

Teaching Scheme					Contact Hours/Week			Exam Duration		Relative Weight				
S. No.	Subject Code	Course Title	Subject Area	Credits	L	T	P	Theory	Practical	CWS	PRS	MTE	ETE	PRE
Semester-I														
1	BT-501	Biochemistry	PCC	3	3	-	-	3	-	20-30	-	20-30	40-50	-
2	BT-502	Cell and Molecular Biology	PCC	3	3	-	-	3	-	20-30	-	20-30	40-50	-
3	BT-503	Plant and Animal Biotechnology	PCC	3	3	-	-	3	-	20-30	-	20-30	40-50	-
4	BT-504	Microbiology	PCC	2	2	-	-	2	-	20-30	-	20-30	40-50	-
5	BT-505	Genetics	PCC	2	2	-	-	2	-	20-30	-	20-30	40-50	-
6	BT-506	Basics of Mathematics and Statistics	PCC	2	2	-	-	2	-	20-30	-	20-30	40-50	-
7	BT-507	Basics of Chemistry and Physics	PCC	2	1.5	0.5	-	2	-	20-30	-	20-30	40-50	-
8	BT-508	Laboratory I: Biochemistry & Analytical Techniques	PCC	3	-	-	6	-	-	-	100	-	-	-
9	BT-509	Laboratory II: Microbiology	PCC	2	-	-	4	-	-	-	100	-	-	-
10	BT-510	Laboratory III: Plant and Animal Biotechnology	PCC	2	-	-	4	-	-	-	100	-	-	-
Semester-II														
11	BT-511	Genetic Engineering	PCC	3	3	-	-	3	-	20-30	-	20-30	40-50	-
12	BT-512	Immunology	PCC	3	3	-	-	3	-	20-30	-	20-30	40-50	-
13	BT-513	Bioinformatics	PCC	3	2	1	-	3	-	20-30	-	20-30	40-50	-
14	BT-514	Genomics and Proteomics	PCC	2	2	-	-	2	-	20-30	-	20-30	40-50	-
15	BT-515	Molecular Diagnostics	PCC	2	2	-	-	2	-	20-30	-	20-30	40-50	-

16	BT-516	Research methodology and Scientific communication skill	PCC	2	2	-	-	2	-	20-30	-	20-30	40-50	-
17	BT-517	Laboratory IV: Molecular Biology and Genetic Engineering	PCC	3	-	-	6	-	-	-	100	-	-	-
18	BT-518	Laboratory V: Immunology	PCC	3	-	-	6	-	-	-	100	-	-	-
19	BT-519	Seminar	PCC	1	-	1	-	1	-	-	-	-	100	-
Elective-I														
	BT 520	Biological Imaging	PEC	2	2	-	-	2	-	20-30	-	20-30	40-50	-
	BT 521	Microbial Technology	PEC	2	2	-	-	2	-	20-30	-	20-30	40-50	-
	BT 522	Environmental Biotechnology	PEC	2	2	-	-	2	-	20-30	-	20-30	40-50	-
	BT 523	Drug Discovery and Development	PEC	2	2	-	-	2	-	20-30	-	20-30	40-50	-
	BT 524	Structural Biology	PEC	2	2	-	-	2	-	20-30	-	20-30	40-50	-
	BT 525	Biophysical Techniques	PEC	2	2	-	-	2	-	20-30	-	20-30	40-50	-
Semester-III														
20	BT-601	Bioprocess Engineering & Technology	PCC	3	3	-	-	3	-	20-30	-	20-30	40-50	-
21	BT-602	Emerging Technologies	PCC	2	2	-	-	2	-	20-30	-	20-30	40-50	-
22	BT-603	Critical Analysis of Classical Papers	PCC	2	2	-	-	2	-	20-30	-	20-30	40-50	-
23	BT-604	Bio-entrepreneurship	PCC	2	2	-	-	2	-	20-30	-	20-30	40-50	-
24	BT-605	Intellectual Property Rights, Biosafety and Bioethics	PCC	2	2	-	-	2	-	20-30	-	20-30	40-50	-
25	BT-606	Project Proposal Preparation & Presentation	PCC	2	1	1	-	-	-	20-30	-	20-30	40-50	-
26	BT-607	Laboratory VI: Bioprocess Engineering & Technology	PCC	4	-	-	8	-	-	-	100	-	-	-
27	BT-608	Laboratory VII: Bioinformatics	PCC	2	-	-	4	-	-	-	100	-	-	-

28	BT-609	Dissertation-minor	PCC	4	-	-	4	-	-	-	100	-	-	-
29	BT 610	Seminar	PCC	01	-	01	-	1	-	-	-	-	100	-
Semester-IV														
30	BT 611	Dissertation-major	PCC	20	-	-	40	-			100			
Elective-II														
	BT 612	Computational Biology	PEC	2	2	-	-	2	-	20-30	-	20-30	40-50	-
	BT 613	Nano-Biotechnology	PEC	2	2	-	-	2	-	20-30	-	20-30	40-50	-
	BT 614	Protein Engineering	PEC	2	2	-	-	2	-	20-30	-	20-30	40-50	-
	BT 615	Advance cell culture technologies	PEC	2	2	-	-	2	-	20-30	-	20-30	40-50	-
	BT 616	Vaccines	PEC	2	2	-	-	2	-	20-30	-	20-30	40-50	-