

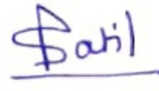
GROUP – B: M.Tech Program in Biochemical Engineering and Biotechnology
Semester- I

Course Code	Course	Teaching Scheme				Evaluation Scheme			
		L	T	P	Credits	Component	Marks		
							Max. Marks	Min. for Passing	
MBTPC0101	Upstream Processes in Biotechnology	3	1	-	4	ISE1	10	20	40
						MSE	30		
						ISE2	10		
						ESE	50		
MBTPC0102	Bioreactor Design and Analysis	3	1	-	4	ISE1	10	20	40
						MSE	30		
						ISE2	10		
						ESE	50		
MBTPC0103	Experimental Biotechnology	3	-	-	3	ISE1	10	20	40
						MSE	30		
						ISE2	10		
						ESE	50		
MBTPE0***	Program Elective (PE – I)	3	-	-	3	ISE1	10	20	40
						MSE	30		
						ISE2	10		
						ESE	50		
MBTAC0171**	Audit Course I- Proteomics and Genomics	2	-	-	0	ISE	100	40	40
MBTPC0131	Upstream Processes Laboratory	-	-	2	1	ISE	50	20	
MBTPC0132	Analytical Techniques Laboratory	-	-	2	1	ISE	50	20	
MBTIL0181	Research Methodology	3	1	-	4	ESE	100	40	
	Total	17	3	4	20	Total Marks: 700 Total Credit: 20 Total Contact Hours/Week: 24			

List of Program Electives

Course Code	Program Elective-I
MBTPE0111	Tissue Engineering
MBTPE0112	Plant Cell Bioprocessing


Dr. Saeed Thakur
PG- Co-ordinator
M.Tech- BEB
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Dr. Pallavi Patil
Head, Biotech
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Dr. Akshay Thorvat
Dean Academics
KIT COEK

Kolhapur Institute of Technology's
College of Engineering (Autonomous), Kolhapur
Teaching and Evaluation scheme for
GROUP – B: M. Tech Program in Biochemical Engineering and Biotechnology
Semester- II

Course Code	Course	Teaching Scheme				Evaluation Scheme		
		L	T	P	Credits	Component	Max. Marks	Min. for Passing
MBTPC0201	Downstream Processes in Biotechnology	3	1	-	4	ISE1	10	40
						MSE	30	
						ISE2	10	
						ESE	50	
MBTPC0202	Genome Editing and Engineering	3	1	-	4	ISE1	10	40
						MSE	30	
						ISE2	10	
						ESE	50	
MBTPC0203	Regulatory Affairs and IPR	3	1	-	4	ISE1	10	40
						MSE	30	
						ISE2	10	
						ESE	50	
MBTPE02**	Program Elective (PE – II)	3	1	-	4	ISE1	10	40
						MSE	30	
						ISE2	10	
						ESE	50	
MBTAC0271**	Audit Course II- Bioinformatics Applications	2	-	-	0	ISE	100	40
MBTPC0231	Downstream Processes Laboratory	-	-	2	1	ISE	50	20
MBTPC0232	Bioinformatics Laboratory	-	-	2	1	ISE	50	20
MBTPC0233	Mini Project	-	-	4	2	ISE	100	40
Total		14	4	8	20	Total Marks: 700 Total Credit: 20 Total Contact Hours/Week: 26		

List of Program Electives

Course Code	Program Elective-II
MBTPE0211	Food Technology
MBTPE0212	Bioenergy

Dr. Saeed Takur

Dr. Parvati Paril

Signature



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Teaching and Evaluation scheme for
GROUP – B: M. Tech Program in Biochemical Engineering and Biotechnology
Semester- III

Course Code	Course	Teaching Scheme				Evaluation Scheme		
		L	T	P	Credits	Component	Marks	
							Max. Marks	Min. for Passing
MBTPC0331	Internship	-	-	20	10	ISE	100	40
MBTPC0332	Dissertation Phase I	-	-	20	10	ISE - I	25	10
		-	-			ISE – II	25	10
		-	-			ESE(OE)	100	40
		-	-					
	Total	-	-	40	20	Total Marks: 250 Total Credit: 20 Total Contact Hours/Week: 40 hrs.		

Dr. Saee Thakur.

Dr. Pallavi Patil.

Dr. Pallavi Patil.



Kolhapur Institute of Technology's
College of BTgineering (Autonomous), Kolhapur
Teaching and Evaluation scheme for

GROUP – B: M. Tech Program in Biochemical Engineering and Biotechnology
Semester- IV

Course Code	Course	Teaching Scheme				Evaluation Scheme		
		L	T	P	Credits	Component	Marks	
							Max. Marks	Min. for Passing
MBTPC0431	Dissertation Phase II	-	-	40	20	ISE – I	50	20
		-	-			ISE – II	50	20
		-	-			ESE(OE)	150	60
	Total	-	-	40	20	Total Marks: 250 Total Credit: 20 Total Contact Hours/Week: 40 hrs.		

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Dr. S. S. Patil

Dr. S. S. Patil

Exit Courses after Semester – II

Course Code	Course	Teaching Scheme				Evaluation Scheme		
		L	T	P	Credits	Component	Marks	
							Max. Marks	Min. for Passing
MBTEX0291	Exit Course – I Industrial Biotechnology	3	1	-	4	ISE	100	40
MBTEX0292	Exit Course – II (Internship/ Training)	-	-	8	4	ISE	100	40
	Total	3	1	8	8	Total Marks: 200 Total Credit: 8 Total Contact Hours/Week: 12 hrs.		

Notes:

1. Mini Project workload shall be considered as 01 hour/ student/ week.
2. Dissertation Phase – I and Dissertation Phase – II workload shall be considered as 05 hours/ student/ week.
3. PG Student is required to publish at least one paper in a SCI/ SCIE/ SCOPUS/ Web of Science/ UGC CARE/ Peer-Reviewed Journal before Thesis Submission.
4. Internship workload 01 hr/student/week

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