

**First Year Term - II**

Course No.	Course Title	Contract Hour/Week	Contract Hour/Week	Credit Hour
		Theory	Sessional	
<u>Core Courses</u>				
BGE-1201	Plant Physiology	3.0	-	3.0
BGE-1203	Microbiology	3.0	-	3.0
BGE-1204	Microbiology Sessional & Field Work	-	2.0	1.0
BGE-1205	Principles of Genetics	3.0	-	3.0
BGE-1206	Principles of Genetics Sessional & Field Work	-	2.0	1.0
BGE-1207	Biomolecules	3.0	-	3.0
BGE-1208	Biomolecules Sessional	-	2.0	1.0
Chem-1263	Organic Chemistry and Spectroscopy	2.0	-	2.0
Chem-1264	Organic Chemistry and Spectroscopy Sessional	-	2.0	1.0
<u>Optional Courses</u>				
BGE-1209	Evolutionary and Functional Zoology	2.0	-	2.0
BGE-1210	Evolutionary and Functional Zoology Sessional & Field Work	-	2.0	1.0
SOC-1211	Principles of Sociology	2.0	-	2.0
CSE-1250	Fundamental in Computer and IT Sessional	-	4.0	2.0

**Second Year Term – II**

Course No.	Course Title	Contract Hour/Week	Contract Hour/Week	Credit Hour
		Theory	Sessional	
<u>Core Courses</u>				
BGE-2201	Plant Cell and Tissue Culture	3.0	-	3.0
BGE-2202	Plant Cell and Tissue Culture Sessional & Field Work	-	2.0	1.0
BGE-2203	Metabolism	2.0	-	2.0
BGE-2205	Biopharmaceutical Chemistry	3.0	-	3.0
BGE-2207	Animal Genetics and Breeding	3.0	-	3.0
BGE-2208	Animal Genetics and Breeding Sessional & Field Work	-	2.0	1.0
BGE-2209	Bioprocess Engineering	3.0	-	3.0
BGE-2210	Bioprocess Engineering Sessional	-	2.0	1.0
BGE-2211	Microbial Genetics	3.0	-	3.0
BGE-2212	Microbial Genetics Sessional	-	2.0	1.0
<u>Optional Courses</u>				
BGE-2215	Cell and Developmental Biology	2.0	-	2.0

### Third Year Term – II

Course No.	Course Title	Contract Hour/Week	Contract Hour/Week	Credit Hour
		Theory	Sessional	
<b>Core Courses</b>				
BGE-3201	Fermentation and Bioreactor Design	3.0	-	3.0
BGE-3203	Technology Transfer	3.0	-	3.0
BGE-3204	Technology Transfer Sessional & Field Work	-	2.0	1.0
BGE-3205	Bioinformatics	2.0	-	2.0
BGE-3206	Bioinformatics Sessional	-	2.0	1.0
BGE-3207	Medical and Pharmaceutical Biotechnology	3.0	-	3.0
BGE-3208	Medical and Pharmaceutical Biotechnology Sessional & Field Work	-	2.0	1.0
BGE-3209	Molecular Breeding	3.0	-	3.0

### Fourth Year Term – II

Course No.	Course Title	Contract Hour/Week	Contract Hour/Week	Credit Hour
		Theory	Sessional	
<b>Core Courses</b>				
BGE-4201	Food Biotechnology	3.0	-	3.0
BGE-4202	Food Biotechnology Sessional & Field Work	-	2.0	1.0
BGE-4203	Environmental Biotechnology	3.0	-	3.0
BGE-4204	Environmental Biotechnology Sessional & Field Work	-	2.0	1.0
BGE-4205	Genomics and Proteomics	3.0	-	3.0
BGE-4206	Thesis/Review Report		8.0	4.0

### MS First Year Second Term Thesis and Non-thesis

Course No.	Course Title	Contact Hour/Week	Contact Hour/Week	Credit Hour
		Theory	Sessional	
<b>Core Course</b>				
BGE-5201	Advanced Animal Biotechnology	3	-	3.0
BGE-5203	Advanced Plant Biotechnology	3	-	3.0
BGE-5205	Medical and Diagnostic Microbiology	3	-	3.0
<b>Optional Courses</b>				
BGE-5209	Advanced Food Biotechnology	3	-	3.0