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	20UC1101	Integrated Professional English	HSS	0	0	4	0	2	NIL								1	1					
2	20UC1202	English Proficiency	HSS	0	0	4	0	2	NIL							1	1			2			
3	21UC2103	Essential Skills for Employability	HSS	0	0	4	0	2	NIL	1			1							1			
4	21UC2204	Corporate Readiness Skills	HSS	0	0	4	0	2	NIL	1			1							1			
5	21UC0010	Universal Human Values & Professional Ethics	HSS	2	0	0	0	2	NIL	1			1							1			
6	20UC0007	Indian Heritage and Culture	HSS	2	0	0	0	0	NIL	1													
7	20UC0008	Indian Constitution	HSS	2	0	0	0	0	NIL												1		
8	20UC0009	Ecology & Environment	HSS	2	0	0	0	0	NIL						2						1		
9	21UC0011	Gender Sensitization	HSS	2	0	0	0	2	NIL								2						
10	20MT1101	Mathematics for Computing	BS	2	2	0	2	4.5	NIL											2			
11	21MT1011	Mathematical Methods	BS	2	1	0	0	3	NIL	2													
12	21MT2011	BioStatistics	BS	2	1	0	0	3	NIL			2						2					
13	20UC1102	Design Thinking and Innovation-1	BS	1	0	0	4	2	NIL	2													
14	20UC1203	Design Thinking and Innovation-2	BS	1	0	0	4	2	NIL	2				2									
15	21PH1005	Engineering Physics	BS	3	0	2	0	4	NIL			2						2					
16	21CY1001	Engineering Chemistry	BS	3	0	2	0	4	NIL	1	2	3	2	2				3		2			
17	21UC3105	Problem Solving Skills-I	BS	0	0	2	2	1.5	NIL	2				2									
18	21UC3206	Problem Solving Skills-II	BS	0	0	2	2	1.5	NIL	1			1							1			
19	21SC1101	Computational Thinking for Structured Design	ES	3	0	2	6	5.5	NIL						1	1							
20	20ME1103	Design Tools Workshop – I	ES	0	0	4	0	2	NIL	2	2		2										
21	21SC1209	Design Tools Workshop – II	ES	0	0	4	0	2	NIL			2		2									
22	21SC1202	Design of Data Structures	ES	3	0	2	4	5	NIL	2		2											
23	21ES2103	Biochemical Thermodynamics	ES	3	0	0	0	3	NIL	2	2												
24	21ES2101	Process Engineering Principles	ES	3	0	2	0	4	NIL		3												
25	21ES2102	Transport Process in Biological Systems	ES	3	0	2	0	4	NIL	1	2												
26	21BT1211	Cell Biology	PC	3	0	0	0	3	NIL		1	2	2										
27	21BT2105	Biochemistry	PC	3	0	2	0	4	NIL		2			2								3	
28	21BT2108	Molecular Biology	PC	3	0	0	0	3	NIL				1										2
29	21BT2109	Immunology	PC	3	0	2	0	4	NIL		2			2									
30	21BT3110	Bioinformatics	PC	3	0	2	0	4	NIL	2										2			
31	21BT3111	Genetic Engineering	PC	3	0	2	0	4	NIL		2			2									3
32	21BT3112	Fermentation Technology	PC	3	0	2	0	4	NIL			2											2
33	21BT3113	Biochemical Reaction Engineering	PC	3	0	2	0	4	NIL	2	2												
34	21BT3211	Plant and Animal Biotechnology	PC	3	0	2	0	4	NIL	2	2												
35	21BT3212	Downstream Processing	PC	3	0	2	0	4	NIL		3			3								2	
36	21BT3213	Genetics	PC	3	0	0	0	3	NIL	1	2												3
37	21BT2106	Microbiology	PC	3	0	2	0	4	NIL						2		3						
38	21BT2107	Bioanalytical Techniques	PC	3	0	2	0	4	NIL					3									2
39	21BT3051	Molecular Genetics	PC	3	0	0	0	3	21BT3111		2			3									2
40	21BT3052	Transgenic Technology	PC	3	0	0	0	3	21BT3111		3			2									2
41	21BT3053	Molecular Expression Technology	PE	3	0	0	0	3	21BT3111					2									3
42	21BT3054	Genomics and Proteomics	PE	3	0	0	0	3	21BT3111					3				2				1	
43	21BT3055	Molecular markers and Diagnostics	PE	3	0	0	0	3	21BT3111			2							1				3
44	21BT3056	Gene and the Environment	PE	3	0	0	0	3	21BT3111			3			2				1			1	
45	21BT3057	Microbial Genetics	PE	3	0	0	0	3	21BT3111				2			2			1				3

46	21BT3058	DNA Forensics	PE	3	0	0	0	3	21BT3111	3			3									2		
47	21BT3061	Microbial Technology	PE	3	0	0	0	3	21BT2106	2												3		
48	21BT3062	Pharmaceutical Biotechnology	PE	3	0	0	0	3	21BT2106			1		2		3						1		
49	21BT3063	Metabolic Engineering	PE	3	0	0	0	3	21BT2106		2	1							3				3	
50	21BT3064	Bioresource Technology	PE	3	0	0	0	3	21BT2106		3	1		3					3					2
51	21BT3065	Bioprocess Economics and Plant Design	PE	3	0	0	0	3	21BT2106		2	1		1	3				3				3	
52	21BT3066	Enzyme Engineering	PE	3	0	0	0	3	21BT2106						2		3							1
53	21BT3067	Bioprocess Validation and cGMP	PE	3	0	0	0	3	21BT2106			2		1			3						1	
54	21BT3068	Food Technology	PE	3	0	0	0	3	21BT2106		2			1										3
55	21BT3069	Pharmacovigilance and Safety	PE	3	0	0	0	3	21BT2106		3			3	1								2	
56	21BT3079	NGS sequencing and data analysis	PE	3	0	0	0	3	21BT3110		2				1									3
57	21BT3072	Biomedical Informatics	PE	3	0	0	0	3	21BT3110						2		3						1	
58	21BT3073	Molecular Modelling and Drug Design	PE	3	0	0	0	3	21BT3110			2			1		2							3
59	21BT3074	Structural Biology	PE	3	0	0	0	3	21BT3110	2					1								3	
60	21BT3075	Systems Biology	PE	3	0	0	0	3	21BT3110	3			3		1									2
61	21BT3076	Applied Bioinformatics	PE	3	0	0	0	3	21BT3110	2													3	
62	21BT3077	Python and R Programming	PE	3	0	0	0	3	21BT3110					2		3								1
63	21BT3078	Data Base Management System	PE	3	0	0	0	3	21BT3110			2					2						3	
64	21BT3081	Stem cell technology	PE	3	0	0	0	3	21BT1211	2														3
65	21BT3082	Healthcare Biotechnology	PE	3	0	0	0	3	21BT1211	3			3										2	
66	21BT3083	Cancer Biology	PE	3	0	0	0	3	21BT1211		2						3							1
67	21BT3084	Neurobiology	PE	3	0	0	0	3	21BT1211					2									3	
68	21BT3085	Bioelectronics & Biosensors	PE	3	0	0	0	3	21BT1211					3			3							2
69	21BT3086	Tissue Engineering	PE	3	0	0	0	3	21BT1211					2									3	
70	21BT3087	Virology	PE	3	0	0	0	3	21BT1211									2		3				1
71	21BT3088	Nanobiotechnology	PE	3	0	0	0	3	21BT1211					3			3						2	
72	21IE2040	Social Internship	PR	0	0	0	4	1	NIL	2			2				2					2	2	
73	21IE3041	Technical Internship	PR	0	0	0	4	1	NIL	2			2				2					2	2	
74	21IE4042	Industry Internship	PR	0	0	0	4	1	NIL	2			2				2					2	2	
75	21IE2046	Project Based Learning -1	PR	0	0	0	6	1.5	NIL	3		3										2	2	
76	21IE2047	Project based learning -2	PR	0	0	0	6	1.5	NIL	3			3				3					2	2	
77	21IE3043	Term paper	PR	0	0	0	4	1	NIL	3			3				3					2	2	
78	21IE3044	Mid Grad Capstone Project – I	PR	0	0	0	8	2	NIL	3			3				3					2	2	
79	21IE3045	Mid Grad Capstone Project – II	PR	0	0	0	8	2	NIL	3			3				3					2	2	
80	21IE4048/21IE4051/21IE4050	Project / Internship -1/Practice School	PR	0	0	0	16	4	NIL	3			3				3					2	2	
81	21IE4049/21IE4052/21IE4050	Project / Internship 2/Practice School	PTA	0	0	0	16	4	NIL								2		2					
82	21BT40A1	IPR & Patent Laws	OE	3	0	0	0	3	NIL	1	2	3												
83	21BT40A9	Biomaterials	OE	3	0	0	0	3	NIL	1	2	3												
84	21BT40C5	Computer Aided Drug Design	OE	3	0	0	0	3	NIL	1	2	3												