


D Y PATIL COLLEGE OF ENGINEERING AND TECHNOLOGY, KOLHAPUR
Teaching and Evaluation Scheme from Year 2024-25 (asper NEP-2020)
Second Year B.Tech Mechanical Engineering
SEMESTER-III

Sr. No.	Course Code	Course Type	Course Name	Teaching Scheme				Theory			Practical/Tutorial		Total Marks
				Credits	Contact Hrs			ISE	MSE	ESE	INT	OE/PoE	
					L	P	T						
01	231MEPCCL201	PCC	Fluid Mechanics and Machineries	3	3	-	-	20	30	50	-	-	100
02	231MEPCCL202	PCC	Kinematics of Mechanism and Machines	2	2	-	-	20	30	50	-	-	100
03	231MEPCCL203	PCC	Manufacturing Processes	3	3	-	-	20	30	50	-	-	100
04	231MECEPL201	CEP/FP	Mini Project Lab	2	1	2	-	-	-	-	25	25	50
05	231MEMDML201	MDM	Management Theory & Organizational Behavior	2	2	-	-	20	-	30	-	-	50
06	231MEVECL201	VEC	Positive Attitude and Behavior	1	1	-	-	-	-	-	25	-	25
07	231MEOECL201	OEC	Human Resource Management	4	4	-	-	20	30	50	25	-	125
08	231MEHSSML201	HSSM	Industrial Management	2	2	-	-	20	-	30	-	-	50
09	231MEPCCP201	PCC	Fluid Mechanics and Machineries Lab	1	-	2	-	-	-	-	25	25	50
10	231MEPCCP202	PCC	Kinematics Mechanism and Machines Lab	1	-	2	-	-	-	-	25	-	25
11	231MEVECP201	VEC	Positive Attitude and Behavior Lab	1	-	2	-	-	-	-	25	-	25
12	231MEMCL201	MC	Finishing School Training III	Audit	3*	-	-	-	-	-	50*	-	Grade
13	231MECCAC201	CCA	Liberal Learning	Audit	2*	-	-	-	-	-	50*	-	Grade
Total				22	23	08	00	120	120	260	150	50	700




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Teaching and Evaluation Scheme from Year 2024-25 (asper NEP-2020)
Second Year B.Tech Mechanical Engineering
SEMESTER -IV

Sr. No.	Course Code	Course Type	Course Name	Teaching Scheme			Theory			Practical/Tutorial		Total Marks	
				Credits	Contact Hrs			ISE	MSE	ESE	INT		OE/PoE
					L	P	T						
01	231MEPCCL204	PCC	Strength of Materials	2	2	-	-	20	30	50	-	-	100
02	231MEPCCL205	PCC	Dynamics of Machines	3	3	-	-	20	30	50	-	-	100
03	231MEPCCL206	PCC	Machine Tools and Processes	3	3	-	-	20	30	50	-	-	100
04	231MEMDML202	MDM	Entrepreneurship Development & Management	2	2	-	-	20	-	30	-	-	50
05	231MEVECL202	VEC	Environmental Study	2	2	-	-	-	-	50	-	-	50
06	231MEOECL202	OEC	Marketing Management	2	2	-	-	20	-	30	-	-	50
07	231MEHSSML202	HSSM	Operations management	2	2	-	-	20	30	-	-	-	50
08	231MEAECCL201	AEC	Basics of Finance	2	2	-	-	20	30	-	-	-	50
09	231MEVSECL201	VSEC	3 D Modelling	1	1	-	-	-	-	-	25	-	25
10	231MEPCCP205	PCC	Dynamics of Machines Lab	1	-	2	-	-	-	-	25	25	50
11	231MEPCCP206	PCC	Machine Tools and Processes Lab	1	-	2	-	-	-	-	25	-	25
12	231MEVSECP201	VSEC	3 D Modelling Lab	1	-	2	-	-	-	-	-	25	25
13	231MEMCL202	MC	Finishing School Training IV	Audit	2	-	-	-	-	-	50*	-	Grade
14	231MECCA202	CCA	Liberal Learning	Audit	2	-	-	-	-	-	50*	-	Grade
Total				22	23	06	00	140	150	260	75	50	675



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Teaching and Evaluation Scheme from Year 2024-25 (asper NEP-2020)
Third Year B.Tech Mechanical Engineering
SEMESTER -V

Sr. No.	Course Code	Course Type	Course Name	Teaching Scheme			Theory			Practical/Tutorial		Total Marks	
				Credits	Contact Hrs			ISE	MSE	ESE	INT		OE/PoE
					L	P	T						
01	231MEPCCL301	PCC	Design of Machine Elements	3	3	-	-	20	30	50	-	-	100
02	231MEPCCL302	PCC	Power Engineering	3	3	-	-	20	30	50	-	-	100
03	231MEPCCL303	PCC	Industrial Metallurgy	3	3	-	-	20	30	50	-	-	100
04	231MEMDML301	MDM	Operation Research & Management	3	3	-	-	20	30	50	-	-	100
05	231MEOECL301	OEC	Computer Integrated Manufacturing System	2	2	-	-	20	-	30	-	-	50
06	231MEPECL301-304	PEC	Program Elective Course-I*	3	3	-	-	20	30	50	-	-	100
07	231MEPCCP301	PCC	Design of Machine Elements Lab	1	-	2	-	-	-	-	25	25	50
08	231MEPCCP303	PCC	Industrial Metallurgy lab	1	-	2	-	-	-	-	25	25	50
09	231MEMDMP301	MDM	Operation Research & Management Lab	1	-	2	-	-	-	-	25	-	25
10	231MEPECP301-304	PEC	Program Elective Courses-I Lab*	1	-	2	-	-	-	-	25	-	25
11	231MEMCL301	MC	Finishing School Training V	Audit	3*	-	-	-	-	-	50	-	Grade
12	231MECCA301	CCA	Liberal Learning	Audit	2*	-	-	-	-	-	50	-	Grade
Total				21	17	08	-	120	150	280	100	50	700

Program Elective Courses -I*

Industrial Hydraulics and Pneumatics (231MEPEC301)	Advanced Manufacturing Technology-I (231MEPEC303)
Instrumentation and Control Engineering (231MEPEC302)	Safety and Maintenance Engineering (231MEPEC304)





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Teaching and Evaluation Scheme from Year 2024-25 (asper NEP-2020)
Third Year B.Tech Mechanical Engineering
SEMESTER -VI

Sr. No.	Course Code	Course Type	Course Name	Teaching Scheme			Theory			Practical/ Tutorial		Total Marks	
				Credits	Contact Hrs			ISE	MSE	ESE	INT		OE/PoE
					L	P	T						
01	231MEPCCL304	PCC	Metrology and Quality Control	3	3	-	-	20	30	50	-	-	100
02	231MEPCCL305	PCC	Operation Research	2	2	-	-	20	-	30	-	-	50
03	231MEPCCL306	PCC	Mechatronics	3	3	-	-	20	30	50	-	-	100
04	231MEMDML302	MDM	Production & Material Management Lab	2	1	2	-	20	-	30	-	-	50
05	231MEPECL305-308	PEC	Program Elective Course-II*	4	4	-	-	20	30	50	25	-	125
06	231MEPECL309-312	PEC	Program Elective Course-III*	3	3	-	-	20	30	50	-	-	100
07	231MEVSECL301	VSEC	Computer Aided Manufacturing	1	1	-	-	-	-	-	25	-	25
08	231MEPCCL304	PCC	Metrology and Quality Control Lab	1	-	2	-	-	-	-	25	25	50
09	231MEPCCL306	PCC	Mechatronics Lab	1	-	2	-	-	-	-	25	25	50
10	231MEPECL309-312	PEC	Program Elective Courses-III Lab*	1	-	2	-	-	-	-	25	-	25
11	231MEVSECP301	VSEC	Computer Aided Manufacturing Lab	1	-	2	-	-	-	-	25	-	25
12	231MEMCL302	MC	Finishing School Training VI	Audit	3*	-	-	-	-	-	50	-	Grade
	231MECCA302	CCA	Liberal Learning	Audit	2*	-	-	-	-	-	50	-	Grade
Total				22	17	10	-	120	120	260	150	50	700

Program Elective Courses -II*	Program Elective Courses -III*
Machine Design (231MEPEC305)	Tool Engineering (231MEPEC309)
Thermal Energy Systems (231MEPEC306)	Refrigeration and Air Conditioning (231MEPEC310)
Logistics and Supply Chain Management(231MEPEC307)	Electric Vehicle (231MEPEC311)
Enterprise Resource Planning (231MEPEC308)	Rapid Prototyping (231MEPEC312)




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Teaching and Evaluation Scheme from Year 2024-25 (asper NEP-2020)
Final Year B.Tech Mechanical Engineering
SEMESTER-VII

Sr. No.	Course Code	Course Type	Course Name	Teaching Scheme			Theory			Practical/Tutorial		Total Marks	
				Credits	Contact Hrs			ISE	MSE	ESE	INT		OE/PoE
					L	P	T						
01	231MEPCCL401	PCC	Finite Element Analysis	3	2	2	-	20	30	50	-	-	100
02	231MEPCCL402	PCC	IC Engines	2	2	-	-	20	30	50	-	-	100
03	231MEMDML401	MDM	Advance Marketing Management	2	2	-	-	20	-	30	-	-	50
04	231RML401	RM	Research Methodology	3	3	-	-	20	30	50	-	-	100
05	231MEPECP413-415	PEC	Program Elective Course-IV*	3	2	2	-	20	30	50	-	-	100
06	231MEPECP416-418	PEC	Program Elective Course-V*	3	2	2	-	20	30	50	-	-	100
09	231MEFP401	CEP/FP	Project	4	-	4	-	-	-	-	50	75	125
	231MEPCCP402	PCC	IC Engines Lab	1	-	2	-	-	-	-	-	25	25
	231RMP401	RM	Research Methodology Lab	1	-	2	-	-	-	-	25	-	25
10	231MECCA401	CCA	Liberal Learning	Audit	2	-	-	-	-	-	50*	-	Grade
Total				22	13	14	-	120	150	280	75	100	725

Program Elective Courses -IV	Program Elective Courses -V
Noise and Vibrations (231MEPEC413)	Automobile Engineering (231MEPEC416)
Robotics and Automation (231MEPEC414)	Process Engineering (231MEPEC417)
Renewable Energy Engineering (231MEPEC415)	Industry 4.0 (231MEPEC418)




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Teaching and Evaluation Scheme from Year 2024-25 (asper NEP-2020)
Final Year B.Tech Mechanical Engineering
SEMESTER - VIII

Sr. No.	Course Code	Course Type	Course Name	Teaching Scheme			Theory			Practical/Tutorial		Total Marks	
				Credits	Contact Hrs			ISE	MSE	ESE	INT		OE/PoE
					L	P	T						
01	231MEPCCL403	PCC	Lean Manufacturing	3	3	-	-	20	30	50	-	-	100
02	231MEPECP419-421	PEC	Program Elective Course-VI* (ODL Only)	2	2	-	-	-	-	50	-	-	50
03	231MEINT401	INT	Internship	12	-	5:2	-	-	-	-	75	300	375
04	231MEMDML402	MDM	Finance & Accounting for Manager	2	2	-	-	-	-	50	-	-	50
05	231MEPCCP403	PCC	Lean Manufacturing Lab	1	-	2	-	-	-	-	25	-	25
Total				20	7	-	-	20	30	150	100	300	600

Program Elective Courses -VI*	
Advanced Manufacturing Technology II (231MEPE4219)	
Industrial Engineering (231MEPEC420)	
Industrial Product Design (231MEPEC421)	




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INDUSTRIAL AUTOMATION AND ROBOTICS (HONOURS)													
SEMESTER -IV													
Sr. No.	Course Code	Course Type	Course Name	Teaching Scheme			Theory			Practical/ Tutorial		Total Marks	
				Credits	Contact Hrs			ISE	MSE	ESE	INT		OE/PoE
					L	P	T						
01	231MEHCL201	HC	Fundamentals of Robotics	3	3	-	-	20	30	50	-	-	100
02	231MEHCP201	HC	Fundamentals of Robotics Lab	1	-	2	-	-	-	-	25	-	25
Total				04	03	02	00	20	30	50	25	00	125
INDUSTRIAL AUTOMATION AND ROBOTICS (HONOURS)													
SEMESTER -V													
Sr. No.	Course Code	Course Type	Course Name	Teaching Scheme			Theory			Practical/ Tutorial		Total Marks	
				Credits	Contact Hrs			ISE	MSE	ESE	INT		OE/PoE
					L	P	T						
01	231MEHCL301	HC	Design and Control of Robots	3	3	-	-	20	30	50	-	-	100
02	231MEHCP301	HC	Design and Control of Robots Lab	1	-	2	-	-	-	-	25	-	25
Total				04	03	02	00	20	30	50	25	00	125
INDUSTRIAL AUTOMATION AND ROBOTICS (HONOURS)													
SEMESTER -VI													
Sr. No.	Course Code	Course Type	Course Name	Teaching Scheme			Theory			Practical/ Tutorial		Total Marks	
				Credits	Contact Hrs			ISE	MSE	ESE	INT		OE/PoE
					L	P	T						
01	231MEHCL302	HC	Robot Programming and achine Vision Systems	3	3	-	-	20	30	50	-	-	100
02	231MEHCP302	HC	Robot Programming and Machine Vision Systems Lab	1	-	2	-	-	-	-	25	-	25
Total				04	03	02	00	20	30	50	25	00	125




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Second Year B.Tech Mechanical Engineering
INDUSTRIAL AUTOMATION AND ROBOTICS (HONOURS)
SEMESTER -VII

Sr. No.	Course Code	Course Type	Course Name	Teaching Scheme			Theory			Practical/ Tutorial		Total Marks	
				Credits	Contact Hrs			ISE	MSE	ESE	INT		OE/PoE
					L	P	T						
01	231MEHCL401	HC	Industrial Automation	3	3	-	-	20	30	50	-	-	100
02	231MEHCP401	HC	Industrial Automation Lab	1	-	2	-	-	-	-	25	-	25
Total				04	03	02	00	20	30	50	25	00	125

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Second Year B.Tech Mechanical Engineering
INDUSTRIAL AUTOMATION AND ROBOTICS (HONOURS)
SEMESTER -VIII

Sr. No.	Course Code	Course Type	Course Name	Teaching Scheme			Theory			Practical/ Tutorial		Total Marks	
				Credits	Contact Hrs			ISE	MSE	ESE	INT		OE/PoE
					L	P	T						
01	231MEHCCEPL401	HCCEP/FP	Mini Project	2	-	2	-	-	-	-	50	50	
Total				02	03	02	00	20	30	50	25	00	125



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