

Semester V

S. No.	Course code	Course Title	Type of Paper	Period Per hr/week/sem			Evaluation Scheme				Sub. Total	Credit	Total Credits	Attributes							
				L	T	P	CT	TA	Total	ESE				Employ ability	Entrep reneurship	Skill Develop ment	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	
THEORIES																					
1	BE-301	Biophysical Techniques	DC	2	1	0	40	20	60	40	100	2:1:0	3	√	√	√					
2	BE-302	Bioprocess Engineering	DC	3	1	0	40	20	60	40	100	3:1:0	4	√	√	√					
3	BE-303	Genetic Engineering	DC	3	1	0	40	20	60	40	100	3:1:0	4	√	√	√					
4	BE-304	Mass Transfer Operations-I	DC	3	1	0	40	20	60	40	100	3:1:0	4			√					
5	BE-305	Cell Biology	DC	2	1	0	40	20	60	40	100	2:1:0	3	√	√	√					
6	BE-308	Plant Molecular Biology	DE	2	1	0	40	20	60	40	100	2:1:0	3	√	√	√					
	BE-309	Animal Biotechnology	DE	2	1	0	40	20	60	40	100	2:1:0	3	√	√	√					
	BE-310	Principles of Biochemical Engineering	DE	2	1	0	40	20	60	40	100	2:1:0	3	√		√					
PRACTICAL																					
7	BE-306	Bioprocess Engineering Lab	DC	0	0	6	40	20	60	40	100	0:0:3	3	√	√	√					
8	BE-307	Genetic Engineering Lab	DC	0	0	4	40	20	60	40	100	0:0:2	2	√	√	√					
9	*CS-335	Basics of Database Management System	ESA	2	1	0	40*	20*	60*	40*	100*	2:1:0	0								
Total				17	7	10	320	160	480	320	800	26	26								

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THEORIES																				
1	BE-311	Advanced Bioinformatics	DC	3	1	0	40	20	60	40	100	3:1:0	4	√	√	√				
2	BE-312	Plant Biotechnology	DC	2	1	0	40	20	60	40	100	2:1:0	3	√	√	√				
3	BE-313	Fermentation Biotechnology	DC	3	1	0	40	20	60	40	100	3:1:0	4	√	√	√				
4	BE-314	Mass Transfer Operations-II	DC	3	1	0	40	20	60	40	100	3:1:0	4			√				
5	BE-315	Genetics	DC	2	1	0	40	20	60	40	100	2:1:0	3	√	√	√				
6	BE-318	Plant Genomics	DE	2	1	0	40	20	60	40	100	2:1:0	3	√	√	√				
	BE-319	Medical Biotechnology	DE	2	1	0	40	20	60	40	100	2:1:0	3	√	√	√				
	BE-320	Downstream Processing	DE	2	1	0	40	20	60	40	100	2:1:0	3	√	√	√				
8		Open Elective-I	OE	3	1	0	40	20	60	40	100	3:1:0	4							
PRACTICAL																				
9	BE-316	Bioinformatics Lab	DC	0	0	4	40	20	60	40	100	0:0:2	2	√	√	√				
10	BE-317	Plant Tissue Culture & Genetics Lab	DC	0	0	6	40	20	60	40	100	0:0:3	3	√	√	√				
Total				18	7	10	360	180	540	360	900	30	30							