

**B.Sc. Biochemistry**
**Year: Third / Semester: Fifth (Odd Semester)**

S. N.	Course Code	Course Title	Theory / Practical	Course Type	Periods/ Per week			Continuous Assessment			End Semester Examination (ESE)	Subject Total	Total Credits	Attributes							United Nations Sustainable Development Goals (SDGs)	
					Lecture (L)	Tutorial (T)	Practical (P)	Class Test (CT)	Teacher Assessment (TA)	Total				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics		
1	B110501T / BS344	Bioenergetics and Metabolism	Theory	Core Major (Compulsory)	3	1	0	15	10	25	75	100	04	✓	✓	✓		✓		✓		
2	B100503T / BS319	Genetic Engineering	Theory		3	1	0	15	10	25	75	100	04	✓	✓	✓		✓				
3	B110503T / BS345	Plant Biochemistry	Theory		3	1	0	15	10	25	75	100	04			✓		✓				
4	B110504T / BS346	Industrial and environmental biotechnology	Theory		3	1	0	15	10	25	75	100	04	✓	✓	✓		✓		✓		
5	B110502P / BS347	Metabolism Lab	Practical		0	0	4	15	10	25	75	100	02	✓	✓	✓						
6	B100504P / BS320	Genetic Engineering Lab	Practical		0	0	4	15	10	25	75	100	02	✓	✓	✓		✓				
7	Z050501/MT337	Analytic Ability and Digital Awareness	Theory	Co-curricular (Compulsory)	2	0	0	15	10	25	75	100	02	✓	✓	✓			✓	✓		
8	B100507R / BS392	Industrial visit and survey report	Practical	Core Major	0	0	8	0	0	0	100	100	04	✓	✓	✓		✓	✓	✓		
<b>TOTAL</b>					<b>14</b>	<b>4</b>	<b>16</b>	<b>105</b>	<b>70</b>	<b>175</b>	<b>625</b>	<b>800</b>	<b>26</b>									



## B.Sc. Biochemistry

Year: Third / Semester: Sixth (Even Semester)

S. N.	Course Code	Course Title	Theory / Practical	Course Type	Periods/ Per week			Continuous Assessment			End Semester Examination (ESE)	Subject Total	Total Credit Points	Attributes							United Nations Sustainable Development Goals (SDGs)					
					Lecture (L)	Tutorial (T)	Practical (P)	Class Test (CT)	Teacher Assessment (TA)	Total				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics						
1	B110603T / BS353	Biostatistics, Bioinformatics and Computer application in Biochemistry	Theory	Core Major (Compulsory)	3	1	0	15	10	25	75	100	04	✓	✓	✓		✓				8	9			
2	B110601T / BS355	Food and Nutritional Biochemistry	Theory		3	1	0	15	10	25	75	100	04	✓	✓	✓							2	3		
3	B100607T / BS313	Bionanotechnology	Theory		3	1	0	15	10	25	75	100	04	✓	✓	✓							3			
4	B110604P / BS354	Bioinformatics, Biostatistics and Computer application Lab	Practical		0	0	4	15	10	25	75	100	02	✓	✓	✓							8	9		
5	B110602P / BS356	Food and Nutritional Biochemistry Lab	Practical		0	0	4	15	10	25	75	100	02	✓	✓	✓							2	3		
6	B100605T / BS394	Applied Biotechnology	Theory	Major Elective Course	3	1	0	15	10	25	75	100	04	✓	✓	✓		✓	✓	✓			2	3	8	9
7	B100606T / BS395	Genomics, Proteomics and Metabolomics	Theory		3	1	0	15	10	25	75	100	04	✓	✓	✓		✓					3	9		
8	Z06060/LN343	Communication Skills and Personality Development	Theory	Co-curricular (Compulsory)	2	0	0	15	10	25	75	100	02	✓	✓	✓			✓	✓			10	11	12	
9	B100608R / BS396	Research Project (minor) and seminar	Practical	Core Major	0	0	12	0	0	0	100	100	06	✓	✓	✓		✓	✓	✓			9	12		
<b>TOTAL</b>					<b>14</b>	<b>4</b>	<b>20</b>	<b>105</b>	<b>70</b>	<b>175</b>	<b>625</b>	<b>800</b>	<b>28</b>													