

MIE reviewed postgraduate programmes and respective courses

Department	Program	Core Courses	Elective Courses
Mechanical and Industrial Engineering	Master of Science in Renewable Energy Engineering (MScREE)	Experimental and Computational Methods for Engineers	Modeling of Power Systems
		Bioenergy Technology and Applications	Climate Change and Environmental Management
		Hydropower	Procurement and Contract Management
		Solar Thermal Technology and Applications	Mini and Smart Grid Technologies
		Solar PV Technology and Applications	Energy Efficiency and Management in Buildings
		Wind Energy Systems	Engineering Project Management
		Geothermal Energy Systems	
		Ocean Energy Systems	
		Graduate Engineering Research Seminar	
		Dissertation	
Mechanical and Industrial Engineering	Master of Science in Energy Systems Engineering (MScESE)	Experimental and Computational Methods	Nuclear Energy Systems
		Refrigeration and Air Conditioning Systems	Automotive Engineering
		Industrial Fuels and Combustion Systems	Environmental Management and Climate Change
		Energy Economics and Policy	Control Systems Engineering
		Design and Modelling of Energy Systems	Engineering Project Management
		Energy Efficiency and Management in Buildings	Industrial Energy management
		Pumps and Hydro Turbines	
		Graduate Engineering Research Seminars	
		Dissertation	
Mechanical and Industrial Engineering	Master of Science in Oil And Gas Technology (MScOGT)	Experimental and Computational Methods for Engineers	Techno-Entrepreneurship Development
		Oil and Gas Multiphase Transport	Environmental Management and Climate Change
		Gas Technology and Petroleum Refining	Industrial Fuels and Combustion Systems
		Field Development and Subsea Production	Occupational Health and Safety Engineering
		Energy Economics and Policy	Corrosion and Corrosion Control
		Instrumentation and Metering Systems	Oil and Gas Supply Chain Management

		Pipelines and Pressure Vessels	Management of Energy Systems
		Engines and Turbomachinery	
		Dissertation	
		Selected Topics in Energy Engineering	
Mechanical and Industrial Engineering	Master of Science in Manufacturing Engineering (MScMFE)	Manufacturing Systems Analysis	Research Methods and Statistics for Engineers
		Computer Integrated Manufacturing	Control System Engineering
		Metal Forming	Advanced Engineering Materials
		Experimental and Computational Methods for Engineers	Mechanical Vibrations
		Advanced Manufacturing Technologies	System Simulation and Optimization
		Production Planning and Control	Environmental Management and Climate Change
		Flexible Manufacturing Systems	Behaviour of Machine Tools
		Welding Technology	Reliability and Quality Control
		Graduate Engineering Research Seminars	Design of Mechanisms
		Dissertation	Corrosion and Corrosion Control
			Casting Technology
			Environmental Management and Climate Change
			Occupational Health and Safety Engineering
			Techno-Entrepreneurship Development
			Selected Topics in Manufacturing Engineering
Mechanical and Industrial Engineering	Master of Engineering Management (MEM)- Blended and online (Project Management)	Engineering Enterprises Management	Technology Management
		Research Methods and Statistics for Engineers	Engineering Project Monitoring and Evaluation
		System Simulation and Optimization	Techno- Entrepreneurship Development
		Engineering Project Feasibility	Infrastructure Management
		Environmental Management and Climate Change	Quality Systems Engineering
		Procurement and Contract Management	Project Management Information systems
		Engineering Consulting Management	Engineering Economics
		Engineering Project Management	Student Initiated Module
		Graduate Engineering Research Seminars	Selected Topics in Engineering Management
		Dissertation	
		Engineering Enterprises Management	Management Information Systems

Mechanical and Industrial Engineering	Master of Engineering Management (MEM)- Blended and online (Maintenance Management)	Research Methods and Statistics for Engineers	Technology Management
		Industrial Maintenance Engineering	Techno- Entrepreneurship Development
		System Simulation and Optimization	Management of Energy Systems
		Maintenance Audit and Control	Procurement and Contract Management
		Advanced Reliability Engineering	Environmental Management and Climate Change
		Computerized Maintenance Management System	Engineering Economics
		Occupational Health and Safety Engineering	Quality Systems Engineering
		Graduate Engineering Research Seminars	Student Initiated Module
		Dissertation	Selected Topics in Engineering Management
Mechanical and Industrial Engineering	Master of Engineering Management (MEM)- Blended and online (Industrial Engineering Management)	Engineering Enterprises Management	Technology Management
		Research Methods and Statistics for Engineers	Management Information Systems
		Manufacturing Systems Analysis	Advanced Operations Research
		System Simulation and Optimization	Techno- Entrepreneurship Development
		Production Planning and Control	Infrastructure Management
		Quality Systems Engineering	Occupational Health and Safety Engineering
		Industrial Logistics Engineering	Procurement and Contract Management
		Engineering Economics	Environmental Management and Climate Change
		Graduate Engineering Research Seminars	Student Initiated Module
		Dissertation	Selected Topics in Engineering Management
Mechanical and Industrial Engineering	Postgraduate Diploma in Engineering Management (PGDEM)	Information Systems Analysis	Engineering Enterprises Management
		Operations Research	Research Methods and Statistics for Engineers
		Production and Operations Management	Engineering Economics
		Logistics Engineering	Production Planning and Control
		Project Design and Supervision	Quality Systems Engineering
		Research Project	Procurement and Contract Management
			Engineering Consulting Management

			Occupational Health and Safety Engineering
			Environmental Management and Climate Change
Mechanical and Industrial Engineering	Postgraduate Diploma in Mechanical Engineering (PGDME)	Mechanical Power Transmission	Industrial Automation
		Control of Mechanical Systems	Operations Research
		Manufacturing Technology	Polymer Processing Engineering
		Production and Operations Management	Natural Gas Technology
		Combustion and Heat Transfer	Environmental Management and Climate Change
		Project Design and Supervision	Computer Integrated Manufacturing
		Mechanical Engineering Project	Composite Material
			Industrial Noise Control
			Engineering Project Management
			Engineering Project Feasibility
			Advanced Manufacturing Technologies
			Behaviour of Machine Tools
			Occupational Health and Safety Engineering