

Kolhapur Institute of Technology's College of Engineering (Autonomous), Kolhapur



Curriculum (Structure)

for

FINAL YEAR

B.TECH

Mechanical Engineering Programme

(Under Graduate Programme)

With Effect from Academic Year

2024-2025



Kolhapur Institute of Technology's College of Engineering (Autonomous), Kolhapur
Teaching and Evaluation scheme for
Final Year B.Tech. Programme in Mechanical Engineering - Semester VII
WITH EFFECT FROM AY 2024-25

Course Code	Course Name	Curriculum Component	Teaching Scheme (Hrs/Week)				Evaluation Scheme			
			L	T	P	C	Component	Marks		
								Max	Min For Passing	
UMEC0701	 Finite Element Analysis	PC	3			3	ISE-I	10	20	40
							MSE	30		
							ISE-II	10		
							ESE	50		
UMEC0702	Manufacturing and Process Engineering	PC	3			3	ISE-I	10	20	40
							MSE	30		
							ISE-II	10		
							ESE	50		
UMEC0703	Artificial Intelligence and Machine Learning	PC	3			3	ISE-I	10	20	40
							MSE	30		
							ISE-II	10		
							ESE	50		
UMEC0704	Industrial Automation and Robotics	PC	3			3	ISE-I	10	20	40
							MSE	30		
							ISE-II	10		
							ESE	50		
UMEE073*	Program Elective-III	PE	3			3	ISE-I	10	20	40
							MSE	30		
							ISE-II	10		
							ESE	50		
UMEA0701	Finance Management (Audit Couese-V)	HS	2			0	ESE	100	40	
UMEC0705	Finite Element Analysis Lab	PC			2	1	ISE	25	10	
UMEC0706	Digital Manufacturing Lab	PC			2	1	ESE(OE)	25	10	
							ISE	25	10	
UMEE074*	Program Elective-III Lab	PE			2	1	ESE(POE)	25	10	
							ISE	25	10	
							ESE(POE)	25	10	
UMEC0707	Project Phase-I	PRJ			4	2	ISE-I	50	20	
							ISE-II	50	20	
Total			17	0	10	20	Total	750	300	
TOTAL CONTACT HOURS: 27, TOTAL CREDITS: 20										

CODE	PROGRAM ELECTIVE-III
UMEE0731	Automobile and Electric Vehicle Technology
UMEE0732	Fracture Mechanics
UMEE0733	Metal Forming and Joining Technology
UMEE0734	Advanced Manufacturing Processes

CODE	PROGRAM ELECTIVE-III LAB
UMEE0741	Automobile and Electric Vehicle Technology Lab
UMEE0742	Fracture Mechanics Lab
UMEE0743	Metal Forming and Joining Technology Lab
UMEE0744	Advanced Manufacturing Processes Lab



Kolhapur Institute of Technology's College of Engineering (Autonomous), Kolhapur

Teaching and Evaluation scheme for

Final Year B.Tech. Programme in Mechanical Engineering – Semester VIII

WITH EFFECT FROM AY 2024-25

Course Code	Course Name	Curriculum Component	Teaching Scheme (Hrs/Week)					Evaluation Scheme			
			L	T	P	C		Component	Marks		
									Max	Min For Passing	
UMEE084*	Program Elective-IV	PE	3			3	ISE-I	10	20	40	
							MSE	30			
							ISE-II	10	20		
							ESE	50			
UMEE085*	Program Elective-V	PE	3			3	ISE-I	10	20	40	
							MSE	30			
							ISE-II	10	20		
							ESE	50			
UMEC0801	Project Phase-II	PRJ			8	4	ISE-I	50	20		
							ISE-II	50	20		
UMEC0802	Internship	PRJ			4	2	ESE(OE)	100	40		
							ISE-I	50	20		
	Total		6	0	12	12	ISE-II	50	20		
							Total	500	200		
TOTAL CONTACT HOURS: 18 TOTAL CREDITS: 12											

CODE	PROGRAM ELECTIVE-IV
UMEE0841	Cryogenics
UMEE0842	Thermal Management and Packaging of Electronics
UMEE0843	Design of Mechanical Systems
UMEE0844	Operations Research
UMEE0845	Industrial Engineering
UMEE0846	Internet of Things
CODE	PROGRAM ELECTIVE-V
UMEE0851	Gas Turbines and Jet Propulsion
UMEE0852	Design of Thermal Systems
UMEE0853	Process Equipment Design
UMEE0854	Supply Chain Management
UMEE0855	Material Handling Systems
UMEE0856	Production Management