

Bachelor of Engineering with Honours
Curriculum Structure BERG

	CODE	COURSE	CATEGORY	CREDIT
SEMESTER 1	BLHW 1772	Philosophy and Current Issues	W	2
	BKKX xxx1	Co-Curriculum I	W	1
	BLHW 1142	English for Academic Purposes	W	2
	BMIG 1313	Engineering Mathematics 1	P	3
	BMIG 1213	Engineering Materials	P	3
	BERG 1132	Engineering Practice	K	2
	BERG 1713	Circuit Theory 1	K	3
TOTAL CREDITS THIS SEMESTER				16
SEMESTER 2	BKKX xxx1	Co-Curriculum II	W	1
	BMKC 1013	Differential Equations	P	3
	BERN 1233	Computer Programming	P	3
	BERG 1413	Digital Electronics	P	3
	BERG 1723	Circuit Theory 2	K	3
	BERG 2123	Fundamental of Electronics	K	3
	BLLW 12X2	Language Electives	W	2
TOTAL CREDITS THIS SEMESTER				18

	CODE	COURSE	CATEGORY	CREDIT
SEMESTER 3	BLHW 2782 BLHW 2762*	Malaysian Nation State Aspiration Malaysian Citra	W	2
	BELG 2443	Engineering Mathematics 2	P	3
	BERG 2183	Instrumentation and Measurement	K	3
	BERG 2413	Electrical Technology	K	3
	BERN 2413	Digital System	K	3
	BERG 2133	Analogue Electronics	K	3
	BERG 2211	Electronic Engineering Lab 1	K	1
TOTAL CREDITS THIS SEMESTER				18
SEMESTER 4	BLLW 2152	Academic Writing	W	2
	BERN 2143	Engineering Statistics	P	3
	BMKU 1313	Engineering Graphics and CAD	P	3
	BERN 2423	Microprocessor Technology	K	3
	BERN 2733	Signals and Systems	K	3
	BERN 2753	Communication Principles	K	3
	BERG 2431	Electronic Engineering Lab 2	K	1
TOTAL CREDITS THIS SEMESTER				18

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	CODE	COURSE	CATEGORY	CREDIT
SEMESTER 5	BTMW 4012	Technology Entrepreneurship	W	2
	BERN 3322	Engineer and Society	P	2
	BERG 3213	Engineering Management	K	3
	BERN 3223	Control Principles and Systems	K	3
	BERG 3143	Electronic System Design and Analysis	K	3
	BERG 3743	Electromagnetic Fields and Waves	K	3
	BERG 3211	Electronic Engineering Lab 3	K	1
TOTAL CREDITS THIS SEMESTER				17
SEMESTER 6	BLHW 3162	English for Professional Interaction	W	2
	BLHW 2792	Integrity and Anti-Corruption	W	2
	BERN 3863	Integrated Design Project	P	3
	BERN 3763	Digital Signal Processing	K	3
	BERG 3253	IC Design and Process	K	3
	BERG 3343	Power Electronics and Drives	K	3
	BERG 3761	Electronic Engineering Lab 4	K	1
TOTAL CREDITS THIS SEMESTER				17

	CODE	COURSE	CATEGORY	CREDIT
SPECIAL SEM	BERN 3005	Industrial Training	P	5
	TOTAL CREDITS THIS SEMESTER			5
SEMESTER 7	BERN 4972	Bachelor Degree Project 1	P	2
	BERG 4131	Engineering Seminar	P	1
	BERG 4333	Artificial Intelligence	K	3
	BERG 4711	Electronic Engineering Lab 5	K	1
	BERX xxx3	Engineering Elective 1	E	3
	BERX xxx3	Engineering Elective 2	E	3
TOTAL CREDITS THIS SEMESTER				13
SEMESTER 8	BERN 4984	Bachelor Degree Project 2	P	4
	BERG 4453	Computer Architecture	K	3
	BERX xxx3	Engineering Elective 3	E	3
	BERX xxx3	Engineering Elective 4	E	3
TOTAL CREDITS THIS SEMESTER				13
TOTAL CREDITS				135

List of Elective Courses

Elective Courses	Programme Specialization			
	Computer Engineering	Industrial Electronics	Telecommunication Engineering	Wireless Communication
Elective 1	BERG 4463 Microcontroller Technology	BERG 4233 Industrial Control	BERG 4773 Telecommunication System Engineering	BERG 4783 Wireless Communication System
Elective 2	BERR 4713 Big Data Analytics	BERG 4243 Industrial Automation	BERG 4793 Microwave Engineering	BERG 4813 Data Communication and Networking
Elective 3	BERR 4743 Computer Vision and Pattern Recognition	BERR 4723 Digital Image Processing	BERG 4823 Digital Communication System	BERG 4833 Antenna and Wave Propagation
Elective 4	BERN 4473 Digital Integrated Circuit Design	BERR 4733 Machine Learning	BERG 4843 Optoelectronics	BERG 4853 Radio Navigation System
	BERR 4533 Embedded Software Design			

List of Language Courses

Code	Courses
BLLW 1172*	Bahasa Melayu Komunikasi 1
BLLW 1212	Bahasa Arab 1
BLLW 1222	Bahasa Mandarin 1
BLLW 1232	Bahasa Jepun 1
BLLW 1242	Bahasa Korea 1
BLLW 1252	Bahasa Jerman 1

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Specialization

Students who register for the Bachelor of Electronic Engineering program may specialize either in Industrial Electronics, Computer Engineering, Telecommunication Electronics or Wireless Communications.

All the undergraduate programs offered by the Faculty of Electronics and Computer Technology and Engineering are accredited and recognized by the Board of Engineers Malaysia (BEM). Graduates from the Bachelor of Engineering programs above may apply to register with the Board of Engineers Malaysia, as graduate engineer in the engineering fields.

Degree Awarded	Choice of Field Elective	Field of Registration with BEM
Bachelor of Electronic Engineering with Honours [BERG]	Industrial Electronics	Electronic Engineer
	Computer Engineering	
	Telecommunication Electronics	
	Wireless Communication	