

List of Electives in E3 & E4					
Elective I					
Course Code	Name of the Course	L	T&PS	P	Credits
ME3501	Design Optimization	2	2	0	4
ME3502	Theory of Elasticity	2	2	0	4
ME3503	Thermal Engineering II	2	2	0	4
ME3504	Renewable Energy Engineering	2	2	0	4
ME3505	Advanced Materials Technology	2	2	0	4
ME3506	Industrial Engg. And Management	2	2	0	4
ME3507	Finite Element Methods	2	2	0	4
Elective II					
Course Code	Name of the Course	L	T&PS	P	Credits
ME3508	Mechanical Vibrations	2	2	0	4
ME3509	Fatigue, Creep & Fracture	2	2	0	4
ME3510	Micro Electro Mechanical Systems	2	2	0	4
ME3511	Refrigeration and Air Conditioning	2	2	0	4
ME3512	Turbo Machinery	2	2	0	4
ME3513	Soft Computing	2	2	0	4
ME3514	Managerial Economy & Financial Accountancy	2	2	0	4
ME3515	Design Thinking	2	2	0	4
Elective III					
Course Code	Name of the Course	L	T&PS	P	Credits
ME3516	Computational Fluid Dynamics	2	2	2	6
ME3517	CAD/CAM	2	2	2	6
ME3518	CNC Machining	2	2	2	6
ME3519	Signal Processing	2	2	2	6
Elective IV					
Course Code	Name of the Course	L	T&PS	P	Credits
ME3601	Nonlinear Vibrations	2	2	0	4
ME3602	Experimental Stress Analysis	2	2	0	4
ME3603	System identification & condition monitoring	2	2	0	4
ME3604	Fluid Power Control	2	2	0	4
ME3605	Heat Exchangers Design	2	2	0	4
ME3606	Welding Technology	2	2	0	4
ME3607	Nano Technology	2	2	0	4
ME3608	Operations Research	2	2	0	4
Elective V					
Course Code	Name of the Course	L	T&PS	P	Credits
ME3609	Random Vibrations	2	2	0	4
ME3610	Advanced Mechanics of Solids	2	2	0	4
ME3611	Image processing	2	2	0	4
ME3612	Multi-Phase flow heat Transfer	2	2	0	4
ME3613	Solar Energy Technology	2	2	0	4
ME3614	Advanced Manufacturing Processes	2	2	0	4

ME3615	Process Dynamics & Adaptive Control	2	2	0	4
Elective VI					
Course Code	Name of the Course	L	T&PS	P	Credits
ME3616	Mechanics of Composite Materials	2	2	0	4
ME3617	Theory of Plates & Shells	2	2	0	4
ME3618	Automobile Engineering	2	2	0	4
ME3619	Gas Dynamics	2	2	0	4
ME3620	Additive Manufacturing	2	2	0	4
ME3621	Advanced Fluid Mechanics	2	2	0	4
Elective VII					
Course Code	Name of the Course	L	T&PS	P	Credits
ME4501	Simulation of Mechanical Systems	2	2	0	4
ME4502	Design for Manufacturability	2	2	0	4
ME4503	Advanced Engg. Thermodynamics	2	2	0	4
ME4504	Nuclear Power Generation & Safety	2	2	0	4
ME4505	Surface Engineering	2	2	0	4
Elective VIII					
Course Code	Name of the Course	L	T&PS	P	Credits
ME4506	Control Systems & Engineering	2	2	0	4
ME4507	Rotor Dynamics	2	2	0	4
ME4508	Fuels & Combustion	2	2	0	4
ME4509	Advanced Metal Forming	2	2	0	4
ME4510	Robotics and Applications	2	2	0	4
Elective XI					
Course Code	Name of the Course	L	T&PS	P	Credits
ME4601	Tribology	2	2	0	4
ME4602	Vehicle Dynamics	2	2	0	4
ME4603	Turbulent Flows	2	2	0	4
ME4604	Inspection and Quality Control	2	2	0	4
ME4605	Biomechanics	2	2	0	4