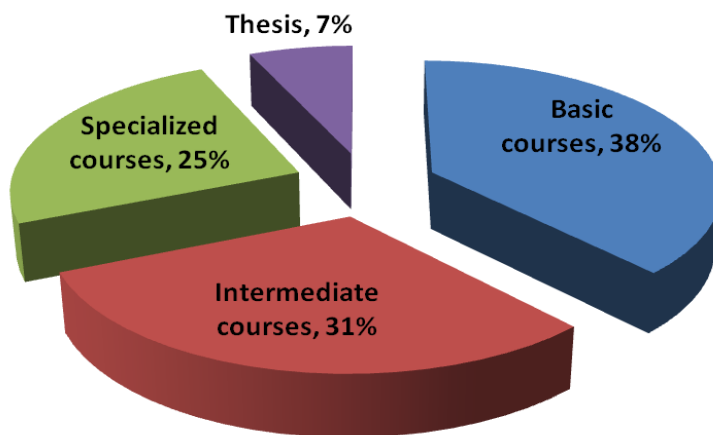


The MET programme was designed based on the practical needs of stakeholders, as well as referring to the curricula of other national and international institutions. From 2001 to 2012, the MET programme has experienced several revisions with gradual downsizing of the number of credits. Knowledge clusters were integrated to save time for students' self-study. The programme structure facilitates content balance between knowledge and generic and specialized skills.

The MET program structure



Knowledge cluster	Subjects	Credits	Total	
	Orientation	Introduction to MET	3	3
		Advanced Mathematics A1	3	
		Advanced Mathematics A2	3	
		Advanced Mathematics A3	3	
		Applied Probability & Statistics	3	
		Applied Mathematics in Engineering	3	
		English 1	3	
		English 2	3	
		English 3	3	
		Fundamental Physics 1	3	
		Fundamental Physics 2	2	
		Physics Experiment	1	
		Fundamental Chemistry A1	3	

		Visual Basic Programming	3	
		Principles of Marxism	5	
		Ho Chi Minh's Thoughts	2	
		Revolutionary of Lines of VCP	3	
		General laws	2	
		Elective courses	6	
		Descriptive Geometry & Technical Drawing	3	
		English in Engineering	2	
		Mechanics in Engineering	3	
		Strength of Materials	3	
		Principles & Parts of Machines	3	
		Measuring Techniques & Tolerances	2	
		Material Science 1	2	
		Fundamentals of Machinery Manufacturing Technology	3	
		Automatic Controls	3	
		Electrical and Electronics Engineering	3	
		Elective courses	6	
	Course project	Project on Theory of machine and machine design	1	1
		Experiments on Mechanics	1	
		Experiments on Mechanical Measurement	1	
		Experiments on Material Science	1	
		Experiment of Electronic electrical engineering	1	
		Electric Welding Practice	1	
		Mechanical Works Practice	2	
		Basic Turning Practice	3	

		Basic Milling Practice	2		
		Pneumatic & Hydraulic Systems	3		
		PLC Programming Techniques	2		
		Digital Techniques and Microcontroller	4		
		Industrial Robots	2		
		Applied Programming with C++	3		
		Electric drives	3		
		Servo Driving Systems	2		
		Elective courses	4		
		Control and Drive Project	1	1	
		Project of Mechatronic systems	1	1	
			Experiments on Pneumatic Drive & Hydraulic Drive	1	
			Practice in PLC Programming	1	
			Practice of Electrical Drive	1	
			Experiment of Automatic Control	1	
			Practice in Applied Programming with C++	1	
			Practice of Digital Techniques and Microcontroller	1	
			Experiments on Industrial Robots	1	
			Practice of Servo Driving Systems	1	
			Factory Internship	2	
			Elective course	2	
Thesis		Capstone project	10	10	
			Total	150	