COURSE VS POs & PSOs MAPPING

S.No.	Course code	Course Name	Course categor	L	T	P	S	Cr	Pre-Req.	PO												PSO	
										1	2	3	4	5	6	7	8	9	10	11	12	1	2
1	18UC1101	BASIC ENGLISH	HSS	0	0	4	0	2	NIL								2	2					
2	18UC1202	ENGLISH PROFICIENCY	HSS	0	0	4	0	2	NIL							2	2			2			
3	18UC2103	PROFESSIONAL COMMUNICATION SKILLS	HSS	0	0	4	0	2	NIL	2			2							2			
4	18UC2204	APTITUDE BUILDER -1	HSS	0	0	4	0	2	NIL	2			2							2			
5	18UC3105	APTITUDE BUILDER -2	HSS	0	0	4	0	2	NIL	2			2							2			
7	18UC3206	CAMPUS TO CORPORATE	HSS	0	0	4	0	2	NIL	2													
8	18UC0007	INDIAN HERITAGE AND CULTURE*	HSS	2	0	0	0	0	NIL												2		
9	18UC0008	INDIAN CONSTITUTION*	HSS	2	0	0	0	0	NIL						2						2		
10	18UC0009	ECOLOGY & ENVIRONMENT*	HSS	2	0	0	0	0	NIL								2						
11	18UC0010	UNIVERSAL HUMAN VALUES & PROFESSIONAL ETHICS*	HSS	2	0	0	0	0	NIL											2			
12	18PH1005	PHYSICS	BS	3	0	2	0	4	NIL	2				2									
13	18CY1001	ENGINEERING CHEMISTRY	BS	3	0	2	0	4	NIL	2				2									
14	18SC1103	SINGLE VARIABLE CALCULUS AND MATRIX ALGEBRA	BS	3	0	0	0	3	NIL	2													
15	18SC1105	LOGIC AND REASONING	BS	0	0	2	0	1	NIL			2						2					
16	18SC1104	FOUNDATIONS OF COMPUTATIONAL MATHEMATICS	BS	0	0	2	0	1	NIL	2													
17	18MT2001	BASIC MATHEMATICS	BS	3	0	0	0	3	NIL			2						2					
18	18MT2011	BIOSTATISTICS	ES	2	1	0	0	3	NIL	2	2	3	2	2				3		2			
19	18SC1101	PROBLEM SOLVING AND COMPUTER PROGRAMMING	ES	3	0	2	0	4	NIL	2				2									
20	18SC1202	DATA STRUCTURES	ES	3	0	2	0	4	NIL	2			2							2			
21	18BT1002	ENGINEERING GRAPHICS&DESIGN FOR BIOTECHNOLOGISTS	ES	0	0	4	0	2	NIL						1	1							
22	18BT1003	WORKSHOP PRACTICES FOR BIOTECHNOLOGISTS	ES	0	0	4	0	2	NIL	2	2		2										
23	18PH1001	ENGINEERING PHYSICS	ES	3	0	2	0	4	NIL			2		2									
24	18ES2101	PROCESS ENGINEERING PRINCIPLES	ES	2	1	0	0	3	NIL	2		2											

25	18ES2103	BIOCHEMICAL THERMODYNAMICS	ES	3	1	0	0	4	NIL	2	2													
26	18ES2102	TRANSPORT PROCESSES IN BIOLOGICAL SYSTEMS	ES	3	0	2	0	4	NIL	2	2	2	2				2	2				3	3
27	18BT2105	BIOCHEMISTRY	PC	3	0	2	0	4	NIL	1	2											3	3
28	18BT2106	MICROBIOLOGY	PC	3	0	2	0	4	NIL		1	2	2									3	3
29	18BT2107	BIOANALYTICAL TECHNIQUES	PC	3	0	2	0	4	NIL		2			2							3	3	3
30	18BT2109	IMMUNOLOGY	PC	3	0	2	0	4	NIL				1									2	3
31	18BT3110	BIOINFORMATICS	PC	3	0	2	0	4	NIL		2			2								2	2
32	18BT3111	GENETIC ENGINEERING	PC	3	0	2	0	4	NIL	2									2			2	2
33	18BT3112	FERMENTATION TECHNOLOGY	PC	3	0	2	0	4	NIL		2			2								2	2
34	18BT3113	BIOCHEMICAL REACTION ENGINEERING	PC	3	0	2	0	4	NIL			2										2	2
35	18BT3201	PLANT BIOTECHNOLOGY	PC	3	0	2	0	4	NIL	2	2											2	2
36	18BT3202	DOWNSTREAM PROCESSING	PC	3	0	2	0	4	NIL	2	2											2	2
37	18BT1201	CELL BIOLOGY	FC	3	0	0	0	3	NIL		1	2	2									2	2
38	18BT2108	MOLECULAR BIOLOGY	FC	3	0	0	0	3	NIL		1	2	2									2	2
39	18SC1106	TECHNICAL SKILL - 1 (CODING)	SKE	0	0	0	8	2	NIL	1	2												3
40	18SC1207	TECHNICAL SKILL - 2 (CODING)	SKE	0	0	0	6	1.5	NIL						2		3					2	2
41	18TS1001	SKILLING FOR ENGINEERS-1(MEDICAL LAB TECHNOLOGY)	SKE	0	0	0	8	2	NIL					3								2	2
42	18TS1002	SKILLING FOR ENGINEERS-2 (PROCESS ENGINEERING TOOLS)	SKE	0	0	0	8	2	NIL		2			3								2	2
43	18BT3150	TECHNICAL PROFICIENCY & TRAINING -1 (GENOMICS)	SKE	1	0	0	0	1	NIL		3			2								2	2
44	18TS1003	SKILLING FOR ENGINEERS-3 (ANIMAL CELL CULTURE)	SKE	0	0	0	8	2	NIL	1	2	3	2	2				3		2		2	2
45	18BT3250	TECHNICAL PROFICIENCY & TRAINING-2 (BIOPROCESSING)	SKE	1	0	0	0	1	NIL	1	2	3	2	2				3		2		2	2
46	18TS1004	SKILLING FOR ENGINEERS-4 (ADVANCED INSTRUMENTATION)	SKE	0	0	0	8	2	NIL		2			3									2
47	18IE2246	INDUSTRIAL TRAINING	PR	0	0	4	0	0	NIL	2			2				2				2	2	
48	18IE3247	TERM PAPER	PR	0	0	4	0	2	NIL	2			2				2				2	2	
49	18IE4048	PROJECT (PART I)	PR	0	0	0	24	6	NIL	2			2				2				2	2	

50	18IE4049	PROJECT (PART II)	PR	0	0	0	24	6	NIL	3		3									2	2	
51	18IE4050	PRACTICE SCHOOL	PR	0	0	0	24	6	NIL	3			3				3				2	2	
52	18IE4051	SUMMER INTERNSHIP	PR	0	0	0	24	6	NIL	3			3				3				2	2	
53	18BT3251	MOLECULAR GENETICS	PE	3	0	0	0	3	NIL	3			3				3				2	2	
54	18BT3252	TRANSGENIC TECHNOLOGY	PE	3	0	0	0	3	18BT3111					2									3
55	18BT3253	MOLECULAR EXPRESSION TECHNOLOGY	PE	3	0	0	0	3	18BT3111					3				2				1	
56	18BT3254	GENOMICS AND PROTEOMICS	PE	3	0	0	0	3	18BT3111			2							1				3
57	18BT4150	MOLECULAR MARKERS AND DIAGNOSTICS	PE	3	0	0	0	3	18BT3111			3			2				1			1	
58	18BT4151	GENE AND THE ENVIRONMENT	PE	3	0	0	0	3	18BT3111				2			2			1				3
59	18BT4152	MICROBIAL GENETICS	PE	3	0	0	0	3	18BT3111	3			3								2		
60	18BT4153	DNA FORENSICS	PE	3	0	0	0	3	18BT3111	2											3		
61	18BT3255	MICROBIAL TECHNOLOGY	PE	3	0	0	0	3	18BT3111			1		2		3					1		
62	18BT3256	PHARMACEUTICAL BIOTECHNOLOGY	PE	3	0	0	0	3	18BT2106		2	1							3			3	
63	18BT3257	METABOLIC ENGINEERING	PE	3	0	0	0	3	18BT2106		3	1		3					3				2
64	18BT3258	BIORESOURCE TECHNOLOGY	PE	3	0	0	0	3	18BT2106		2	1		1	3				3			3	
65	18BT4154	BIOPROCESS ECONOMICS AND PLANT DESIGN	PE	3	0	0	0	3	18BT2106						2		3						1
66	18BT4155	ENZYME ENGINEERING	PE	3	0	0	0	3	18BT2106			2		1			3					1	
67	18BT4156	BIOPROCESS VALIDATION AND CGMP	PE	3	0	0	0	3	18BT2106		2			1									3
68	18BT4157	FOOD TECHNOLOGY	PE	3	0	0	0	3	18BT2106		3			3	1							2	
69	18BT4158	PHARMACOVIGILANCE AND SAFETY	PE	3	0	0	0	3	18BT2106		2				1								3
70	18BT3259	PERL AND BIOPERL PROGRAMMING	PE	3	0	0	0	3	18BT2106						2		3					1	
71	18BT3260	BIOMEDICAL INFORMATICS	PE	3	0	0	0	3	18BT3110			2			1		2						3
72	18BT3261	MOLECULAR MODELLING AND DRUG DESIGN	PE	3	0	0	0	3	18BT3110	2					1							3	
73	18BT3262	STRUCTURAL BIOLOGY	PE	3	0	0	0	3	18BT3110	3			3		1								2
74	18BT4159	SYSTEMS BIOLOGY	PE	3	0	0	0	3	18BT3110	2												3	

75	18BT4160	APPLIED BIOINFORMATICS	PE	3	0	0	0	3	18BT3110					2		3							1
76	18BT4161	PYTHON AND R PROGRAMMING	PE	3	0	0	0	3	18BT3110			2					2					3	
77	18BT4162	DATA BASE MANAGEMENT SYSTEM	PE	3	0	0	0	3	18BT3110	2													3
78	18BT3263	STEM CELL TECHNOLOGY	PE	3	0	0	0	3	18BT3110	3			3									2	
79	18BT3264	HEALTHCARE BIOTECHNOLOGY	PE	3	0	0	0	3	18BT1201		2						3						1
80	18BT3265	CANCER BIOLOGY	PE	3	0	0	0	3	18BT1201					2								3	
81	18BT3266	NEUROBIOLOGY	PE	3	0	0	0	3	18BT1201					3			3						2
82	18BT4163	BIOELECTRONICS & BIOSENSORS	PE	3	0	0	0	3	18BT1201					2								3	
83	18BT4164	TISSUE ENGINEERING	PE	3	0	0	0	3	18BT1201									2		3			1
84	18BT4165	VIROLOGY	PE	3	0	0	0	3	18BT1201					3			3					2	
85	18BT4166	NANOBIOTECHNOLOGY	PE	3	0	0	0	3	18BT1201					2									3
86	18BT40A1	IPR & PATENT LAWS	OE	3	0	0	0	3	NIL	1	2	3											