

Bachelor of Computer Engineering Technology (Computer Systems) with Honours (BEEC)

	CODE	SUBJECT	CATEGORY	CREDIT	PRE-REQUISITE
SEMESTER 1	BEEU 1013	Matematik Teknikal <i>Technical Mathematics</i>	P	3	
	BEEE 1013	Fizik Teknikal <i>Technical Physics</i>	P	3	
	BEEC 1303	Asas Elektronik <i>Basic Electronics</i>	K	3	
	BEEC 1323	Bengkel Kejuruteraan Komputer I <i>Computer Engineering Workshop I</i>	K	3	
	BEEC 1313	Asas Pengaturcaraan <i>Programming Fundamental</i>	K	3	
	BLLW 1442	Bahasa Inggeris untuk Akademik <i>English for Academic Purposes</i>	W	2	
TOTAL CREDITS THIS SEMESTER				17	
SEMESTER 2	BEEU 1023	Kalkulus untuk Teknologi <i>Calculus for Technology</i>	P	3	
	BEEI 1303	Pengenalan Litar Elektrik <i>Electrical Circuit Fundamental</i>	K	3	
	BEEC 1333	Bengkel Kejuruteraan Komputer II <i>Computer Engineering Workshop II</i>	K	3	
	BEEC 2373	Organisasi & Senibina Komputer <i>Computer Organization & Architecture</i>	K	3	
	**BEEC 1353	Pengaturcaraan Lanjutan <i>Advanced Programming</i>	K	3	BEEC 1313
	BIPW 1132	Falsafah dan Isu-isu Semasa <i>Philosophy and Current Issues</i>	W	2	
	BKKX XXX1	Ko-kurikulum I <i>Co-curriculum I</i>	W	1	
BIPW2132	Penghayatan Etika dan Peradaban (untuk pelajar tempatan) <i>Appreciation of Ethics and Civilisation</i> (for local students)	W	2		
BLLW1172	Bahasa Melayu Komunikasi 1 (untuk pelajar antarabangsa) <i>Malay Language for Communication 1</i> (for international students)				
TOTAL CREDITS THIS SEMESTER					
LOCAL STUDENT				20	
INTERNATIONAL STUDENT				20	
	CODE	SUBJECT	CATEGORY	CREDIT	PRE-REQUISITE
SEMESTER 3	BEEU 2033	Kalkulus Lanjutan untuk Teknologi <i>Advanced Calculus for Technology</i>	P	3	
	BEEC 2363	Struktur Data & Algoritma <i>Data Structure & Algorithm</i>	K	3	
	BEET 2333	Prinsip Komunikasi <i>Communication Principle</i>	K	3	
	BEET 2423	Isyarat & Sistem <i>Signal & Systems</i>	K	3	
	BEEE 2373	Teknologi Elektrik <i>Electrical Technology</i>	K	3	
	BLLW2152	Penulisan Akademik	W	2	

		<i>Academic Writing</i>			
	BKKX XXX1	Ko-kurikulum II <i>Co-curriculum II</i>	W	1	
TOTAL CREDITS THIS SEMESTER				18	
SEMESTER 4	BEEU 2043	Kaedah Statistik <i>Statistical Methods</i>	P	3	
	BEEC 1343	Sistem Pengurusan Pangkalan Data <i>Database Management System</i>	K	3	
	BEEC 2383	Sistem & Rangkaian Komputer <i>Computer Network & System</i>	K	3	
	BEEC 2393	Teknologi Internet & Multimedia <i>Internet Technology & Multimedia</i>	K	3	
	BEEC 2404	Elektronik Digital <i>Digital Electronic</i>	K	4	
	BLLW 12X2	Bahasa Ketiga <i>Third Language</i>	W	2	
	BIPW3112	Pemikiran Kritis dan Kreatif (untuk pelajar tempatan) <i>Critical and Creative Thinking</i> (for local students)	W	2	
BIPW2112	Kebudayaan Malaysia (untuk pelajar antarabangsa) <i>Malaysian Culture</i> (for international students)				
TOTAL CREDITS THIS SEMESTER					
LOCAL STUDENT				20	
INTERNATIONAL STUDENT				20	
	CODE	SUBJECT	CATEGORY	CREDIT	PRE-REQUISITE
SEMESTER 5	BEEC 3453	Sistem Pengoperasian <i>Operating Systems</i>	K	3	
	BEEC 3413	Matematik Diskrit <i>Discrete Mathematics</i>	K	3	
	**BEET 3373	Pemprosesan Isyarat Digital <i>Digital Signal Processing</i>	K	3	BEET 2423
	**BEEC 3433	Rangkaian & Keselamatan Komputer <i>Computer Network & Security</i>	K	3	BEEC 2383
	BEEC 3444	Teknologi Mikropemproses & Mikropengawal <i>Microprocessor & Microcontroller Technology</i>	K	4	
	BLLW3162	Bahasa Inggeris untuk Interaksi Profesional <i>English for Professional Interaction</i>	W	2	
	***BIPW XXX2	Elektif Umum <i>General Elective</i>	E	2	
TOTAL CREDITS THIS SEMESTER				20	
SEMESTER 6	BEEU 3764	Projek Sarjana Muda I <i>Bachelor Degree Project I</i>	K	4	
	BEEC 3463	Kejuruteraan Perisian <i>Software Engineering</i>	K	3	
	BEEC 3423	Kejuruteraan Sistem Komputer <i>Computer System Engineering</i>	K	3	
	BTMW 4012	Keusahawanan Teknologi <i>Technology Entrepreneurship</i>	W	2	
	*BEEC 48X4	Elektif I <i>Elective I</i>	E	4	
	*BEEC 48X4	Elektif II <i>Elective II</i>	E	4	
TOTAL CREDITS THIS SEMESTER				20	

	CODE	SUBJECT	CATEGORY	CREDIT	PRE-REQUISITE
SEMESTER 7	BEEU 4053	Etika Kejuruteraan & KKPP <i>Engineering Ethics & OSHE</i>	P	3	
	**BEEU 4774	Projek Sarjana Muda II <i>Bachelor Degree Project II</i>	K	4	BEEU 3764
	BEEE 4443	Pengurusan Kualiti <i>Quality Management</i>	K	3	
	BEEC 4473	Sistem Terbenam <i>Embedded System</i>	K	3	
	*BEEC 48X4	Elektif III <i>Elective III</i>	E	4	
TOTAL CREDITS THIS SEMESTER				17	
SEMESTER 8	BEEU 4786	Latihan Industri <i>Industrial Training</i>	K	6	
	BEEU 4796	Laporan Latihan Industri <i>Industrial Training Report</i>	K	6	
TOTAL CREDITS THIS SEMESTER				12	
TOTAL REDITS				144	

** Pre-requisite subject

* For Elective I, II & III, students may choose any THREE (3) subjects from the list below:

NO.	CODE	SUBJECT
1	BEEC 4804	Rekabentuk & Fabrikasi VLSI <i>VLSI Design & Fabrication</i>
2	BEEC 4814	Pengantaramukaan Komputer <i>Computer Interfacing</i>
3	BEEC 4824	Pemprosesan Imej & Video <i>Image & Video Processing</i>
4	BEEC 4834	Sistem Masa Nyata <i>Real Time Systems</i>
5	BEEC 4844	Pengujian Litar Bersepadu <i>Integrated Circuit Testing</i>

*** For General elective, students may choose any ONE (1) subject from the list below:

CODE	SUBJECT NAME
BIPW1142	Falsafah Sains Dan Teknologi <i>Philosophy of Science and Technology</i>
BIPW4112	Komunikasi Organisasi <i>Organizational Communication</i>
BIPW1152	Psikologi Industri dan Organisasi <i>Industrial and Organizational Psychology</i>
BIPW4122	Kemahiran Perundingan <i>Negotiation Skills</i>

For Professional Certificate Course:

CODE	CERTIFICATE NAME
BEET 3100	Cisco Certified Network Associate Routing & Switching (Preparation)
BEEC 2210	IoT Fundamentals: Connecting Things Professional Certification
BEEC 2220	IoT Fundamentals: Big Data & Analytics Professional Certification
BEEE 3100	Programmable Logic Controller (PLC) Level 1 and Level 2
BEEZ 3100	SMCT MT1 – Practical Mechatronics 1

Number of credit hours regarding to course category is represented in the table below:

W = University compulsory subjects

P = Program core subjects

K = Course core subjects

E = Elective subjects

Programme P	P	18
Course K	K	82
University Compulsory	W	16
Industrial Training	K	2
Elective	E	12
		144