Curriculum Structure – BERZ

	CODE	COURSE	CATEGORY	CREDIT	PRE-REQUISITE
SEMESTER 1	BELG 1013	Technical Mathematics	P	3	
	BERE 1013	Technical Physics	P	3	
	BERT 1303	Electrical Circuit Fundamental	K	3	
	BERE 1303	Engineering Workshop I	K	3	
	BERC 1313	Programming Fundamental	K	3	
	BLHW 1772	Philosophy and Current Issues	W	2	
TOTAL CREDITS THIS SEMESTER				**17**	
SEMESTER 2	BMIG 1023	Calculus for Technology	P	3	
	BERZ 1203	AC Circuit Analysis	K	3	
	BERE 1313	Engineering Workshop II	K	3	
	BERE 2343	Engineering Drawing	K	3	
	BERE 1323	Electronic Fundamentals	K	3	
	BKKX XXX1	Co-curriculum I	W	1	
	BLLW 1142	English for Academic Purposes	W	2	
TOTAL CREDITS THIS SEMESTER				**18**	

	CODE	COURSE	CATEGORY	CREDIT	PRE-REQUISITE
SEMESTER 3	BMKG 2033	Applied Calculus for Technology	P	3	
	BERE 2333**	Analogue Electronic Devices	K	3	BERE 1323
	BERC 2403	Digital Electronic	K	3	
	BERT 2423	Signal & Systems	K	3	
	BERZ 1213	Instrumentation & Measurement	K	3	
	BLLW 2152	Academic Writing	W	2	
	BKKX XXX1	Co-curriculum II	W	1	
TOTAL CREDITS THIS SEMESTER				**18**	
SEMESTER 4	BERG 2043	Statistical Methods	P	3	
	BERT 2333	Communication Principle	K	3	
	BERE 2353	Electronic Systems	K	3	
	BERE 2364	Control Principles	K	4	
	BERC 2383	Computer Network & System	K	3	
	BLLW 1XX2	Third Language	W	2	
	BLHW 2792	Integrity and Anti-Corruption Course	W	2	
TOTAL CREDITS THIS SEMESTER				**20**	

** Pre-requisite course

	CODE	COURSE	CATEGORY	CREDIT	PRE-REQUISITE
SEMESTER 5	BERT 3383	Electromagnetic	K	3	
	BERU 3803	Integrated Design Project	K	3	
	BERZ 2404	Microcontroller Technology	K	4	
	BERT 3373**	Digital Signal Processing	K	3	BERT 2423
	BLHW 2722 BLLW 1172*	Malaysian Nation State Aspiration Malay Language for Communication 1	W	2	
	BERX XXX3	Elective I	E	3	
TOTAL CREDITS THIS SEMESTER				**18**	
SEMESTER 6	BERE 3404	Data Acquisition & Sensors	K	4	
	BERU 3764	Bachelor Degree Project I	K	4	
	BLLW 3162	English for Professional Interaction	W	2	
	BTMW 4012	Technology Entrepreneurship	W	2	
	*BERX XXX3	Elective II	E	3	
	*BERX XXX3	Elective III	E	3	
TOTAL CREDITS THIS SEMESTER				**18**	

* For international students

** Pre-requisite course

	CODE	COURSE	CATEGORY	CREDIT	PRE-REQUISITE
SEMESTER 7	BERU 4053	Engineering Ethics & OSHE	P	3	
	BERE 3424	Embedded Systems Application	K	4	
	BERE 4443	Quality Management	K	3	
	BERU 4774**	Bachelor Degree Project II	K	4	BERU 3764
	BLHC 4032 BLHW 2762*	Critical and Creative Thinking Malaysian Citra	W	2	
	BLHW 2752	Elective IV	E	3	
TOTAL CREDITS THIS SEMESTER				**19**	
SEMESTER 8	BERU 48812	Industrial Training *Latihan Industri*	K	12	
TOTAL CREDITS THIS SEMESTER				**12**	
TOTAL CREDITS				**140**	

* For international students

** Pre-requisite course

Credit Hour Structure

Number of credit hours regarding to course category is represented in the following table.

Category	Code	Total Credit
Programme	P	18
Course	K	78
University Compulsory	W	20
Industrial Training	K	12
Elective	E	12
GRAND TOTAL		140

List of Elective Courses

For Elective I, students may choose any ONE (1) course from the following list.

CODE	COURSE
BERT 3353	Telecommunication System
BERT 3413	RF Technique & Microwave
BERZ 4803	Anatomy & Physiology
BERZ 4813	Medical Imaging and Image Processing
BERZ 4923	Microelectronic Fabrication
BERZ 4903	Semiconductor Process

For each Elective II and III, students may choose any ONE (1) courses from the following list.

CODE	COURSE
BERT 4813	Mobile Communication
BERT 4833	Antenna Engineering
BERZ 4823	Medical Devices and Instrumentation
BERZ 4853	Biomedical Ethics Acts, Standards & Safety
BERZ 4873	VLSI Design
BERZ 4883	Digital IC Design

For Elective IV, students may choose any ONE (1) course from the following list.

CODE	COURSE
BERT 4803	Satellite Communication
BERZ 4863	Radio Navigation System
BERZ 4843	Biomedical Engineering Maintenance
BERZ 4833	Biomechanics
BERZ 4913	VLSI Architecture
BERZ 4893	Digital IC Testing
BERE 3823	Artificial Intelligence