COURSE VS POs & PSOs MAPPING

S.No.	Course code	Course Name	Course category	L	T	P	S	Cr	Pre-Req.	PO												PSO	
										1	2	3	4	5	6	7	8	9	10	11	12	1	2
1	19UC1101	BASIC ENGLISH	HSS	0	0	4	0	2	NIL								1	1					
2	19UC1202	ENGLISH PROFICIENCY	HSS	0	0	4	0	2	NIL							1	1			2			
3	19UC2103	PROFESSIONAL COMMUNICATION SKILLS	HSS	0	0	4	0	2	NIL	1			1							1			
4	19UC2204	APTITUDE BUILDER-I	HSS	0	0	4	0	2	NIL	1			1							1			
5	19UC3105	APTITUDE BUILDER-II	HSS	0	0	4	0	2	NIL	1			1							1			
6	19UC3206	CAMPUS TO CORPORATE	HSS	0	0	4	0	2	NIL	1													
7	19UC0009	ECOLOGY & ENVIRONMENT	HSS	2	0	0	0	0	NIL												1		
8	19UC0008	INDIAN CONSTITUTION	HSS	2	0	0	0	0	NIL						2						1		
9	19UC0007	INDIAN HERITAGE AND CULTURE	HSS	2	0	0	0	0	NIL								2						
10	19UC0010	UNIVERSAL HUMAN VALUES & PROFESSIONAL ETHICS	HSS	2	0	0	0	0	NIL											2			
11	19PH1005	ENGINEERING PHYSICS	BS	3	0	2	0	4	NIL	2				2									
12	19CY1101	ENGINEERING CHEMISTRY	BS	3	0	2	0	4	NIL	2				2									
13	19MT1101	MATHEMATICS FOR COMPUTING	BS	2	2	0	2	4.5	NIL	2													
14	19MT2001	MATHEMATICAL METHODS	BS	2	1	0	0	3	NIL			2						2					
15	19BT1001	BIOLOGY FOR ENGINEERS	BS	2	0	0	0	2	NIL	2													
16	19MT2011	BIO STATISTICS	BS	2	1	0	0	3	NIL			2						2					
17	19SC1101	COMPUTATIONAL THINKING FOR DESIGN	ES	3	0	2	6	5.5	NIL	1	2	3	2	2				3		2			
18	19ME1103	DESIGN TOOLS WORKSHOP - I	ES	0	0	4	0	2	NIL	2				2									
19	19SC1209	DESIGN TOOLS WORKSHOP - II	ES	0	0	4	0	2	NIL	1			1							1			
20	19SC1203	DATA STRUCTURES	ES	3	0	2	3	4.75	NIL						1	1							
21	19SC1203	OBJECT ORIENTED PROGRAMMING	ES	3	0	2	3	4.75	NIL	2	2		2										
22	19BT2103	BIOCHEMICAL THERMODYNAMICS	ES	3	1	0	0	4	NIL			2		2									
23	19BT2101	PROCESS ENGINEERING PRINCIPLES	ES	2	1	0	0	3	NIL	2		2											
24	19BT2102	TRANSPORT PROCESSES IN BIOLOGICAL SYSTEMS	ES	3	0	2	0	4	NIL	2	2	2	2					2	2			2	2
25	19BT1201	CELL BIOLOGY	PC	3	1	2	0	5	NIL		3												
26	19BT2105	BIOCHEMISTRY	PC	3	0	2	0	4	NIL	1	2												
27	19BT2108	MOLECULAR BIOLOGY	PC	3	1	0	0	4	NIL		1	2	2										
28	19BT2109	IMMUNOLOGY	PC	3	0	2	0	4	NIL		2			2							3		
29	19BT3110	BIOINFORMATICS	PC	3	0	2	0	4	NIL				1										2
30	19BT3111	GENETIC ENGINEERING	PC	3	0	2	0	4	NIL		2			2									
31	19BT3112	FERMENTATION TECHNOLOGY	PC	3	0	2	0	4	NIL	2									2				
32	19BT3113	BIOCHEMICAL REACTION ENGINEERING	PC	3	0	2	0	4	NIL		2			2									3

33	19BT3201	PLANT BIOTECHNOLOGY	PC	3	0	2	0	4	NIL			2												2
34	19BT3202	DOWNSTREAM PROCESSING	PC	3	0	2	0	4	NIL	2	2													
35	19BT2106	MICROBIOLOGY	PE	3	0	2	0	4	NIL	2	2													
36	19BT2107	BIOANALYTICAL TECHNIQUES	PE	3	0	2	0	4	NIL		3			3							2			
37	19TS1001	SKILLING FOR ENGINEERS-I (MEDICAL LAB TECHNOLOGY)	SKE	0	0	0	8	2	NIL	1	2													3
38	19TS1002	SKILLING FOR ENGINEERS-II (PROCESS ENGINEERING TOOLS)	SKE	0	0	0	8	2	NIL						2		3							
39	19TS1003	SKILLING FOR ENGINEERS-3 (ANIMAL CELL CULTURE)	SKE	0	0	0	8	2	NIL					3										2
40	19BT3150	TECHNICAL PROFICIENCY AND TRAINING- I (GENOMICS)	SKE	1	0	0	0	1	NIL		2			3										2
41	19BT3250	TECHNICAL PROFICIENCY AND TRAINING-II (BIOPROCESS)	SKE	1	0	0	0	1	NIL		3			2										2
42	19UC1001	DESIGN THINKING AND INNOVATION-I	SKE	1	0	0	4	2	NIL	1	2	3	2	2				3		2				
43	19UC1201	DESIGN THINKING AND INNOVATION-II	SKE	1	0	0	4	2	NIL	1	2	3	2	2				3		2				
44	19TS1004	SKILLING FOR ENGINEERS-4 (ADVANCED INSTRUMENTATION)	SKE	0	0	0	8	2	NIL		2			3										2
45	19SP2117	YOGA	SKE	0	0	0	2	0	NIL	2			2				2				2	2		
46	19IE2246	INDUSTRIAL TRAINING	PR	0	0	0	8	2	NIL	2			2				2				2	2		
47	19IE3247	TERM PAPER	PR	0	0	4	0	2	NIL	2			2				2				2	2		
48	19IE4048	PROJECT PART-I	PR	0	0	0	24	6	NIL	3		3									2	2		
49	19IE4050	PRACTICE SCHOOL	PR	0	0	0	24	6	NIL	3			3				3				2	2		
50	19IE4051	INTERNSHIP	PR	0	0	0	24	6	NIL	3			3				3				2	2		
51	19IE4049	PROJECT PART-II	PR	0	0	0	24	6	NIL	3			3				3				2	2		
52	19BT3051	MOLECULAR GENETICS	PE	3	0	0	0	3	19BT3111					2										3
53	19BT3052	TRANSGENIC TECHNOLOGY	PE	3	0	0	0	3	19BT3111					3				2				1		
54	19BT3053	MOLECULAR EXPRESSION TECHNOLOGY	PE	3	0	0	0	3	19BT3111			2							1					3
55	19BT3054	GENOMICS AND PROTEOMICS	PE	3	0	0	0	3	19BT3111			3			2				1			1		
56	19BT3055	MOLECULAR MARKERS AND DIAGNOSTICS	PE	3	0	0	0	3	19BT3111				2			2			1					3
57	19BT3056	GENE AND THE ENVIRONMENT	PE	3	0	0	0	3	19BT3111	3			3								2			
58	19BT3057	MICROBIAL GENETICS	PE	3	0	0	0	3	19BT3111	2											3			
59	19BT3058	DNA FORENSICS	PE	3	0	0	0	3	19BT3111			1		2		3					1			
60	19BT3061	MICROBIAL TECHNOLOGY	PE	3	0	0	0	3	19BT2106		2	1							3			3		
61	19BT3062	PHARMACEUTICAL BIOTECHNOLOGY	PE	3	0	0	0	3	19BT2106		3	1		3					3					2
62	19BT3063	METABOLIC ENGINEERING	PE	3	0	0	0	3	19BT2106		2	1		1	3				3			3		
63	19BT3064	BIORESOURCE TECHNOLOGY	PE	3	0	0	0	3	19BT2106						2		3							1
64	19BT3065	BIOPROCESS ECONOMICS AND PLANT DESIGN	PE	0	0	0	4	1	19BT2106			2		1			3					1		
65	19BT3066	ENZYME ENGINEERING	PE	0	0	0	4	1	19BT2106		2			1										3

66	19BT3067	BIOPROCESS VALIDATION AND CGMP	PE	0	0	0	4	1	19BT2106		3			3	1							2	
67	19BT3068	FOOD TECHNOLOGY	PE	0	0	0	6	1.5	19BT2106		2				1								3
68	19BT3069	PHARMACOVIGILANCE AND SAFETY	PE	0	0	0	6	1.5	19BT2106						2		3					1	
69	19BT3071	PERL AND BIOPERL PROGRAMMING	PE	0	0	0	4	1	19BT3110			2			1		2						3
70	19BT3072	BIOMEDICAL INFORMATICS	PE	0	0	0	8	2	19BT3110	2					1							3	
71	19BT3073	MOLECULAR MODELLING AND DRUG DESIGN	PE	0	0	0	8	2	19BT3110	3			3		1								2
72	19BT3074	STRUCTURAL BIOLOGY	PE	0	0	0	16	4	19BT3110	2												3	
73	19BT3075	SYSTEMS BIOLOGY	PE	0	0	0	16	4	19BT3110					2		3							1
74	19BT3076	APPLIED BIOINFORMATICS	PE	3	0	0	0	3	19BT3110			2					2					3	
75	19BT3077	PYTHON AND R PROGRAMMING	PE	3	0	0	0	3	19BT3110	2													3
76	19BT3078	DATA BASE MANAGEMENT SYSTEM	PE	3	0	0	0	3	19BT3110	3			3									2	
77	19BT3081	STEM CELL TECHNOLOGY	PE	3	0	0	0	3	19BT1201		2						3						1
78	19BT3082	HEALTHCARE BIOTECHNOLOGY	PE	3	0	0	0	3	19BT1201					2								3	
79	19BT3083	CANCER BIOLOGY	PE	3	0	0	0	3	19BT1201					3			3						2
80	19BT3084	NEUROBIOLOGY	PE	3	0	0	0	3	19BT1201					2								3	
81	19BT3085	BIOELECTRONICS & BIOSENSORS	PE	3	0	0	0	3	19BT1201									2		3			1
82	19BT3086	TISSUE ENGINEERING	PE	3	0	0	0	3	19BT1201					3			3					2	
83	19BT3087	VIROLOGY	PE	3	0	0	0	3	19BT1201					2									3
84	19BT3088	NANOBIOTECHNOLOGY	PE	3	0	0	0	3	19BT1201									2		3		1	
85	19BT40A1	IPR & PATENT LAWS	OE	3	0	0	0	3	NIL	1	2	3											