

Curriculum structure semester wise
PRODUCTION ENGINEERING

SEMESTER-I

S.N	Course no.	Subject	Period			Evaluation scheme					Credit	Hours
			L	T	P	TA	CT	TOT	ESE	Sub Total		
Theory			L	T	P	TA	CT	TOT	ESE	Sub Total		
1	HU 1101	Professional communication in English	3	1	0	20	10	30	70	100	4	4
2	CH 1101	Engineering Chemistry-I	3	1	0	20	10	30	70	100	4	4
3	PH 1101	Engineering Physics-I	3	1	0	20	10	30	70	100	4	4
4	MA 1101	Mathematics-I	3	1	0	20	10	30	70	100	4	4
5	ME 1101	Engineering Mechanics	3	1	0	20	10	30	70	100	4	4
6	EE 1101	Basic Electrical Engineering	3	1	0	20	10	30	70	100	4	4
Total										600	24	24
Sessionals												
1	CH 1201 PH 1201	Chemistry Lab / Physics Lab	0	0	3	30	-	30	20	50	2 (1+1)	3
2	ME 1201 EE 1201	Engineering Mechanics Lab/ Electrical Engineering Lab	0	0	3	30	-	30	20	50	2 (1+1)	3
3	ME 1202	Engineering Graphics-I	0	0	3	30	-	30	20	50	2	3
4	ME 1203	Work Shop Practice-I	0	0	3	30	-	30	20	50	2	3
5	PE 1301	General Proficiency	-	-	-	-	-	-	-	50	1	-
Total										250	9	12

TA-Teachers assessment, CT- Class test, ESE- End semester examination.

Total Credits 24+9=33

Total Marks 600+250=850

Total Hours 24+12=36

(Rest 6 hours is to be utilized for co-curricular development)

SEMESTER-II

S.N	Course no.	Subject	Period			Evaluation scheme					Credit	Hours
			L	T	P	TA	CT	TOT	ESE	Sub Total		
Theory			L	T	P	TA	CT	TOT	ESE	Sub Total		
1	IT 2101	Programming language (C++)	3	1	0	20	10	30	70	100	4	4
2	CH 2102	Environment and ecology	3	1	0	20	10	30	70	100	4	4
3	PH 2102	Engineering Physics-II	3	1	0	20	10	30	70	100	4	4
4	MA 2102	Mathematics-II	3	1	0	20	10	30	70	100	4	4
5	ME 2102	Engineering Thermodynamics	3	1	0	20	10	30	70	100	4	4
6	EC 2101	Basic Electronics	3	1	0	20	10	30	70	100	4	4
Total										600	24	24
Sessionals												
1	EC 2201	Basic Electronics Lab	0	0	3	30	-	30	20	50	2	3
2	IT 2201	Computer Programming Lab	0	0	3	30	-	30	20	50	2	3
3	ME 2204	Engineering Graphics-II	0	0	3	30	-	30	20	50	2	3
4	ME 2205	Work Shop Practice-II	0	0	3	30	-	30	20	50	2	3
5	PE 2302	General Proficiency	-	-	-	-	-	-	-	50	1	-
Total										250	9	12

TA-Teachers assessment, CT- Class test, ESE- End semester examination.

Total Credits 24+9=33

Total Marks 600+250=850

Total Hours 24+12=36

(Rest 6 hours is to be utilized for co-curricular development)

SEMESTER-III

S.N	Course no.	Subject	Period			Evaluation scheme					Credit	Hours
			L	T	P	TA	CT	TOT	ESE	Sub Total		
Theory												
1	MA 3103	Numerical analysis & Programming	3	1	0	20	10	30	70	100	4	4
2	ML 3101	Material Science (A)	3	1	0	20	10	30	70	100	4	4
3	MA 3104	Mathematics-III	3	1	0	20	10	30	70	100	4	4
4	ME 3103	Mechanics of Solids-I	3	1	0	20	10	30	70	100	4	4
5	ME 3104	Thermodynamics	3	1	0	20	10	30	70	100	4	4
6	ME 3105	Kinematics of Machinery	3	1	0	20	10	30	70	100	4	4
Total										600	24	24
Sessionals												
1	MA 3201	Numerical Analysis & Programming Lab	0	0	3	30	-	30	20	50	2	3
2	ME 3206	Thermodynamics Lab	0	0	3	30	-	30	20	50	2	3
3	ME 3207	Kinematics of Machinery Sessional	0	0	3	30	-	30	20	50	2	3
4	ME 3208	Mechanics of Solids-I Lab	0	0	3	30	-	30	20	50	2	3
5	PE 3303	General Proficiency	-	-	-	-	-	-	-	50	1	-
Total										250	9	12

TA-Teachers assessment, CT- Class test, ESE- End semester examination.

Total Credits 24+9=33

Total Marks 600+250=850

Total Hours 24+12=36

(Rest 6 hours is to be utilized for co-curricular development)

SEMESTER-IV

S.N	Course no.	Subject	Period			Evaluation scheme					Credit	Hours
			L	T	P	TA	CT	TOT	ESE	Sub Total		
Theory												
1	MA 4105	Mathematics-IV	3	1	0	20	10	30	70	100	4	4
2	MA 4106	Probability & Statistics	3	1	0	20	10	30	70	100	4	4
3	ME 4108	Fluid Mechanics	3	1	0	20	10	30	70	100	4	4
4	ME 4109	Fluid Machine	3	1	0	20	10	30	70	100	4	4
5	PE 4101	CAD	3	1	0	20	10	30	70	100	4	4
6	PE 4102	M.P-I	3	1	0	20	10	30	70	100	4	4
Total										600	24	24
Sessionals												
1	ME 4210	Fluid Mechanics Lab	0	0	3	30	-	30	20	50	2	3
2	ME 4211	Fluid Machine Lab	0	0	3	30	-	30	20	50	2	3
3	PE 4201	CAD Lab	0	0	3	30	-	30	20	50	2	3
4	PE 4202	M.P-I (Workshop)	0	0	3	30	-	30	20	50	2	3
5	PE 4304	General Proficiency	-	-	-	-	-	-	-	50	1	-
Total										250	9	12

TA-Teachers assessment, CT- Class test, ESE- End semester examination.

Total Credits 24+9=33

Total Marks 600+250=850

Total Hours 24+12=36

(Rest 6 hours is to be utilized for co-curricular development)

SEMESTER-V

S.N	Course no.	Subject	Period			Evaluation scheme					Credit	Hours
			L	T	P	TA	CT	TOT	ESE	Sub Total		
Theory												
1	PE 5103	Production Tooling & Design-I	3	1	0	20	10	30	70	100	4	4
2	PE 5104	Metrology	3	1	0	20	10	30	70	100	4	4
3	PE 5105	Engineering Economy	3	1	0	20	10	30	70	100	4	4
4	PE 5106	Manufacturing Process-II	3	1	0	20	10	30	70	100	4	4
5	PE 5107	Industrial Organization & Management	3	1	0	20	10	30	70	100	4	4
Total										500	20	20
Sessionals												
1	PE 5203	Production Tooling & Design lab	0	0	3	30	-	30	20	50	2	3
2	PE 5204	Metrology Lab	0	0	3	30	-	30	20	50	2	3
3	PE 5205	M.P-II (Welding Lab)	0	0	3	30	-	30	20	50	2	3
4	PE 5206	Computer application Lab	0	0	3	30	-	30	20	50	2	3
5	PE 5305	General Proficiency	-	-	-	-	-	-	-	50	2	-
Total										250	10	12

TA-Teachers assessment, CT- Class test, ESE- End semester examination.

Total Credits 20+10=30

Total Marks 500+250=750

Total Hours 20+12=32

(Rest 10 hours is to be utilized for co-curricular development)

SEMESTER-VI

S.N	Course no.	Subject	Period			Evaluation scheme					Credit	Hours
			L	T	P	TA	CT	TOT	ESE	Sub Total		
Theory			L	T	P	TA	CT	TOT	ESE	Sub Total		
1	PE 6108	Production Tooling & Design-II	3	1	0	20	10	30	70	100	4	4
2	PE 6109	Work Study & Ergonomics	3	1	0	20	10	30	70	100	4	4
3	PE 6110	Modern Manufacturing Processes	3	1	0	20	10	30	70	100	4	4
4	PE 6111	Operation Research	3	1	0	20	10	30	70	100	4	4
5	PE 6112	Manufacturing Process-III	3	1	0	20	10	30	70	100	4	4
Total										500	20	20
Sessionals												
1	PE 6207	Production Tooling & Design	0	0	3	30	-	30	20	50	2	3
2	PE 6208	Work Study & Ergonomics	0	0	3	30	-	30	20	50	2	3
3	PE 6209	Modern Manufacturing Processes Lab	0	0	3	30	-	30	20	50	2	3
4	PE 6210	Operation Research Lab	0	0	3	30	-	30	20	50	2	3
5	PE 6306	General Proficiency	-	-	-	-	-	-	-	50	2	-
Total										250	10	12

TA-Teachers assessment, CT- Class test, ESE- End semester examination.

Total Credits 20+10=30

Total Marks 500+250=750

Total Hours 20+12=32

(Rest 10 hours is to be utilized for co-curricular development)

SEMESTER-VII

S.N	Course no.	Subject	Period			Evaluation scheme					Credit	Hours
			L	T	P	TA	CT	TOT	ESE	Sub Total		
Theory												
1	PE 7113 -7115	Elective-I	3	1	0	20	10	30	70	100	4	4
2	PE 7116 - 7118	Elective-II	3	1	0	20	10	30	70	100	4	4
3	PE 7119	Theory of Metal cutting & Forming	3	1	0	20	10	30	70	100	4	4
4	PE 7120	Plant Engineering	3	1	0	20	10	30	70	100	4	4
5	PE 7121	Manufacturing Automation & Robotics	3	1	0	20	10	30	70	100	4	4
Total										500	20	20
Sessionals												
1	PE 7211	FMS & Robotics Lab / Course work	0	0	3	30	-	30	20	50	2	3
2	PE 7212	TMCF Lab/Course work	0	0	3	30	-	30	20	50	2	3
3	PE 7213	Tour, Training & Colloquium	0	0	3	30	-	30	20	50	2	3
4	PE 7214	Project part-I	0	0	3	30	-	30	20	50	2	3
5	PE 7307	General Proficiency	-	-	-	-	-	-	-	50	2	-
Total										250	10	12

TA-Teachers assessment, CT- Class test, ESE- End semester examination.

Total Credits 20+10=30

Total Marks 500+250=750

Total Hours 20+12=32

(Rest 10 hours is to be utilized for co-curricular development)

ELECTIVE –I

1. Project Engineering (PE 7113)
2. Enterprise Resource Planning (PE 7114)
3. Human factors in Engineering & Design (PE 7115)

ELECTIVE-II

1. Mechatronics (PE 7116)
2. Value Engineering (PE 7117)
3. Competitive Manufacturing Strategies (PE 7118)

SEMESTER-VIII

S.N	Course no.	Subject	Period			Evaluation scheme					Credit	Hours
			L	T	P	TA	CT	TOT	ESE	Sub Total		
Theory												
1	PE 8122 - 8124	Elective-III	3	1	0	20	10	30	70	100	4	4
2	PE 8125 -8127	Elective-IV	3	1	0	20	10	30	70	100	4	4
3	PE 8128 -8130	Elective-V	3	1	0	20	10	30	70	100	4	4
4	PE 8131	Production Planning & Control	3	1	0	20	10	30	70	100	4	4
5	PE 8132	Quality & Reliability Engineering	3	1	0	20	10	30	70	100	4	4
Total										500	20	20
Sessionals												
1	PE 8215	Project part-II	0	0	12	-	-	120	80	200	8	12
2	PE 8308	General Proficiency	-	-	-	-	-	-	-	50	2	-
Total										250	10	12

TA-Teachers assessment, CT- Class test, ESE- End semester examination.

Total Credits 20+10=30

Total Marks 500+250=750

Total Hours 20+12=32

(Rest 10 hours is to be utilized for co-curricular development)

ELECTIVE-III

1. Management Information System (PE 8122)
2. Computer Integrated Manufacturing (PE 8123)
3. Expert & Decision Support System (PE 8124)

ELECTIVE-IV

1. Rapid Prototyping (PE 8125)
2. Materials Management (PE 8126)
3. Maintenance Technology & Safety Engineering (PE 8127)

ELECTIVE-V

1. Concurrent Engg (PE 8128)
2. Production Engineering & Management (PE 8129)
3. System Dynamics (PE 8130)