials, law enforcement, or emergency personnel; and
- (d) Intimidating, impeding, hindering or obstructing a university official, law enforcement, or emergency personnel in the performance of their duties.
- (e) Political, sectarian or ethnic activism in the form of gatherings, demonstrations, walks or riots on university premises

XVI. Recording of Images without Knowledge

Using electronic or other means to make a video or photographic record of any person in a location where there is a reasonable expectation of privacy without the person's prior knowledge, when such a recording is likely to cause injury, distress, or damage to reputation. This includes, but is not limited to, taking video or photographic images in shower/locker rooms, residence hall rooms, and restrooms. The storing, sharing, and/or distributing of such unauthorized records by any means is also prohibited.

PART B – ENFORCEMENT OF STUDENT CODE OF ETHICS AND CONDUCT

8. AUTHORITY TO CHECK FOR ACTS OF INDISCIPLINE

All faculty members, administrative staff, support staff and students will be expected to monitor the observance of this code of conduct and report any such disregard or violations to relevant University authorities for taking appropriate action/remedial measures. Matters of indiscipline would be referred to the University authorities, which are authorized to check indiscipline matters and decide as per University rules, regulations and policy. Parents of those students who disobey authority and violate the code of conduct will be informed. Students may be held accountable for the acts of misconduct of their guests while on University premises or at University-sponsored activities. Students who are charged with violations of this Code of Conduct are subject to disciplinary action as per University rules/regulations/Statutes.

Every member of the Faculty shall have the power to check any disorderly or improper conduct of, or any breach of the regulations, by students in any part of the University or outside when the visit is sponsored or organized by it. Misconduct in a classroom when a student is under the charge of a teacher shall not be allowed and a punitive action such as a fine, removal from the classroom or a punishment of greater magnitude may be imposed as decided by the authority so empowered.

9. STUDENT DISCIPLINE COMMITTEE

The Vice Chancellor may constitute, and revise from time to time, a Student Discipline Committee. The Student Discipline Committee is to act as an inquiry committee to investigate reported cases of violation of discipline and code of conduct by students of the University and make its recommendations in accordance with University rules and regulations. In cases referred to the Student Discipline Committee, after due inquiry, it will recommend the punishment according to the gravity of the case after giving full opportunity to the defaulter to give his/her point of view before recommending the punishment.

10. PROCEDURE IN CASE OF BREACH OF DISCIPLINE

A teacher, a staff member or officer in whose presence or in relation to whom an act of indiscipline has been committed or who gets to know of such an act, may deal with the case himself/herself, or if in his/her view the case is one which can be more appropriately dealt by another authority or which warrants a penalty of greater magnitude than he/she is competent to impose, shall refer the case to the President Student Discipline Committee.

11. CASE REFERRALS

All cases of serious breach of discipline will be referred to the Student Discipline Committee for investigation. A case should be submitted as soon as possible after the alleged violation takes place, preferably within 24 hours of the violation. Those referring cases are normally expected to serve as complainant and to present relevant evidence in disciplinary hearings before the Student Discipline Committee.

12. PROCEDURE FOR DISCIPLINARY HEARING

- (a) A disciplinary hearing is a formal process conducted by the University Student Discipline Committee. This formal process is designed to gather and consider relevant information regarding the alleged violation(s) of the Student Code of Ethics & Conduct and to determine and recommend a punishment. Every effort will be made to expedite proceedings pursuant to allegations within a reasonable period.
- (b) When a case against a student is referred to the Student Discipline Committee, it may, with the approval of the Dean of the Faculty, if it deems fit, suspend the student from the classes till the finalization of the case.
- (c) The Discipline Committee shall submit its report to the HOD in four parts i.e. Summary of the Case, Proceedings, Findings and Recommendations. The report shall attempt to document, as much as possible, the matters relevant to the case and the inquiry as conducted by the Discipline Committee.
- (d) If the Awarding Authority for the punishment recommended by the Discipline Committee is the Dean/VC, the HOD shall forward the report to the Dean with his/her recommendations. If the case involves students from more than one department then all of the HODs concerned shall make their recommendations.
- (e) If the Discipline Committee recommends Rustication/Expulsion of the student or any other major punishment, the Dean shall forward the report to the Vice Chancellor with his/her recommendations.

In all cases where penalties are awarded by the President Student Discipline Committee/HOD/Dean, the report shall be forwarded to the Vice Chancellor for information.

13. PUNISHMENT OR PENALTY FOR ACTS OF INDISCIPLINE

- (a) Punishment or penalty for acts of indiscipline shall be according to the gravity of the case and may be any one or more of the following:

Minor Punishments

- (i) Warning in writing: Notice to the offender, verbally or in writing, that continuation or repetition of prohibited conduct may result in further disciplinary action.
- (ii) Probation: Probation for a specific period.
- (iii) Fine: Fine which may amount up to Rs. 10,000/- as per shadule.
- (iv) Hostel Suspension/Permanent Removal: Expulsion from the hostel for a specified period, or permanent removal from the residence hall.
- (v) Withholding of certificate: Withholding of a certificate of good moral character.
- (vi) Removal of privileges: Deprivation from the privileges enjoyed by the students.
- (i) F Grade: Award of "F" grade in a paper or course.

Major Punishments

- (i) Fine: Fine which may amount up to Rs. 25,000/- it must be in shadule.
- (ii) Exam Result: Cancellation of examination result.
- (iii) Rustication: Rustication from the University for a specific period.
- (iv) Degree: Non conferment of degree/transcript.
- (v) Expulsion: Expulsion from the University.

Other Punishments

Other sanctions or a combination of above mentioned punishments as deemed appropriate may also be prescribed.

- (b) A student guilty of an act of indiscipline shall be liable to the penalties specified in the table below or promulgated through written orders/notifications with the indicated Awarding and Appellate Authorities:

S. No	Penalty	Awarding Authority	Appellate Authority
1	Exclusion for classroom, Laboratory, Workshop or field work for the periods concerned, for not more than four such consecutive periods.	Teacher In-charge	Head of Department
2	Exclusion from the game or the Field for not more than one week.	In-charge of the Game	Head of Department
3	Exclusion from Instructional or Sports Tour or Survey Camp.	Teacher In-charge/Head of Department/Chairman	Dean
4	Exclusion from the Department for a period not exceeding two weeks.	Head of Department/Chairman	Dean
5	Exclusion from the Library for not more than two weeks.	Chairman/Library Committee	Dean
6	Exclusion from all classes or any class in any faculty for a period not exceeding two weeks.	Dean	Vice Chancellor
7	Exclusion from the Hall of residence for a period not exceeding six months.	Resident Tutor	Warden
8	Exclusion from the Hall of residence for a period not exceeding one year.	Senior Warden/Warden/Director Student Affairs	Vice Chancellor
9	Suspension or removal from a position of authority in a hall of Residence.	Resident Tutor/ Senior Warden/Warden	Vice Chancellor
10	Suspension or removal from a position of authority in the Students Union or Student Society.	Director Student Affairs	Vice Chancellor

S. No	Penalty	Awarding Authority	Appellate Authority
11	Suspension or removal from a position of authority in the University Sports.	President Sports Committee	Vice Chancellor
12	Cancellation or Remission of fee or University Scholarship.	Dean	Vice Chancellor
13	Fine up to Rs. 1000/-	Lecturer/ Resident Tutor	HOD/Warden
14	Fine up to Rs. 2000/-	Warden	Vice Chancellor
15	Fine up to Rs. 3000/-	Assistant Professor	Dean
16	Fine up to Rs. 5000/-	Chairman of Teaching Department/ Professor/ Senior Warden/Director Student Affairs	Vice Chancellor
17	Fine not exceeding Rs. 10,000/-.	Dean	Vice Chancellor
19	Rustication for one or more semester.	Vice Chancellor	–
20	Expulsion from the University	Vice Chancellor	–
21	Any other major punishment	Vice Chancellor	–

14. APPEALS

- An appeal against the penalty may be filed by the student with the Appellate Authority within 30 days of announcement of the punishment. No appeal by a student shall be entertained unless it is presented within 30 days from the date of communication of the decision, provided that the Vice Chancellor may, for valid reason(s), extend this period.
- No appeal shall be accepted against the decision of an authority imposing a penalty other than rustication or expulsion except on the grounds that such authority imposed a penalty which it was not competent to impose.
- An appeal on the grounds that an authority imposed a penalty which it was not competent to impose, shall lie with the body or person of higher authority than the one who imposed the penalty.

15. RUSTICATION

- Rustication may be awarded up to a maximum of 3 years. The penalty when imposed on a student shall always mean a minimum loss of one semester as far as his/her appearance in the examinations is concerned. The actual period of absence from the University will, however, depend upon the time of the academic year when the penalty is imposed.
- The student under rustication will have the option of rejoining the University at the beginning of the semester/academic year after the completion of rustication period, provided suitable courses are available in the regular semester's list of courses being offered. It shall be obligatory on the part of the University to re-admit the student if he/she wishes to rejoin.
- No fee shall be charged from a rusticated student for the time period during which his/her name remained struck off the rolls. However, the previously deposited fee will not be refunded.
- No student shall be rusticated from the University unless he/she has been allowed a reasonable chance of defence against the accusations.

16. EXPULSION

- The Dean of the Faculty shall report the name of the student who has been found guilty of an offence warranting expulsion to the Vice Chancellor stating the reasons for the proposed action, who will then have the authority to sanction expulsion after allowing reasonable chance to the student to defend himself/herself against the expulsion.
- The name of the expelled student will immediately be removed from the University rolls, and fee for remaining month(s) of the semester will not be refunded.
- A student expelled from the University will not be re-admitted to any of the University's constituent or affiliated units.

- (d) Cases of expulsion will be registered in University records and announced to all constituent and affiliated units.

17. COMPENSATION FOR LOSS

The Dean of the Faculty, or any teacher or officer to whom he may delegate the powers, may instruct a student to pay compensation for any loss or damage to property belonging to the University, public authority, a fellow student or an employee of the University, caused by a willful act or gross negligence of the student. If the student does not pay such compensation within a specified period, the Dean of the Faculty will proceed against the student in the manner as prescribed in these regulations.

18. INTERPRETATION

If any question arises regarding the interpretation of these regulations the matter shall be deliberated by the academic administration consisting of Head of the Department, Controller of Examinations, Registrar, Deans and Vice Chancellor and their decision thereon shall be final. In all cases where the regulations are silent, the decision of the Vice Chancellor shall be final.

19. REMOVAL OF DIFFICULTIES

If any difficulty arises in giving effect to any of the provisions of these Regulations, the Vice Chancellor in individual cases may make such decision, not inconsistent with the spirit of these Regulations, as may appear to necessary for the purpose of removing the difficulty, provided that such a decision is not ultra vires of the Khwaja Fareed University of Engineering and Information Technology, Rahim Yar Khan Act 2014.

CREDITS: This Code of Ethics & Conduct borrows heavily from the Code of Ethics of National University of Sciences & Technology, Pakistan which in turn is based on a number of other documents that are cited therein.

SCHOLARSHIPS REGULATIONS

1. SHORT TITLE

These regulations shall be called the Khwaja Fareed University of Engineering & Information Technology (KFUEIT), Rahim Yar Khan Scholarships Regulations 2019.

2. COMMENCEMENT

These regulations shall come into force at once on the approval by Syndicate.

3. APPLICATION

These regulations shall govern the award of all the Merit and Need-based Scholarships at Khwaja Fareed University of Engineering & Information Technology (KFUEIT), Rahim Yar Khan.

4. PREAMBLE

The University in accordance with the Act shall assist the needy students in obtaining the financial assistance and scholarships in order to continue their studies and academic activities at the University. Furthermore, the University shall also assist high-achieving students in obtaining recognition and financial reward for their excellence and meritorious performance in academic and research activities.

5. BUDGETARY ALLOCATION FOR SCHOLARSHIPS

- (a) In order to provide adequate funds in the annual budget for scholarships, 10% of the total tuition fee revenue at the University will be allocated for Scholarships and Fee Concession.
- (b) It would be ensured that the scholarships on need-basis or merit-basis shall cover a minimum of 10% of the student population in each Academic Year.

6. SCHOLARSHIPS COMMITTEE

The Vice Chancellor shall constitute, and may revise from time to time, a Scholarships Award Committee with members from faculty and officers of the University at university level. Heads of academic departments shall constitute Scholarship Committees at department level from faculty

and officers of their Departments. The Scholarship Committees at department level shall conduct the interviews of the applicants for scholarships and submit their recommendations to the Scholarships and Financial Assistance Department for further proceeding. Scholarship Award Committee at University level may review the recommendations submitted by Department Scholarships Committees by conducting meetings whenever necessary, for the cases of merit, need-based or any other scholarship advertised by the Scholarships and Financial Assistance Department. The Director Scholarships and Financial Assistance Department shall be responsible for submitting final recommendations to the Worthy Vice Chancellor for approval.

7. SCHOLARSHIPS AND FINANCIAL ASSISTANCE DEPARTMENT

There shall be Scholarships and Financial Assistance Department established at the University, which shall be responsible for the following:

- (i) Advising and counseling the University Students on various scholarships and financial assistance schemes available to them and ensuring that information about the scholarships and financial assistance schemes is widely disseminated throughout the student community using Notice Boards, Electronic Mail, KFUEIT Website, KFUEIT Official Facebook Page and through conducting Seminars and Workshops for Students at KFUEIT.
- (ii) Facilitating Scholarship Committees at department level to process merit, need based or any other scholarship.
- (iii) Maintaining records related to various scholarships schemes in a reliable manner.
- (iv) Attainment of semester budget required to process the Need-based and Merit Scholarship from Finance Department at KFUEIT.
- (v) Coordinating with external organizations for the provision of scholarships and issues pertaining to students of KFUEIT.

8. DIRECTOR SCHOLARSHIPS AND FINANCIAL ASSISTANCE DEPARTMENT

The head of the Scholarships and Financial Assistance Department be called the Director Scholarships and Financial Assistance Department.

Director Scholarships and Financial Assistance Department shall be responsible for the following:

- a) Director Scholarships and Financial Assistance Department shall act as President of the Scholarships Award Committee at University level. The President Scholarships Award Committee will conduct timely meetings of the committee to review the applications received and make recommendations on these applications for the approval of the Vice Chancellor.
- b) Obtaining the advice and instructions of the Vice Chancellor on various Scholarship schemes and conducting official correspondence on behalf of the University and to make sure that University students are rightfully benefitting from these schemes.
- c) Submitting a monthly report to the Vice Chancellor on activities undertaken to fulfill the assigned mission and responsibilities.

9. MERIT SCHOLARSHIP

- (a) Merit scholarship shall be awarded to undergraduate students by the University to top three students obtaining the highest SGPA in each class. Students enrolled in first semester shall be awarded Merit Scholarship on the basis of aggregate marks obtained by the student in admission merit list. In addition to the student being placed among the top three, the SGPA obtained must also be greater than 3.0. Furthermore being, only students carrying full workload as specified in the Plan of Study for the degree are eligible to be considered for Merit Scholarships Award.
- (b) Merit Scholarship shall be awarded to the students of all the undergraduate (16-year) degree programs on per semester basis. For the purpose of Merit Scholarship, each student will be considered as part of a class of students taking same set of courses taught by the same teacher. Assignment of each student to a class shall be done at the beginning of the semester and shall not be generally changed thereafter. In any case, the assigned class of a student cannot be changed for the purpose of Merit Scholarship after the mid-semester examination.
- (c) The amount of merit scholarship shall be a maximum of full tuition fee per semester. After the first semester, its amount will depend upon the SGPA obtained by the top three of the students in previous semester examination. The Merit Scholarship amount awarded to an eligible student will be 100% of semester tuition fee, if his/her SGPA is 4.0 and 0% if his/her SGPA is 3.0 (or lower).

between 0% and 100% of student's semester tuition fee. As an example, a student who is among the top three students and thus is eligible for the Merit scholarship and his/her SGPA is 3.60, he/she will get 60% of tuition fee as Merit Scholarship amount.

- (d) There is no prescribed form for Merit Scholarship application. Computerized Examination Record System of the University will automatically generate the names of deserving candidates for Merit Scholarship Award according to above mentioned criteria.
- (e) Scholarships Award Committee shall submit the cases for award of Merit Scholarship, duly verified by the Controller of Examination, for the approval of the Vice Chancellor.

10. NEED BASED SCHOLARSHIP

- (a) The Need Based Scholarship shall be awarded to the needy, deserving and orphan students of undergraduate (16-years) programs by the University on per semester basis. Primary criteria for the award of need-based scholarship shall be the need of the student relative to the other applicants. However, applicants need to maintain a SGPA or CGPA of 2.0 to qualify for consideration for the award of need-based scholarship.
- (b) Applications for the Need-Based Scholarship shall be received on a prescribed form to be filled by the needy, deserving and orphan students. All required supporting documents must be submitted by the applicant. Information provided by the applicant in the Need-Based Scholarship Application Form shall strictly be treated as confidential.
- (c) Students of the University shall be informed periodically through a notice for application deadline for the Need-Based scholarships.
- (d) Background Check may be conducted, if deemed necessary, to verify information provided by the applicant in the Need-based Scholarship Application Form. If the Background Check reveals that the applicant has provided false information in the Need-Based Scholarship Application Form. The applicant would stand disqualified from receiving any Need-based Scholarship.
- (e) Applicants for Need-Based scholarship may be required to undergo interview and assessment by the Scholarships Committee at department level and may further be reviewed by Scholarships Award Committee. The final recommendations shall be made by the Scholarships Award Committee in accordance with the budget of University.
- (f) If a special need arises, in a case reported or applied directly to the Vice Chancellor, the Vice Chancellor may award need-based scholarship directly to a needy applicant.
- (g) The amount of the Need Based Scholarship shall be a maximum of full tuition fee of the semester. The Scholarships Award Committee is empowered to decide upon the amount of Scholarship for each applicant according to the financial needs of the applicant, on case to case basis. Award decision taken by the committee shall be considered as recommendations to be put up for the final approval by the Vice Chancellor.
- (h) The scholarship will be reimbursed to University account if the student becomes recipient of any other scholarship and the amount of scholarship received by the student covers his/her financial educational needs. Students will return the amount in university's scholarship account and will submit their receipts to Scholarship and financial assistance department for further process.
- (i) Need-based Scholarships are awarded as Qarz-e-Hasana. The students availing Need-based Scholarship must note that they have a moral obligation to return the amount after they have completed their education, at their convenience, so that these funds might be used in future to help the other needy and deserving students.
- (j) MS/PhD students may be financially supported by the university under the program of Teaching Assistants/ Research Assistants for which policies/rules shall be announced separately.

11. OTHER SCHOLARSHIPS AND FINANCIAL ASSISTANCE SCHEMES

From time to time, other scholarships and financial assistance schemes may be initiated in the University with the support of Philanthropists/government/non-governmental organizations, etc. Such scholarships and financial assistance schemes will be subject to their specific rules. However, the Scholarships and Financial Assistance Department shall announce these scholarships; financial assistance schemes, and review the applications for these scholarships/financial assistance schemes to recommend the award of these scholarships/financial assistance to deserving students in the light of the relevant rules.

12. INTERPERTATION

If any question arises regarding the interpretation of these regulations the matter shall be deliberated by the academic administration consisting of Head of the Department. Controller of Examinations, Registrar, Deans and Vice Chancellor and their decision thereon shall be final.

13. REMOVAL OF DIFFICULTIES

If any difficulty arises in giving effect to any of the provisions of these Regulations, the Vice Chancellor in individual cases may make such decisions, not inconsistent with the spirit of these Regulations, as may appear to necessary for the purpose of removing the difficulty, provided that such a decision is not ultra vires of the Khwaja Fareed University of Engineering and Information Technology, Rahim Yar Khan Act 2014.

LIBRARY REGULATIONS

1. BACKGROUND

Library at Khwaja Fareed University of Engineering & Information Technology was initially housed in a renovated hall with an area of about 2000 square feet. At beginning of the university functions were looked after by administration of University of Engineering and Technology (UET), Lahore. A librarian was assigned from UET Lahore to manage and run KFUEIT library. Until end of year 2016, library had about 4000 books in total with 1000 titles. Today library has 04 premises each of 2600 square feet and has two full time librarians with 04 Assistant Librarians and 04 off staff members. Library at present is being supervised by an assistant professor with additional duty of Chief Librarian. In year 2018 library collection has risen to 14500 books with 6000 titles and 40 journals in print. Library is growing day by day with all resources of a modern Library.

A library is a collection of resources of information accessible to a defined community for referencing or borrowing. It provides physical or digital access to materials of interest for institution community. Library collection can include books, periodicals, newspapers, manuscripts, films, maps, prints, documents, microform, CDs, videotapes, DVDs, e-books, audiobooks, databases, and other formats. A university needs to maintain a multi-disciplinary approach catering faculty, students, researchers and staff. Digital collection is ideally suited to encourage and support both scholarly suited and practical research activities. The main collection is arranged in a sequence of classification numbers which is a means of grouping together books on the same and related subjects. The most common classification system "Dewey decimal classification" is in use here at KFUEIT library.

2. OBJECTIVES

Central Library of KFUEIT intends to play a vital role in achieving objectives of institution like study & teaching, research & extended services, and dissemination of information etc. in addition to departmental library services. We intend to serve our university community in the best possible way providing congenial environment endeavouring:

1. To get all information relevant to our university community then analyse and store it in a way that is preserving and easy to retrieve when demanded.
2. To provide required information in a useful manner.
3. To act as expeditor in provision of latest education and research related extended services for grooming of human Capital of University.
4. To be pivotal in university by acquiring and disseminating latest knowledge and information through effective acquisition and dissemination encompassing all the faculties and allied services and departments of university.
5. To continually develop our library, collection and resources, services and facilities through periodic interaction with library advisory board, soliciting feedback from university students and faculty.

3. RULES AND REGULATIONS OF CENTRAL LIBRARY OPENING HOURS:

Library remains open from 08:00 am. to 08:00 pm. (Except on Saturday / Sunday and gazetted holidays).

As university progresses, library timings may be changed on proposal of Chief Librarian and by approval of competent authority.

CIRCULATION DESK:

Issue / Return	08:15	to	19:45
Prayer Break (Friday)	12:45	to	13:30

4. ISSUE OF BOOKS (AUTHORIZATION)

The following categories of members shall observe the loan schedule mentioned against each.

Category	Number of Books	Days
Vice Chancellor Head of Departments/Professor (Senior management)	15 10	120 no. of re-issues: 01
(Faculty) Associate/Assistant Professor Lecturer Teaching Assistant/ Lab In charge Visiting Faculty	no. of books in ratio of teaching courses (2 books per course)	return date is semester end date (general reading books as per student borrowing policy)
Non-Faculty Members/ Staff Students (under/post grads)	2 2	14 - 21 14 - 21

Library fee (non-refundable)

Number of books for students will be increased as collection in library increases.

Number of days in inverse proportion to no. of books.

5. MEMBERSHIP AND LOAN PRIVILEGES:

- Membership of library is only for students and employees of University, which is granted on issuance of library membership card (University Card).
- A membership card will be issued to each member of the library. It is essential to bring membership card for borrowing books. The membership card should be kept securely. The member will be responsible for any book borrowed on his/her membership card or membership number.
- Membership card is non-transferable.
- Change of address / telephone number, or loss & theft of membership card must be reported to the library In charge/library staff immediately.
- University student/employee card is also membership card for Library.
- Reference books, newspapers and periodicals can only be used in the library.
- If any borrowed book is urgently required in library, it may be called back by the Librarian.
- Librarian may withhold or restrict circulation of any book in the library for specific purpose.
- Books will not be reissued on telephone or E-mail. The facility of re-issuance on phone or email may be extended to faculty only.

6. OVER DUE FINE:

- Rupees Ten (Rs. 10/-) per day per book will be charged as overdue fine.
- Reminders will be sent to faculty for return/renewal.
- Office assistant of each department for renewal and not-returned.
- Replacement cost if return overdue more than 01 year.
- Overdue fine must be deposited before end of semester otherwise membership will be suspended and fine will be deducted from university security of the member.

7. BOOK LOSS:

- Borrowers are responsible for safe return of all borrowed material to library at proper time.
- Book(s) lost, damaged, or mutilated in any way by a member have to be replaced or paid for as per local market price. If book is not available and current price cannot be determined from local market, then double of actual price as per record plus additional 25% as departmental charges will be paid by member. The books paid for will be written-off from stock register.

- The amount as cost of lost or damaged book(s) or material(s) will be credited to KFUEIT University Library's account. Book(s) or other material lost or found to be lost on stock-taking shall be put in library committee for approval to write-off + weed-out. (Open access ~ 3%)
- If any member leaves university without returning books borrowed from library, price of books(s) will be adjusted against his security/dues with university.
- In case a book, which is part of a set, is lost or damaged, borrower will have to replace full set or pay fine equivalent to current price of set + 25% administration charges.
- Borrowers are advised to check books at time of issue and in case of any defect/damage inform library staff.

8. GIFTS POLICY:

- Gifts will be accepted at discretion of university librarian. Following are guidelines for accepting any offer of gifts.
- Any material approved by library committee are welcomed which fall within scope of library's collection development policy if they are of academic value and if they contribute significantly to usefulness of current teaching and research collection of library.
- Library would not accept donations that duplicate existing stock, except in case of core reading list material, or any material that is out of date, or in poor physical condition.
- Donations will be accepted without obligations to donors and on understanding that upon receipt material will become property of university library.
- Library will determine most appropriate way to treat any donated material.
- Donations will normally be dispersed and items will be shelved with materials on same subject or in other sequence rather than kept in separate, discrete collections.
- Donated material will have same selection criteria as other library material.
- Library reserves right to dispose of any gift that seems unsuitable or unwanted.
- Low price editions in donation, distribute among students.

9. RESERVATION:

- A book required by a member, which is already issued, may be reserved.

10. LIBRARY CLEARANCE:

- Student, staff or faculty member leaving university permanently or proceeding on long leave will get clearance certificate from library. His/her final settlement of account shall be made by accounts office on receipt of clearance certificate from library.
- Visiting faculty will get clearance certificate from library at end of every semester. Their honorarium of last month of a semester will be released by accounts office on receipt of clearance certificate from library.

11. GENERAL RULES/INSTRUCTIONS:

- No personal belongings are allowed in to library. A special rack is available outside library to keep such things.
- Library staff will not be responsible for precious things kept in handbags, brief cases, etc.
- Readers are allowed to select books from stack. However, they are requested not to disturb arrangement of books in shelves.
- Books once removed from shelves must be placed at nearest table or counter. Reader while in library shall not receive any telephone call.
- Musical instruments not allowed in library. Zone wise
- Silence must be observed in the library. Zone wise
- Books, periodicals and newspapers are not to be marked with ink or pencil.
- Tearing out of pages or damaging reading material in any way is strictly prohibited.
- Students are not allowed to visit library without University Identity Cards.
- Any misbehavior, discourtesy or unwillingness to provide services by library staff shall be reported to Chief Librarian.
- A student/member, who infringes rules, shall be liable to disciplinary action.
- In case of violation, violator would be fined that could be Rs: 500/= to 5000/= as per the decision of Chief Librarian. (Fine as per zone, display in library)

12. WRITE-OFF LOSSES:

- Librarian shall report all books/non-book material damaged, and/or worn out through wear and tear to competent authority for write off.
- The competent authority may write off losses up to the extent of 3% per annum of the stock.
- Losses written off by the competent authority shall be struck off from the ledgers and the record shall be transferred to the withdrawal register indicating the authority under which the losses were written off.

13. STOCKTAKING:

- Stocktaking will be held 2-3 years. During stocktaking lending of books shall remain suspended. All books on loan with borrowers will have to be returned before date notified for this purpose.
- JOURNALS/MAGAZINES:
- Journals/magazines will not be issued. Purchase of impact factor journals will be done on request of HOD and after scrutiny by the Chief Librarian and library committee and approval of the Vice Chancellor.

14. EVENTS:

- Trainings will be held by Library for (Research scholars/Faculty on Turnitin, Endnote, SPSS, etc. on request of HODs. Exhibitions, Book Fairs, Seminars and Workshops.
- Orientations for new / fresh intake of students.
- Information Literacy Sessions (For each new academics).

15. RESEARCH WORK/ HEC DATABASES:

- All resources about research are available on HEC Website, some restricted databases may be purchased through IP.

- **RULES AND REGULATIONS OF DEPARTMENTAL LIBRARY**

All rules and regulations for central library will be equally applicable to departmental libraries except mentioned otherwise. .

- Only text books are available in departmental libraries. (Reference, recommended books in central library)

- **INTER-LIBRARY LOANS & AGREEMENTS**

Library will develop working relations with libraries in region and beyond. In case patron/member needs an item which is not available in KFUEIT library collection, library will attempt to borrow it from other library within the city/country through inter library loan agreement. (Cost by requester).

16. SERVICES**ACQUISITION:**

Following procedure will be adopted for the acquisition of library material.

Material will be selected in following way.

- Circulation of lists of books and catalog among faculty
- Demand from faculty on prescribed form duly signed by Head of the Department
- To acquire balanced and latest collection of books, different booksellers may be asked to send fresh arrivals on approval.
- Books selected by faculty will be kept in library and other not selected will be sent to the bookseller.
- Books required by thesis students (e-books, print)
- KOHA multilingual titles

If bulk purchase is needed, library can arrange a book fair by inviting different booksellers to exhibit their books for selection.

Faculty or course coordinators are required to send lists of new text and reference books duly approved by head of respective department at least 03 months before commencement of a semester.

If a list of required books catalog is sent to library by HOD, library after approval of Chief Librarian, will prepare list of selected books and get approval of Vice Chancellor for purchase. After formal approval purchase order will be placed subject to availability of funds.

17. CIRCULATION:

Circulation will be only from central library.

18. BOOK BANK:

A maximum of 5 different books may be borrowed.

Books shall be loaned for current semester only. All books shall have to be returned at end of semester irrespective of their date of issue.

Book rent shall be Rs.10 per day.

Fine on late fee of each book rent is RS.10 per day.

Damaged book will not be accepted.

Double price of book will be charged in case of lost or bring without stamped library book from market.

19. REFERENCE SECTION:

Reference material such as theses/ loose-leaf/publications/ non-printed such as CD-ROMs are for reference purpose only and will not be issued.

Never write, scribble or cut pages of library material/books.

Library staff is empowered to stop any unhealthy activity.

After consulting library material/book leave it on table.

20. DIGITIZATION OF RESOURCES:

Library will execute a plan to digitize resources. [As per material]

21. INFORMATION TECHNOLOGY SOLUTIONS

- LIBRARY MOBILE APPS**

Mobile apps are a real trend right now, as people have access to their mobile devices constantly. Also, people are spending more time within mobile apps and less time within mobile browsers. So why not connect with the members in a way they enjoy? University Library will develop a mobile app to extend the library's services outside their physical borders and facilitate the interaction with members.

- SELF-SERVICE PRINTING, COPYING, AND SCANNING SOLUTIONS**

It is common knowledge that the digital era has been directly affecting printing services. This is where libraries can be handy for people who don't want to keep a printer at their desk or in office. KHUEIT Library will offer a mechanism for printing on the go through a software. Members walk into the library and print, scan and copy documents without involvement of library staff.

- PROPOSED INFORMATION TECHNOLOGY SOLUTION (SECURITY)**

Library of Khwaja Fareed University of Engineering & Information Technology is entirely outfitted with proper understanding of latest hardware to automate its system. Our plan is to identify technologies used in Library Management System / Book Theft Control, Employee in Access Control System, Time Management Systems, Product Management and Assets Tracking based on latest technologies such as RFID, Barcodes, Magnetic and Biometrics. We are planning to adopt all type of hardware devices for Identification of latest methods for security of our Library System.

- EM SYSTEM**

The electronic article surveillance (EAS) electromagnetic system creates a low frequency electromagnetic field (fundamental frequencies between 70 Hz and 1 kHz are typically used) between two pedestals at an exit or checkout aisle. The field continuously varies in strength and polarity, repeating a cycle from positive to negative and back to positive. With each half cycle, the polarity of the magnetic field between the pedestals changes. In response to the changing magnetic field created by the transmitter, the magnetic field domain of the tag material abruptly "switches" as the field strength varies past a particular point, whether positive or negative, during each half of the transmit cycle. This abrupt change in the magnetic state of tag material generates a momentary signal that is rich in harmonics (multiples) of the fundamental frequency. Using electronic signal processing techniques, the system identifies that the harmonics are at the right frequencies and levels, and that they occur at the proper time in relation to the transmitter signal. If the criteria are met an alarm occurs immediately.

- **EM TAGS**

Library Management System can use the de-activatable and Permanent EM Strip Tags. They are self-adhesive and are suitable for any packaging or hard surfaces. De-activatable tags can be deactivated or activated by the units. De-activatable tags are mainly used for circulation. Permanent tags as the name implies, cannot be deactivated. They can be used mainly in our reference material.

- **ACTIVATOR/DEACTIVATOR**

It is designed to Activate (Sensitize) or Deactivate (Desensitize) the Library De-activatable strip tags attached to the library materials. Because Act/Deactivation force from the unit is directed towards the book, it will not interfere with any other electronic equipment nearby. The unit is a plug and play machine, so no technician needed to adjust or tune up the unit. The unit could be used on a desk top or placed in a slot made on the library counter.

- **RFID BASED ANTI-THEFT LIBRARY SECURITY SYSTEM**

Khwaja Fareed University of Engineering & Information places the highest importance to development of its library with a modern 21st century infrastructure and large collection of books and audio-visual resources. Basic tasks in library management include the planning of acquisitions of materials, arranging the acquired materials according to the library classification, de accessioning of materials and borrowing of materials. Among these, the proposed system can automate the following tasks using RFID technology:

1. Accessing number of books at a time
2. Searching a particular book to check its presence in the library
3. Identify the physical location of the book
4. Accounting/Stock verification of the materials

The RFID based system facilitates the fast issuance, re-issuance and returning of books with the help of RFID enabled modules. It directly provides the book information and library member information to the library management system. It also provides monitoring and searching system. The monitoring module continuously monitors the movement of books across the gates, so that the books taken out without prior issuance will be traced out easily and will alarm the librarians. The searching module provides the fast searching of books using RFID handheld reader. The physical location of the books can be easily located using this module. We at KFUEIT look to deploy this state-of-the-art technique at our library.

Following features can be implemented in the Library using RFID technology:

1. To remove the manual record keeping of books
2. Identify of books and library members as they move
3. Improved utilization of resources like manpower, infrastructure etc.
4. Less time consumption as line of sight and manual interaction are not needed for RFID-tag reading.
5. To provide two meters read range antennas
6. To minimize the manual intervention
7. To minimize the manual errors
8. To provide the long lasting labels
9. To provide fast and relevant searching of books

22. LIBRARY PROMOTION

This is commonly said that 10% is what you possess while 90% goes how you present it. Library activities will remain in dark if not properly advertised and circulated. In this regard, promotional activities will be encouraged. This will be accomplished by formulation of pertinent mechanisms through which university community will be informed about the resources and services available in library and resource center. Schedule of planned activities will also be disseminated through these mechanisms for publicity and information. Faculty, students and staff of the university may not be aware or familiar with the resources, services and working routine of the library. Orientation sessions will be planned and delivered by library staff and through Office of Director of Student Affairs and individual departments. This activity may be requested any time by a department and must be conducted at start of every session.

23. FRIENDS OF LIBRARY

Friends of Library is an initiative proposed by Library Committee. These student members will join library at beginning of each regular academic year and will remain attached for 12 months. Friends of library will be selected from among the students (undergrads) and preference will be given to students of later semesters over early semester. Friends will be volunteers helping with important tasks and projects like dissemination of library information, introduction of resources and services available in library, procedures and working of the library, etc. They will also be handy in case of holding activities like lectures, workshops, book fairs, seminars, etc. arranged by library. Friends will also help attract attention of general public on library services and advocate support and generate execution of its activities. They will promote programs and generate cultural activities for the involvement of university community.

Friends of library will have number of privileges from their membership. They could have advanced registration for activities planned by library, discounts on events (trainings, workshops, seminars, etc.) arranged by library. Friends will be awarded a certificate at the completion of their attachment signed by Chief Librarian.

24. STUDENT LIBRARY ADVISORY BOARD (SLAB)

Chief Librarian suggests to introduce an advisory board comprising students (MS/PhD) of the university. This is envisaged that student library advisory board (SLAB) will help to attract the students for utilization of library and its resources. As of today more and more resources are getting digital, and electronic access is getting more common. Potential users of library today are more interested to get access to all the resources on their hand held devices. This compels library to redefine its physical arrangement providing spaces and services to keep attraction of students. SLAB may be helpful in this regard. Members of SLAB coming from the student community can be most relevant resource to develop library to meet the needs of students as desired by the students themselves. SLAB student members will offer suggestions for changes in the library for generation of interest in utilization of library resources and events arranged by library. SLAB will also be an effective tool in developing management responsibilities, team work, volunteer services and inspiration to work for common causes.

SLAB will consist of one student member from each department. Membership will be for one year. President of the board will be elected by members with simple majority and decisions will be through simple majority. President of SLAB will be member of the University Library Committee.

25. UNIVERSITY LIBRARY ALUMNI FORUM

As the first cohort of students graduate, University Library Alumni Forum will be activated wherein life membership will be awarded for Rs.1000/-. Members will be entitled to the benefits similar to those they left enjoying as the left the university (undergrad/postgrad/faculty/staff).

26. UNIVERSITY FAREED FORUM

KFUEIT carries its name from the greatest Sufi poet and scholar of the region. In order to keep his message alive and extend tribute to the great scholar, a virtual forum is proposed which will plan, organize and execute activities under the banner of "Fareed Forum". The forum will provide a platform for dissemination of intellectual, scholarly and professional opinions. Forum will actively explore into contemporary issues whether domestic or international, religious or secular, scholastic or educational.

Composition of the forum will be proposed by the President of the University Library Committee and approved by the competent authority, i.e., the Vice Chancellor. Membership of the forum is purely honorary and there are no financial benefits involved except travel and lodging for external members for participation in the activity when arranged by the forum. External expert member will be selected by the university members in the forum for one year and will be Chairman of the forum. President of the University Library Committee will be Co-Chairman of the forum. University members will be nominated for three years. Forum will plan in advance up to four activity days per calendar year. In each regular semester (Fall & Spring), two activity days will be arranged, one in each half of the semester. Activity dates and times will be finalized in coordination with university societies and Director Student Affairs (DSA).

27. UNIVERSITY LIBRARY COMMITTEE

University Library Committee (ULC) constitutes an independent body separate to the library administration. President (head) of the ULC will be nominated by the competent authority, i.e., Vice Chancellor for four years or tended period of time as to the discretion of the competent authority. Keeping in view the representation and involvement of each department, ULC may be reconstituted by the competent authority on proposal of President University Library Committee.

1. Role of ULC is supervision of routine library functions.
2. ULC will make recommendations on the policy matters including but not limited to requirement of staff and accessories for library, library budget, and department wise allocation of library budget.
3. ULC will also allocate department budget in respect of books, journals, furniture and fixtures, etc.
4. ULC will also decide on working hours of the central and departmental libraries.
5. Selection of books, journals and other library material will be put in ULC for perusal.
6. President of the ULC will put recommendations of the committee for final approval of the competent authority of the university.

28. CONSTITUTION

The University Library Committee shall consist of the following members, namely

1. A senior teacher (Assistant Professor or above) to be nominated by the Vice-Chancellor (President)
2. One teacher from each department to be nominated for three years by the Vice- Chancellor on recommendation of the chairman (Member)
3. The Treasurer, Ex-Officio Member
4. The Registrar, Ex-Officio Member
5. Director Procurement, Ex-Officio Member
6. Chief Librarian, Member
7. The Librarian (nominated by the Chief Librarian), Member/Secretary
8. President SLAB, Student Member

29. QUORUM

The quorum for the meeting of ULC shall be one half of the total number of regular members.

30. TERM OF OFFICE

The nominated member of the ULC shall hold office for three years i.e., from 1st July to 30th June provided that a person nominated to fill a vacancy shall hold office for the un-expired term of office of the person whose place he/she takes.

31. MANAGEMENT OF THE LIBRARY

Management and control of the library as regards placement of staff and delivery of services rests with the Chief Librarian.

1. Chief Librarian is solely authorized and responsible for implementation of the rules, regulations and policies of the library.
2. Chief Librarian is directly responsible and authorized to deliver services of the library through library staff.
3. Chief Librarian is solely authorized to allocate duties of the library staff.
4. Chief Librarian will furnish performance evaluation reports as and when required by the competent authority.
5. Chief Librarian will be responsible for selection of books, journals, etc. through appropriate ways and means to his discretion.
6. However, all the selections will come in the ULC for perusal and final recommendations for the approval of the competent authority.
7. Chief Librarian will present recommendations as per policy of the university library for de-accessioning of books, journals, and other materials for approval of the ULC.
8. Budgetary allocations and approval for direct/urgent purchases of library material will be authorized by the competent authority to the President ULC or Chief Librarian as to the discretion of the competent authority.

32. LEARNING RESOURCE CENTER (ADAPTING TO THE NEEDS OF HOUR)

Library today is not just a collection of books in print and journals. They are now-a-days resource centers providing all the required information and services for an institute combined at a single platform. Library today is described as Learning Resource Center (LRC) that is a central point around which all the university activities revolve. University calendar, admission notices, tenders and advertisements, examination notices and results, etc. are all advertised through LRC. We also intend to develop LRC on the lines to become central for provision of teaching and learning aid resources for the faculty and students. Here at KFUEIT intends to develop a centre that is all inclusive for provision of resources and services. In order to accomplish this target and to adapt to the current trends in information services, we propose to convert Library to Learning Resource Center (LRC).

Adaptation of the transition in regards to nomenclature, positions and titles, qualifications and responsibilities as envisioned are attached at Annex-I for perusal and approval of the academic council.

33. REFERENCES

In preparation of this document, websites of following universities were extensively consulted.

- University of Engineering & Technology, Lahore
- RIPHAH International University, Islamabad
- National University of Science and Technology, Islamabad
- Institute of Business Administration, Karachi
- Aga Khan University, Karachi

FEE REGULATIONS**1. PERIODS OF FEES AND OTHER CHARGES**

- a. Semester dues i.e. Tuition fee and other charges are payable before beginning of Semester i.e Fall or Spring.
- b. Extra Fee shall be charged based on "Credit Hour" for all the subjects studied during Summer Semester OR in regular Semester for course improvement as prescribed in fee schedule.
- c. The hostel charges include, Rent and Electricity are payable for the period of occupation, a part of term/semester shall be counted as full term/semester. Furthermore, Electricity charges for room heater/cooler will be charged separately.
- d. Due date of fee submission for upcoming Semester shall be announced 30 days before the Final Term Examination of current semester.
- e. Fee/Dues need to be deposited in Cash or Cheque directly in any branch of the designated bank.
- f. Students are supposed to submit copy of paid fee challan in Finance Department and their respective department.

2. ENROLMENT IN A SEMESTER

For existing students, each department shall enrol their students before commencement of classes after ensuring that copy of paid fee voucher is attached to the enrolment form of that particular semester.

3. SEMESTER FREEZING AND RELEGATION CHARGES

- a. 1st semester cannot be frozen. However, students may apply for freeze of semester after completion of 1st semester.
- b. Maximum two semesters can be frozen for 4-year program and one semester for 2-year program.
- c. Students can apply to freeze of their semester(s) before the date of commencement of classes.
- d. Students freezing their semester(s) shall pay freezing charges per semester as prescribed in fee schedule. However, upon joining the next junior class they shall continue to pay semester fee as regular students along with the next junior session.
- e. Student may apply for refund of his/her semester fee (if paid) of the semester being frozen. However, fee will be refunded according to HEC guidelines on fee refund.
- f. If a student has applied to freeze one semester, he/she will be considered as unfrozen in next semester. Separate application will be placed if he/she wants to freeze the next semester. He/she will be considered as suspended if continuously absent for 30 days without any prior intimation to concerned department/Registrar.

4. REFUND OF SECURITIES

- a. All type of refundable securities i.e. University security, library security, hostel security and Mess securities are only refundable upon successful completion of relieving and its relevant administrative approval for University security and upon assuring the deduction of outstanding dues in case of Mess securities/ Library Security/ Hostel security etc. (if any) accordingly.
- b. Furthermore, the amount of security is refundable within three years of the date of application received for security refund.

5. REFUND ON ADMISSION CANCELLATION

The University Fee or security (refundable only), library security, hostel security and mess securities are refunded when a student cancels his/her admission before completion of his degree. In addition, Admission/ Readmission fee paid at the time of admission/readmission is non-refundable and tuition fee would be refunded as per National Refund Policy issued by Higher Education Commission, Islamabad and the same policy is applying on transport, internet, research, and semester charges. A student must pay his/her university dues (instalments if any) before getting clearance from finance department otherwise he/she shall not be eligible to claim his/her refund.

- a. Admission fee paid at the time of admission is Non-Refundable.
- b. 100% of remaining fee is refunded if application for admission cancellation is received up to 7th day of convening of classes or registration in the department (whichever is later).
- c. Refundable security and 50% of remaining elements of fee will be refunded if application for admission cancellation is received from 8th to 15th day of convening of classes or registration in the department (whichever is later).
- d. Only refundable security will be refunded if application for admission cancellation is received from 16th day onward from the day of convening of classes or registration in the department (whichever is later).

Fees and Funds (University and departmental) of a student are transferable to any other Department of University subject to the approval of Vice Chancellor, Admission Committee.

Dues are not refundable in case of cancellation of admission on the basis of (i) misstatements, (ii) incorrect information, (iii) concealment of facts, (iv) fake certificates and (v) use of any other Unfair means from student's side.

6. INSTALMENTS

Instalments are allowed for all semesters except 1st semester. "Instalment Committee" shall review the instalment cases and refer to the Finance department. Due Process is as follows:

- a. A student shall place his/her application for instalment to Instalment Committee NOT later than due date of submission of semester fee.
- b. Instalment Committee shall analyse the request and approve/disapprove the case accordingly.
- c. Instalment Committee may recommend the number of instalments and due date of each instalment.
- d. Members of Instalment Committee may include any two of:
 - I. Member from Finance Department
 - II. Member from Scholarship Department
 - III. Member from Registrar Department

7. FINE WAIVER

- a. Fine per day shall be charged after due date of fee voucher as prescribed in fee schedule.
- b. Applications for waiver of fine shall be reviewed by Instalment Committee to judge the genuineness of applicant's reason for inability to pay off the said dues.

8. COURSE IMPROVEMENT

The students who wish to improve any subject must give application to the concerned department before commencement of classes. The concerned department will send the list of these students with their registration numbers, name of courses and credit hours of those courses to finance department (after checking for their credit hours availability, clash of course timings etc.) for issuance of fee voucher. The fee shall be charged on per credit hour basis as prescribed in fee schedule. Any application received after the commencement of classes shall NOT be entertained by the concerned department. The concerned department will make sure that copy of paid fee challan is attached with the course enrolment form.

9. SUMMER SEMESTER

The students who wish to take any subject in Summer Semester must give application to the concerned department before commencement of classes. The concerned department will send the list of these students with their registration numbers, name of courses and credit hours of those courses to finance department for issuance of fee voucher. The fee will be charged on per credit hour basis.

Any application received after the commencement of classes will NOT be entertained by the concerned department. The concerned department will make sure that copy of paid fee challan is attached with the course enrolment form.

10. MIGRATION FEE

- Any student migrating to KFUEIT from any other HEC recognised university will have to pay for the exempted courses on Rs. 1,000/- per credit hour basis. Additionally, he/she will also pay the current semester fee.
- Any student migrating from KFUEIT to any other university will have to pay Rs. 5,000/- for NOC before migration.

11. REINSTATEMENT FEE FOR ABSCONDING STUDENTS

- a. If a student fails to register for classes before the end of fourth week of a regular semester (Fall/Spring) or continuously absent from classes for 30 days or more in a regular semester (Fall/Spring), without information and approval of the HOD, admission of such a student will be suspended automatically.
- b. Such a student may only be reinstated to continue studies at the University on the recommendation of the HOD and approval of the Dean of the Faculty, subject to payment of prescribed reinstatement fee which shall be equivalent to the admission fee enforced at the time of reinstatement. All outstanding dues are also to be cleared by the student before the reinstatement. If a student is absconder for one semester or more and applies for reinstatement, he will be liable to pay per semester absconding charges as prescribed in fee schedule for the semesters in which he/she was absconded.

12. RE-ADMISSION FEE FOR SEPARATION DUE TO PROBATIONS

- a. A student may get probation due to lower CGPA (lower than 2 in undergraduate program & lower than 2.5 for graduate program) in two consecutive semesters. Such a student may only be reinstated to continue studies at the University on the recommendation of the HOD and approval of the Dean of the Faculty, subject to payment of prescribed reinstatement fee which shall be equivalent to the admission fee enforced at the time of reinstatement.
- b. Re-admission will be allowed only once during the period of study.
- c. Course improvement charges will be applicable as prescribed in fee schedule for that specific semester/year.

13. FEE REGULATIONS FOR MS/M.PHIL STUDENTS

- a. If student fails to take the thesis due to less than 2.5 CGPA, he/she will not be liable to pay third semester fee and continues to pay per credit hour charges for improvement of courses as prescribed in fee schedule.
- b. However, after improvement of courses with the required 2.5 CGPA, he/she will be considered to take thesis with all the regular Semester fee charges.

HOSTEL REGULATIONS

1. SHORT TITLE

These regulations shall be called the Khwaja Fareed University of Engineering and Information Technology, Rahim Yar Khan Hostel Regulations 2019.

2. COMMENCEMENT

These Regulations shall come into force with immediate effect.

3. APPLICATION

These Regulations shall apply to all resident students of the University.

4. PREAMBLE

As the university hostel life is one of the key elements of liberal arts education as it is a critical part of the total university experience. It provides a good living and learning community for students. Its experience prepares a better transition for young adults to emerge from protected teenagers into intellectual individuals and future leaders. Students will learn independence, interpersonal skills, sense of community and responsibility through living with roommate(s), floor mates, and community life in hostels. Hostel is a place where students find self-identity, unity, friendship and generosity. Everyone in the community contributes to the common good, to take responsibility and to console and support one another in difficulties. As the Khwaja Fareed University of Engineering and Information Technology is newly established university, to facilitate the students coming from surrounding of Rahim Yar Khan and across the country hostels have been arranged for male and female students. Hostel affairs are managed by a competent and dedicated team of full time staff, available round the clock.

In addition to the messing, TV room, study hall, mosque, indoor games hall, internet accessibility, Tuck shop and other essential utility services are available to the residents.

5. ADMISSION TO HOSTEL

There are separate Halls for male and female students in the University Hostel setup. The Warden Hostels and Resident Tutors shall manage the Hostels. The Hostel is open only to the bonafide students of the University. A resident student is bound to abide by the following regulations and to such other regulations that may be notified from time to time:

- a) Application on the prescribed form / online application form for allotment of space in the Hostels shall be submitted to the Warden Office one month before the final exams of running semester. Newly admitted students should submit the prescribed form / online application form at the time of admission.
- b) Hostel accommodation shall be provided only to the bonafide students of the University subject to availability. Hostel accommodation will be allotted to outstation students who get admission in any academic program of KFUEIT. If any local student (living in Rahim Yar Khan/Sadiq Abad/Khanpur, etc.) applies for hostel accommodation, his/her request may be considered after accommodating the outstation students.
- c) Vice Chancellor/Warden Hostels may refuse admission or eject any student if he/she is satisfied that he/she is not a desirable person to live in the Hostel.
- d) Warden Hostels shall allot the Hall whereas room within the Hall shall be allotted by the Resident Tutor in order of seniority and merit, which will be determined in relation to the year of the study and marks obtained/GPA/CGPA and distance of domicile city.
- e) Resident student shall deposit Hostel dues within specified period and submit deposit receipt in the office of Resident Tutor. Allotment list of residents shall be provided to Warden Office after the 15 days of allotment.
- f) While making semester wise allotment of seats in the Hostels, Hostel authorities shall take into consideration the conduct and character of a boarder. Those having been imposed penalties on disciplinary grounds, shall lose their seniority.
- g) No boarder is allowed to change his/her room without prior permission of the Hostel authorities.
- h) Students spending more than the prescribed regular period for the course shall be accommodated subject to availability of seats.
- i) Halls shall be open to students only when the University is engaged in Regular Classes / Examinations / Zero Semester / Summer Semester. However, postgraduate students involved in research may be allowed to stay in Halls by the Warden Hostels on the recommendations of concerned Supervisor, Chairman of the Teaching Department and Dean of the Faculty, subject to enrolment.

6. HOSTEL DUES

- a) Hostel dues and security deposits, as determined and revised by the University from time to time, are payable by the student in each regular / summer / zero semester.
- b) Hostel dues once paid shall be refunded after deduction as per deduction rules i.e. 10% deduction in fee if applied before allotment and 30% deduction in fee if applied after allotment but within 30 days.
- c) Hostel allotment of a student shall stand cancelled, if he/she fails to pay Hostel dues within specified period. However, such a student may seek re-admission in the Hostel as admissible under the rules.
- d) A list of students shall be forwarded to Finance Department by the Warden Office for issuance of Hostel Fee Challan which shall be uploaded on KFUEIT official website (www.kfueit.edu.pk) by IT Department.

7. MESS / CAFETERIA / FRUIT SHOP

- a) The mess shall be managed by the resident students and supervised by the Resident Tutor.
- b) There shall be time to time supervision of mess hygiene and food quality by the respective Resident Tutors.
- c) There shall be a register in which the remarks relating to food quality will be entered on the basis of routine supervision.
- d) Nobody other than a resident student shall be allowed to be a mess member. A day scholar may become a mess member with permission of the concerned Resident Tutor who will ensure the payment of mess dues.
- e) Resident Tutor shall nominate Mess Manager/Mess Committee out of resident students for one semester.

- f) Mess Manager/Mess Committee shall be responsible for proper running of the Mess and cleanliness of the kitchen, utensils and Dining Hall including its surroundings.
- g) Residents shall not be allowed to take crockery and cutlery to their rooms.
- h) Meals shall be served only in the Dining Hall. No service shall be provided in the room(s).
- i) Dining Halls shall remain open daily during specified hours as prescribed by Resident Tutor for each meal.
- j) Residents attending the Dining Hall, Common Room, T.V. Room and other public places shall be in proper dress.
- k) Smoking is strictly prohibited in the Mess and its premises.
- l) Students must settle their accounts with mess/cafeteria/fruit shop etc. every month regularly. Arrears if any, shall be recovered from the students at the time of enrolment of each semester. A resident student shall not be allowed to enroll without getting clearance from Resident Tutor.
- m) If a student leaves Hostel after qualifying for a degree without the settlement of dues, outstanding amount shall be recovered at the time of issuance of provisional certificate/degree etc. by the Controller of Examinations.
- n) No resident student shall be permitted to have private cooking arrangements in the Hall.
- o) No political / religious / social gathering shall be allowed in the cafeteria and its premises.

8. GENERAL REGULATIONS

- a) Roll of resident students shall be checked by Resident Tutor and entrance record of hostel residents, daily at specified hours as prescribed by Warden Hostels.
- b) A resident student shall be responsible for the articles (Charpai / Cot, Trunk etc.) issued to him/her and shall return these articles when leaving the Hostel. He / She shall also be responsible for any loss or damage to these articles.
- c) Resident students must treat Hostel staff politely. The Hostel staff shall not render any private service to any student. Misbehaviour with the staff shall be treated as a serious offence. Complaints regarding misbehaviour of the Hostel staff should be reported to the Warden Hostels.
- d) Telephone provided in the Hostel shall be used only for receiving calls.
- e) Outdoor games shall not be allowed in the Hall's premises but indoor games shall be allowed only in specified hours as prescribed by Resident Tutor.
- f) The allotment of a student who remains absent from the Hostel without prior permission for a period of one week shall be cancelled. However, he/she may seek re-admission as admissible under the rules.
- g) No meeting of any kind (political/religious/social etc.) shall be allowed in the Hostel and its premises without prior permission of hostel authorities. Moreover, any activity / planning anywhere but having influence on the hostel is also prohibited.
- h) Every part of the Hostel shall be freely open to the Hostel authorities for inspection at any time.
- i) No boarder shall indulge in any amusement that may disturb other boarders.
- j) Resident students shall be allowed to use computers only for academic purposes. If hostel authorities find any students involved in cybercrimes, the hostel authority may report the said resident to the Federal Investigation Agency (FIA). Cybercrimes include the misuse of Internet such as others personal video/picture uploading, hacking personal data/account and immoral/unethical SMS/MMS.
- k) No electric appliance (electric heater, electric rod, electric kettle, air cooler, air conditioner, T.V., cassette / C.D. player, musical instruments and exhaust / pedestal fans etc.) other than electric light and ceiling fan shall be used in the Hostel. The use of electrical appliances shall lead to confiscation of the appliance along with a fine to be decided by the Hostels authorities. However, permission may be sought for the use of air cooler and exhaust / pedestal fan from the Hostels authorities on payment of extra charges to be prescribed by University authorities.
- l) All electric articles must be switched off before leaving the room. Leaving the room with electric appliance switched on shall be an offence punishable with fine.
- m) Firearms and other weapons and prohibited literature shall not be allowed to be kept / used in the Hostel.
- n) Residents shall not be allowed to gamble or to use any intoxicants and narcotics. Violation of this restriction shall render a resident liable to expulsion from the Hostel, in addition to any criminal proceedings that may be initiated against him under the Penal Law of Pakistan.
- o) Residents shall be responsible for keeping their rooms neat and tidy. They shall not dispose off litter in the verandahs or other parts of the Hostel premises.
- p) No notice / banner / advertisement etc. of any kind can be displayed in Hostel and its premises without prior approval of Hostel authorities.

- q) Defacing walls and fixtures shall be strictly prohibited.
- r) Boarders shall be required to observe necessary precautions for the safe custody of their belongings/valuables. They must not leave their rooms unlocked. In case of theft, Hall administration shall not be responsible for any loss.
- s) All cases of sickness must be reported to the Resident Tutor for necessary help.
- t) Female resident shall not leave the campus / hostel without the written permission of the Resident Tutor.
- u) Permission to allow resident students to keep two-wheeler/four-wheeler is generally dissuaded but in exceptional cases permission can be granted by the Vice-Chancellor of the University in the request of the parents if security norms are fulfilled. Boarders who are granted permission for keeping two-wheeler/four-wheeler are required to obtain security clearance from CSO of the University for that purpose. Certified copy or x copy of following documents are required to be submitted for permission of two-wheeler/four-wheeler.
 - a. Ownership along with Registration No.
 - b. Validity and fitness certificate.
 - c. Insurance Certificate if any
 - d. Driving License of the individual.
 - e. Helmet / seat belt for safety
- v) Parking of vehicles inside the Hostel Campus is strictly forbidden. Parking of permitted two-wheeler/four-wheeler shall be done only in the notified area.
- w) All residents shall submit "Security Clearance Certificate" issued by the Registrar Office/Warden office, uploaded on KFUEIT's official website (www.kfueit.edu.pk/department/hostel), before allotment. List of all resident shall be verified from the Registrar office who submitted the "Security Clearance Certificate" at the time admission.
- x) Smoking is strictly prohibited in the hostel and its premises.
- y) Boarders should avoid taking meals or any edibles from outside for hygienic and safety reasons in the wake of increasing cases of food poisoning etc.
- z) Residents are forbidden to keep/store, lathi, rod, knives, bolder, cracker or fire arms whether in room or anywhere in hostel. Strict disciplinary action shall be taken against the erring resident if noticed or bound during the visit of Resident Tutors, Warden Hostels, CSO, SO or any other authority of university.

9. VISITORS

- a) Rights of admission to the Hostel premises are reserved.
- b) All visitors of Boys Hostels must leave the Hostel at specified hours as prescribed by Warden Hostels.
- c) Parents / authorized guardians of the resident student(s) are allowed to see the student only in visitor room of Hostel during visiting hours.
- d) No female visitors are allowed to enter the Boys Hostel under any circumstances and no male visitors are allowed to enter Girls Hostel.
- e) No outsider shall be allowed to stay in the Hostel. Violation of this rule shall render the boarder liable for expulsion from the Hostel and/or any other penalty which the Warden Hostels may deem fit. The outsider found staying / residing in the Hostel shall be handed over to the Police.

10. DISCIPLINE

Resident are required to maintain discipline in the Hostel.

11. SECURITY OFFICE

There shall be a security office, headed by a security official appointed by Chief Security Officer. The Security Office and all security staff shall work under the general direction of the Warden Hostels.

12. DISCIPLINARY CONTROL

- a) Every boarder living in the hostel shall be subject to the disciplinary control, primarily of the Resident Tutor and in the absence of the Resident Tutor, the Warden Hostels or any other officer authorized in this regard.
- b) There shall be Hostel Disciplinary Committee consisting of the Warden Hostels as president and resident tutors as member thereof.
- c) Where a hostel resident(s) is found involved in a case of indiscipline in the hostel, he shall be dealt with strictly.
- d) Any contravention or violation of Rules shall be subject to punishment provided in Appendix-1.

CONDUCT OF INQUIRIES

- a) In cases of any student violence/clash/unrest etc. inside the hostel premises - the inquiry shall be conducted by the respective Resident Tutor and report to be forwarded to the office of the Warden Hostels.
- b) In case of any student violence/clash/unrest outside the hostel but within the campus- the case shall be forwarded to Student Disciplinary Committee of University.
- c) In case of inter-hostel violence/clash/unrest- the inquiry shall be conducted by respective Resident Tutors and report to be forwarded to the office of the Warden Hostels.
- d) Serious cases of indiscipline shall be brought to the notice of the Vice Chancellor also.

14. JURISDICTION OF AUTHORITIES

All cases of indiscipline in the hostel shall be dealt with by the Hostel Warden. He shall be competent authority to impose penalties subject to the quantum and conditions prescribed in Appendix-I (Maintenance of Hostel Discipline) of the Hostel Rules.

15. POWER OF INQUIRY FROM RESIDENTS

Any authorized person of the University shall have the power of demanding from the residents their identity cards and such other information as may be desired by the aforementioned persons concerned. Residents failing to provide the concerned information, shall be liable to disciplinary action vide Appendix-1.

16. APPEAL

A resident who has been subjected to any punishment by the Hostel Authorities or other authorized officer may within two weeks of the order imposing punishment appeal to the Vice-Chancellor. The Vice-Chancellor, after being satisfied may pass necessary order in the matter. The decision of the Vice-Chancellor shall be final in the matter.

17. INTERPRETATION

If any question arises regarding the interpretation of these regulations the matter shall be deliberated by the administration consisting of Registrar, Deans and Vice Chancellor and their decision thereon shall be final.

18. REMOVAL OF DIFFICULTIES

If any difficulty arises in giving effect to any of the provisions of these Regulations, the Vice Chancellor in individual cases may take such decision, not inconsistent with the spirit of these Regulations as may appear to necessary for the purpose of removing the difficulty, provided that such a decision is not ultra vires of the Khwaja Fareed University of Engineering & Information Technology, Rahim Yar Khan Act 2014.



Appendix-1

Maintenance of Hostel Discipline Without prejudice to the generality of the foregoing provisions "indiscipline" and "misconduct" in the hostel shall include the following and if the allegation of indiscipline/misconduct against a resident student is found correct, he will be liable to disciplinary action as indicated below or listed in general regulations:

Indiscipline in the Hostel:		
Sr. No.	Acts	Punishment
1	Act of ragging in the Hostel	Rustication from the University and/or an FIR with the police authority.
2	Leaving the hostel over-night without obtaining prior permission in writing.	Warning and on repetition of this thrice, the resident shall be expelled.
3	Irregularity in attendance in hostel and default in payment of Hostel dues.	do
4	Accommodation of unauthorized guest in the hostel room.	do
5	Failure to inform about the number of guests during grand feast.	do
6	Failure to accept the membership of the Mess Committee intentionally.	Imposition of fine at the discretion of Resident Tutor.
7	Taking meals frequently from outside while residing in the hostel.	A fine of Rs. 500/- at least on each occasion.
8	Holding political / religious meeting with outside bodies whatsoever in the hostel.	Warning by the authorities and imposition of fine up to Rs. 3,000/-. Two such offences shall result in expulsion
9	Organizing games, sports other programs etc. without informing the Resident Tutor.	Imposition of fine as shall be decided from time to time by Resident Tutor.
10	Playing of music or musical instruments.	do
10	Use of air conditioner, electric heater etc.	Warning by the authorities and imposition of fine up to Rs. 1,000/-. When such mistake is repeated twice the resident shall be expelled.
11	Change of seat in the Hostel without prior permission of the Resident Tutor.	do
12	Entertainment of guests/outsider without written permission of the Resident Tutor.	Warning by the Resident Tutor with a fine up to Rs. 1,000/-. Two such offences shall result in expulsion.
13	Smoking/chewing of Pan Masala/Gutka/ Tobacco/drinking or any others.	Rs. 2,000/- maximum up to three occasions subsequently expulsion from the hostel.
14	Damage in any form to the hostel property.	Recovery of the actual loss, apart from the punishment as decided by the Warden Hostels or the recommendation of Resident Tutor.
15	Remain in the hostel during the class hours without any prior permission.	Warning by the appropriate authority. In case of repetition of such act thrice the resident may be suspended from hostel pending inquiring in the matter.
16	Any other indiscipline act in hostel and its premises	Fine Rs. 10,000/- maximum and/or issuance of warning letter by Warden Hostels, according to the situation.
17		
Mis-behaviour in the Hostel:		
1	Manhandling or physical assault of any Hostel or mess staff	Suspension from hostel, pending inquiry. The Punishment at the discretion of hostel disciplinary committee.
2	Manhandling, assault or betray of any one in the Hostel premises.	do
3	Removing any furniture or fixture of the Hostel without permission.	Rs. 1,000/- fine on each occasion. Repetition of this thrice shall result in expulsion from the hostel.
4	Abuse of drugs/indulgence in intoxicants.	Expulsion from the Hostel
5	Keeping arms and other contraband material etc.	do

STUDENT SOCIETIES / CLUBS REGULATIONS

1. SHORT TITLE

These regulations shall be called the Khwaja Fareed University of Engineering & Information Technology (KFUEIT), Rahim Yar Khan Student Societies / CLUBS Regulations 2019.

2. COMMENCEMENT

These regulations shall come into force at once on approval by the Vice Chancellor.

3. APPLICATION

These regulations govern the Creation and Operation of Student Societies and Clubs at the Khwaja Fareed University of Engineering & Information Technology (KFUEIT), Rahim Yar Khan.

4. PREAMBLE

Co-curricular and extra-curricular activities play a vital role in the academic and social life of students. Such activities admittedly invigorate a healthy relationship among the students and develop a sense of co-ordination in the living-learning processes of the students, faculty and administration. These activities are vital for the physical, social and psychological growth of students. Since the Student Affairs Department provides proactive support and capacity building services to promote co-curricular activities in the University which could enrich our graduates at every stage of their life as well as to help them to build strong relationships with their peers, faculty, administration and other stakeholders with the following aims and objectives:

- i. to enhance the creative potential of the students
- ii. to expose the hidden talents of the students
- iii. to induce and stir a sense of love, altruism and service to the humanity in the students
- iv. to prepare the students to face the challenges of practical life
- v. to inculcate in students the spirit of healthy competition
- vi. to prepare the students for future challenges in the global context
- vii. to keep the students away from unwanted/undesirable associations/activities
- viii. to promote teamwork among the students
- ix. to give them a sense of responsibility and ownership
- x. to inculcate leadership potential in students

Therefore, for the smooth functioning of the student societies/clubs, their formations, functioning, responsibilities needs proper Regulations, which are provided in the following.

5. STUDENT SOCIETY ORGANIZATIONAL STRUCTURE

Each student society/club will consist of a faculty member as its mentor and students as members. Member students will elect a cabinet composed of the following members:

- i. President (must be a student)
- ii. Vice President (one each from male and female students)
- iii. General Secretary
- iv. Assistant Secretary (one each from male and female students)
- v. Secretary for Finance
- vi. Secretary for Media and Public Relations
- vii. Five members

Members of the cabinet shall be elected from amongst the members of the Student Society/Club for a period of one academic year.

For the purpose of the elections, the Advisor/Mentor shall act as the election commissioner.

However, if required and after the approval of Competent Authority, a society may have its own constitution setting out the aims and positions of office bearers.

6. RESPONSIBILITIES OF THE CABINET MEMBERS

a. THE ADVISOR/MENTOR

Each society/club would be headed by an Advisor/Mentor who would be a faculty member.

b. THE PRESIDENT

The President of a society would be responsible to look after the business of his/her society.

He/she would be responsible to his/her Advisor/Mentor and chalk out activities in compliance with the academic calendar/schedule.

c. THE VICE PRESIDENT

The Vice President would act as President in the absence of the President of a student society/club, on the recommendation of the concerned Advisor/Mentor.

d. THE GENERAL SECRETARY

The General Secretary would keep a proper record of all activities, attendance of the cabinet and general members, minutes of the meetings etc. The General Secretary of a Society would submit a copy of attendance to the Directorate of Student Affairs after each meeting. All record must be properly submitted to the Directorate of Student Affairs on the completion of the term of the cabinet or earlier.

e. THE ASSISTANT SECRETARY

The Assistant Secretary would perform duties as General Secretary in the absence of the General Secretary on the recommendation of the concerned Advisor/Mentor.

f. THE SECRETARY FOR FINANCE

The Secretary for Finance would be responsible for financial matters of a society and prepare a case in advance for approval for any activity. He/she would also be responsible for the adjustment of the amount within a week after holding of event and submit the case to the Directorate of Student Affairs through the Advisor/Mentor of the concerned society/club.

g. THE SECRETARY FOR MEDIA AND PUBLIC RELATIONS

The Secretary for Media and Public Relations of each society would coordinate with Public Relation Officer (PRO) of Central Organizing Committee. He/she would send an advance press release/report to PRO for onward submission to the concerned quarters. He would keep a proper record of reports, press cuttings etc. related to students' activities and send a copy of the report to the Directorate of Student Affairs. He/she would also be responsible for submission of report of bi-annual activities of his/her society to the Directorate of Student Affairs through the Advisor/Mentor. Any media/press release must be approved by the concerned authority before it is issued. The Secretary for Media and Public Relations would be responsible for designing, printing and distribution of invitation cards of the activities/ceremonies held. They have to maintain a list and contact numbers of the invitees, faculty members, administrative Heads and key persons in Public and Private sectors. They would chalk out the program of their society in advance in consultation with the Advisor/Mentor and Cabinet Members. List of invites however, to be finalized/ approved by the Competent Authority.

7. PROCEDURE FOR THE FORMATION OF SOCIETY/CLUB

Following procedure shall be used for the formation of a student society/club:

- i. Duly filled application form must be submitted to the Directorate of Student Affairs.
- ii. Directorate of Student Affairs will evaluate/review the form with respect to the following conditions:
 - a. KFUEIT Code of Conduct.
 - b. Eligibility requirements.
 - c. General Guidelines/University Policy.
 - d. Need of the Society/Club.
- iii. Evaluated form will be forwarded to the Worthy Vice Chancellor for final decision.

8. ELIGIBILITY REQUIREMENT TO BECOME MEMBER OF THE SOCIETY/CLUB

- i. Only those students who qualify their first semester in the University would be eligible for any cabinet position/member.
- ii. CGPA must be greater than 2.5
- iii. Must adhere to University (KFUEIT) Code of Conduct.

9. MAIN HIERARCHY



10. GENERAL INSTRUCTIONS/GUIDELINES

- i) The Vice Chancellor will have the authority to cancel/suspend membership of any Advisor/cabinet member or Society/Club on the recommendation of Chairman Committee of SECASSC / DSA.
- ii) The whole cabinet would work collectively as a single body for a society.
- iii) The cabinet members would perform their duties for one academic year or till the appointment of a new cabinet.
- iv) No student can enjoy membership of two or more cabinets/societies/clubs or keep two positions of the same society at the same time.
- v) Any member of the cabinet can be removed by the Directorate of Student Affairs on request of the concerned Advisor/Mentor on account of misbehavior, such as using un-parliamentary language or violation of the rules etc.
- vi) Each society/club would be allowed to arrange for correspondence/linkages with similar nature of societies/clubs at other similar type of organizations/institutions.
- vii) Based on previous performance of the members of societies/clubs, the Organizers would recommend a panel of at least three students for each cabinet position with acceptable standards or adopt any other procedure approved by the Competent Authority from time to time.
- viii) The primary duty of an Advisor/Mentor would be to organize, supervise and look after the concerned society/club.
- ix) After the announcement of the new cabinet of the concerned society, the Advisor/Mentor would distribute membership forms among the students and would collect the forms, duly filled, within a week and allot membership number to each student and collect an oath from students not to involve in any political activities.
- x) The Advisor/Mentor would propose a panel of at least three students (who have qualified first semester with acceptable standards) to the Directorate of Student Affairs for each of cabinet positions.
- xi) At the outset of an academic year, Advisor/Mentor would chalk out activities to be held on specific days.
- xii) Meeting of the Cabinet/Society can be called only on designated days in order to avoid any disturbance in the curricular activities.
- xiii) The Advisor/Mentor would be responsible to organize two major events during one academic year.
- xiv) The Advisor/Mentor would keep a proper record of the activities of the society concerned.
- xv) The Advisor/Mentor would seek prior approval from the Directorate of Student Affairs for the advance payment for any approved activity. Case for adjustment of the advance payment drawn would be submitted to the concerned office within a week, after the event is held.
- xvi) Regular reporting of any activity to the Directorate of Student Affairs would be the responsibility of the Advisor/Mentor.

- xvii) The Advisor/Mentor, through Secretary for Media and Public Relations, would send press release/report to Public Relation Officer before it is issued.
- xviii) Any member of the society/club who does not attend two consecutive official meetings without any valid reason would be relieved from his/her office/duties i.e. the Office of Advisor/Mentor.
- xix) The Advisor/Mentor once appointed will remain in office for one academic year or till the appointment of a new Advisor/Mentor, whichever is earlier. However, he/she can submit his/her resignation on one month notice.
- xx) For any major event Advisor/Mentor and Cabinet Members would shoulder the responsibility collectively.
- xxi) Prior approval for organizing an event along with its budget would be necessary from the Competent Authority.
- xxii) The Advisor/Mentor would pinpoint the talented students, keep a record and furnish their information to the Directorate of Student Affairs. He/she would motivate talented students and keep them busy in healthy and constructive activities which are the main purpose of running the Societies.
- xxiii) The Advisor/Mentor on the termination of each tenure would recommend the names of deserving cabinet members or general members for awarding certificates, subject to fulfillment of the condition of attendance, active participation, excellent performance and meritorious services.
- xxiv) The Advisor/Mentor would be responsible for security measures in consultation with the Administrative Officer.
- xxv) The performance of an Advisor/Mentor would be judged on the basis of his/her devotion and good behavior, excellence in planning, organizing and efficiently administering multiple activities, motivating students for membership, order and discipline, punctuality in meetings and functions of his/her society.
- xxvi) The Advisor/Mentor would be responsible for security measures in consultation with the Administrative Officer.



11. INTERPRETATION

If any question arises regarding the interpretation of these regulations the matter shall be deliberated by the University administration consisting of Head of the Department, Director Student Affairs, Registrar, Deans and Vice Chancellor and their decision thereon shall be final.

12. REMOVAL OF DIFFICULTIES

If any difficulty arises in giving effect to any of the provisions of these Regulations, the Vice Chancellor in individual cases may make such decision, not inconsistent with the spirit of these Regulations, as may appear to necessary for the purpose of removing the difficulty, provided that such a decision is not ultra vires of the Khwaja Fareed University of Engineering and Information Technology, Rahim Yar Khan Act 2014.





**Administrative
Departments**

Section

7

Administrative Departments

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Vice Chancellor Secretariat

Muhammad Abid Ali

PA to Vice Chancellor

Email: pa.vc@kfueit.edu.pk

Call: +92 (68) 5882443



- The VC Secretariat provides all the secretarial support required for the operations of Office of the Vice Chancellor. In this connection it is responsible for:
- Coordination with all Universities and Government departments i.e. HEC, HED, PHEC, PEC, P&D, Governor Secretariat, CM Secretariat, Law enforcement agencies, etc.
- Interaction with District and Divisional Government officials, as and when required
- Correspondence with District and Divisional Government offices on all matters related to the University
- To maintain daily schedules and coordinate appointments & meetings for the Vice Chancellor
- Scheduling and managing the various official meetings / video conferences, in-house and outside the University i.e. Syndicate Meeting, Academic Council, Board of Studies, Board of Faculties, Board of Advance Studies and Research, PEC Zero visits, Selection Boards and Selection Committees, HEC, PHEC, HED meetings, all internal departmental / committee meetings
- Drafting / composing of official correspondence and Preparation Minutes of Meeting(s)
- Preparation of all correspondences and other documentation as may be requested by the Vice Chancellor from time to time
- Maintenance of official record pertaining to the Office of the Vice Chancellor
- Coordination with heads of all teaching and non-teaching departments of the University and scheduling their meetings with the Vice Chancellor

Professional Development Center (PDC)

Engr. Ghias M Khan

Incharge PDC

Email: ghias.khan@kfueit.edu.pk

Call: +92 (68) 5882459



Continuous skill development is the basic need for the working professionals. To enhance the skills and equip with the latest tools the esteemed University established the Professional Development Center (PDC) in 2017. Through this Center not only students but the professionals and entrepreneurs are getting benefits. The PDC of the university helps to enhance the skills in different areas of the business such as Office Management, Project Management, Auto CAD, Solid Works, CCNA, MCSA etc. More than 20 courses are being offered to the students and professionals to come and get enrolled. Through this center we utilize our skilled faculty professionals to polish and enhance the skills of the students. PDC is the means by which members of professional bodies and other beneficiaries maintain, improve and broaden their knowledge and skills for developing personal qualities required in their professional lives.

Office of Marketing & Communications

Shahid Durrani

Director Marketing & Communications

Email: shahid.durrani@kfueit.edu.pk

Call: +92 (68) 9232478



The Department of Marketing & Communications at KFUEIT has been created with the objectives of standardizing, streamlining and synergizing the activities related to marketing, branding, image building, advertising campaigns, corporate communications, press & PR and event management of KFUEIT.

The Department acts as face of the university for external stakeholders. The importance of marketing and promotional activities gets manifolds for any young organization like KFUEIT, with very aggressive plans of becoming a world-class institution. The Department of Marketing & Communications is professionally embarking upon its journey of taking KFUEIT from good to great.

This department is broadly responsible for:

- Branding (Designing, outlook, feel, aesthetics and quality) of campus and KFUEIT
- Admissions campaign (at least bi-annual, Spring and Fall semesters)
- Advertising, promotions and campaigns
- Extending marketing and designing support to all teaching and non-teaching departments
- Ensuring compliance of brand guidelines, corporate Identities, standardization and symmetry
- Employer Branding and Image building of university, making preferred choice
- Handling social media platforms of the university
- Content management of Web and Social Media touchpoints
- Corporate communication and official spokesperson / department of Vice Chancellor and KFUEIT
- Corporate interface for external stakeholders
- Media interaction, management and relation building
- Arranging media conference, briefings and delegation visits for image projection of KFUEIT
- Dealing with enquiries from the public, the press and related organizations
- Centralized interface for event management of KFUEIT
- Managing variety of events including corporate level, academic, sports, extra-curricular, students' societies, fun fairs, religious and cultural, welcome & farewell, media events and other associated events of KFUEIT
- Achieving excellence in communication by adopting authentic, quick and efficient mediums
- Exploring opportunities co-branding, sponsorship and donations for events and their objective execution
- Representing KFUEIT on national and international forums
- CSR Initiatives (Corporate Social Responsibility) of the university.

دلِ مردِ مومن میں پھر زندہ کر دے
وہ بجلی کہ تھی نعرۂ لا تذر میں
عزائم کو سینوں میں بیدار کر دے
نگاہِ مسلمان کو تلوار کر دے

حضرت علامہ محمد اقبالؒ

Registrar Department

Muhammad Bilal Irshad

Additional Registrar

Email: addl.registrar@kfueit.edu.pk

Call: +92 (68) 5882413



Office of the Registrar acts as the Secretariat of the University and is responsible for the following:

- Managing the Admissions Process for all degree programs
- Managing the Student Registration Process and ensure that electronic as well as paper-based records of students are maintained properly
- Managing the Recruitment Process for all employments
- Constituting of Statutory Bodies (Syndicate, Selection Board, Academic Council, Finance and Planning Committee, BASR, Boards of Studies)
- Conducting Meetings of Statutory Bodies: Organizing the meetings, preparation of agenda and working papers, preparation of minutes of meetings and circulation of minutes
- Employee Attendance and Leave Record Management
- Employee Personal File, Performance Appraisals and Records Management
- Degree and Experience Verification of Employees and students
- Ensuring that prescribed procedures and rules are followed for award of financial assistance and scholarships
- Ensuring that cases pertaining to migration, separation, suspension and withdrawal of students are processed as per prescribed procedures and rules
- Being responsible to ensure that disciplinary matters of both Academic and Non-Academic nature pertaining to the faculty members, officers, non-teaching staff and students are dealt in accordance with the Statutes, Rules and Regulations of the University
- Being fully responsible for processing all matters pertaining to University convocations; and
- Performing any other responsibility assigned by the Vice Chancellor, from time to time.

نہیں ہے ناامید اقبال اپنی کشتِ ویراں سے
ذرا غم ہو تو یہ مٹی بڑی درخیز ہے ساقی

حضرت علامہ محمد اقبالؒ

Examinations Department

Engr. Affifa Adeeb

Incharge Examinations

Email: examinations@kfueit.edu.pk

Call: +92 (68) 5882421



The Examination Department of KFUEIT is established for handling all matters related to university exams and is responsible for maintaining their quality and standards. The Examination Department works in compliance with HEC guidelines and KFUEIT Examination Regulations. All academic results are prepared within this department keeping a high level of secrecy, transparency and integrity.

Planning & Development (P&D) Department

Dr. Zaheer Ahmad

Director Planning & Development

Email: zaheer@kfueit.edu.pk

Call: +92 (68) 9232420



The mission of the Planning & Development Department is planning and development of the physical infrastructure of the University consisting of, but not limited to, Buildings and Classroom Facilities, Teaching and Research Laboratories, Academic Departmental Offices, Library Facilities & Campus Study Spaces, Recreation / Athletic Spaces, Food Service Areas, Plant Maintenance, Administrative Offices, Central Services, Health Service Facilities, Common Use & Student Activity Spaces, Assembly and Exhibition Facilities, Residential Spaces, etc.

The Department consists of two wings, Planning Wing and Development Wing. The Planning Wing is responsible for preparing fresh / revised PC-1's and medium to long term physical infrastructure development Plans for the University. While the Development Wing is responsible for space programming, master planning, preparation of engineering designs and engineering estimates, preparation of construction and contract documents, and construction administration for the major maintenance, alterations and new construction for all University facilities and building systems. In particular, the Development Wing is responsible for executing the approved / funded PC-1's and physical development projects.

Planning and Development Department services that are prepared:

Development Plans are prepared in line with the Master Plan of the University. It is also responsible for exploring funding possibilities for University development projects from funding agencies within the government and outside the government as well as from international development funding agencies. Lastly the department is responsible for developing and implementing a quality audit program, monitoring contractor corrective actions and ensuring quality project execution conforming to plans and specifications.

Directorate of Students Affairs

Dr. Abdul Shakoor

Director Students Affairs

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Call: +92 (68) 5882422



The Directorate of Student Affairs (DSA) is considered as the first point of contact for all the University students. DSA serves as the guide and friend for the student from their first day to the last day at the university providing existence in curricular and extra-curricular activities. It helps students in providing them opportunities to take part in different healthy co-curricular activities and maintains liaison with a wide cross-section of students and to be responsive to their needs and problems. It also provides them different platforms for the development of their literary and artistic potentials.

Director Student Affairs is responsible to constitute the Societies at the commencement of every academic session and run them amicably throughout the year. The objective of this wing is to provide opportunities to take part in co-curricular, extra-curricular activities through a range of KFUEIT Student Societies.

Quality Enhancement Cell (QEC)

Prof. Dr. Muhammad Asghar Hashmi

Director QEC

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Call: +92 (68) 5882457



The Quality Enhancement Cell (QEC) at KFUEIT was established in March 2016. Since then, the Cell has been working effectively not only to enhance quality of education but also continuously improving upon it.

Key objectives of QEC are:

- To conduct regular training programs to enhance awareness of quality among faculty members
- To take steps to implement Outcome Based Education (OBE) in all degree programs at KFUEIT
- Conduct Mid-Semester and End-Semester student feedback survey for each course being conducted at KFUEIT and provide summary reports for the same to faculty members concerned through his/her Dean and HoD
- Conduct Campus Facilities & Environment Feedback Survey once every semester and submit the report to Vice Chancellor
- Conduct Faculty Members Course Feedback Survey for each course conducted at KFUEIT and submit the report to the HoD concerned through the relevant Dean
- Conduct a Faculty Satisfaction Feedback Survey once every semester and submit the report to the Vice- Chancellor and relevant Dean and HoD
- Conduct self-assessment Review (SAR) for each degree program at KFUEIT once every two years using the methodology prescribed by HEC and prepare relevant reports for the consideration of Vice Chancellor, Dean of the faculty concerned and relevant HoD.
- Promote the linkage between university and industry
- Conduct Alumni Feedback Survey from graduates of all programs at KFUEIT at the time of degree completion and submit the report to Vice Chancellor
- Conduct an Alumni Feedback Survey from graduates of all programs at KFUEIT three years after graduation and submit the report to Vice Chancellor
- Provide KFUEIT quality related data to HEC as requested from time to time in coordination with Registrar Office, Deans and Vice Chancellor

Finance Department

Abdul Samad

Additional Treasurer

Email: abdul.samad@kfueit.edu.pk

Call: +92 (68) 5882412



Finance Department is committed to provide KFUEIT with excellent services within its domain of responsibilities. The primary responsibility of Finance Department is the management of the University's financial assets and liabilities. It is our goal to provide all University stake holders with high-quality services in finance related matters

With that in mind, the Finance Department are committed to create an environment where we can step up and make a positive difference for all the students of the University. Our goal is to efficiently and effectively manage the university's financial assets to achieve the highest possible return at an acceptable level of risk.

ICT Department

Rizwan Majeed

Director ICT

Email: rizwan@kfueit.edu.pk

Call: +92 (68) 5882425



KFUEIT has by far the latest and updated Information & Communication Technology (ICT) infrastructure. ICT Department has embarked upon an ICT infrastructure design through which we can implement all sorts of information systems with zero cost for the software component by leveraging open source technologies. For the hardware and networking components, we have implemented solutions with long life and total low cost of ownership. Additionally, with a minimum number of support staff, the deployed IT infrastructure and services give KFUEIT a leading edge over all other universities in the region. Solutions that we have made operational at KFUEIT for the academia include the technologies of learning management, university management, project management, communication and collaboration, virtual private networking, thin client computing and multimedia services.

Library

Dr. Sana Ullah

Chief Librarian

Email: librarian@kfueit.edu.pk

Call: +92 (68) 5882428



Library at Khwaja Fareed University of Engineering and Information Technology was initially housed in a renovated hall with an area of about 700 meters square. The library has six full time librarians with four persons as attached staff. Library collection has risen to 14,000 books with 6,000 titles. Library services are being offered at three premises in ICT, Civil and Electrical engineering buildings. In its immediate plans, KFUEIT Library aims to add 5,000 international and local book titles along with 15 journal titles per year over the next 3 years. Access to digital databases including IET digital library, McGraw Hill collections, Springer Link, Taylor & Francis Journals, Wiley Blackwell etc. is also in process.

Library has a number of objectives to widen horizon of services these include:

- To get all information relevant to our University community then analyze and store it in a way that is preserving and easy to retrieve when demanded
- To provide required information in a useful manner.
- To act as expeditor in provision of latest education and research related extended services for grooming of human capital of University.
- To be pivotal in University by acquiring and disseminating latest knowledge and information through effective acquisition and dissemination encompassing all the faculties and allied services and departments of University.
- To continually develop University library, collection and resources, services and facilities through periodic interaction with library advisory board, soliciting feedback from University students and faculty.

Procurement Department

Engr. Dr. Aamir Alaud Din

Director Procurement

Email: dp@kfueit.edu.pk

Call: +92 (68) 5882464



The Procurement Department is a service unit established in September 2015 to support the educational and research missions of the Khwaja Fareed University of Engineering & Information Technology. The department is staffed by procurement professionals who have the requisite knowledge, skills and training to assist University personnel in the purchase of required goods and services. The department ensure that Punjab Public Procurement Regulatory Authority (PPRA) Regulations are followed during procurement processes at KFUEIT.

In this connection Procurement Department is responsible for following key tasks:

- Procurement of goods/services for the University with complete transparency
- Purchasing quality goods and services at competitive prices ensuring value for money
- Promoting supply chain diversification
- Exercising proper financial stewardship for payments and providing responsive service to all University departments
- Stores maintenance and issuance

Internal Audit Department

Muhammad Atif Raza

Director Internal Audit / ACCA (UK)

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Call: +92 (68) 5882435



Internal Audit department has been established to assure independent and objectivity in Pre and Post Audit of University inflows and outflows. It helps the University to accomplish its objectives by bringing a systematic, disciplined approach to evaluate and improve the effectiveness of risk management, control and governance process. Internal auditing at KFUEIT is used a catalyst for improving organizational governance, risk management and management controls by providing insight and recommendations based on analyses and assessments of data and overall university processes.

Three External Audits in 4-year time by DG, Audit Punjab have successfully been conducted and responded at appropriate level i.e DAC, SDAC etc while giving the official version of KFUEIT

Key responsibilities of Internal Audit Department are:

- Designing hierarchy for transaction flow on ERP system
- Providing consultation regarding development of payroll system in coordination with Treasurer office and ICT
- Detailed Internal Audit inspection in a year, in order to assure the verification of KFUEIT Assets, their designated utilization and completion of record

Career Counseling and Industrial Placement Center

Muhammad Umair Ashraf

Manager Career Counseling

Email: muhammad.umair@kfueit.edu.pk

Call: +92 (68) 5882429



Our Career Counseling and Industrial Placement Center (CCC) plays an instrumental role in shaping up student's future plans and educational aspiration by inviting guest speakers from relevant industries, arranging industrial visits, conducting mock interviews, recommendation for internships and job placements. Since 2016, Career Counseling and Industrial Placement Center has arranged multiple developmental activities for the students and the staff of KFUEIT. Some key activities and services are listed below:

- Arranged more than 70 guest speaker lectures of renowned professors, industry leaders and entrepreneurs
- Multiple individual and group counselling sessions
- 1,200+ students' placements for Internships
- Job fair & campus recruitment drives
- Industrial advisory and counselling camps
- Foreign scholarships advisory sessions
- GRE Intl. Test preparation and mock testing exercises
- 50+ industrial / study visits
- Sessions on industrial research and developments

Furthermore, CCC has established strong collaboration with industries, chamber of commerce, NGOs and local government authorities to enhance the professional and industrial acumen of the students by leading largest community outreach program of the region to boost educational standards at primary and secondary school level. Through this program, students of KFUEIT have contributed more than 37,000+ service hours towards educational community to promote education of Science, Technology, Engineering and Mathematics (STEM).

میں دیکھاں مرا یار نا دیکھے
جے میں نا دیکھاتے اوہ دیکھے
غلام فریدا بوہے یار دے مرے
اوہ دیکھے یا نا دیکھے۔۔۔

حضرت خواجہ غلام فریدؒ

Horticulture Department

Qazi Muhammad Rizwan

Horticulture Officer

Email: ho@kfueit.edu.pk

Call: +92 (68) 5882424



KFUEIT is an eco-friendly institution and realizes the importance of Horticulture. Horticulture is the art and science of plant production for both beauty and utility. It is about beautification and going green by growing flowers, fruits, vegetables and plants for ornament and fancy. The department is developing a Botanical Garden and an Ultra-High-Density mango orchard in university for research and revenue purpose

The Horticulture Department at KFUEIT is:

- To develop green areas in the University
- Plantation of maximum number of plants in the University
- Maintenance of all the green areas
- To provide facilities for sports
- Care and maintenance of mango and lemon orchards
- Care and maintenance of Botanical Garden
- Provide facilities to all departments for their events

Throughout the academic year Horticulture department organizes Tree plantation drives and different events to promote greenery and eco-friendliness

Sports Department

Engr. Hammad Khalid

Director Sports

Email: hammad.khalid@kfueit.edu.pk

Call: +92 (68) 5882427



Sports is an integral part of every Institution. Hence the Department of Sports is one of the core department of KFUEIT, offering sports facilities to both students and staff alike. The vision of sports department is to provide the students with best sporting facilities both at recreational and competitive level. The Sport Department has always paid special attention and devotion towards students mentoring and grooming so that they are able to glorify their institution in national as well as international forums.

Following sports facilities are currently available at campus:

- | | |
|--------------------------------------|------------------------------|
| • Cricket (Cricket League) | • Football (Football League) |
| • Table Tennis (Table Tennis League) | • Tug of War |
| • Volley Ball | • Kabaddi |
| • Basketball Courts (02) | • Athletics |

Beside above-mentioned facilities, University has a dedicated gym for students (male / female) and staff as well. The Biggest event of KFUEIT is our Annual Sports Gala which continues for a whole week and maximum number of students participate in this event every year. Throughout the academic year different Leagues and Sports festivals in the university are organized including but not limited to Futsal League Mr. KFUEIT Body Building Championship etc.

Transport Department

Engr. Yasir Yasin

Director Transport

Email: to@kfueit.edu.pk

Call: +92 (68) 5882423



Transport Department renders the quality policy of KFUEIT by providing undisturbed and cost-effective transport facility. University is served by a comprehensive network of buses that include six Hino Buses, one Toyota Coaster, one Toyota Hi-Ace and other pool vehicles. Additional transport vehicles for meeting university needs are arranged through leasing. The pick and drop services are being provided within city and surrounding areas that include Sadiqabad and Khanpur for easy commuting. Trained staff including transport supervisors, drivers, helpers and other supporting staff of the department are committed to provide the best services.

Other key responsibilities of the transport department are:

- Managing and operating an ambulance service in case of an emergency situation
- Availability of vehicles for official visits and study tours
- The vehicle's frequent check helps in reducing the environmental impact and improves the efficiency, performance and health.
- Providing assistance to the community of KFUEIT and visitors on department-related matters and promote compliance with the Institute's regulations.
- Striving to provide sustainable services to the University.

Hostel Department

Dr. Farrukh Jaleel

Warden Hostels

Email: warden@kfueit.edu.pk

Call: +92 (68) 5882480



As the university hostel life is one of the key elements of a liberal arts education. The hostel is a critical part of the total university experience. It provides a good living and learning community for students. Its experience prepares a better transition for young adults to emerge from protected teenagers into intellectual individuals and future leaders. Students learn independence, interpersonal skills, sense of community and responsibility through living with roommate(s), floor mates and the community life in hostels. Hostel is a place where students find self-identity, unity, friendship and generosity. Everyone in the community contributes to the common good, to take responsibility and to console and support one another in difficulties.

To facilitate the students coming from surroundings areas of Rahim Yar Khan and from across the country, separate hostels have been arranged for male and female students. Hostel affairs are managed by a competent and dedicated team of full-time staff, available round the clock. In addition to the messing, TV room, study hall, mosque, indoor games hall, Internet accessibility, tuck shop and other essential utility services are available to the hostel residents. Students hostels inside campus are under construction at this time.

Security Department

Maj (R) Badar ul Islam Tahir

Chief Security Officer

Email: so@kfueit.edu.pk

Call: +92 (68) 5882430



Security Department is responsible for providing security cover and protection to all sites maintained by the University and all activities taking place under University's auspices. It consists of nearly 100 Security staff including Security Officers, Assistant Security Officers, Security Supervisors, CCTV Supervisors, Lady Security Supervisors and male, female security guards. KFUEIT is the only University in Punjab where QRF (Quick Response Force) has been formed to take prompt action in any emergency by taking security measures to the next level and having Bomb disposal squad in order to meet any untoward situation. The Department performs its function using state of the art video surveillance system. An advance communication system is in place to facilitate the coordination between security personnel and control centre. The Department is equipped with latest weapons and gadgets meeting the requirements of modern day challenges.

Further more, the Security Department of KFUEIT:

- Prepares and keeps updating the Security Plan / Policy / Procedures to ensure safety and security of University, its assets and allied facilities
- Ensures Implementation and enforcement of all procedures and policies
- Arranges regular training for the Security Staff, employees of University and the students
- Takes necessary measures to ensure that the University Campus and Student Hostels are free from drugs, narcotics and weapons of any kind
- Ensures that measures are put in place to guard against robberies, theft, pilferage of University stores and equipment, etc

Time Table and Teaching Aid

Asmara Habib

Manager Time Table & Teaching Aid

Email: asmara.habib@kfueit.edu.pk

Call: +92 (68) 5882461



The Time Tabling & Teaching Aids (TT&TA) Department is one of the core departments of University. TT&TA deals with formulation and implementation of time table of all departments of KFUEIT. Provision of all teaching aids (i.e. multimedia projectors, speakers, white board markers & teaching rooms) is also the responsibility of this department.

The major activities of the department are:

- Preparation of time table
- Implementation and communication of time table to all departments and students.
- Monitoring of classes and arranging make up classes.
- Generation & Submission of weekly time table report to the competent authority.
- Booking and provision of teaching rooms and auditorium for lectures, seminars, conferences, public lectures, educational meetings and any other related activity.

Medical Services Department

Dr. Sajid Rafique

Medical Officer

Email: sajid.rafique@kfueit.edu.pk

Call: +92 (68) 5882462



KFUEIT Medical Center provides a wide-range of comprehensive urgent, primary, and hospital services. The goal is to ensure that all Employees and Students of KFUEIT receive the best quality care through exceptional medical expertise, unsurpassed service and by putting safety first. There are dedicated male and female Medical Officer,

The department is delivering following services:

- OPD (All Faculty & Students)
- All kind of emergency handling and referral to Sheikh Zayed Medical College and Hospital (SZMC&H-RYK)
- Well equipped Ambulance
- Counseling Center running in collaboration with Department of Psychiatry & Behavioral Sciences, SZMC&H Rahim Yar Khan
- Drug Abuse, Dengue, Smog, Influenza, Heat Stroke and other running health issues' awareness campaigns through Awareness Seminars and walks
- Coordination and support for Blood Donation Society
- Students' Blood screening program in collaboration with Pathology Department, SZMC&H-RYK.
- Blood Screening against Substance abuse & Mental Test of all Security guards in collaboration with Department of Psychiatry & Behavioral Sciences, SZMC&H-RYK.
- Security Check of all Departmental Laboratories.
- Provision of First Aid Boxes and related medicines to all departments.
- Water Quality test of RO Plants
- Food and Hygiene Quality Control of University Cafeteria.

یقین محکم، عمل پیہم، محبت فاتح عالم
جہادِ زندگی میں یہ ہیں مردوں کی شمشیریں

پہلے وائس چانسلر کی تقریری 2015 میں ہوئی جس کے ساتھ ہی یونیورسٹی نے ہر سال ترقی کے زینے طے کرنے شروع کر دیے۔ وائس چانسلر پروفیسر ڈاکٹر اطہر محبوب صاحب کی سربراہی اور ان کی ٹیم کی شبانہ روز محنت کی بدولت اس یونیورسٹی نے کئی سال کا سفر چند ماہ میں طے کر لیا۔ اس سفر میں بہت دفعہ مشکل حالات اور بے شمار رکاوٹوں کا سامنا بھی رہا مگر کوئی رکاوٹ اور کوئی مشکل سے مشکل صورتحال وائس چانسلر اور ان کی ٹیم کے حوصلے پست نہ کر سکی۔

خواجہ فرید یونیورسٹی آف انجینئرنگ اینڈ انفارمیشن ٹیکنالوجی بلاک 275 ایکڑ پر مشتمل خوبصورت اور شاندار کیمپس ابو ظہبی روڈ رحیم یار خان پر واقع ہے۔ یہ کیمپس تعلیم و تحقیق اور تدریس کی جدید سہولیات سے آراستہ ہے۔ اس وقت یونیورسٹی میں 600 ملازمین کام کرتے ہیں جن میں سے دو سو اساتذہ کرام یونیورسٹی کے معیار کو بہتر بنانے کے لئے ہمہ وقت کوشاں ہیں۔ یونیورسٹی کی تیز رفتار ترقی اور سٹوڈنٹس کی بڑھتی ہوئی تعداد یہ ظاہر کرتی ہے کہ یونیورسٹی ایس علاقے کی ضروریات کے مطابق تعلیم و تحقیق سرانجام دے رہی ہے۔ ایک محتاط اندازے کے مطابق ضلع رحیم یار خان کے لوگ ہر سال 2 ارب روپے اپنے بچوں کی اعلیٰ تعلیم پر خرچ کرتے تھے اور یہ رقم اس ضلع سے باہر دوسرے شہروں میں بھیجی جاتی تھی۔ رقم کی منتقلی کا یہ عمل یونیورسٹی کے قیام سے کافی کم ہو چکا ہے۔

خاص طور پر اس علاقے کی طالبات کے لیے یہ یونیورسٹی ایک بہت بڑی نعمت ہے کیونکہ یہاں پر بہت سارے جدید ڈگری پروگرام متعارف کروائے گئے ہیں جو طالبات کی دلچسپی سے مطابقت رکھتے ہیں۔ خزاں 2019 کے داخلوں کے بعد اس یونیورسٹی کا شمار پاکستان کی بڑی یونیورسٹیز میں ہونا شروع ہو جائے گا کیونکہ یونیورسٹی 94 ڈگری پروگرام متعارف کروا رہی ہے۔ یونیورسٹی کے سو سے زیادہ پی ایچ ڈی اساتذہ کرام مستقبل قریب میں دس ہزار طلباء و طالبات کی تعلیم و تربیت کے لئے موجود ہیں۔

اس وقت یونیورسٹی تیزی سے ایک روشن مستقبل کی جانب گامزن ہے مگر فنڈز کی عدم دستیابی کی وجہ سے ترقی کا یہ سفر سست روی کا شکار ہے۔ تعلیم کے ساتھ ساتھ یونیورسٹی میں غیر نصابی سرگرمیوں کا بھی انعقاد کیا جاتا ہے جس میں مقابلہ نعت، مقابلہ قرأت، پاکستان ڈے، ڈیفنس ڈے، کشمیر ڈے، عید میلاد النبی اور ڈرامہ شامل ہیں۔ ان سرگرمیوں کے انعقاد سے طلبہ کا اعتماد اور تخلیقی صلاحیتیں بہتر ہوتی ہیں۔



رحیم یار خان اور خواجہ فرید یونیورسٹی آف انجینئرنگ اینڈ انفارمیشن ٹیکنالوجی تاریخ و ثقافت

رحیم یار خان ایسا شہر ہے جو کہ جنوبی پنجاب کے مضافات میں واقع ہے۔ اس کا پرانا نام نوشہرہ تھا اور نواب محمد صادق خان عباسی نے اس شہر کا نام 1809 میں اپنے پہلے بیٹے کے نام پر رحیم یار خان رکھا۔ 1931 میں اس کو ضلع کا درجہ دیا گیا اور 1942 میں یہ ایک صنعتی زون بن گیا جس کا زیادہ تر انحصار کپاس کی پیداوار اور کپاس کی مصنوعات بنانے پر تھا۔ 1950 میں یہاں دو بڑی فیکٹریاں قائم کی گئیں جن میں سے پہلی عباسیہ ٹیکسٹائل ملز اور دوسری صادق ویجیٹیبل اینڈ اٹیل ملز (یونی لیور) تھی جس کی وجہ سے اس شہر میں مزید جدت آئی۔ رحیم یار خان کی ترقی کا یہ سفر ابھی جاری و ساری ہے اور اس وقت اس کا شمار صوبہ پنجاب کے جدید اضلاع میں ہوتا ہے۔

رحیم یار خان پاکستان کے تین صوبوں پنجاب، سندھ اور بلوچستان کے سنگم پر واقع ہے۔ اس شہر کی جغرافیائی حیثیت نے نہ صرف اسے صحت اور تعلیم بلکہ کاروبار تجارت اور زراعت کے حوالے سے ایک ممتاز مقام دیا ہے کیونکہ جنوبی پنجاب شمالی سندھ اور مشرقی بلوچستان کے بہت سارے اضلاع کے لوگ رحیم یار خان میں موجود جدید سہولیات سے استفادہ حاصل کرتے ہیں۔ رحیم یار خان کی اکانومی کا انحصار زراعت پر ہے اور یہاں کی بڑی فصلیں کپاس اور گناہیں۔ اس وقت رحیم یار خان کی بڑی صنعتوں میں یونی لیور، کوکا کولا، ایف ایف سی، احمد اورینٹل ٹیکسٹائل، احمد فائن ٹیکسٹائل مل، سات شوگر ملز اور ان کے علاوہ بے شمار ماربل، کاٹن، جننگ، فلور اینڈ اٹیل ملز اور پولٹری فیڈ یونٹس شامل ہیں۔

اس علاقے میں شروع سے ہی اعلیٰ تعلیم کی سہولیات کا فقدان تھا اور والدین اپنے بچوں کو اعلیٰ تعلیم کے حصول کے لیے بڑے شہروں میں بھیجنے پر مجبور تھے۔ اس شہر سے دونوں طرف جو قریب ترین یونیورسٹیز تھیں وہ بھی 200 کلومیٹر کے فاصلے پر تھیں۔ اس صورتحال میں طلباء اپنی تعلیم کے ساتھ ساتھ بڑے شہر میں رہنے کے بھاری اخراجات کا بھی بوجھ اٹھانے پر مجبور تھے اور انہیں اس ضمن میں داخلہ حاصل کرنے کے لئے سخت مقابلے کا سامنا تھا۔

ان حالات میں جنوبی پنجاب کی پہلی انجینئرنگ اور آئی ٹی یونیورسٹی کا قیام اس علاقے کے لئے کسی نعمت سے کم نہیں تھا۔ 2014 میں پنجاب اسمبلی کی منظوری سے شروع ہونے والی خواجہ فرید یونیورسٹی آف انجینئرنگ اینڈ انفارمیشن ٹیکنالوجی کا یہ سفر محض چار کمروں پانچ فیکلٹی ممبرز اور چار ڈگری پروگرامز میں داخلوں کے ساتھ شروع ہوا۔



سینئر ڈین کا پیغام

خواجہ فرید یونیورسٹی آف انجینئرنگ اینڈ انفارمیشن ٹیکنالوجی رحیم یار خان کا قیام گورنمنٹ آف پنجاب کا اس علاقے کی تعمیر و ترقی کے لئے ایک انقلابی قدم ہے۔ اس یونیورسٹی کی ترقی میں وزیر اعلیٰ پنجاب کے ساتھ علاقائی سیاست دان اور تاجر برادری کا کردار قابل ستائش ہے۔ مجھے امید ہے کہ ایک دن یہ یونیورسٹی عالمی معیار کی تعلیمی، تحقیقی اور تدریسی سہولیات سے مزین ہوگی۔ مگر اس خواب کی تکمیل کے لیے موجودہ اور مستقبل میں آنے والی حکومتوں کا کردار بہت اہم ہے۔ بلاشبہ اس یونیورسٹی کا قیام جنوبی پنجاب کے لوگوں کے لیے ایک نعمت سے کم نہیں ہے جو کہ اس علاقے کے کاروبار، تعلیم اور معاشرت میں جدت کے وجہ بنے گی۔

ہمارے ملک کی ترقی کا انحصار علم پر مبنی معیشت میں ہے اور اس یونیورسٹی کا قیام اس ضمن میں ایک اہم سنگ میل ہے۔ ہم سب کو مل کر دنیا میں اپنا کردار مثبت رویہ کے ساتھ ادا کرنا چاہیے اور انسانیت کی فلاح میں اپنا حصہ ڈالنا چاہیے۔ ہم دنیا سے جدا نہیں رہ سکتے اس لیے ہمیں اپنی معاشرت، صفت اور کاروبار میں جدت اختیار کرنی چاہیے اگر ہم ایسا نہیں کریں گے تو ہم دنیا سے پیچھے رہ جائیں گے۔

ہمارے گریجویٹ اور انڈر گریجویٹ پروگرامز اعلیٰ معیار کے ہیں اور ہمارا ہدف ہے کہ ان کا معیار دنیا کی بڑی یونیورسٹیز سے کسی صورت کم نہ ہو۔ یقیناً دنیا کی بڑی یونیورسٹیز نے جو معیارات حاصل کر لیے ہیں ابھی ہم ان سے پیچھے ہیں مگر ان کا حصول ناممکن نہیں ہے۔

میں اپنے قابل اور محنتی نوجوانوں سے یہ کہوں گا کہ وہ اپنا ہدف ایسا مقرر کریں جو ان کے والدین کے اور اس کے قوم کے خوابوں کا حصول ممکن بنا دے۔ نوجوان اس قوم کا مستقبل ہیں اور انہیں قوم کی امیدوں پر پورا اترنا چاہیے۔

اس یونیورسٹی کی انتظامیہ اور اساتذہ کرام اسے عالمی معیار کی یونیورسٹی بنانے کے لیے پر عزم ہیں۔ جیسا کہ ہمارے عظیم لیڈر قائد اعظم محمد علی جناح نے فرمایا کہ ایمان، تنظیم اور انتھک محنت سے آپ جو چاہیں اس دنیا میں حاصل کر سکتے ہیں۔ اس یونیورسٹی نے ابتدائی چار سال میں یعنی 2018 میں اپنے پہلے سے طے شدہ 2024 تک کے اہداف حاصل کر لیے ہیں۔ اب اس یونیورسٹی میں انجینئرنگ، مینجمنٹ، بیسک سائنسز، ہیومنیز، سوشل سائنسز، الائیڈ ہیلتھ سائنسز، کمپیوٹر سائنسز اور انفارمیشن ٹیکنالوجی کے شعبہ جات میں 94 نئے پروگرامز کا اجراء کر دیا گیا ہے۔ 2019ء میں امید ہے کہ طلبہ کی تعداد دس ہزار تک پہنچ جائے گی۔ یونیورسٹی کے معاشی استحکام کے لئے انتظامیہ کی کوشش ہے کہ موجود وسائل کو بروئے کار لایا جائے بلکہ وسائل کی دستیابی کے لئے تحقیق اور جدت کے ذریعے نئے مواقع بھی پیدا کئے جائیں۔

یونیورسٹی فل ٹائم اور پارٹ ٹائم طلباء کے لئے ریگولر اور ای لرننگ پروگرامز متعارف کروا رہی ہے۔ میری نیک تمنائیں ہمارے تمام طلبہ کے لئے اور میری یہ نصیحت ہے کہ زندگی میں جو بھی کریں اس میں انسانیت کی فلاح کا پہلو مد نظر رکھیں کیونکہ آپ اس گلوبل ورلڈ کا حصہ ہیں جس میں رہنے کے لئے اسے ہم آہنگی کی ضرورت ہے۔

انجینئر پروفیسر ڈاکٹر محمد منیر احمد
سینئر ڈین





وائس چانسلر کا پیغام

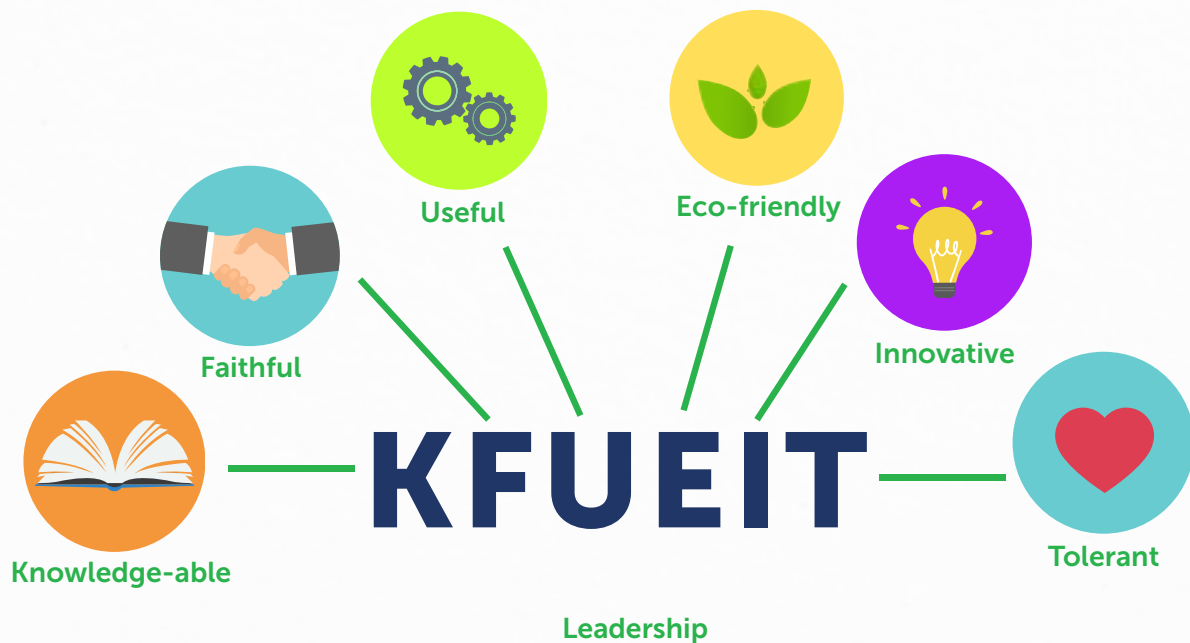
اپنے تعلیمی اور پیشہ ورانہ مقاصد کے حصول کے لئے آپ کا خواجہ فرید یونیورسٹی آف انجینئرنگ اینڈ انفارمیشن ٹیکنالوجی کا انتخاب ایک درست فیصلہ ہو گا۔ اس یونیورسٹی کے حوالے سے خاص بات یہ ہے کہ انتہائی جنوبی پنجاب کی یہ پہلی پبلک سیکٹر یونیورسٹی ہے جو کہ حکومت پنجاب کے وژن کے تحت جنوبی پنجاب کے باصلاحیت اور محنتی نوجوانوں کو اعلیٰ تعلیمی سہولیات فراہم کرنے کے لیے قائم کی گئی ہے۔ 200 کلومیٹر کے دائرے میں سندھ پنجاب اور بلوچستان کے سنگم پر واقع یہ یونیورسٹی علاقے کی تعمیر و ترقی اور اعلیٰ تعلیم کے فروغ کے لیے پر عزم ہے۔ پہلے مرحلے میں حکومت پنجاب کی چھ ارب روپے کی خاطر گرانٹ کے ذریعے سے یونیورسٹی میں نئے بلاکس کی تعمیر کے ساتھ ساتھ اعلیٰ تعلیمی اور تحقیقی سہولیات کی فراہمی کا کام تیزی سے جاری ہے۔ اس وقت پہلے تعمیر مرحلے کی تکمیل کے بعد یونیورسٹی میں تعمیر کے دوسرے مرحلے میں مزید تعلیمی، رہائشی اور تفریحی سہولیات کی فراہمی کے لئے کام شروع ہو چکا ہے۔

خواجہ فرید یونیورسٹی آف انجینئرنگ اینڈ انفارمیشن ٹیکنالوجی کا یہ مشن ہے کہ عالمی معیار کی تعلیمی، تحقیقی اور تدریسی سہولیات فراہم کی جائیں تاکہ یہ یونیورسٹی علاقے کی معیشت اور لوگوں کی بہتری کے عمل میں تخلیق علم اور تشکیل ذات کے ذریعے اپنا مرکزی کردار ادا کرے۔ اپنے اس خواب کی تکمیل کے لئے یونیورسٹی پر عزم ہے کہ طلبہ کو ایسا تعلیمی ماحول فراہم کیا جائے جہاں نصاب اور تدریس عالمی معیار کے مطابق ہو جو کہ ان کی تشکیل ذات کے ساتھ ساتھ ان کی تخلیقی استعداد کو اوج کمال تک پہنچا دے تاکہ اپنی ہنرمندی کے ذریعے سے طلباء ملک و قوم کی ترقی میں اپنا جاندار کردار ادا کر سکیں۔ اسی وجہ سے یونیورسٹی سے فارغ التحصیل طلبہ کو انڈسٹری اور کمیونٹی کی طرف سے مثبت پذیرائی حاصل ہوئی ہے۔ اس وقت یونیورسٹی مختلف علوم میں بے شمار گریجویٹ اور انڈر گریجویٹ ڈگری پروگرامز کا اجراء کر چکی ہے اور ان پروگرام کی تعداد یونیورسٹی میں موجود تعلیمی، تحقیقی اور تدریسی سہولیات کے عین مطابق ہے۔

یونیورسٹی عملی اور اطلاقی تحقیق کے ذریعے نئے علم کو بروئے کار لاتے ہوئے علاقائی اور قومی سطح کے مسائل کے حل کے لیے پر عزم ہے۔ گہرے غور و فکر کے بعد یونیورسٹی نے تحقیق کے لیے خوراک، ماحول، توانائی، پانی، صحت، انفارمیشن اینڈ کمیونیکیشن ٹیکنالوجی اور مینوفیکچرنگ کے شعبہ جات کا انتخاب کیا ہے۔ یونیورسٹی اور تحقیق کار عالمی سطح پر آنے والی تبدیلیوں سے اور قومی سطح پر پیدا ہونے والی ڈیمانڈ سے بخوبی واقف ہیں جو کہ تعلیم پر مبنی معیشت سے متعلق ہے جس میں تمام سیکٹرز انفارمیشن کے حصول اور اس کی ترسیل پر بہت زیادہ انحصار کرتے ہیں۔ اب ضرورت اس امر کی ہے کہ ایسے حل متعارف کرائے جائیں جو کہ نہ صرف ملکی مسائل کو ختم کریں بلکہ کم خرچ اور دیرپا بھی ہوں۔ یونیورسٹی کے تمام تعلیمی، تحقیقی اور تدریسی معیار بدلتی ہوئی عالمی اور ملکی صورتحال کے عین مطابق ہیں۔ یونیورسٹی کی مرکزی اقدار جن کا اطلاق تعلیمی، تحقیقی تدریسی عمل میں مینجمنٹ اور اساتذہ کرام کرتے ہیں تاکہ طلبہ کی شخصیت میں وہی اقدار شامل ہو جائیں۔ ان کو یاد رکھنا بہت آسان ہے جو کہ یونیورسٹی کے نام کے محقق سے ماخوذ ہیں۔

مجھے امید ہے کہ یونیورسٹی کا دورہ کرنے کے بعد اور یونیورسٹی سوشل میڈیا پیجز ویب سائٹ اور پراسپیکٹس میں دی گئی معلومات کے تجزیہ کے بعد یقیناً آپ بہتر پوزیشن میں ہوں گے کہ آپ اپنے مستقبل کے تعین میں خواجہ فرید یونیورسٹی آف انجینئرنگ اینڈ انفارمیشن ٹیکنالوجی کا انتخاب کر لیں۔ میں منتظر ہوں کہ آپ اس یونیورسٹی کا حصہ بنیں جہاں قابل اور اعلیٰ تعلیم یافتہ اساتذہ کرام اور معاون انتظامیہ آپ کے مستقبل کے خوابوں کو تعبیر دینے کے لیے ہمہ وقت کوشاں ہیں۔

Core Values



Khwaja Fareed University of Engineering & Information Technology
Rahim Yar Khan

چانسلر کا پیغام



اعلیٰ تعلیمی اداروں کی یہ بنیادی ذمہ داری ہے کہ وہ تعلیم اور تحقیق کے ذریعے ایسا علم اور فہم پیدا کریں جو کسی بھی معاشرے کی معاشی اور ثقافتی ترقی کے لئے ضروری ہوتا ہے۔ حکومت یونیورسٹی سے یہ چاہتی ہے کہ یہ لوگوں کی تعلیمی قابلیت، ہنرمندی اور استعداد بڑھانے میں اپنا کردار ادا کرے۔ خاص طور پر جنوبی پنجاب میں اعلیٰ تعلیم کا فروغ حکومت کی اولین ترجیحات میں شامل ہے۔ مجھے یقین ہے کہ تعلیم اور تحقیق میں بہتری کے ذریعے اس علاقے کی سماجی اور معاشی صورتحال میں ہم ایک مثبت تبدیلی لاسکتے ہیں۔ طلبہ کو عالمی معیار کا تعلیمی ماحول فراہم کرنا خواجہ فرید یونیورسٹی آف انجینئرنگ اینڈ انفارمیشن ٹیکنالوجی کی اولین ترجیحات میں شامل ہے۔ یونیورسٹی کا یہ مشن ہے کہ طلباء و طالبات کی تعلیم و تربیت اس جاندار طریقے سے کی جائے کہ وہ فارغ التحصیل ہو کر معاشرے کے کارآمد شہری بن سکیں۔ موجودہ دور کے تقاضوں کو پورا کرنے کے لئے یونیورسٹی کو اپنے تعلیمی اور انتظامی شعبہ جات کو مسلسل بہتر کرتے رہنا چاہئے تاکہ یہاں طلبہ کو وہ سہولیات دستیاب ہوں جو مستقبل میں ان کے کریئر کو بہتر کرنے میں مدد دیں۔ میری یہ دعا ہے کہ خواجہ فرید یونیورسٹی آف انجینئرنگ اینڈ انفارمیشن ٹیکنالوجی اپنے مقاصد کے حصول میں سرخرو ہو۔

چوہدری محمد سرور

گورنر پنجاب

پرووائس چانسلر کا پیغام



پنجاب حکومت کا وزیر اعلیٰ سردار عثمان بزدار کی قیادت میں یہ عزم ہے کہ اعلیٰ تعلیم کو عالمی معیار کے مطابق بنایا جائے اور پنجاب کے ہر شہری کے لئے اعلیٰ تعلیم کے حصول کو ممکن بنایا جائے۔ خواجہ فرید یونیورسٹی آف انجینئرنگ اینڈ انفارمیشن ٹیکنالوجی رجم یار خان کا قیام حکومت پنجاب کے اسی عزم کا اظہار ہے۔ یونیورسٹی کی تعمیر و ترقی کے پہلے مرحلے میں حکومت پنجاب اب تک چار ارب روپے خرچ کر چکی ہے جس کے نتیجے میں یونیورسٹی میں تعلیمی اور انتظامی بلاکس کی تعمیر اور مناسب تعلیمی سہولیات کی فراہمی مکمل ہو چکی ہے۔ مجھے یہ جان کر خوشی ہوئی ہے کہ یونیورسٹی کی تعمیر کے پہلے مرحلے کی تکمیل کے ساتھ ہی توسیع کے لئے دوسرے مرحلے کی منصوبہ بندی بھی مکمل ہو چکی ہے۔ توسیع کے اس منصوبے کے ذریعے سے نہ صرف یونیورسٹی کے رقبے میں اضافہ ہوگا بلکہ نئے بلاکس کی تعمیر کے ساتھ ساتھ بہتر تعلیمی سہولیات کی فراہمی بھی ممکن ہو سکے گی۔ توسیع کا منصوبہ تعمیر کے ابتدائی منصوبے سے حجم میں دوگنا ہوگا جس کے ذریعے سے فیکلٹی ڈیولپمنٹ پروگرام اور انڈومنٹ فنڈ کے اجراء سے یونیورسٹی کو مزید استحکام دیا جائے گا۔ حکومت پنجاب اس چیز پر یقین رکھتی ہے کہ نوجوان نسل پر سرمایہ کاری ایک محفوظ مستقبل کی ضمانت ہے۔ میں اس چیز پر مطمئن ہوں کہ خواجہ فرید یونیورسٹی آف انجینئرنگ اینڈ انفارمیشن ٹیکنالوجی حکومت پنجاب کی سہولت میں نہ صرف تیز رفتار ترقی کر رہی ہے بلکہ مقامی طور پر ایک اچھی تعلیمی سہولت کے طور پر ابھر کر سامنے آ رہی ہے۔ میری خواہش ہے کہ جنوبی پنجاب کے نوجوان اپنے بہتر مستقبل کے لیے اس یونیورسٹی سے بھرپور فائدہ اٹھائیں اور میں ان کو یہ یقین دلانا ہوں کہ یہ ادارہ ہمیشہ ان کے بہتر مستقبل کے لیے مخلصانہ کوششیں کرتا رہے گا۔ میری نیک تمنائیں اور دعائیں جنوبی پنجاب کے طلبہ و طالبات، یونیورسٹی میں پڑھانے والے اساتذہ کرام، میٹجمنٹ اور سٹاف کے ساتھ ہیں۔

راجہ یاسر ہمایوں

منسٹر آف ہائر ایجوکیشن، حکومت پنجاب

نصب العین

عالمی معیار کی یونیورسٹی بن کر علاقے کی معشیت اور لوگوں کی بہتری کے عمل میں تخلیق علم اور تشکیل ذات کے ذریعے مرکزی کردار ادا کرنا۔

عزم

- 1 ایک ایسا تعلیمی ماحول فراہم کرنا جہاں نصاب اور تعلیم کا عمل عالمی معیار سے مطابقت رکھتا ہو۔
- 2 طلباء کو ایسا ماحول فراہم ہو جو کہ ان کی تشکیل ذات کے ساتھ ساتھ ان کی تخلیقی استعداد کو اوج کمال تک پہنچا دے۔
- 3 ایسے ہنرمند افراد پیدا ہوں جو ملک و قوم کی ترقی میں اپنا جاندار کردار ادا کر سکیں۔
- 5 ایسی تحقیق ممکن ہو جسے کے نتیجے میں پیدا ہونے والے علم کے ذریعے سے مقامی اور قومی مسائل حل کئے جاسکیں۔

اغراض و مقاصد

- سائنس، ریاضی، انجینئرنگ، انفارمیشن ٹیکنالوجی، لائف سائنسز اینڈ ہیلتھ کیئر، مینجمنٹ، سوشل اینڈ لیگل سائنسز، ہیومنٹیز اینڈ آرٹس کے شعبہ جات میں عالمی معیار کے تیس انڈر گریجویٹ ڈگری پروگرام متعارف کروانا۔
- مختلف شعبہ جات کے باہمی اشتراک کے ذریعے ایسی تحقیق کو ممکن بنانا جس سے نہ صرف علاقائی اور ملکی سطح کے مسائل حل کرنے میں مدد ملے بلکہ اعلیٰ تعلیم یافتہ اور ہنرمند افراد کی تعداد میں بھی اضافہ ہو۔
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