

### 1st Semester BE

Sl. No.	Course No.	Subject	Periods			Evaluation Scheme						
			L	T	P	Sessional Exam			ESE	Subject Total	Credit	
						TA	CT	Tot				
Theory												
1	PH101	Physics-I	3	1		30	20	50	100	150	4	
2	CY102	Chemistry-I	3	1		30	20	50	100	150	4	
3	MA103	Mathematics-I	3	1		30	20	50	100	150	4	
4	CE104	Elements of Civil Engineering	3	1	3	30	20	50	100	150	4	
5	HU105	Eng Communication and Tech report Writing	2			15	10	25	50	75	2	
Practicals/Drawing/Design												
6	CE106	Engineering Graphics-I	1		3	30	50	100	150		4	
7	CS107	Introduction to Computing		2	2	15	10	25	50	75	2	
8	ME108	Workshop-I			3	50	50	100		100	2	
9	PH101L	Physics-I Lab			3	10		10	40	50	2	
10	CY102L	Chemistry-I Lab			3	10		10	40	50	2	
Total			15	6	17							

**Total Marks: 1100**

**Total Periods: 38**

**Total Credits: 30**

### 2<sup>nd</sup> Semester BE

Sl. No.	Course No.	Subject	Periods			Evaluation Scheme						
			L	T	P	Sessional Exam			ESE	Subject Total	Credit	
						TA	CT	Tot				
Theory												
1	PH201	Physics-II	3	1		30	20	50	100	150	4	
2	CY202	Chemistry-II	3	1		30	20	50	100	150	4	
3	MA203	Mathematics-II	3	1		30	20	50	100	150	4	
4	ME204	Engg. Mechanics-I	2			15	10	25	50	75	2	
5	CE205	Strength of Materials	2			15	10	25	50	75	2	
6	EE206	Basic Electrical Engg -I	3	1		30	20	50	100	150	4	
Practicals/Drawing/Design												
7	ME207	Engineering Graphics-II			4	30	20	50	100	150	4	
8	ME208	Workshop-II			3	50	50	100		100	2	
9	PH201L	Physics-II Lab			3	10		10	40	50	2	
10	CY202L	Chemistry-II Lab			3	10		10	40	50	2	
11	ME204L	Engg Mech-I Lab			2	15	10	25		25	1	
12	CE205L	Strength of Materials Lab			2	15	10	25		25	1	
13	EE206L	Basic Electrical Engg-I Lab			3	10		10	40	50	2	
Total			16	4	20							

**Total Marks: 1200**

**Total Periods: 40**

**Total Credits: 34**

### 3<sup>RD</sup> Semester BE(ME)

SL.No	Course No	SUBJECT	PERIOD			EVALUATION SCHEME					
			L	T	P	Sessional Exam. TA     CT Total			ESE	Subject Total	Credit
1	MA 301	Mathematics – III	3	1	0	30	20	50	100	150	4
2	EE 303	Electro Technology – I	3	1	0	30	20	50	100	150	4
3	ME 305	Basic Thermodynamics	3	1	0	30	20	50	100	150	4
4	ME 322	Theory of Machine	3	1	0	30	20	50	100	150	4
5	ME 323	Engineering Graphics – III	1	0	3	30	20	50	100	150	4
6	ME 324	Workshop Theory – I	3	1	0	30	20	50	100	150	4
7	ME 325	General Proficiency							50	50	2
<b>Practical/ Drawing/Design</b>											
8	EE 303L	Electro Technology – I	0	0	3	30	20	50		50	2
9	ME 322L	Theory of Machines	0	0	3	30	20	50		50	2
10	ME 323L	Engineering Graphics – III	0	0	3	30	20	50		50	2
11	ME 324L	Workshop Theory – I	0	0	3	30	20	50		50	2
<b>Total</b>			<b>16</b>	<b>8</b>	<b>12</b>					<b>1150</b>	

**Total marks : 1150**

**Total Periods: 36**

**Total Credits : 34**

TA : Teachers Assessment  
examination

CT: Class test

ESE : End Semester

### OTHER COURSES OFFERED BY MECHANICAL ENGINEERING DEPARTMENT

#### (3<sup>RD</sup> SEM)

SL.No	Course No	SUBJECT	PERIOD			EVALUATION SCHEME					
			L	T	P	Sessional Exam. TA     CT Total			ESE	Subject Total	Credit
1	ME302	Engineering Mechanics(for E, Ch, Ins)	3	1	0	30	20	50	100	150	4
2	ME317	Basic Mechanical Engg (for Civil)	2	0	3*	25	25	50	50	100	
3	ME 322	Theory of Machine (for IPE)	3	1	0	30	20	50	100	150	4
4	ME 323	Engineering Graphics – III (for IPE)	1	0	3	30	20	50	100	150	4

5	ME 305	Basic Thermodynamics (for IPE, E, ET, Ins)	3	1	0	30	20	50	100	150	4
<i>Practical/ Drawing/Design</i>											
10	ME 302L	Engg Mechanics	0	0	3	30	20	50		50	2
11	ME 322L	Theory of Machines (for IPE)	0	0	3	30	20	50		50	2
	ME 323L	Engineering Graphics – III (for IPE)	0	0	3	30	20	50		50	2

\* alternate week

#### 4<sup>th</sup> Semester BE(ME)

SL.No	Course No	SUBJECT	PERIOD			EVALUATION SCHEME					
			L	T	P	Sessional/Exam. TA   CT   Total			ESE	Subject Total	Credit
Theory											
1	MA 401	Mathematics – IV	3	1	0	30	20	50	100	150	4
2	HU 402	Sociology and Accountancy	3	1	0	30	20	50	100	150	4
3	HU 403	Communication Skill	2	0	0	15	10	25	50	75	2
4	EE 404	Electro Technology – II	3	1	0	30	20	50	100	150	4
5	ME 425	Mechanics of Material	3	1	0	30	20	50	100	150	4
6	ME 426	Fluid Mechanics - I	3	1	0	30	20	50	100	150	4
7	ME 427	Material Science	3	0	2	30	20	50	100	150	4
8	ME 428	General Proficiency							25	25	1
Practical/ Drawing/Design											
9	EE 404L	Electro Technology – II	0	0	3			50		50	2
10	ME 425L	Mechanics of Materials	0	0	3			50		50	2
11	ME 426L	Fluid Mechanics	0	0	3			50		50	2
Total			20	5	11					1150	33

**Total marks : 1150**

**Credits : 33**

TA : Teachers Assessment  
Semester examination

**Total Periods: 36**

CT: Class test

**Total**

ESE : End



4	ME										
5	ME										
6	ME										
7	ME										
Practical/ Drawing/Design											
8	ME L										
9	ME L										
10	ME L										
11	ME L										
Total											

### 6<sup>th</sup> Semester BE(ME)

SL.No	Course No	SUBJECT	PERIOD			EVALUATION SCHEME					
			L	T	P	Sessional/Exam. TA   CT   Total			ESE	Subject Total	Credit
Theory											
1	ME 621	Machine Design - II	3	0	0	30	20	50	100	150	4
2	ME 622	Operation Research	4	0	0	30	20	50	100	150	4
3	ME 623	Fluid Mechanics – II	3	1	0	30	20	50	100	150	4
4	ME 624	Engg. Inspection and Metrology	3	1	0	30	20	50	100	150	4
5	ME 625	Workshop Theory – II	3	0	0	30	20	50	100	150	4
6	ME 626	Numerical Methods and Computation	3	1	2	30	20	50	100	150	4
7	ME 627	General Proficiency							50	50	2
Practical/ Drawing/Design											
8	ME 621L	Machine Design – II	0	0	3	30	20	50		50	2
9	ME 623L	Fluid Mechanics – II	0	0	3	30	20	50		50	2
10	ME 624L	Engg. Inspection and Metrology	0	0	2	30	20	50		50	2
11	ME 625L	Workshop Theory – II	0	0	3	30	20	50		50	2
Total			19	3	13						34

**Total marks : 1150**

**Total Periods: 35**

**Total Credits : 34**

## 7<sup>th</sup> semester BE(ME)

SL.No	Course No	SUBJECT	PERIOD			EVALUATION SCHEME					
			L	T	P	Sessional/Exam.			ESE	Subject Total	Credit
Theory						TA	CT	Total			
1	ME 721	Mechanical Vibration	3	1	1	50	25	75	100	175	4
2	ME 722	Applied Thermodynamics – II	3	1	0	50	25	75	100	175	4
3	ME 723	Hydraulic Machines	3	1	0	50	25	75	100	175	4
4	ME 724	Heat Transfer – II	3	1	1	50	25	75	100	175	4
5	ME 725	Elective – I	3	1	0	50	25	75	100	175	4
6	ME 726	Elective – II (Open)	3	1	0	50	25	75	100	175	4
<b>Practical/ Drawing/Design</b>											
7	ME 727L	Practical Training	0	0	2			50		50*	2
8	ME 728L	Project – I	0	0	8					100**	4
<b>Total</b>			18	6	12					1200	

**Total marks : 1200**

**Total Periods: 36**

**Total Credits : 30**

*TA : Teachers Assessment*

*CT: Class test*

*ESE :*

*End Semester examination*

**Electives : Mechanical Engineering**

Elective – I : Refrigeration/Machine Tools

Elective – II : Computational Fluid dynamics and Heat Transfer/ Non Conventional Energy

Systems

\* Practical Training : Report = 20 marks ; Seminar + Viva = 30 marks

\*\* Project – I : TA = 40 marks ; Report = 30 marks ; Seminar + Viva = 30 marks

**8th Semester BE(ME)**

SL.No	Course No	SUBJECT	PERIOD			EVALUATION SCHEME					
			L	T	P	Sessional/Exam. TA   CT   Total			ESE	Subject Total	Credit
1	ME 821	Manufacturing Method	3	1	0	50	25	75	100	175	4
2	ME 822	Industrial Engg & Management	3	1	0	50	25	75	100	175	4
3	ME 823	Internal Combustion Engine	3	1	1	50	25	75	100	175	4
4	ME 824	Elective – III	3	1	0	50	25	75	100	175	4
5	ME 825	Elective – IV (Open)	3	1	0	50	25	75	100	175	4
Practical/ Drawing/Design											
6	ME 826	Project – II	0	0	12					150*	8
7	ME 827	Viva-Voce	0	0	0					75	2
Total			15	5	13					1100	

**Total marks : 1100**

**Total Periods: 33**

**Total Credits : 30**

*TA : Teachers Assessment*

*CT: Class test*

*ESE :*

*End Semester examination*

**Electives : Mechanical Engineering**

Elective – III : Air Conditioning/Compressor & Gas Turbine

Elective – IV : Power Plant Technology/Robotics & Applications

\* Project – II : TA = 60 marks ; Report = 40 marks ; Presentation } Mid Semester = 25 marks

End Semester = 25 marks

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