Scheme of Study

BS Food Science and Technology

Semester 1

Semester 2

	C C1-	Course Title	Credit	Hrs.	G 11	C Cd-	Course Title	Credi	t Hrs.
S. No.	Course Code	Course Title	Theory	Lab	S. No.	Course Code	Course Title	Theory	Lab
1	ENGL-1118	Functional English	3	0	1	ISLS-1112/	Islamic Studies / Ethics	2	0
2	MATH-1111/ BTNY-1107	Mathematics-I /Botany	-	0	2	ETIC-1112 ENGL-1119	Communication Skills	3	0
3	DAVC 1117	Pakistan Studies	2	0	3	MATH-1112/	Mathematics-II (Calculus) / Zoology	3	0
4	FDST-1201			1	4	ZOOL-1171 FDST-1102/ FDST-1202	Food Processing and Preservation	2	1
5	AGRI-1201 Basic Agriculture		2	1	5	STAT-1102/ STAT-1202	Statistical Theory-II	2	1
6	STAT-1101 6 STAT-1201 Statistical Theory- I		2	1	6	AGEN-1102/ AGEN-1202	Fluid Mechanics	2	1
7	7 HLTH-1113 Basic Health Awareness		2	0	7	SSCI-3120	Constitution and Legal System of Pakistan	2	0
Credit H	Credit Hours		19 Cr		Credit Hours		19		

Semester 3

Semester 4

a 11		a ==::	Credi	it Hrs.	C 11		a =111	Credit	t Hrs.
S. No.	Course Code	Course Title	Theory	Lab	S. No.	Course Code	Course Title	Theory	Lab
1	INFT-1102/ INFT-1202	Introduction to Computing	2 3	1	1	FDST-2106/ FDST-2206	Food Process Engineering	2	1
2	BOCH-1101	Introductory Biochemistry			2	FDST-2107	Food Chemistry	3	0
3	FDST-2101/	Food Analysis	1	2	3	FDST-2108/ FDST-2208	Dairy Technology	2	1
4	FDST-2102/ Unit Operation in Food Processing			1	4	FDST-2109/ FDST-2209	Fruits and Vegetables Processing	2	1
5	5 FDST-2202 FDST-2103 Food Plant Layout and Design		2	0	5	FDST-2110 FDST-2210	Fish, poultry and egg processing	2	1
6	6 FDST-2104 Food Safety		3	0	6	HNAD-1101	Fundamentals of Human Nutrition	3	0
7	7 FDST-2105 Food Microbiology		2	1			Tandamentals of Hamani Vacinion		
	FDST-2205								
Credit I	Credit Hours		20	20 Credit Hours			18		

Semester 5

Semester 6

			Credi	t Hrs.	C NI-	C C1-	Common Tital	Credit Hrs.	
S. No.	Course Code	Course Title	Theory	Lab	S. No.	Course Code	Course Title	Theory	Lab
1	FDST-3101/ FDST-3201	Meat Technology	2	1	1	FDST-3105/ FDST-3205	Bakery Products Technology	2	1
2	FDST-3102/ FDST-3202	Cereal Technology	2	1	2	FDST-3106 FDST-3107/	Community Nutrition Confectionery and Snack Foods	2	0
3	FDST-3103/ FDST-3203	Sugar Technology	2	1	- 3 - 4	FDST3207 FDST-3108/ FDST-3208	Food Packaging	2	1
4	4 AGRI-3101/ AGRI-3201 Stored Grain Pest Management		2	1	_	FDST-3109/ FDST-3209	Sensory Evaluation of Foods	2	1
6	FDST-3104/ FDST-3204 Instrumental Techniques in Food Analysis		1	2	6	FDST-3110/ FDST-3210	Technology of Fats and Oils	2	1
7	7 MSCI-4165 Agricultural Marketing		3	0	7	FDST-3111/ FDST-3211	Postharvest Technology	2	1
						FD31-3211			
Credit I	Credit Hours		18	18 Credit Hours			20)	

Semester 7

Semester 8

a	C C	Common Tiello	Credi	it Hrs.	S. No.	Course Code	Course Title	Credit	
S. No.	Course Code	Course Title	Theory	Lab	5. NO.	course code		Theory	Lab
1	FDST-4101/ FDST-4201	Food Product Development	2	1	1 Credit		Internship	0	04
2	FDST-4102/ FDST-4202	Food Biotechnology	2	1	Credit	nours		U	4
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	0					
GRA	ND TOTAL							138	

BS Human Nutrition & Dietetics

Semester 1

Semester 2

		a =::1	Cred	lit Hrs.	a		o with	Credit	t Hrs.
S. No.	Course Code	Course Title	Theory	Lab	S. No.	Course Code	Course Title	Theory	Lab
1	ENGL-1118	Functional English	3	0	1	ISLS-1112/	Islamic Studies / Ethics *	2	0
2	MATH-1111	Mathematics (Algebra)-I	3	0	2	ETIC-1112 ENGL-1119	Communication Skills	3	0
3	PAKS-1113	Pakistan Studies	2	0	3	HNAD-1102	Macronutrients in Human Nutrition	3	0
4	HNAD-1101	Fundamentals of Human Nutrition	3	0	4	BOCH-1101	Introductory Biochemistry	3	0
5	AGRI-1101/ AGRI-1201	Basic Agriculture	2	1	5	STAT-1101/ STAT-1201	Statistical Theory-I	2	1
6	FDST-1101/ FDST-1201	Introduction to Food Science & Technology	2	1	6	INFT-1102/ INFT-1202	Introduction to Computing	2	1
7	HLTH-1113	Basic Health Awareness	2	0	7	SSCI-3120	Constitution and Legal System of Pakistan	2	0
Credit I	Credit Hours			9	Credit	Hours		1	9

Semester 3

Semester 4

C NI-	Carres Carda	Course Title	Credit	t Hrs.	C NI-	Carres Carda	Course Title	Credi	it Hrs.
S. No.	Course Code	Course Title	Theory	Lab	S. No.	Course Code	Course Title	Theory	Lab
1	HNAD-2101	Micronutrients in Human Nutrition	3	0	1	HNAD-2104/	Human Physiology – II	2	1
2	HNAD-2102	Human Anatomy	2	1		HNAD-2204			
	HNAD-2202	,				HNAD-2105/ HNAD-2205	Assessment of Nutritional Status	2	1
3	HNAD-2103	Human Physiology-I	2	1	3	HNAD-2106	Nutrition Through the Life Cycle	3	0
	HNAD-2203				4	HNAD-2107/	General Pathology	2	1
4	4 FDST-2104 Food Safety		3	0		HNAD-2207	central radiology		1
_	FDST-2105/ FDST-2205		2	1	5	FDST-2101/ FDST-2201	Food Analysis	1	2
6	FROT 2407 F. I.G.		3	0	6	FDST-2109/ FDST-2209	Dairy Technology	2	1
7	FDST-4102 Food Biotechnology		2	1		1031 2203		2	1
	FDST-4203		_	_					
Credit F	Credit Hours		21	21 Credit Hours			18		

Semester 5

Semester 6

			Credit	Hrs.	a 11		o =51	Credit	t Hrs.
S. No.	Course Code	Course Title	Theory	Lab	S. No.	Course Code	Course Title	Theory	Lab
1	HNAD-3101/ HNAD-3201	Dietetics-I	2	1	1	HNAD-3106 HNAD-3107/	Nutritional Disorders	3	0
2	HNAD-3102/ HNAD-3202	Public Health Nutrition	2	1	2	HNAD-3207	Dieteties II	2	1
3	HNAD-3103/ HNAD-3203	Meal Planning and Management	2	1		HNAD-3108	Nutrition in Emergencies	_	
4	HNAD-3204 Nutritional Education and Awareness		2	1	3	HNAD-3109 HNAD-3110/	Global Food Issues Infant and Young Child Feeding	3	0
5	5 FDST-4103 Food Laws and Regulations		3	0	5	HNAD-3210	mane and roung ermar ecang	2	J
6	6 HNAD-3105/ HNAD-3205 Sports Nutrition		2	1	6	FDST-4104	Food Quality Management	3	1
					7	FDST-2103	Food Plant Layout and Design	2	
Credit F	Credit Hours		18	18 Credit Hours			20	P	

Semester 7

Semester 8

		a with	Credi	t Hrs.			Course Title		Credit	Hrs.
S. No.	Course Code	Course Title	Theory	Lab	S. No.	Course Code	Course Title	1	heory	Lab
1	HNAD-4101/ HNAD-4201	Nutritional Practices in Clinical Care	2	1	1	HNAD-4400	Internship	()	04
2	HNAD-4102/ HNAD-4202	Dietetics-III	2	1	Credit I	lours				04
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 H	lours		19	e						
GRAN	D TOTAL								138	

MS Food Technology

List of Core Courses

List of Elective Courses (i)

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

1 FDST-6101 Food Additive 3 0 2 FDST-6102/ Baking Science and Technology 2 1 FDST-6202 3 FDST-6103/ Technology of Processed Meat 2 1 FDST-6203 4 FDST-6104/ Dairy Processing-I 2 1	S. No.	Course Code	Course Title	Theory	Lab.
FDST-6202 3 FDST-6103/ Technology of Processed Meat 2 1 FDST-6203 4 FDST-6104/ Dairy Processing-I 2 1	1	FDST-6101	Food Additive	3	0
FDST-6203 4 FDST-6104/ Dairy Processing-I	2		Baking Science and Technology	2	1
Dairy Processing-I	3		Technology of Processed Meat	2	1
1 D31-0204	4	FDST-6104/ FDST-6204	Dairy Processing-I	2	1

List of Elective Courses (ii)

List of Elective Courses (iii)

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

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 18	FDST-6117/ FDST-6217	Meat Science Food Industrial Waste Management	2	1
19	FDST-6118	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

List of Elective Courses (i)

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	Nutrigenomics and Proteomics	2	1
	HNAD-5203			
4	HNAD-5104	Seminar and Special Problem	3	0

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

List of Elective Courses (ii)

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

List of Elective Courses (iii)

S. No.	Course Code	Course Title	Theory	Lab.
15	HNAD-6115	Foodand 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

List of Elective Courses

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

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

S. No.	Course Code	Course Title	Theory	Lab.	S. No.	Course Code	Course Title	Theory	Lab.
5	FSQM-6105	Public Health	3	0	12	FSQM-6112 FSQM-6212	Food Sampling Techniques and Analysis	1	2
6	FSQM-6106	Hygiene and Food Plant Sanitation	3	0	13	FSQM-6113	Food Related Legal System in Pakistan	3	0
7	FSQM-6107	Food Labeling	3	0	14	FSQM-6114 FSQM-6214	Food Inspection, Investigation and Judgment	2`	1
	·	1 Cod Labelling			15	FSQM-6115	Food Safety Standards and Trades	3	0
8	8 FSQM-6108 Safe Handling of Foo	Safa Handling of Foods	3	3 0	16	FSQM-6116	Compliance Strategies and Effective	3	0
		Sale Harlamigori Cods			17	FDST-6101	Food Additive	3	0
9	FSQM-6109	Preharvest and Postharvest Food Safety	3	0	18	FDST-6109/ FDST-6209	Nutraceuticals and Functional Foods	2	1
10	FSQM-6110	Consumer Behavior & Preferences-	3	0	19	FDST-6110	Food Supply Chain Management	3	0
11	FSQM-6111	Food of Animal Origin	2	1	20	FDST-6112	Food Toxicology	3	0
	FSQM-6211				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)