

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

KNOWLEDGE P	ROFILE (WK)	Program Outcome
WK1	Theory-based natural sciences A systematic theory-based understanding of the natural sciences applicable to the discipline.	Engineering
WK2	Conceptual-based mathematics Conceptual-based mathematics, numerical analysis, statistics and formal aspects of computer and information sciences to support analysis and modelling applicable to the discipline.	Knowledge
WK3	Theory-based engineering fundamentals A systematic, theory-based formulation of engineering fundamentals required in the engineering discipline.	Problem
WK4	Forefront specialist knowledge for practice Engineering specialist knowledge that provides theoretical frameworks and bodies of knowledge for the accepted practice areas in the engineering discipline; much is at the forefront of the discipline.	Analysis
WK5	Engineering design Knowledge that supports engineering design in a practice area.	Design
WK6	Engineering practice (technology) Knowledge of engineering practice (technology) in the practice areas in the engineering discipline.	Modern Tools
WK7	Comprehension engineering in society Comprehension of the role of engineering in society and identified issues in engineering practice in the discipline: ethics and the professional responsibility of an engineer to public safety; the impacts of engineering activity: economic, social, cultural, environmental and sustainability.	Engineers & Ethics Society Environment & Sustainability
WK8	Research literature Engagement with selected knowledge in the research literature of the discipline.	Investigation

			Em	phasis to the	e Prograr	<u>mme Learn</u>	ing Outcor	<u>nes (PLOs)</u>	and Know	ledge Prof	ile (WK)		
	Knowledge Profile (WK)	WK1-	WK4	WK5	WK8	WK6		WK7					
Code	Programme Learning Outcomes (PLO)	PLO 1 Engineering Knowledge	PLO 2 Problem Analysis	PLO 3 Design / Development of solutions	PLO 4 Investigation	PLO 5 Modern Tool Usage	PLO 6 The Engineer and Society	PLO 7 Ethics	PLO 8 Environment and	PLO 9 Individual and Team Work	PLO 10 Communicatio	n PLO 11 Life Long	PLO 12 Project Management and Finance
BAEM1003	Engineering Mathematics I	Г											
BAEM1103	Engineering Mathematics I	ŗ	Г										
DALMITOS		-	-										
BAEM1203/ BAEM2283	Engineering Mathematics III	J	J										
BAPH1003	Physics for Engineering Students	ſ	ſ										
BAEC1013	Electric Circuit I	Г	Г							7	Г		
BAEC1113/ BAEC2113	Electric Circuit II	Г	Г							ſ			
BAEC1023	Electronic Circuit I	ſ	ſ							ſ	1		
BAEC1123/ BAEC2123	Electronic Circuit II	Ţ	Ţ			Ţ					Ţ		
BAES3002/ BAES2082	Engineer and Society						J	J	1			J	
BAEM1013/ BAEM1083	Electronic Instrumentation and	Г	Г	Г		ſ							
BADE1033	Digital Electronics I		ſ	ſ						ſ			
BAEC1133/ BADE2183	Digital Electronics II	Г	ſ	ſ									
BACP1003	C Programming	ſ	Г	Г		ſ							
BAPS2003	Basic Power System & Electric Machines	ſ	ſ										
BAPE2023	Power Electronics	ſ	ſ	Г									
BAPL2003/ BAPL3083	Programmable Logic Controllers	Г		ſ		Ţ				ſ			
BACT2003/ BACT3083	Basic Control Theory	Г	Г			Г							
BAMC2003	Microcontroller & Microprocessor Systems	Г		ſ		ſ							
BASS2003/ BASS3083	Signals And Systems	Г	Г										
BALS3033	Logic System Design	Г		ſ		ſ							
BAFT3003	Fundamentals of Telecommunication	Г	ſ							ſ			
BAEE3013/ BAEE2083	Engineering Electromagnetic	ſ	ſ										
BAES3013/ BAES4083	Engineering Statistics	Г	Г										
BAME3003	Microelectronics	ſ	Г										
BACP3072	Capstone Project I			1			Ţ	Ţ	Ţ	Ţ	Ţ	Ţ	Ţ
BACP3172/ BACP3173	Capstone Project II			J	<i>,</i>	r	J	J	J	J	J	J	J
	Project & Practice I				J	J	г	J	r		J	J	J
DAPP4174	Project & Practice II				J	J	J	J	J		J	J	J
BAEE4003/ BAEE3083	Engineering Economics & Finance		ſ	_	ſ	-							ſ
BASP4013/ BASP3083	Digital Signal Processing	r.	J	1	J	1				-			
BAVS4003	VLSI System Design	J	J	J			r	r	r	J	r	r	
DATR4004		1					1	1	1				