

Dhaka University of Engineering & Technology, Gazipur



Information Booklet for Postgraduate Program

Department of Mechanical Engineering

Courses and Syllabus for Postgraduate Programs

List of Courses

Course No.	Course Title	Credit
ME 6000	Thesis	18
ME 6001	Project	6
ME 6002	Seminar: Based on selected Topics of ME	U/S
ME 6101	Mechanics of Inviscid Incompressible Fluid	3
ME 6102	Wind Power	3
ME 6103	Wind Turbines	3
ME 6104	Computational Fluid Dynamics	3
ME 6105	Fluid Drive and Control	3
ME 6106	Advanced Aerodynamics	3
ME 6107	Aerofoil Design	3
ME 6108	Turbomachinery	3
ME 6109	Advanced Fluid Mechanics	3
ME 6110	Mechanics of Inviscid Compressible Flow	3
ME 6111	Viscous Flow Theory	3
ME 6112	Flow Control Techniques	3
ME 6201	Organizational Behavior	3
ME 6202	Advanced Machine Tools	3
ME 6203	Welding Science and Technology	3
ME 6204	Linear Programming	3
ME 6205	Advanced Engineering Management	3
ME 6206	Advanced Engineering Economy	3
ME 6207	Artificial Intelligence	3
ME 6208	Project Management	3
ME 6209	Advanced Quality Control	3
ME 6210	Advanced Operations Research	3
ME 6211	Advanced Manufacturing Processes	3
ME 6212	Metal Fabrication	3
ME 6213	Polymer Engineering	3
ME 6214	Nanofabrication	3
ME 6215	Industrial Safety Management	3
ME 6216	Managerial Economics	3
ME 6217	Principles of Engineering Production	3

Course No.	Course Title	Credit
ME 6218	Advanced Engineering Production	3
ME 6219	Theory of Casting Processes	3
ME 6220	Statistics & Design of Experiments	3
ME 6301	Advanced Dynamics	3
ME 6302	Stress Analysis	3
ME 6303	Theory of Elasticity	3
ME 6304	Finite Element Methods in Engineering	3
ME 6305	Mechanical Behavior of Engineering Materials	3
ME 6306	CAD/CAM	3
ME 6307	Theory of Plasticity	3
ME 6308	Mechanics of Composite Materials	3
ME 6309	Mechanical Vibrations	3
ME 6310	Theory of Plates & Shells	3
ME 6311	Engineering Tribology	3
ME 6312	Advanced Materials Science	3
ME 6313	Surface Engineering	3
ME 6314	Experimental Stress Analysis	3
ME 6315	Structure and Properties of Engineering Materials	3
ME 6316	Smart Materials	3
ME 6317	Advanced Mechatronics	3
ME 6318	Fracture Mechanics	3
ME 6319	Fatigue and Creep	3
ME 6320	Advanced Mechanics of Solids	3
ME 6401	Advanced Engineering Thermodynamics	3
ME 6402	Advanced Heat Transfer	3
ME 6403	Design of Heat Transfer Equipments	3
ME 6404	Internal Combustion Engines	3
ME 6405	Fundamentals of Combustion	3
ME 6406	IC Engine Combustion and Pollution	3
ME 6407	Computational Fluid Flow and Heat Transfer	3
ME 6408	Solar Energy	3
ME 6409	Fuels and Combustion	3
ME 6410	HVAC Fundamental & Applications	3

Course No.	Course Title	Credit
ME 6411	HVAC System and Equipments	3
ME 6412	Refrigeration: Systems and Applications	3
ME 6413	Refrigeration: Components and equipments	3
ME 6414	Advanced Convection Heat Transfer	3
ME 6415	Automotive Air Pollution & Control	3
ME 6416	Boiling and Condensation Heat Transfer	3
ME 6417	Inverse Heat Transfer Problems	3
ME 6418	Heat Transfer Enhancement	3
ME 6419	Alternative Fuels For Engines	3
ME 6420	Energy Conservation	3
ME 6421	Waste Management and Energy Production	3
ME 6422	Gas Dynamics	3
ME 6423	Rocket Propulsion	3
ME 6424	Space Propulsion	3
ME 6425	Energy Engineering	3
ME 6426	Bio-energy: Technology and Application	3
ME 6501	Hydraulic and Pneumatic Control Systems	3
ME 6502	Automatic Control Systems	3
ME 6503	Robotics and Robot Applications	3
ME 6601	Advanced Mathematical Methods in Engineering.	3
ME 6602	Advanced Numerical Analysis	3