















**CERTIFICATE IN BIOTECHNOLOGY**

Year: First / Semester: First (Odd 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	B100101T/BS103	Introduction to Cell biology and genetics	Theory	Core	3	1	0	15	10	25	75	100	04			✓								
2	B100102T/BS104	Biochemistry and Metabolism	Theory		3	1	0	15	10	25	75	100	04	✓	✓	✓		✓						
3	B100103P/BS105	Introduction to Cell biology and genetics Lab	Practical		0	0	4	15	10	25	75	100	02	✓		✓								
4	B100104P/BS106	Basic Biochemistry Lab	Practical		0	0	4	15	10	25	75	100	02	✓	✓	✓								
5	B100206V/BS108	Animal and Plant Biotechnology	Theory + Practical	Vocational	2	0	1	-	-	-	100	100	03	✓	✓	✓								
6	Z010101T/BE105	Food Nutrition and Hygiene	Theory	Co-curricular (Compulsory)	2	0	0	15	10	25	75	100	02	✓	✓	✓		✓	✓	✓				
7	A050101T/HM101	Rashtra Gaurav	Theory	Compulsory	0	0	0	0	0	0	0	0	00	✓	✓	✓		✓	✓	✓				
<b>TOTAL</b>					<b>10</b>	<b>2</b>	<b>9</b>	<b>75</b>	<b>50</b>	<b>125</b>	<b>475</b>	<b>600</b>	<b>17</b>											

**CERTIFICATE IN BIOTECHNOLOGY**

Year: First / Semester: Second (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	B100201T/BS115	Human Physiology	Theory	Core	3	1	0	15	10	25	75	100	04	✓		✓							
2	B100203T/BS110	Plant structure and Physiology	Theory		3	1	0	15	10	25	75	100	04	✓				✓					
3	B100202P/BS152	Human Physiology Lab	Practical		0	0	4	15	10	25	75	100	02	✓		✓							
4	B100204P/BS119	Plant structure and Physiology lab	Practical		0	0	4	15	10	25	75	100	02	✓	✓	✓		✓					
5	B030202T/MT148	Basic Mathematics and Statistics	Theory	Minor Elective	5	1	0	15	10	25	75	100	06	✓	✓	✓							
6	A040209T/LN109	Basics of Communication	Theory											✓		✓							
7	B100205V/BS381	Food Adulteration	Theory + Practical	Vocational	2	0	1	-	-	-	100	100	03	✓	✓	✓			✓	✓			
8	Z020201/NS110	First Aid and Health	Theory	Co-curricular (Compulsory)	2	0	0	15	10	25	75	100	02	✓	✓	✓			✓	✓			
9	B100208T/BS116	Artificial Intelligence in Biological Sciences	Theory	Compulsory	0	0	0	0	0	0	0	0	00	✓	✓	✓			✓	✓			
<b>TOTAL</b>					<b>15</b>	<b>3</b>	<b>9</b>	<b>90</b>	<b>60</b>	<b>150</b>	<b>550</b>	<b>700</b>	<b>23</b>										