

**Bachelor of Electrical Engineering Technology (Industrial Power) with Honours (BEEI)**

	CODE	SUBJECT	CATEGORY	CREDIT	PRE-REQUISITE
SEMESTER 1	BEEU 1013	Matematik Teknikal <i>Technical Mathematics</i>	P	3	
	BEEY 1303	Sistem Pengukuran & Instrumentasi <i>Measurement &amp; Instrumentation Systems</i>	K	3	
	BEEA 1313	Rekabentuk Terbantut Komputer <i>Computer Aided Design</i>	K	3	
	BEEA 1304	Elektronik & Sistem Digital <i>Digital Electronics &amp; Systems</i>	K	4	
	BEEI 1303	Pengenalan Litar Elektrik <i>Electrical Circuit Fundamental</i>	K	3	
	BIPW 1132	Falsafah dan Isu Semasa <i>Philosophy and Current Issue</i>	W	2	
	BKKX XXX1	Kokurikulum I <i>Cocurriculum I</i>	W	1	
<b>TOTAL CREDITS THIS SEMESTER</b>				<b>19</b>	
SEMESTER 2	BEEU 1023	Kalkulus untuk Teknologi <i>Calculus for Technology</i>	P	3	
	BEEI 1311	Bengkel Elektrik I <i>Electrical Workshop I</i>	K	1	
	BEEI 1323	Elektrik & Kemagnetan <i>Electrical &amp; Magnetism</i>	K	3	
	**BEEI 1333	Litar Elektrik Lanjutan <i>Advanced Electrical Circuits</i>	K	3	BEEI 1303
	BEEA 1343	Pengaturcaraan Komputer <i>Computer Programming</i>	K	3	
	BEEI 1453	Prinsip Elektronik <i>Electronic Principle</i>	K	3	
	BLLW 1142	Bahasa Inggeris untuk Akademik <i>English for Academic Purposes</i>	W	2	
	BLLW 1172	Bahasa Melayu Komunikasi <b>(untuk pelajar antarabangsa)</b> <i>Malay Language for Communication</i> <b>(for international students)</b>	W	2	
<b>TOTAL CREDITS THIS SEMESTER</b>					
<b>LOCAL STUDENT</b>				<b>18</b>	
<b>INTERNATIONAL STUDENT</b>				<b>20</b>	
	CODE	SUBJECT	CATEGORY	CREDIT	PRE-REQUISITE
SEMESTER 3	BEEU 2033	Kalkulus Lanjutan untuk Teknologi <i>Advanced Calculus for Technology</i>	P	3	
	BEEA 2061	Seminar Kejuruteraan I <i>Engineering Seminar I</i>	P	1	
	**BEEI 2342	Bengkel Elektrik II <i>Electrical Workshop II</i>	K	2	BEEI 1311
	BEEI 2373	Mesin Elektrik <i>Electrical Machines</i>	K	3	
	BEEI 2364	Teknologi Elektrik <i>Electrical Technology</i>	K	4	
	BEEA 2383	Pengenalan Sistem Kawalan <i>Control System Fundamental</i>	K	3	

	BKKX XXX1	Kokurikulum II <i>Cocurriculum II</i>	W	1	
	BLLW 1XX2	Bahasa Ketiga <i>Third Language</i>	W	2	
<b>TOTAL CREDITS THIS SEMESTER</b>				<b>19</b>	
SEMESTER 4	BEEU 2043	Kaedah Statistik <i>Statistical Methods</i>	P	3	
	BEEA 2374	Sistem Terbenam <i>Embedded Systems</i>	K	4	
	BEEI 2463	Termodinamik & Pemindahan Haba <i>Thermodynamic &amp; Heat Transfer</i>	K	3	
	BEEI 2383	Teknologi Sistem Kuasa <i>Power System Technology</i>	K	3	
	BEEI 3413	Elektronik Kuasa <i>Power Electronics</i>	K	3	
	BLLW 2152	Penulisan Akademik <i>Academic Writing</i>	W	2	
<b>TOTAL CREDITS THIS SEMESTER</b>				<b>18</b>	
	CODE	SUBJECT	CATEGORY	CREDIT	PRE-REQUISITE
SEMESTER 5	**BEEI 3393	Sistem Kuasa Lanjutan <i>Advanced Power System</i>	K	3	BEEI 2383
	BEEI 3423	Penggerak & Pemacu <i>Actuators &amp; Drives</i>	K	3	
	BEEA 3414	PLC & Automasi <i>PLC &amp; Automation</i>	K	4	
	BEEI 3474	Sistem Kuasa Penjanaan & Penghantaran <i>Power System Generation &amp; Transmission</i>	K	4	
	BIPW 2132	Penghayatan Etika dan Peradaban <b>(untuk pelajar tempatan)</b> <i>Appreciation of Ethics and Civilisation</i> <b>(for local students)</b>	W	2	
	BIPW 2122	Kebudayaan Malaysia <b>(untuk pelajar antarabangsa)</b> <i>(Malaysian Culture)</i> <b>(for international students)</b>			
	***BPIW XXX2	Elektif Umum <i>General Elective</i>	E	2	
<b>TOTAL CREDITS THIS SEMESTER</b>				<b>18</b>	
SEMESTER 6	BEEI 3061	Seminar Kejuruteraan II <i>Engineering Seminar II</i>	P	1	
	BEEU 4053	Etika Kejuruteraan & KPPP <i>Engineering Ethics &amp; OSHE</i>	P	3	
	BEEU 3764	Projek Sarjana Muda I <i>Bachelor Degree Project I</i>	K	4	
	BEEI 4823	Teknologi Voltan Tinggi <i>High Voltage Technology</i>	K	3	
	BEEI 3403	Sistem Pengagihan Kuasa <i>Power Distribution System</i>	K	3	
	BEEI 4833	Perlindungan Sistem Kuasa <i>Power Systems Protection</i>	K	3	
BLLW 2152	Bahasa Inggeris untuk Interaksi Profesional <i>English for Professional Interaction</i>	W	2		
<b>TOTAL CREDITS THIS SEMESTER</b>				<b>19</b>	

	CODE	SUBJECT	CATEGORY	CREDIT	PRE-REQUISITE
SEMESTER 7	**BEEU 4774	Projek Sarjana Muda II <i>Bachelor Degree Project II</i>	K	4	BEEU 3764
	BIPW 3112	Pemikiran Kritis dan Kreatif <b>(untuk pelajar tempatan)</b> <i>Critical and Creative Thinking</i> <b>(for local students)</b>	W	2	
	BTMW 4012	Keusahawanan Teknologi <i>Technology Entrepreneurship</i>	W	2	
	*BEEEX XXXX	Elektif I <i>Elective I</i>	E	3	
	*BEEEX XXXX	Elektif II <i>Elective II</i>	E	3	
	*BEEEX XXXX	Elektif III <i>Elective III</i>	E	3	
<b>TOTAL CREDITS THIS SEMESTER</b>					
				<b>LOCAL STUDENT</b>	<b>17</b>
				<b>INTERNATIONAL STUDENT</b>	<b>15</b>
SEMESTER 8	BEEU 4786	Latihan Industri <i>Industrial Training</i>	K	6	
	BEEU 4796	Laporan Latihan Industri <i>Industrial Training Report</i>	K	6	
<b>TOTAL CREDITS THIS SEMESTER</b>				<b>12</b>	
<b>TOTAL CREDITS</b>				<b>140</b>	

\*\* Pre-requisite subject

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

NO.	CODE	SUBJECT
1	BEEI 4803	Operasi & Automasi Sistem Kuasa <i>Power Systems Operation &amp; Automation</i>
2	BEEI 4813	Kaedah Penambahbaikan Kualiti <i>Quality Improvement Tools</i>
3	BEEY 3803	Sistem Tenaga Lestari <i>Renewable Energy System</i>
4	BEEI 4863	Kualiti Kuasa <i>Power Quality</i>
5	BEEY 4413	Kecekapan Tenaga <i>Energy Efficiency</i>
6	BEEI 4843	Keserasian Elektromagnet Sistem Kuasa <i>Power Systems Electromagnetic Compatibility</i>
7	BEEA 4813	Kawalan Proses Industri <i>Industrial Process Control</i>
8	BEEI 4853	Ekonomi Sistem dan Pasaran Elektrik <i>Electricity Market and System Economics</i>

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

CODE	SUBJECT NAME
BIPW 1142	Falsafah Sains dan Teknologi <i>Philosophy of Science and Technology</i>
BIPW 4112	Komunikasi Organisasi <i>Organizational Communication</i>
BIPW 1152	Psikologi Industri dan Organisasi <i>Industrial and Organizational Psychology</i>
BIPW 4122	Kemahiran Perundingan <i>Negotiation Skills</i>
BIPW 2142	Sosiologi Industri <i>Industrial Sociology</i>

# For Professional Certificate Course, student may choose any ONE (1) certificate from the list below:

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	17
Course K	K	82
University Compulsory	W	18
Industrial Training	K	12
Elective	E	11
		<b>140</b>