



**PROGRAMME DETAILED STRUCTUREDIPLOMA
DEGREE IN MECHANICAL ENGINEERING**



<i>1. Diploma in Hydraulic Systems</i>		
Course Number	Course Title	CR.
	<i>Core Courses</i>	
ME 663	Hydraulic & Pneumatic Circuits	3.0
ME 666	Selected Topics in Fluid Engineering	3.0
ME 665	Maintenance of Hydraulic Systems	3.0
ME 661	Fluid Measurements	3.0
ME 662	Fluid Machinery	3.0
ME 664	Fluid - Power Equipment	3.0
ME 601	<i>Diploma Project</i>	6.0

<i>2. Diploma in Applied Mechanics</i>		
Course Number	Course Title	CR.
	<i>Core Courses</i>	
ME 651	Applied Computational Mechanics	3.0
ME 652	Condition Monitoring and Diagnostics Design (CMDS)	3.0
ME 653	Industrial Tribology	3.0
ME 654	Machinery Vibration, Measurement and Analysis	3.0
ME 655	Computer Aided Engineering	3.0
ME 671	New and Advanced Materials	3.0
ME 601	<i>Diploma Project</i>	6.0

<i>3.Diploma in Refrigeration and Air Conditioning</i>		
Course Number	Course Title	CR.
	<i>Core Courses</i>	
ME 631	Refrigeration Systems	3.0
ME 632	Refrigeration and Air Conditioning Equipment	3.0
ME 633	Heat Exchangers	3.0
ME 634	Air Conditioning Systems	3.0
ME 635	Industrial Ventilation	3.0
ME 636	Applications in Refrigeration and Air Conditioning	3.0
ME 601	<i>Diploma Project</i>	6.0

<i>4.Diploma in Thermal Power Plants</i>		
Course Number	Course Title	CR.
	<i>Core Courses</i>	
ME 621	Advanced Thermal Power Plants	3.0
ME 622	Renewable Energy and Desalination Plants	3.0
ME 623	Control and Instrumentation of Thermal Power Plants	3.0
ME 624	Operation, Manag. and Maintenance of Thermal Power Plants	3.0
ME 625	Environmental Aspects of Power Generation	3.0
ME 626	Diesel Engines and Gas Turbine Units	3.0
ME 601	<i>Diploma Project</i>	6.0

<i>5. Diploma in MECHATRONICS ENGINEERING</i>		
Course Number	Course Title	CR.
	<i>Core Courses</i>	
ME 691	Mechatronics System	3.0
ME 692	Condition Monitoring and Fault Diagnostics	3.0
ME 693	Sensors and Transducers	3.0
ME 694	Discrete-State Process Control	3.0
ME 695	Design of Microprocessor-Based Control Systems	3.0
ME 601	<i>Diploma Project</i>	6.0