Curriculum structure (BEKG Part Time Mode)

Table below shows the curriculum structure for the Bachelor of Electrical Engineering (Part Time Mode). The academic curriculum is made up of a total of 135 credits spread over five-and-a-half-year programme. The total credits hours of both engineering and non-engineering courses are 104 and 31 credits respectively. They are distributed accordingly throughout the semesters in the years' study. Table 2 list the specialization elective courses offers to student to choose their preferred specialization area either Industrial Power, Power Electronic & Drive or Control, Instrumentation & Automation.

Courses offered (Program Structure) According to Semester and Total Credits

Year	Semester	Code	Courses	Course Type	Credits	
					Individual	Total
1	1	BMFG 1113	ENGINEERING MATHEMATICS	Core	3	11
		BMFG 1213	ENGINEERING MATERIALS	Core	3	
		BEKG 1123	PRINCIPLE OF ELECTRICAL AND ELECTRONICS	Core	3	
		BLHW 1702/ BLHW 1742	TITAS / MALAYSIAN STUDIES	Univ.	2	
	2	BMCG 1013	DIFFERENTIAL EQUATIONS	Core	3	10
		BEKU 1123	ELECTRIC CIRCUIT I	Core	3	
		BEKB 1131	ENGINEERING PRACTICE I	Core	1	
		BLHW 1422	ENGLISH FOR ACADEMIC PRUPOSE	Univ.	2	
		BKKX XXXX	CO-CORRICULUM 1	Univ.	1	
	3	BMCG 1523	ENGINEERING GRAPHIC AND CAD	Core	3	6
		BENG 1413	DIGITAL ELECTRONICS	Core	3	
2	1	BEKG 2443	ENGINEERING MATHEMATIC II	Core	3	11
		BEKG 1233	PRINCIPLES OF INSTRUMENTATION AND MEASUREMENT	Core	3	
		BEKE 2333	ANALOGUE ELECTRONICS	Core	3	
		BLHW 2712 / BLHW 2752*	ETHNICS RELATIONS / MALAYSIAN CULTURE	Univ.	2	
	2	BITG	COMPUTER PROGRAMMING		3	11
		BEKU 2333	ELECTRIC CIRCUIT II	Core	3	
		BEKG 2433	ELECTRICAL SYSTEMS	Core	3	
		BEKB 1231	ENGINEERING PRACTICE II	Core	1	
		BKKX XXXX	CO-CORRICULUM II	Univ.	1	
	3	BEKP 2453	ELECTROMAGNETIC THEORY	Core	3	5
		BMCG 2432	INTRODUCTION TO MECHANICAL	Core	2	
3	1	BEKC 2433	SIGNALS AND SYSTEMS	Core	3	9
		BEKE 3533	ELECTRICAL MACHINES	Core	3	
		BEKB 2331	ELECTRICAL ENGINEERING LAB I	Core	1	
		BLHL 1XX2	ELECTIVE I (UNIVERSITY)	Elective	2	
	2	BEKC 2453	COMMUNICATION SYSTEMS	Core	3	11
		BEKC 3523	CONTROL SYSTEMS ENGINEERING	Core	3	
		BEKP 4773	POWER SYSTEM ANALYSIS	Core	3	
		BLHW 2452	ACADEMIC WRITING	Univ.	2	

3	3	BEKC 3663	INSTRUMENTATION AND CONTROL	Core	3	6
		BEKE 3543	POWER ELECTRONICS	Core	3	
4	1	BENG 2143	ENGINEERING STATISTIC	Core	3	9
		BEKC 3543	MICROPROCESSOR	Core	3	
		BEKB 2431	ELECTRICAL ENGINEERING LAB II	Core	1	
		BLHW 3462	ENGLISH FOR PROFESSIONAL	Univ.	2	
	2	BEKP 4853	ENERGY UTILIZATION AND	Core	3	11
		BEKP 4883	HIGH VOLTAGE ENGINEERING	Core	3	
		BEKE 4753	ELECTRICAL DRIVES	Core	3	
		BXXX XXX2	ELECTIVE II (UNIVERSITY)	Elective	2	
	3	BEKU 3695	INDUSTRIAL TRAINING	Core	5	5
5	1	BEKU 4861	ENGINEERING SEMINAR	Core	1	10
		BEKP 4843	RENEWABLE ENERGY	Core	3	
		BEKB 3673	INTEGRATED DESIGN PROJECTS	Core	3	
		BEKB 3551	ELECTRICAL ENGINEERING LAB III	Core	1	
		BTMW 4012	ENTERPRENEUSHIP TECHNOLOGY	Univ.	2	
	2	BEKU 4972	FINAL YEAR PROJECT 1	Core	2	7
		BENG 4322	ENGINEER AND SOCIETY	Core	2	
		BEKX XXX3	ELECTIVE I	Elective	3	
	3	BMFG 4623	ENGINEERING ECONOMY AND MANAGEMENT	Univ.	3	6
		BEKX XXXX	ELECTIVE II	Elective	3	
6	1	BEKU 4894	FINAL YEAR PROJECT 2	Core	4	7
		BEKX XXXX	ELECTIVE III	Elective	3	
TOTAL CREDITS					135	

List of Elective Courses According to Areas of Field of Specialization

AREAS	CODE	ELECTIVE COURSES
INDUSTRIAL POWER	BEKP 3683	DISTRIBUTION SYSTEM DESIGN
	BEKP 4873	POWER SYSTEM PROTECTION
POWER ELECTRONICS AND DRIVES	BEKE 4873	ELECTRIC MACHIN DESIGN
	BEKE 3663	POWER ELECTRONICS SYSTEM
	BEKE 4763	MODERN ELECTRICAL DRIVES
	BEKE 3673	INDUSTRIAL POWER ELECTRONICS
CONTROL, INSTRUMENTATION AND AUTOMATION	BEKC 3673	INDUSTRIAL CONTROL AND AUTOMATION
	BEKC 4773	INTELLIGENT CONTROL SYSTEMS
	BEKC 4683	DIGITAL CONTROL SYSTEMS
	BEKM 4863	INDUSTRIAL ROBOTICS