

MEng in Electrical Engineering

Electives offered by the Department of Electrical Engineering in 2006/07

(The Department reserves the right to change the electives to be offered. The offer of electives is subject to availability of resources and University regulations.)

Subject Code	Subject Title	2006/07	
		Offer in Semester 1	Offer in Semester 2
LEVEL 4 SUBJECTS			
EE4211	Advanced Power Electronics		✓D or E
EE4221	Applied Digital Control	✓D	
EE4241	Computing Networks & Operating Systems		✓D or E
EE4251	Electric Traction and Drives		✓E
EE4261	Fibre Optics		✓D
EE4281	Industrial Computer Applications		✓D or E
EE4291	Intelligent Buildings		✓Sat
EE4301	Power System Protection	✓E	
EE4341	Application of Intelligent Methods in Electrical Engineering		✓D
LEVEL 5 SUBJECTS			
EE501	Alternative Energy Technologies	✓E	
EE509	High Voltage Engineering	✓E	
EE514	Real Time Computing		✓E
EE517	Fibre Optic Components	✓E	
EE521	Industrial Power Electronics		✓E
EE524	Open Electricity Market Operation		✓E
EE526	Power System Analysis & Dynamics	✓E	
EE527	Auto-tuning for Industrial Processes		✓E

Sat- Saturday Morning
D – Daytime
E - Evening

MEng in Electronic and Information Engineering

Electives offered by the Department of Electronic and Information Engineering in 2006/07

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Subject Code	Subject Title	2006/07	
		Offer in Semester 1	Offer in Semester 2
LEVEL 4 SUBJECTS			
EIE401	VLSI & Computer-Aided Circuit Design	✓D	
EIE402	Power Electronics		✓D&E
EIE403	High Frequency Circuits		✓D
EIE414	Computer Architecture and Systems	✓D	
EIE415	Multimedia Technology		✓D
EIE424	Distributed Systems and Network Programming		✓D
EIE425	Video, Image and Audio Processing	✓D	
EIE443	Telecommunication Networks		✓D
EIE447	Mobile Communications	✓D	
LEVEL 5 SUBJECTS			
EIE507	Network Design - Theory & Practice	✓E	
EIE522	Pattern Recognition: Theory & Applications	✓E	
EIE528	Digital Data Transmission	✓E	
EIE529	Digital Image Processing		✓E
EIE536	High Speed Networks		✓E
EIE546	Video Technology		✓E
EIE552	Internet Technologies for Multimedia Applications		✓E
EIE553	Security in Data Communication		✓E
EIE559	CDMA Spread Spectrum Communications and Its Applications	✓E	
EIE576	Information Technology in Biomedicine	✓E	

D – Daytime

E - Evening

April 2006

MEng in Industrial and Systems Engineering

Electives offered by the Department of Industrial and Systems Engineering in 2006/07

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Subject Code	Subject Title	2006/07	
		Offer in Semester 1	Offer in Semester 2
LEVEL 4 SUBJECTS			
ISE401	Production and Material Control	✓D	
ISE407	Quality Management Systems	✓E	
ISE410	Rapid Prototyping Technologies		✓D
ISE418	Computer-aided Product Design	✓D	
ISE419	Advanced Mould Die Design		✓E
ISE423	Business Process Reengineering	✓D	
ISE425	Simulation of Industrial and Business Processes		✓D
ISE426	Engineering Enterprise Portal	✓D	
ISE431	Engineering Costing and Evaluation		✓D
ISE441	Engineering Project Management	✓E	
LEVEL 5 SUBJECTS			
ISE507	Simulation of Industrial Systems		✓E
ISE508	Reliability Engineering		✓E
ISE512	Warehousing and Material Handling		✓E
ISE518	Workflow Design and Management		✓E
ISE525	Global Operations and Logistics Management	✓E	
ISE526	Enterprise Resource Planning	✓E	
ISE528	Industrial Decision Support Systems	✓E	
ISE531	Principles of Knowledge Engineering and Management		✓D
ISE539	Service Quality	✓E	
ISE551	Advanced Manufacturing Technology	✓E	

D – Daytime

E - Evening

April 2006

MEng in Mechanical Engineering

Electives offered by the Department of Mechanical Engineering in 2006/07

(The Department reserves the right to change the electives to be offered. The offer of electives is subject to availability of resources and University regulations.)

Subject Code	Subject Title	2006/07	
		Offer in Semester 1	Offer in Semester 2
LEVEL 4 SUBJECTS			
ME4202	Industrial Automation	Exact offer schedule will be advised later	
ME4203	Product Design and Management		
ME4204	Mechatronic Systems		
ME4205	Manufacturing and Prototyping		
ME4206	Advanced Materials for Design and Technology		
ME4207	Artificial Intelligence in Mechanical Engineering		
ME4208	Computer Aided Technology for Design		
ME4401	Emission and Pollution Control		
ME4402	Management of Land Transportation Operations		
ME4403	Urban Transportation Technology		
ME4404	Combustion Applications		
ME4405	Environmental Noise		
ME4406	Noise Abatement and Control		
ME4501	Aviation Safety Management Systems		
ME4502	Aviation Systems I		
ME4503	Aviation Systems II		
ME4504	Maintenance Programme Development		
LEVEL 5 SUBJECTS			
ME534	Engineering Acoustics	✓E	
ME540	Fuels and Engines		✓E
ME556	Advanced Combustion Systems	✓E	
ME557	CFD and Thermofluid System	✓E	
ME558	Advanced Materials and Structural Design		✓E
ME564	Principles and Design of Air Pollution Control Devices		✓E
ME566	Industrial and Environmental Measurement Technology		✓E
ME567	Advanced Control Technology	✓E	
ME569	Thermal System Design and Management		✓E
ME571	Corrosion Control	✓E	
ME573	Project on Product Design and Management	✓E	

D – Daytime
E - Evening

April 2006