

## Semester 5

S. No.	Category	Course Code	Course Title	Hours per week			Credits	Marks for Sessional	Marks for End Term Examination	Total
				L	T	P				
1	PCC		Dynamics of Machines	3	1	0	3	30	70	100
2	PCC		Internal Combustion Engines and Gas Turbines	3	1	0	3	30	70	100
3	PCC		Design of Machine element-I	3	1	0	3	30	70	100
4	PCC		Heat Transfer	3	1	0	3	30	70	100
5	OEC		Open Elective -I	3	0	0	3	30	70	100
6	PEC		Professional Elective-I	3	0	0	3	30	70	100
7	LC		Dynamics of Machines_Lab	0	0	2	1	50	50	100
8	LC		Internal Combustion Engines and Gas Turbines_Lab	0	0	2	1	50	50	100
9	LC		Heat Transfer_Lab	0	0	2	1	50	50	100
10	PT		Practical Training I	0	0	2	1	50	50	100
			<b>Total</b>				<b>22</b>			<b>1000</b>

**NOTE:**

1. Choose any one from Professional Elective Course-I
2. Choose any one from Open Elective Course-I

**Professional Elective-I**

Sr. No.	Code	Subject	Credit
1		Strength of Material-II	3
2		Welding Technology	3
3		Tribology	3
4		Robotics Engineering	3

### Semester 6

S. No.	Course Code	Category	Course Title	Hours per week			Credits	Marks for Sessional	Marks for End Term Examination	Total
				L	T	P				
1	HSC		Entrepreneurship Development	3	0	0	3	30	70	100
2	PCC		Fluid Machines	3	0	0	3	30	70	100
3	PCC		Design of machine Element-II	3	0	0	3	30	70	100
4	PCC		Operation Research	3	0	0	0	30	70	100
5	OEC		Open Elective-II	3	0	0	3	30	70	100
6	PEC		Elective-I	3	0	0	3	30	70	100
7	PEC		Elective-II	3	0	0	3	30	70	100
8	PCC		Fluid Machines Lab	0	0	2	1	50	50	100
9	HSMC		Economics for Engineers	2	0	0	0	30	50	100
10	PROJ-1		Project-I	0	0	4	2	50	50	100
			<b>Total</b>				<b>24</b>			<b>1000</b>

#### NOTE

1. The examination of the regular students will be conducted by the concerned college/Institute internally. Each student will be required to score a minimum of 40% marks to qualify in the paper. The marks will not be included in determining the percentage of marks obtained for the award of a degree.
2. Choose any one from each of the Professional Elective Course-II and III .
3. Choose any one from Open Elective Course-II

#### Professional Elective-II

Sr. No.	Code	Subject	Credit
1		Power Plant Engineering	3
2		Solar Energy Engineering	3
3		Artificial Intelligence and Robotics	3
4		Machine Tool Design	3

#### Professional Elective-III

Sr. No.	Code	Subject	Credit
1		Additive Manufacturing	3
2		Finite Element Method	3
3		System Modelling And Simulation	3
4		Noise and Vibrations	3