

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	18UC1101	Basic English	HSS	0	0	4	0	2	NIL							1	1									
2	18UC1202	English Proficiency	HSS	0	0	4	0	2	NIL							1	1				2					
3	18UC2103	Professional Communication Skills	HSS	0	0	4	0	2	NIL	1			1								1					
4	18UC2204	Aptitude Builder -1	HSS	0	0	4	0	2	NIL	1			1								1					
5	18UC3105	Aptitude Builder -2	HSS	0	0	4	0	2	NIL	1			1								1					
7	18UC3206	Campus to Corporate	HSS	0	0	4	0	2	NIL	1																
8	18UC0007	Indian Heritage and Culture*	HSS	2	0	0	0	0	NIL															1		
9	18UC0008	Indian Constitution*	HSS	2	0	0	0	0	NIL						2								1			
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	1	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	1			1								1					
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													
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		3															
27	18BT2105	BIOCHEMISTRY	PC	3	0	2	0	4	NIL	1	2															
28	18BT2106	MICROBIOLOGY	PC	3	0	2	0	4	NIL		1	2	2													
29	18BT2107	BIOANALYTICAL TECHNIQUES	PC	3	0	2	0	4	NIL		2			2								3				
30	18BT2109	IMMUNOLOGY	PC	3	0	2	0	4	NIL				1													2
31	18BT3110	BIOINFORMATICS	PC	3	0	2	0	4	NIL		2			2												
32	18BT3111	GENETIC ENGINEERING	PC	3	0	2	0	4	NIL	2										2						
33	18BT3112	FERMENTATION TECHNOLOGY	PC	3	0	2	0	4	NIL		2			2												3
34	18BT3113	BIOCHEMICAL REACTION ENGINEERING	PC	3	0	2	0	4	NIL				2													2
35	18BT3201	PLANT BIOTECHNOLOGY	PC	3	0	2	0	4	NIL	2	2															
36	18BT3202	DOWNSTREAM PROCESSING	PC	3	0	2	0	4	NIL	2	2															
37	18BT1201	CELL BIOLOGY	FC	3	0	0	0	3	NIL		1	2	2													
38	18BT2108	MOLECULAR BIOLOGY	FC	3	0	0	0	3	NIL		1	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									
41	18TS1001	Skilling for Engineers-1(Medical Lab Technology)	SKE	0	0	0	8	2	NIL					3												2
42	18TS1002	Skilling for Engineers-2 (Process Engineering Tools)	SKE	0	0	0	8	2	NIL				2		3											2
43	18BT3150	Technical Proficiency & Training -1 (Genomics)	SKE	1	0	0	0	1	NIL			3		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				
45	18BT3250	Technical Proficiency & Training-2 (Bioprocessing)	SKE	1	0	0	0	1	NIL	1	2	3	2	2					3			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								