

Curriculum structure semester wise
MECHANICAL 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	ME 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	ME 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			L	T	P	TA	CT	TOT	ESE	Sub Total		
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	ME 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 4107	Fluid Mechanics	3	1	0	20	10	30	70	100	4	4
4	ME 4108	Fluid Machine	3	1	0	20	10	30	70	100	4	4
5	ME 4109	Manufacturing Technology-I	3	1	0	20	10	30	70	100	4	4
6	ME 4110	CAD G	3	1	0	20	10	30	70	100	4	4
Total										600	24	24
Sessionals												
1	ME 4209	Fluid Mechanics lab	0	0	3	30	-	30	20	50	2	3
2	ME 4210	Fluid Machine lab	0	0	3	30	-	30	20	50	2	3
3	ME 4211	Workshop	0	0	3	30	-	30	20	50	2	3
4	ME 4212	CAD lab	0	0	3	30	-	30	20	50	2	3
5	ME 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			L	T	P	TA	CT	TOT	ESE	Sub Total		
1	ME 5112	Heat and Mass Transfer	3	1	0	20	10	30	70	100	4	4
2	ME 5113	Mechanics of Solids – II	3	1	0	20	10	30	70	100	4	4
3	ME 5114	Applied Thermodynamics	3	1	0	20	10	30	70	100	4	4
4	ME 5115	Engineering Economics and Management	3	1	0	20	10	30	70	100	4	4
5	ME 5116	Manufacturing Technology-II	3	1	0	20	10	30	70	100	4	4
Total										500	20	20
Sessionals												
1	ME 5213	HMT Lab	0	0	3	30	-	30	20	50	2	3
2	ME 5214	Mechanics of Solids – II Lab	0	0	3	30	-	30	20	50	2	3
3	ME 5215	Applied Thermodynamics Lab	0	0	3	30	-	30	20	50	2	3
4	ME 5216	Workshop	0	0	3	30	-	30	20	50	2	3
5	ME 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												
1	ME 6118	Dynamics of Machinery	3	1	0	20	10	30	70	100	4	4
2	ME 6119	Machine Design	3	1	0	20	10	30	70	100	4	4
3	ME 6120	Refrigeration and Air conditioning	3	1	0	20	10	30	70	100	4	4
4	ME 6121	Automation (CAM)	3	1	0	20	10	30	70	100	4	4
5	ME 6122	Automobile Engg.	3	1	0	20	10	30	70	100	4	4
Total										500	20	20
Sessionals												
1	ME 6218	Dynamics of Machinery Lab	0	0	3	30	-	30	20	50	2	3
2	ME 6219	Machine Design	0	0	3	30	-	30	20	50	2	3
3	ME 6220	Refrigeration and Air conditioning Lab	0	0	3	30	-	30	20	50	2	3
4	ME 6221	Automobile Lab	0	0	3	30	-	30	20	50	2	3
5	ME 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	ME 7124-7126	Elective – I	3	1	0	20	10	30	70	100	4	4
2	ME 7127-7129	Elective - II	3	1	0	20	10	30	70	100	4	4
3	ME 7130	Control System and Measurement	3	1	0	20	10	30	70	100	4	4
4	ME 7131	Mechanical System and Design	3	1	0	20	10	30	70	100	4	4
5	ME 7132	Industrial Engineering and management	3	1	0	20	10	30	70	100	4	4
Total										500	20	20
Sessionals												
1	ME 7222	Tour, Training & Colloquium	0	0	3	30	-	30	20	50	2	3
2	ME 7223	Mechanical System and Design	0	0	3	30	-	30	20	50	2	3
3	ME 7224	Control System and Measurement	0	0	3	30	-	30	20	50	2	3
4	ME 7225	Project part – I	0	0	3	30	-	30	20	50	2	3
5	ME 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. Mechatronics (ME 7124)
2. Operation Research (ME 7125)
3. Reliability and Maintainability (ME 7126)

Elective-II

1. Gas Dynamics (ME 7127)
2. Composite Materials (ME 7128)
3. Mechanical Vibration (ME 7129)

SEMESTER-VIII

S.N	Course no.	Subject	Period			Evaluation scheme					Credit	Hours
			L	T	P	TA	CT	TOT	ESE	Sub Total		
Theory												
1	ME 8133	ICGT	3	1	0	20	10	30	70	100	4	4
2	ME 8134	Power Plant Engineering	3	1	0	20	10	30	70	100	4	4
3	ME 8135-8137	Elective - III	3	1	0	20	10	30	70	100	4	4
4	ME 8138-8140	Elective - IV	3	1	0	20	10	30	70	100	4	4
5	ME 8141-8143	Elective - V	3	1	0	20	10	30	70	100	4	4
Total										500	20	20
Sessionals												
1	ME 8226	Project part – II	0	0	12	30	-	120	80	200	8	12
2	ME 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. Work Study & Measurement(ME 8135)
2. Advance Engg. Mathematics (ME 8136)
3. Materials Management (ME 8137)

Elective-IV

1. Applied Stress Analysis(ME 8138)
2. Robotics (ME 8139)
3. Industrial Statistics(ME 8140)

Elective-V

1. Instrumentation & Control(ME 8141)
2. Financial Management & Accounting (ME 8142)
3. Metrology (ME 8143)