



NPI University of Bangladesh
Department of Food Engineering

Year/Level/Semester/Term wise distribution of courses (For students HSC holders)

Course Code	Course Title	Credit Hours	Credit (semester)	Credit (year)	
1st Year -1st Semester					
0721 FE 1101	Introduction to Food Science, Technology and Engineering	3	16	37	
0915 FE1103	Introduction to Nutrition	3			
0531 FE1105	Inorganic and Analytic Chemistry	2			
0531 FE1106	Inorganic and Analytic Chemistry Practical	1			
0715 FE1107	Basics of Machines and Engineering	2			
0541 MAT 1101	Mathematics	2			
ENG 1101	English	3			
1st Year -2nd Semester					
0512 FE 1201	Elementary Biochemistry	3	21		
0531 FE1203	Organic Chemistry	2			
0531 FE 1204	Organic Chemistry Practical	1			
0713 FE 1205	Renewable Energy in Food Processing	2			
0721 FE 1207	Instrumental Methods of Food Analyses	3			
0721 FE 1208	Instrumental Methods of Food Analyses practical	1			
0915 FE 1209	Dietetics and Nutrition	3			
0915 FE 1210	Dietetics and Nutrition Practical	1			
0715 FE1211	Fundamental and Principle of Machineries and Engineering	3			
0612 CSE 1101	Computer Fundamentals	2			

2nd Year -1st Semester					
0512 FE2101	Nutritional Biochemistry	3	21	41	
0512 FE 2102	Nutritional Biochemistry Practical	1			
0721 FE 2103	Food Additives	3			
0721 FE 2105	Unit Operations in Food Industries	3			
0721 FE 2106	Unit Operations in Food Industries Practical	1			
0511 FE 2107	Basic of Food Microbiology	3			
0511 FE 2108	Basic of Food Microbiology Practical	1			
0915 FE 2109	Methods in Nutritional Assessment	3			
0542 STA 1101	Statistics	3			
2nd Year -2nd Semester					
0721 FE 2201	Microbial Food Processing and Products	3	20		
0721 FE 2203	Principles of Food Preservation	3			
0711 FE 2205	Food Biotechnology and Bioengineering	3			
0721 FE 2207	Food Packaging	3			
0721 FE 2208	Food Packaging Practical	1			
0912 FE 2209	Physiology	2			
0912 FE 2210	Physiology Practical	1			
0721 FE 2211	Confectionery and Baking Engineering	3			
0721 FE 2212	Confectionery and Baking Engineering Practical	1			

3rd Year -1st Semester					
0711 FE 3101	Fats & Oil Processing Engineering	3	20	39	
0711 FE 3102	Fats & Oil Processing Engineering Practical	1			
0721 FE 3103	Sugar Engineering	3			
0721 FE 3105	Cereals and Legumes Processing Engineering	3			
0721 FE 3106	Cereals and Legumes Processing Engineering Practical	1			
0721 FE 3107	Dairy Science and Engineering	3			
0721 FE 3108	Dairy Science and Engineering Practical	1			
0417 FE 3109	Quality Control & Assurances	3			
0721 FE 3111	Food Storage Engineering	2			
3rd Year – 2nd Semester					
0532 FE 3201	Marine Resources Processing Engineering	2	19		
0532 FE 3202	Marine Resources Processing Engineering Practical	1			
0511 FE 3203	Modern Food Microbiology	3			
0511 FE 3204	Modem Food Microbiology Practical	1			
0721 FE 3205	Food Processing Engineering	2			
0721 FE 3206	Food Processing Engineering Practical	1			
0721 FE 3207	Water and Beverage Processing Engineering	3			
0721 FE 3208	Water and Beverage Processing Engineering Practical	1			
0712 FE 3209	Environmental Food Engineering	2			
0188 FE 3212	Research Methodology	3			

4th Year -1st Semester				
0721 FE 4101	Advanced Food Processing Engineering	2	17	34
0721 FE 4102	Advanced Food Processing Engineering Practical	1		
0721 FE 4105	Food Analysis and Sensory Evaluation	3		
0721 FE 4106	Food Analysis and Sensory Evaluation Practical	1		
0711 FE4107	Plant Planning, Design & Industrial Development	3		
0721 FE 4109	Post-harvest Technology of Agricultural Products	3		
0721 FE 4110	Post-harvest Technology of Agricultural Products Practical	1		
0721 FE 4111	Food Product Development Technology	3		
4th Year – 2nd Semester				
0421 FE 4201	Laws, Regulation Policies and Ethics	3	17	
0414 FE 4203	Food Marketing Management	3		
0110 GEN 303	Bangladesh Studies	4		
FE 4205	Internship	3		
FE 4207	Thesis/Term Paper	4		
Total Credit			151	