

# **Kolhapur Institute of Technology's College of Engineering, Kolhapur**



**Curriculum (Structure)**

**for**

**FINAL YEAR B.TECH  
Mechanical Engineering Programme  
(Under Graduate Programme)  
From Academic Year 2020-2021**

**Kolhapur Institute of Technology's College of Engineering, Kolhapur**  
Teaching and Evaluation scheme for

**Final Year B.Tech. Programme in Mechanical Engineering - Semester VII**

Code	Course Name	Teaching Scheme (Hrs/Week)				Evaluation Scheme			
		L	T	P	C	Component	Marks		
							Max	Min For Passing	
UMCH0701	Industrial Engineering	3	-	-	3	ISE- I	10		40
						MSE	30		
						ISE-II	10		
						ESE	50	20	
UMCH0702	Mechatronics	3	-	-	3	ISE- I	10		40
						MSE	30		
						ISE-II	10		
						ESE	50	20	
UMCH0703	Refrigeration and Air Conditioning	3	-	-	3	ISE- I	10		40
						MSE	30		
						ISE-II	10		
						ESE	50	20	
UMCH0721**	Professional Elective II	3	-	-	3	ISE- I	10		40
						MSE	30		
						ISE-II	10		
						ESE	50	20	
UOEL0771##	Open Elective II	3	-	-	3	ISE- I	10		40
						MSE	30		
						ISE-II	10		
						ESE	50	20	
UMCH761	Industrial Management and Operations Research (Audit Course)	3	-	-	0	ESE	100		40
UMCH0731	Refrigeration and Air Conditioning Lab	-	-	2	1	ISE	25	10	
UMCH0732	Mechatronics Lab	-	-	2	1	ISE	25	10	
UMCH0733	Industrial Engineering Lab			2	1	ESE(POE)	25	10	
UMCH0734	Professional Elective II- Lab	-	-	2	1	ISE	25	10	
UMCH0751	Project-I and Seminar	-	-	2	1	ESE(OE)	25	10	
	Total	18	0	10	20	Total: 825			
		Contact Hours/Week 28 Hrs							

Note: **ESE:** End Semester Examination, **MSE:** Mid Semester Examination, **ISE:** In Semester Evaluation

<b>Professional Elective II**</b>	
<b>Course Code</b>	<b>Course Name</b>
UMCH0721	Finite Element Analysis
UMCH0722	Noise and Vibrations
UMCH0723	Automobile Engineering
UMCH0724	Advanced Foundry Technology
UMCH0725	Advanced Manufacturing Processes

<b>Open Elective II ##</b>	
<b>Course Code</b>	<b>Course Name</b>
UOEL0771	Product Lifecycle Management
UOEL0772	Enterprise Resource Planning

<b>Professional Elective II-Lab</b>	
<b>Course Code</b>	<b>Course Name</b>
UMCH0734	Finite Element Analysis Lab
UMCH0735	Noise and Vibrations Lab
UMCH0736	Automobile Engineering Lab
UMCH0737	Advanced Foundry Technology Lab
UMCH0738	Advanced Manufacturing Processes Lab

**Kolhapur Institute of Technology's College of Engineering, Kolhapur**  
Teaching and Evaluation scheme for

**Final Year B.Tech. Programme in Mechanical Engineering - Semester VIII**

Code	Course Name	Teaching Scheme (Hrs/Week)				Evaluation Scheme			
		L	T	P	C	Scheme	Marks		
							Max	Min For Passing	
UMCH0801	Energy and Power Engineering	3	-	-	3	ISE- I	10		40
						ISE-II	10		
						MSE	30		
						ESE	50	20	
UMCH0802	Professional Elective III	3	-	-	3	ISE- I	10		40
						ISE-II	10		
						MSE	30		
						ESE	50	20	
UMCH0851	Project Phase II/ Internship	-	-	12	6	ISE I	75	30	
						ISE II	75	30	
						ESE(OE)	150	60	
	Online Certificate Course - I								
	Online Certificate Course - II								
	<b>Total</b>	6	-	12	12				
		<b>Contact Hours/Week: 18 Hrs</b>				<b>Total : 500</b>			

Note: **ESE:** End Semester Examination, **MSE:** Mid Semester Examination, **ISE:** In Semester Evaluation

**Online Certificate Course based on Edx Coursera, Mooc will be offered as per suggestion by guide**

Professional Elective III***	
Course Code	Course Name
UMCH0802	Design of Mechanical Systems
UMCH0803	Costing and Finance Management
UMCH0804	Marketing Management
UMCH0805	Total Quality Management
UMCH0806	Cryogenics
UMCH0807	Design of Thermal Systems
UMCH0808	Industry 4.0