



SAGE UNIVERSITY, INDORE
Institute Name :- Institute of Engineering and Technology
Department:- Mechanical Engineering
PROGRAM STRUCTURE
CHOICE BASED CREDIT SYSTEM

Effective For ACADEMIC SESSION: 2024-25

Program Code : M. Tech (PEED)

Program :-Master of Engineering in Production Engineering and Engineering Design

Semester: I

For Admission Batch: 2024-25

Subject wise Distribution of Marks and corresponding Credits

S.No.	Subject Code	Category	Subject Title	Maximum Marks Allotted											Total		
				Theory(100 Marks)			Studio/Practical (50 Marks)			Total Marks	Hours/week					Credits	Hours
				End Sem	Continuous Internal Evaluation		End Sem. Exam (ESE)	Continuous Internal Evaluation			L	T	P	M/B	NTCC Studio /Field Work/ outreach		
					Mid Sem Test (MST)	Attendance/Quiz/Assignment		Lab Work/WPR	Attendance/Assignment/viva / Lab manual/								
1	EMEDCCAD001T	DC	CAD/CAM/CIM	60	20	20	-	-	-	100	3	0				3	3
2	EMEDCMFS001T	DC	Manufacturing Science	60	20	20	-	-	-	100	4	0	-			4	4
3	EMEDCITB001T	DC	Industrial Tribology	60	20	20	-	-	-	100	4	0				4	4
4	EMEDCRMH001T	DC	Robotics and Material Handling	60	20	20	-	-	-	100	4	0				4	4
5	To Be Select	DE	Departmental Elective-I	60	20	20	-	-	-	100	4	0				4	4
6	EMEDCCAD001P	DC	CAD/CAM/CIM Lab				30	10	10	50	0	0	2			1	2
7	Select from List	DSEEC	Department Skill Enhancement Elective-I				30	10	10	50			4			2	4
			Total	300	100	100	60	20	20	600	19	0	6	0	0	22	25

Departmental Elective-I	EMEDEOPM001T	Operation Management
	EMEDMST001T	Machining Science and Technology
	EMEDFEM001T	Finite Element Method

Departmental Skill Enhancement Elective-I	EMEDSMFS001P	Manufacturing Science Lab-I
	EMEDSNCM001P	Non Conventional Manufacturing Lab



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Program :-Master of Engineering in Production Engineering and Engineering Design

Semester: II

For Admission Batch: 2024-25

Subject wise Distribution of Marks and corresponding Credits

S.No.	Subject Code	Category	Subject Title	Maximum Marks Allotted											Total		
				Theory(100 Marks)			Studio/Practical (50 Marks)			Total Marks	Hours/week					Credits	Hours
				End Sem	Continuous Internal Evaluation		End Sem. Exam (ESE)	Continuous Internal Evaluation			L	T	P	M/B	NTCC		
					Mid Sem Test (MST)	Attendance/Quiz/Assignment		Lab Work/WPR	Attendance/Assignment/viva / Lab manual/						Studio /Field Work/ outreach		
1	EMEDCFMS001T	DC	FMS and FEA	60	20	20	-	-	-	100	4	0	0			4	4
2	EMEDCAIM001T	DC	Automation in Manufacturing	60	20	20	-	-	-	100	4	0	0			4	4
3	EMEDCIOR001T	DC	Industrial Management & Operation Research	60	20	20	-	-	-	100	4	0	0			4	4
4	Select from List	DE	Departmental Elective-II	60	20	20	-	-	-	100	4	0	0			4	4
5	Select from List	DE	Departmental Elective-III	60	20	20	-	-	-	100	4	0	0			4	4
6	Select from List	DSEEC	Departmental skill Enhancement Elective-II				30	10	10	50	0	0	4			2	4
			Total	300	100	100	30	10	10	550	20	0	4	0	0	22	24

Departmental Elective-II	EMEDEPET001T	Process Engineering and Tooling
	EMEDEPDL001T	Product Design and Lifecycle Management
	EMEDMHT001T	Mechatronics
Departmental Elective-III	EMEDERTQ001T	Reliability and Total Quality Management
	EMEDENDT001T	Non Destructive Testing Methods
	EMEDDFM001T	Design for Manufacture
Departmental Skill Enhancement Elective-II	EMEDSMFS002P	Manufacturing Science Lab-II
	EMEDSPET001P	Process Engineering and Tooling Lab



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Program :-Master of Engineering in Production Engineering and Engineering Design

Semester: III

For Admission Batch: 2024-25,2023-24

Subject wise Distribution of Marks and corresponding Credits

S.No.	Subject Code	Category	Subject Title	Maximum Marks Allotted											Total		
				Theory(100 Marks)			Studio/Practical (50 Marks)			Total Marks	Hours/week					Credits	Hours
				End Sem	Continuous Internal Evaluation		End Sem. Exam (ESE)	Continuous Internal Evaluation			L	T	P	M/B	NTCC		
					Mid Sem Test (MST)	Attendance/Quiz/Assignment		Lab Work/WPR	Attendance/Assignment/viva / Lab manual/								
1	EMEDCRMT001T	DC	Research Methodology	60	20	20	-	-	-	100	4	0	0		4	4	
2	EMEDCCAP001T	DC	Computer Aided Process Planning	60	20	20	-	-	-	100	4	0	0		4	4	
3	Select from List	DE	Departmental Elective-IV	60	20	20	-	-	-	100	4	0	0		4	4	
4	Select from List	DE	Departmental Elective-V	60	20	20	-	-	-	100	4	0	0		4	4	
5	EMEDPDIS001N	DAP	Dissertation Phase I						40	60	100	0	0	0		12	6
6	EMEDSID1001N	DSEEC	Industrial Internship						20	30	50	0	0	0		4	2
Total				240	80	80	0	60	90	550	16	0	0	0	16	24	16

Departmental Elective-IV	EMEDEAMS001T	Advanced Metrology and Quality Engineering
	EMEDDJF001T	Design of Jigs, Fixtures and Prees tool
	EMEDEADM001T	Additive Manufacturing

Departmental Elective-V	EMEDELN001T	Lean Manufacturing
	EMEDEIDE001T	Industrial Design and Ergonomics
	EMEDMSS001T	Modelling and Simulation of Engineering Systems



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Program :-Master of Engineering in Production Engineering and Engineering Design

Semester: IV

For Admission Batch: 2024-25, 2023-24

Subject wise Distribution of Marks and corresponding Credits

S.No.	Subject Code	Category	Subject Title	Maximum Marks Allotted											Total				
				Theory(100 Marks)				Studio/Practical (50 Marks)				Total Marks	Hours/week					Credits	Hours
				End Sem	Continuous Internal Evaluation			End Sem. Exam (ESE)	Continuous Internal Evaluation				L	T	P	M/B	NTCC		
					Mid Sem Test (MST)	Attendance/Quiz/Assignment			Lab Work/WPR	Attendance/Assignment/viva / Lab manual/									
1	Select from List	DSEEC	Departmental skill Enhancement Elective-III					30	10	10	50	0	0	4			2	4	
2	EMEDPDIS002N	DAP	Dissertation Phase II						40	60	100	0	0	0		30	15		
			Total					30	50	70	150	0	0	4	0	30	17	4	

Department Skill Enhancement Elective-III	EMEDSCML001B	CNC Machine Programming Lab
	EMEDSMTG001B	Metrology and Inspection Lab