

MS and PhD Courses Mechanical Engineering
(E = elective courses; ST = Selected Topics)

E		F02	S03	Sm03	F03	S04	Sm04	F04	S05	Sm05	F05	S06	Sm06
Design, Systems and Control													
✓	ME 7302	Linear System Analysis	✓										
	ME 7320	Intermediate Dynamics							✓				
✓	ME 7314	Intro. to MEMS	✓										
✓	ME 7322	Vibrations			✓			✓					
✓	ME 7326	Vehicle Dynamics	✓						✓				
✓	ME 7337	Intro. to CFD	✓			✓			✓				
✓	ME 7355	Integrated Design and Manufacturing		✓									✓
	ME 7356	Human Factors in Design and Manufacturing	✓					✓					
✓	ME 7358	Design of Electronic Packaging	✓		✓								
✓	ME 7372	Intro. to CAD-CAM		✓	✓								
✓	ME 7374	Intro. to Mechanical CAE						✓					
	ME 8367	Nonlinear Control											
Manufacturing Systems													
	ME 7343	Electronic Packaging Materials							✓				
✓	ME 7350	Ethical Decision Making						✓					
✓	ME 7351	Computer Integrated Manufacturing	✓			✓					✓		
	ME 7352	Modern Manufacturing Methods		✓				✓				✓	
	ME 7353	Manufacturing Management Practice		✓			✓						
✓	ME 7354	Total Quality Management			✓				✓				
✓	ME 7355	Integrated Design and Manufacturing		✓			✓			✓			✓
	ME 7356	Human Factors in Design and Manufacturing	✓										
	ME 7365	Strategy for Manufacturing Firms		✓					✓				
	ME 7366	Manufacturing in a Global Era			✓				✓				
✓	ME 7368	Project and Risk Management				✓					✓		
✓	ME 7369	Managing Technology and Innovations			✓							✓	
✓	ME 7391	ST - Financial Dec. for Eng. & Manuf. Managers		✓		✓				✓			✓
✓	ME 7393	ST - Nontraditional Manufacturing Processes	✓					✓					
	ME 7394	ST - Optics Laser Assisted Manufacturing	✓					✓					
Mechanical Sciences													
	ME 7319	Advanced Mechanical Behavior of Materials				✓							
✓	ME 7320	Intermediate Dynamics							✓				
✓	ME 7322	Vibrations			✓			✓			✓		
	ME 7323	Intro. to Fracture Mechanics											
✓	ME 7324	Fatigue Theory			✓						✓		
✓	ME 7340	Intro. to Solid Mechanic				✓							
	ME 7361	Matrix Structural Analysis and Int FEM			✓			✓			✓		
✓	ME 7364	Intro. to Structural Dynamics						✓					
	ME 7377	Advanced Steel Design		✓					✓				
✓	ME 7387	Foundation Engineering		✓					✓				
	ME 8364	FEM in Structural and Continuum Mechanics									✓		
Packaging of Electronics and Optics Devices													
	ME 7330	Heat Transfer							✓				
	ME 7342	Mechanical Aspects of Electronic Packaging					✓						✓
	ME 7343	Electronic Packaging Materials						✓					
	ME 7351	Computer Integrated Manufacturing	✓			✓					✓		
	ME 7354	Total Quality Management			✓				✓				
	ME 7359	Analysis and Design											
	ME 7362	Electronic Product Design and Reliability									✓		
	ME 7366	Manufacturing in a Global Era			✓				✓				
	ME 7367	Electronics Manufacturing Technology										✓	
	ME 7368	Project and Risk Management				✓					✓		
	ME 7386	Convection Heat Transfer				✓							

