

APPLICABLE FOR STUDENTS ADMITTED IN 2020-21 AND ONWARDS

SCHEME : MECHANICAL ENGINEERING (I to VIII SEM) APPLICABLE FOR STUDENTS ADMITTED IN 2020-21 AND ONWARDS																
Year/Sem	Course Code	Subject Name	Type	CORE/ELECTIVE	Group	IC	DC	DE	Non-Graded	OC	Dep.Spec.	Minor.Spec.	Max Marks Internal	Max Marks External	Credit /Unit	Programme-Option
1 Sem.	MTL100	Engineering Mathematics-I	TH	CORE	1	Yes	No	No	No	No			50	100	4	A
1 Sem.	CSL100	Programming for Problem Solving	TH	CORE	2	Yes	No	No	No	No			50	100	2	A
1 Sem.	PYL100	Engineering Physics	TH	CORE	3	Yes	No	No	No	No			50	100	4	A
1 Sem.	EEL100	Introduction to Electrical & Electronics Engineering	TH	CORE	4	Yes	No	No	No	No			50	100	2	A
1 Sem.	HUN102	Communication Skills	TH	CORE	5	No	No	No	Yes	No			0	0	2	A
1 Sem.	PYP100	Engineering Physics Lab	PR	CORE	6	Yes	No	No	No	No			50	25	1	A
1 Sem.	EEP100	Basic Electrical & Electronics Engineering Lab	PR	CORE	7	Yes	No	No	No	No			50	25	1	A
1 Sem.	MEP102	Computer Aided Machine Drawing	PR	CORE	8	Yes	No	No	No	No			50	25	1	A
1 Sem.	MEP200	Skill Development Laboratory	PR	CORE	9	Yes	No	No	No	No			50	25	1	A

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1 Sem.	HUN112	Language Lab	PR	CORE	10	No	No	No	Yes	No			0	0	1	A
1 Sem.	SAN101	Induction Program	PR	CORE	11	No	No	No	Yes	No			0	0	0.5	A
1 Sem.	CSP100	Programing Lab	PR	CORE	12	Yes	No	No	No	No			50	25	1	A
1 Sem.	SAA100	SODECA (Anandam)	PR	CORE	13	No	No	No	No	No			100	0	0.5	A
2 Sem.	MTL101	Engineering Mathematics-II	TH	CORE	1	Yes	No	No	No	No			50	100	4	A
2 Sem.	CSL101	Data Analysis & AI Using Python	TH	CORE	2	Yes	No	No	No	No			50	100	2	A
2 Sem.	CML101	Engineering Chemistry	TH	CORE	3	Yes	No	No	No	No			50	100	4	A
2 Sem.	CEL100	Basic Civil Engineering	TH	CORE	4	Yes	No	No	No	No			50	100	2	A
2 Sem.	HUN101	Human Values & Professional Ethics	TH	CORE	5	No	No	No	Yes	No			0	0	2	A

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2 Sem.	CMP100	Engineering Chemistry Lab	PR	CORE	6	Yes	No	No	No	No			50	25	1	A
2 Sem.	CEP100	Basic Civil Engineering Lab	PR	CORE	7	Yes	No	No	No	No			50	25	1	A
2 Sem.	CEP102	Computer Aided Engineering Graphics	PR	CORE	8	Yes	No	No	No	No			50	25	1	A
2 Sem.	MEP101	Product Realization through Manufacturing	PR	CORE	9	Yes	No	No	No	No			50	25	1	A
2 Sem.	HUN111	Human Values Lab	PR	CORE	10	No	No	No	Yes	No			0	0	1	A
2 Sem.	TPN101	Club activity	PR	CORE	11	No	No	No	Yes	No			0	0	0.5	A
2 Sem.	CSP101	Python Lab	PR	CORE	12	Yes	No	No	No	No			50	25	1	A
2 Sem.	SAA100	SODECA (Anandam)	PR	CORE	13	No	No	No	No	No			100	0	0.5	A
3 Sem.	MTL203	Mathematics for Mechanical Engineering	TH	CORE	1	Yes	No	No	No	No			50	100	4	A

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3 Sem.	HUL202	Economics and Financial Management	TH	CORE	2	Yes	No	No	No	No			50	100	3	A
3 Sem.	TPN102	Soft Skill Development -1	PR	CORE	3	No	No	No	Yes	No			0	0	1	A
3 Sem.	SAA100	SODECA (Anandam)	PR	CORE	4	No	No	No	No	No			100	0	0.5	A
3 Sem.	MEL130	Engineering Thermodynamics	TH	CORE	5	No	Yes	No	No	No			50	100	3	A
3 Sem.	MEL110	Industrial Management	TH	CORE	6	No	Yes	No	No	No			50	100	3	A
3 Sem.	MEL120	Mechanics of Solids	TH	CORE	7	No	Yes	No	No	No			50	100	3	A
3 Sem.	MEL111	Material Science & Manufacturing Processes	TH	CORE	8	No	Yes	No	No	No			50	100	4	A
3 Sem.	MEP112	Production Practice- I	PR	CORE	9	No	Yes	No	No	No			50	25	1.5	A
3 Sem.	MEP120	Mechanical Engg Drawing & CAD Lab	PR	CORE	10	No	Yes	No	No	No			50	25	1	A

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3 Sem.	MEP111	Materials Science Lab.	PR	CORE	11	No	Yes	No	No	No			50	25	1	A
3 Sem.	MEP110	Industrial Engineering Lab-I	PR	CORE	12	No	Yes	No	No	No			50	25	1	A
4 Sem.	CEL 101	Environmental Science	TH	CORE	1	Yes	No	No	No	No			50	100	2	A
4 Sem.	HUL201	General Studies	TH	CORE	2	Yes	No	No	No	No			50	100	2	A
4 Sem.	TPN103	Soft Skill Development -2	PR	CORE	3	No	No	No	Yes	No			0	0	1	A
4 Sem.	SAA100	SODECA (Anandam)	PR	CORE	4	No	No	No	No	No			100	0	0.5	A
4 Sem.	MEL210	Metal cutting and Metal Working Processes	TH	CORE	5	No	Yes	No	No	No			50	100	3	A
4 Sem.	MEL230	I.C. Engines	TH	CORE	6	No	Yes	No	No	No			50	100	3	A
4 Sem.	MEL231	Fluid Mechanics & Machines	TH	CORE	7	No	Yes	No	No	No			50	100	3	A

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4 Sem.	MEL220	Design of Machine Elements- I	TH	CORE	8	No	Yes	No	No	No			50	100	3	A
4 Sem.	MEP210	Production Practice- II	PR	CORE	9	No	Yes	No	No	No			50	25	1.5	A
4 Sem.	MEP220	Machine Design Sessional-I	PR	CORE	10	No	Yes	No	No	No			50	25	1	A
4 Sem.	MEP230	Thermal Engineering Lab -I	PR	CORE	11	No	Yes	No	No	No			50	25	1	A
4 Sem.	MEP231	Fluid Mechanics Lab	PR	CORE	12	No	Yes	No	No	No			50	25	1	A
4 Sem.	MEL416	Project Management / Equivalent MOOC	TH	CORE	13	No	No	No	No	No	BUSINESS ADMINISTRATION	BUSINESS ADMINISTRATION	50	100	3	A
4 Sem.	MEL417	Marketing Management / Equivalent MOOC	TH	CORE	14	No	No	No	No	No	BUSINESS ADMINISTRATION	BUSINESS ADMINISTRATION	50	100	3	A
4 Sem.	MEL431	Fundamental of Thermal Systems / Equivalent MOOC	TH	CORE	17	No	No	No	No	No		ENERGY ENGINEERING	50	100	3	A
4 Sem.	MEL432	Renewable Energy Technologies / Equivalent MOOC	TH	CORE	18	No	No	No	No	No		ENERGY ENGINEERING	50	100	3	A

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4 Sem.	MEL433	Design of Heat Exchanger / Equivalent MOOC	TH	CORE	19	No	No	No	No	No	DESIGN OF THERMAL SYSTEMS		50	100	3	A
4 Sem.	MEL434	Refrigeration System Design / Equivalent MOOC	TH	CORE	20	No	No	No	No	No	DESIGN OF THERMAL SYSTEMS		50	100	3	A
4 Sem.	MEL215	Industrial Safety	TH	ELECTIVE	21	No	No	No	No	Yes			50	100	3	A
4 Sem.	MEL216	Total Quality Management	TH	ELECTIVE	21	No	No	No	No	Yes			50	100	3	A
5 Sem.	HUL203	Indian Constitution	TH	CORE	1	Yes	No	No	No	No			50	100	2	A
5 Sem.	MEN201	Seminar-1	PR	CORE	2	No	No	No	Yes	No			0	0	1	A
5 Sem.	MET301	Industrial Training (45 days)	PR	CORE	3	No	No	No	No	No			50	25	2	A
5 Sem.	SAA100	SODECA (Anandam)	PR	CORE	4	No	No	No	No	No			100	0	0.5	A
5 Sem.	MEL330	Heat Transfer	TH	CORE	5	No	Yes	No	No	No			50	100	3	A

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5 Sem.	MEL221	Theory of Machines	TH	CORE	6	No	Yes	No	No	No			50	100	3	A
5 Sem.	MEL212	Mechatronics and MEMS	TH	CORE	7	No	Yes	No	No	No			50	100	3	A
5 Sem.	MEL320	Design of Machine Element-II	TH	CORE	8	No	Yes	No	No	No			50	100	3	A
5 Sem.	MEP330	Heat Transfer Lab	PR	CORE	9	No	Yes	No	No	No			50	25	1.5	A
5 Sem.	MEP320	Machine Design Sessional-II	PR	CORE	10	No	Yes	No	No	No			50	25	1.5	A
5 Sem.	MEP221	Theory of Machines Lab	PR	CORE	11	No	Yes	No	No	No			50	25	1	A
5 Sem.	MEP212	Mechatronics and MEMS Lab.	PR	CORE	12	No	Yes	No	No	No			50	25	1	A
5 Sem.	MEL420	Supply and Operations Management / Equivalent MOOC	TH	CORE	13	No	No	No	No	No	BUSINESS ADMINISTRATION	BUSINESS ADMINISTRATION	50	100	3	A
5 Sem.	MEL433	Design of Heat Exchangers / Equivalent MOOC	TH	CORE	15	No	No	No	No	No		ENERGY ENGINEERING	50	100	3	A



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5 Sem.	MEL435	Air Conditioning System Design / Equivalent MOOC	TH	CORE	16	No	No	No	No	No	DESIGN OF THERMAL SYSTEMS		50	100	3	A
5 Sem.	MEL214	Research Methodology and Intellectual Property Rights	TH	ELECTIVE	17	No	No	No	No	Yes			50	100	3	A
5 Sem.	MEL336	Solar Engineering	TH	ELECTIVE	17	No	No	No	No	Yes			50	100	3	A
5 Sem.	MEL315	Non Destructive Testing	TH	ELECTIVE	18	No	No	Yes	No	No			50	100	3	A
5 Sem.	MEL334	Automobile Engineering	TH	ELECTIVE	18	No	No	Yes	No	No			50	100	3	A
6 Sem.	MEN202	Seminar-2	PR	CORE	1	No	No	No	Yes	No			0	0	1	A
6 Sem.	SAA100	SODECA (Anandam)	PR	CORE	2	No	No	No	No	No			100	0	0.5	A
6 Sem.	MEL331	Refrigeration and Air-conditioning	TH	CORE	3	No	Yes	No	No	No			50	100	3	A
6 Sem.	MEL222	Vibration Engineering	TH	CORE	4	No	Yes	No	No	No			50	100	3	A

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6 Sem.	MEL211	Quality Management	TH	CORE	5	No	Yes	No	No	No			50	100	3	A
6 Sem.	MEL332	Turbo Machines	TH	CORE	6	No	Yes	No	No	No			50	100	3	A
6 Sem.	MEP311	Production Engineering Lab	PR	CORE	7	No	Yes	No	No	No			50	25	1	A
6 Sem.	MEP331	Thermal Engineering Lab-II	PR	CORE	8	No	Yes	No	No	No			50	25	1.5	A
6 Sem.	MEP222	Vibrations and Maintenance Engineering Lab	PR	CORE	9	No	Yes	No	No	No			50	25	1	A
6 Sem.	MEP211	Quality Management Lab	PR	CORE	10	No	Yes	No	No	No			50	25	1	A
6 Sem.	MEL312	Supply & Operations Management	TH	ELECTIVE	11	No	No	Yes	No	No			50	100	4	A
6 Sem.	MEL313	CNC Machines and Programming	TH	ELECTIVE	11	No	No	Yes	No	No			50	100	4	A
6 Sem.	MEL321	Computer Aided Design and Graphics	TH	ELECTIVE	11	No	No	Yes	No	No			50	100	4	A

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6 Sem.	MEL333	Steam Engineering and Power Generation	TH	ELECTIVE	11	No	No	Yes	No	No			50	100	4	A
6 Sem.	MEL422	Financial Management / Equivalent MOOC	TH	CORE	12	No	No	No	No	No	BUSINESS ADMINISTRATION	BUSINESS ADMINISTRATION	50	100	3	A
6 Sem.	MEL436	Heating, Ventilation and Airconditioning / Equivalent MOOC	TH	CORE	14	No	No	No	No	No		ENERGY ENGINEERING	50	100	3	A
6 Sem.	MEL437	Energy and Exergy Analysis of Thermal Systems / Equivalent MOOC	TH	CORE	15	No	No	No	No	No	DESIGN OF THERMAL SYSTEMS		50	100	3	A
6 Sem.	MEL317	Lean and Agile Manufacturing	TH	ELECTIVE	16	No	No	No	No	Yes			50	100	4	A
6 Sem.	MEL412	Rapid Prototyping	TH	ELECTIVE	16	No	No	No	No	Yes			50	100	4	A
6 Sem.	MEL413	Business Analytics	TH	ELECTIVE	16	No	No	No	No	Yes			50	100	4	A
6 Sem.	MEL415	Computer Aided Manufacturing	TH	ELECTIVE	16	No	No	No	No	Yes			50	100	4	A
7 Sem.	MED411	Project Part-1	PR	CORE	1	No	Yes	No	No	No			50	25	4	A

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7 Sem.	MET302	Industrial training (60 days)	PR	CORE	2	No	No	No	No	No			50	25	3	A
7 Sem.	SAA100	SODECA (Anandam)	PR	CORE	3	No	No	No	No	No			100	0	0.5	A
7 Sem.	MEL310	Computer Integrated Manufacturing Systems	TH	CORE	4	No	Yes	No	No	No			50	100	3	A
7 Sem.	MEL311	Operations Research	TH	CORE	5	No	Yes	No	No	No			50	100	3	A
7 Sem.	MEP321	Programming with MATLAB & FEM	PR	CORE	6	No	Yes	No	No	No			50	25	1.5	A
7 Sem.	MEP310	CIMS Lab(CAM, IE & Simulation practicals)	PR	CORE	7	No	Yes	No	No	No			50	25	1	A
7 Sem.	MEL213	Management Information Systems	TH	ELECTIVE	8	No	No	Yes	No	No			50	100	4	A
7 Sem.	MEL314	Non Conventional Machining Methods	TH	ELECTIVE	8	No	No	Yes	No	No			50	100	4	A
7 Sem.	MEL322	Finite Element Methods	TH	ELECTIVE	8	No	No	Yes	No	No			50	100	4	A

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7 Sem.	MEL335	Gas Turbine and Jet Propulsion	TH	ELECTIVE	8	No	No	Yes	No	No			50	100	4	A
7 Sem.	MEL316	Optimization Techniques	TH	ELECTIVE	9	No	No	Yes	No	No			50	100	4	A
7 Sem.	MEL411	INTERNET OF THINGS AND MACHINE LEARNING	TH	ELECTIVE	9	No	No	Yes	No	No			50	100	4	A
7 Sem.	MEL426	Composite Materials Technologies	TH	ELECTIVE	9	No	No	Yes	No	No			50	100	4	A
7 Sem.	MEL430	Renewable Energy Systems	TH	ELECTIVE	9	No	No	Yes	No	No			50	100	4	A
7 Sem.	MEL424	Human Resource Management/ Equivalent MOOC	TH	CORE	10	No	No	No	No	No	BUSINESS ADMINISTRATION	BUSINESS ADMINISTRATION	50	100	3	A
7 Sem.	MEL438	Green Energy Systems / Equivalent MOOC	TH	CORE	12	No	No	No	No	No		ENERGY ENGINEERING	50	100	3	A
7 Sem.	MEL439	Design and Analysis of Thermal Systems/ Equivalent MOOC	TH	CORE	13	No	No	No	No	No	DESIGN OF THERMAL SYSTEMS		50	100	3	A
7 Sem.	MEL414	Reliability and Maintainability	TH	ELECTIVE	14	No	No	No	No	Yes			50	100	4	A

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7 Sem.	MEL416	Project Management	TH	ELECTIVE	14	No	No	No	No	Yes			50	100	4	A
7 Sem.	MED413	Minor Project	PR	CORE	15	No	No	No	No	No	BUSINESS ADMINISTRATION	BUSINESS ADMINISTRATION	50	25	5	A
7 Sem.	MED415	Minor Project	PR	CORE	16	No	No	No	No	No		ENERGY ENGINEERING	50	25	5	A
7 Sem.	MED416	Minor Project	PR	CORE	17	No	No	No	No	No	DESIGN OF THERMAL SYSTEMS		50	25	5	A
8 Sem.	HUL204	Innovation & Entrepreneurship	TH	CORE	1	Yes	No	No	No	No			50	100	3	A
8 Sem.	MED412	Project Part-2	PR	CORE	2	No	Yes	No	No	No			50	25	6	A
8 Sem.	SAA100	SODECA (Anandam)	PR	CORE	3	No	No	No	No	No			100	0	0.5	A
8 Sem.	MEL410	SIMULATION MODELING AND ANALYSIS	TH	ELECTIVE	5	No	No	Yes	No	No			50	100	3	A
8 Sem.	MEL427	Product Design and Launching	TH	ELECTIVE	5	No	No	Yes	No	No			50	100	3	A

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8 Sem.	SAA100	SODECA (Anandam)	PR	CORE	6	No	No	No	No	No			0	0	0.5	B
8 Sem.	MED417	INTERNSHIP	PR	CORE	7	No	Yes	No	No	No			50	25	10	B
8 Sem.	HUL205	EQUIVALENT MOOC OF INNOVATION & ENTREPRENEURSHIP	TH	CORE	8	Yes	No	No	No	No			50	100	3	B