

## B.E. Mechanical Engineering (Part Time)

### Semester I

S.NO	COURSE CODE	COURSE TITLE	L	T	P	C
Theory						
1	PTMA9111	Applied Mathematics	3	0	0	3
2	PTPH9111	Applied Physics	3	0	0	3
3	PTCY9111	Applied Chemistry	3	0	0	3
4	PTGE9151	Engineering Mechanics	3	0	0	3
5	PTEC9161	Electronics Engineering	3	0	0	3
Total			15	0	0	15

### Semester II

S.NO	COURSE CODE	COURSE TITLE	L	T	P	C
Theory						
1	PTMA9211	Transforms and Partial Differential Equations	3	0	0	3
2	PTGE9261	Environmental Science & Engineering	3	0	0	3
3	PTME9201	Manufacturing Technology – I	3	0	0	3
4	PTEE9211	Electrical Drives & Control	3	0	0	3
5	PTME9303	Hydraulics and Pneumatics	3	0	0	3
Total			15	0	0	15

### Semester III

S.NO	COURSE CODE	COURSE TITLE	L	T	P	C
Theory						
1	PTME9251	Manufacturing Technology – II	3	0	0	3
2	PT CE9213	Strength of Materials	3	0	0	3
3	PTME9202	Engineering Thermodynamics	3	0	0	3
4	PTME9252	Engineering Materials & Metallurgy	3	0	0	3
5	PTME9203	Kinematics of Machines	3	0	0	3
Total			15	0	0	15

### Semester IV

S.NO	COURSE CODE	COURSE TITLE	L	T	P	C
Theory						
1	PTME9304	Modern Machine Processing	3	0	0	3
2	PTME9305	Design of Machine Elements	3	0	0	3
3	PTME9253	Dynamics of Machines	3	0	0	3
4	PTME9254	Thermal Engineering – I	3	0	0	3
Practical						
5	PTME9308	Thermal Engineering Lab	0	0	3	2
Total			12	0	3	14

**Semester V**

S.NO	COURSE CODE	COURSE TITLE	L	T	P	C
Theory						
1	PTME9301	Design of Jigs, Fixtures & Press Tools	3	0	0	3
2	PTME9302	Thermal Engineering – II	3	0	0	3
3	PTME9402	Mechatronics	3	0	0	3
4	PTME9353	Design of Transmission Systems	3	0	0	3
5	PTME9306	Metrology & Measurements	3	0	0	3
Total			15	0	0	15

**Semester VI**

S.NO	COURSE CODE	COURSE TITLE	L	T	P	C
Theory						
1	PTME9354	Computer Aided Design & Manufacture	3	0	0	3
2	PTME9355	Heat and Mass Transfer	3	0	0	3
3		Elective – I	3	0	0	3
4		Elective - II	3	0	0	3
Practical						
5	PTME9357	CAD/CAM Laboratory	0	0	3	2
Total			12	0	3	14

**Semester VII**

S.NO	COURSE CODE	COURSE TITLE	L	T	P	C
Theory						
1	PTGE9022	Total Quality Management	3	0	0	3
2	PTME9401	Power Plant Engineering	3	0	0	3
3		Elective – III	3	0	0	3
4		Elective –IV	3	0	0	3
Practical						
5	PTME9357	Project Work	0	0	6	6
Total			12	0	6	18

TOTAL CREDITS TO BE EARNED FOR THE AWARD OF THE DEGREE = 106

## ELECTIVES

S.NO	COURSE CODE	COURSE TITLE	L	T	P	C
1	PTME9021	Energy Conservation & Management	3	0	0	3
2	PTME9022	New and Renewable Sources of Energy	3	0	0	3
3	PTME9023	Advanced Welding and Casting Processes	3	0	0	3
4	PTME9024	Mechanical Vibrations & Noise	3	0	0	3
5	PTME9025	Design for Manufacturing	3	0	0	3
6	PTME9026	Gas Dynamics and Jet Propulsion	3	0	0	3
7	PTME9027	Management Sciences	3	0	0	3
8	PTME9028	Composite Materials & Mechanics	3	0	0	3
9	PTME9029	Automobile Engineering	3	0	0	3
10	PTME9030	Industrial Tribology	3	0	0	3
11	PTME9031	Turbo Machinery	3	0	0	3
12	PTME9032	Computational Fluid Dynamics	3	0	0	3
13	PTME9033	Micro Electro Mechanical System	3	0	0	3
14	PTME9035	Measurements and Control	3	0	0	3
15	PTME9036	Advanced IC Engines	3	0	0	3
16	PTME9037	Refrigeration and Air – conditioning	3	0	0	3
17	PTME9038	Nuclear Engineering	3	0	0	3
18	PTME9039	Design of Heat Exchange	3	0	0	3
19	PTGE9021	Professional Ethics in Engineering	3	0	0	3
20	PTGE9022	Fundamentals of Nanoscience	3	0	0	3
21	PTMF9302	Theory of Metal Forming	3	0	0	3
22	PTMF9351	Flexible Manufacturing System	3	0	0	3
23	PTMG9072	Entrepreneurship Development	3	0	0	3
24	PTMG9073	Marketing Management	3	0	0	3
25	PTML9402	Non Destructive Materials Evaluation	3	0	0	3
26	PTIE9023	Product Design and Development	3	0	0	3
27	PTME9351	Finite Element Analysis	3	0	0	3
28	PTMG9362	Industrial Management				