

Course Classification

Course Category	Code	Course	Credit	Percentage
University General Courses	U### ###3	University Elective	3	7.5%
Programme Core	MKMM 1213	Advanced Engineering Mathematics	3	22.5%
	MKMM 1223	Instrumentation, Measurement & Control	3	
	MKMM 1903	Research Methodology	3	
Project	MKMM 1914	Master Project I	4	25%
	MKMM 2926	Master Project II	6	
Programme Electives (choose 6 courses only)	MKMM 1133	Fatigue and Fracture Mechanics	3	45%
	MKMM 1153	Computational Method in Solid Mechanics	3	
	MKMM 1163	Advanced Material	3	
	MKMM 1183	Theories of Elasticity and Plasticity	3	
	MKMM 1233	Acoustics	3	
	MKMM 1243	System Modelling and Simulation	3	
	MKMM 1253	Advanced Industrial Automation	3	
	MKMM 1263	Conditional Monitoring	3	
	MKMM 1283	Vibration Measurements and Control	3	
	MKMM 1293	Structural Dynamics	3	
	MKMM 1313	Advanced Fluid Mechanics	3	
	MKMM 1323	Compressible Flow	3	
	MKMM 1333	Computational Fluid Dynamics	3	
	MKMM 1413	Advanced	3	

		Thermodynamics		
	MKMM 1423	Energy Management	3	
	MKMM 1433	Advanced Heat Transfer	3	
	MKMM 1443	Advanced Combustion	3	
	MKMM 1453	Sustainable Energy Technology	3	
	MKMM 1463	Computational Heat Transfer	3	
	MKMM 1543	CAD and its Application	3	
	MKMM 1553	Engineering Optimization	3	
	MKMM 2123	Plates, Shells and Pressure Vessels	3	
	MKMM 2143	Advanced Mechanics of Composite structure	3	
	MKMM 2153	Structural Reliability	3	
	MKMM 2163	Crashworthiness and Structural Impact	3	
	MKMM 2213	Adaptive Control and Intelligent system	3	
	MKMM 2243	Robot Systems and Control	3	
	MKMM 2253	Advanced Control Engineering	3	
	MKMM 2283	Mechatronic System Design	3	
	MKMM 2413	Thermo Fluid Measurement and Diagnostic	3	
	MKMM 2443	Internal Combustion Engines	3	
	MKMM 2453	Advanced Refrigeration and Air Conditioning System	3	
	MKMM 2513	Design Engineering	3	
	MKMM 2523	Reliability Methods in Engineering Design	3	
	MKMM 2543	Graphics in CAD	3	
	MKMM 2553	Virtual Reality for Engineers	3	
Total Credit Value			40	100%