



PRATHYUSHA ENGINEERING COLLEGE
DEPARTMENT OF BIOTECHNOLOGY
M.TECH-BIOTECHNOLOGY
LIST OF COURSES
(ACADEMIC YEAR 2019-20)

SEMESTER-1

SEMESTER	SL. No.	COURSECODE	COURSE TITLE	L	T	P	C
I	1	MA5166	Statistical Techniques for Biotechnology	4	0	0	4
I	2	BY5101	Advanced Genetic Engineering	3	0	0	3
I	3	BY5102	Enzyme Technology and Fermentation Technology	3	0	0	3
I	4	BY5103	Bioinformatics and Applications	2	2	0	3
I	5	BY5002	Principles of Chemical Engineering	3	0	0	3
I	6	BY5006	Analytical Techniques in Biotechnology	3	0	0	3
I	7	BY5009	Environmental Biotechnology	3	0	0	3

PRACTICALS

I	8	BY5111	Preparative and Analytical Techniques in Biotechnology	0	0	6	3
TOTAL				21	2	6	25

SEMESTER-II

SEMESTER	SL. No.	COURSECODE	COURSE TITLE	L	T	P	C
II	1	BY5201	Bio Separation Technology	3	0	0	3
II	2	BY5202	Bioprocess Engineering	3	2	0	4
II	3	BY5203	Bioreactor Design and Analysis	4	0	0	4
II	4	BY5204	Immunotechnology	3	0	0	3
II	5	BY5205	Advanced Genomics and Proteomics	3	0	0	3

II	6	BY5018	IPR and Bio safety	3	0	0	3
II	7	BY5021	Tissue Engineering	3	0	0	3
PRACTICALS							
II	8	BY5211	Immunotechnology Laboratory	0	0	6	3
TOTAL				22	2	6	26
SEMESTER-III							
SEMESTER	SL. No.	COURSE CODE	PRACTICALS	L	T	P	C
III	1	BY5311	Advanced Genetic Engineering Laboratory	0	0	6	3
III	2	BY5312	Bioprocess and Downstream Processing Laboratory	0	0	6	3
PROJECT							
III	3	BY5313	Project Work (Phase I)	0	0	12	6
TOTAL				0	0	24	12
SEMESTER-IV							
SEMESTER	SL. No.	COURSE CODE	PROJECT	L	T	P	C
IV	1	BY5411	Project Work (Phase II)	0	0	24	12
TOTAL				0	0	24	12

TOTAL CREDITS:75

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