

APPLICABLE FOR STUDENTS ADMITTED IN 2020-21 AND ONWARDS

SCHEME : PRODUCTION & INDUSTRIAL 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.	MTL206	Mathematics for Production and Industrial 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.	PIL130	Engineering Thermodynamics	TH	CORE	5	No	Yes	No	No	No			50	100	3	A
3 Sem.	PIL120	Applied Mechanics	TH	CORE	6	No	Yes	No	No	No			50	100	3	A
3 Sem.	PIL110	Principles and Practices of Management	TH	CORE	7	No	Yes	No	No	No			50	100	3	A
3 Sem.	PIL111	Foundry , Welding & Material Technology	TH	CORE	8	No	Yes	No	No	No			50	100	4	A
3 Sem.	PIP112	Production Practice - I	PR	CORE	9	No	Yes	No	No	No			50	25	1.5	A
3 Sem.	PIP120	Production Engg Drawing & CAD Lab	PR	CORE	10	No	Yes	No	No	No			50	25	1	A

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3 Sem.	PIP111	Materials Science Lab.	PR	CORE	11	No	Yes	No	No	No			50	25	1	A
3 Sem.	PIP110	Foundary and Welding Lab	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.	PIL220	Design of Machine Elements	TH	CORE	5	No	Yes	No	No	No			50	100	3	A
4 Sem.	PIL230	Thermal Engineering	TH	CORE	6	No	Yes	No	No	No			50	100	3	A
4 Sem.	PIL210	Machining Sciences	TH	CORE	7	No	Yes	No	No	No			50	100	3	A

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4 Sem.	PII231	Fluid Engineering	TH	CORE	8	No	Yes	No	No	No			50	100	3	A
4 Sem.	PIP210	Production Practice - II	PR	CORE	9	No	Yes	No	No	No			50	25	1.5	A
4 Sem.	PIP211	Industrial Engineering Lab-I	PR	CORE	10	No	Yes	No	No	No			50	25	1	A
4 Sem.	PIP230	Thermal Engineering lab	PR	CORE	11	No	Yes	No	No	No			50	25	1	A
4 Sem.	PIP231	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		50	100	3	A
4 Sem.	MEL417	Marketing Management / Equivalent MOOC	TH	CORE	14	No	No	No	No	No	BUSINESS ADMINISTRATION		50	100	3	A
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

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5 Sem.	HUL203	Indian Constitution	TH	CORE	1	Yes	No	No	No	No			50	100	2	A
5 Sem.	PIN201	Seminar-1	PR	CORE	2	No	No	No	Yes	No			0	0	1	A
5 Sem.	PIT301	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.	PIL211	Advance Manufacturing Methods	TH	CORE	5	No	Yes	No	No	No			50	100	3	A
5 Sem.	PIL221	Theory of Machines	TH	CORE	6	No	Yes	No	No	No			50	100	3	A
5 Sem.	PIL212	Quality Management	TH	CORE	7	No	Yes	No	No	No			50	100	3	A
5 Sem.	PIL213	Measurement and Metrology	TH	CORE	8	No	Yes	No	No	No			50	100	3	A
5 Sem.	PIP221	Theory of Machines Lab.	PR	CORE	9	No	Yes	No	No	No			50	25	1	A

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5 Sem.	PIP312	Industrial Engineering Lab-II	PR	CORE	10	No	Yes	No	No	No			50	25	1	A
5 Sem.	PIP213	Metrology Lab.	PR	CORE	11	No	Yes	No	No	No			50	25	1	A
5 Sem.	PIP212	Quality Control 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		50	100	3	A
5 Sem.	PIL317	Non Destructive Testing	TH	ELECTIVE	13	No	No	Yes	No	No			50	100	3	A
5 Sem.	PIL331	Automobile Engineering	TH	ELECTIVE	13	No	No	Yes	No	No			50	100	3	A
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
6 Sem.	PIN202	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

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6 Sem.	PIL310	Tool Engineering	TH	CORE	3	No	Yes	No	No	No			50	100	3	A
6 Sem.	PIL311	Operations Research	TH	CORE	4	No	Yes	No	No	No			50	100	3	A
6 Sem.	PIL312	Facility Planning	TH	CORE	5	No	Yes	No	No	No			50	100	3	A
6 Sem.	PIL313	Supply & Operations Management	TH	CORE	6	No	Yes	No	No	No			50	100	3	A
6 Sem.	PIP310	Metal cutting Lab.	PR	CORE	7	No	Yes	No	No	No			50	25	1.5	A
6 Sem.	PIP311	Operations Research Lab.	PR	CORE	8	No	Yes	No	No	No			50	25	1	A
6 Sem.	PIP220	Machine Tool Design Sessional	PR	CORE	9	No	Yes	No	No	No			50	25	1.5	A
6 Sem.	PIP313	Statistical lab	PR	CORE	10	No	Yes	No	No	No			50	25	1	A
6 Sem.	PIL314	CNC Machines and Programming	TH	ELECTIVE	11	No	No	Yes	No	No			50	100	4	A

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6 Sem.	PIL321	Computer Aided Design and Graphics	TH	ELECTIVE	11	No	No	Yes	No	No			50	100	4	A
6 Sem.	PIL330	Steam Engineering and Power Plant	TH	ELECTIVE	11	No	No	Yes	No	No			50	100	4	A
6 Sem.	PIL412	Industry 4.0	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		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
7 Sem.	PID411	Project Part-1	PR	CORE	1	No	Yes	No	No	No			50	25	4	A
7 Sem.	PIT302	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.	PIL316	Metal Forming Processes	TH	CORE	4	No	Yes	No	No	No			50	100	3	A

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7 Sem.	PIL318	Computer Integrated Manufacturing	TH	CORE	5	No	Yes	No	No	No			50	100	3	A
7 Sem.	PIP314	Metal Forming & Tool Design Lab.	PR	CORE	6	No	Yes	No	No	No			50	25	1.5	A
7 Sem.	PIP315	CIMS Lab(CAM, IE & Simulation practicals)	PR	CORE	7	No	Yes	No	No	No			50	25	1.5	A
7 Sem.	PIL214	Management Information System	TH	ELECTIVE	8	No	No	Yes	No	No			50	100	4	A
7 Sem.	PIL322	Finite Element Methods	TH	ELECTIVE	8	No	No	Yes	No	No			50	100	4	A
7 Sem.	PIL413	Plastic Technology	TH	ELECTIVE	8	No	No	Yes	No	No			50	100	4	A
7 Sem.	PIL319	Optimization Techniques	TH	ELECTIVE	9	No	No	Yes	No	No			50	100	4	A
7 Sem.	PIL411	INTERNET OF THINGS AND MACHINE LEARNING	TH	ELECTIVE	9	No	No	Yes	No	No			50	100	4	A
7 Sem.	PIL421	Composite Materials Technologies	TH	ELECTIVE	9	No	No	Yes	No	No			50	100	4	A

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7 Sem.	PIL430	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		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.	MED413	Minor Project	PR	CORE	15	No	No	No	No	No	BUSINESS ADMINISTRATION		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.	PID412	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.	PIL410	Modelling and Simulation	TH	ELECTIVE	4	No	No	Yes	No	No			50	100	3	A

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8 Sem.	PIL420	Product Design and Launching	TH	ELECTIVE	4	No	No	Yes	No	No			50	100	3	A
8 Sem.	SAA100	SODECA (Anandam)	PR	CORE	5	No	No	No	No	No			100	0	0.5	B
8 Sem.	PID413	INTERNSHIP	PR	CORE	6	No	Yes	No	No	No			50	25	10	B
8 Sem.	HUL205	EQUIVALENT MOOC OF Innovation & Entrepreneurship	TH	CORE	7	Yes	No	No	No	No			50	100	3	B