

**Bachelor of Electrical Engineering Technology with Honours (BEEY)**

	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	
	BEEY 1303	Pengukuran dan Sistem Instrumentasi <i>Measurement and Instrumentation System</i>	K	3	
	BEEA 1313	Rekabentuk Terbantu Komputer <i>Computer Aided Design</i>	K	3	
	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>18</b>
SEMESTER 2	BEEU 1023	Kalkulus untuk Teknologi <i>Calculus for Technology</i>	P	3	
	BEEY 1313	Bengkel Elektronik <i>Electronics Workshop</i>	K	3	
	BEEI 1323	Elektrik & Kemagnetan <i>Electrics &amp; Magnetism</i>	K	3	
	BEEY 1323	Elektronik & Sistem Digital <i>Digital Electronics &amp; System</i>	K	3	
	**BEEI 1333	Litar Elektrik Lanjutan <i>Advanced Electrical Circuit</i>	K	3	BEEI 1303
	BKKX XXX1	Kokurikulum II <i>Cocurriculum II</i>	W	1	
	BLLW 1442	Bahasa Inggeris untuk Akademik <i>English for Academic Purposes</i>	W	2	
	BLLW 1172	Bahasa Melayu Komunikasi I <b>(untuk pelajar antarabangsa)</b> <i>Malay Language for Communication I</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	
	BEEY 2333	Pemasangan Elektrik I <i>Electrical Installation I</i>	K	3	
	BEEY 2343	Peranti Elektronik <i>Electronic Devices</i>	K	3	
	BEEY 2353	Teknologi Elektrik <i>Electrical Technology</i>	K	3	
	BEEA 1343	Pengaturcaraan Komputer <i>Computer Programming</i>	K	3	
	BEEY 2361	Kerjaya Teknologi Kejuruteraan Elektrik <i>Electrical Engineering Technology Career</i>	K	1	

	BLLW 1XX2	Bahasa Ketiga <i>Third Language</i>	W	2	
<b>TOTAL CREDITS THIS SEMESTER</b>				<b>18</b>	
SEMESTER 4	BEEU 2043	Kaedah Statistik <i>Statistical Methods</i>	P	3	
	BEEA 2374	Sistem Terbenam <i>Embedded Systems</i>	K	4	
	BEEY 2373	Pemasangan Elektrik II <i>Electrical Installation II</i>	K	3	
	BEEA 2383	Pengenalan Sistem Kawalan <i>Control System Fundamental</i>	K	3	
	BEEA 2353	Elektronik Analog <i>Analog Electronics</i>	K	3	
	BLLW 2152	Penulisan Akademik <i>Academic Writing</i>	W	2	
	***BIPW XXX2	Elektif Umum <i>General Elective</i>	E	2	
	#BEEY 3100	Kursus Persediaan Pensijilan Profesional <i>Professional Certificate Preparation Course</i>			
<b>TOTAL CREDITS THIS SEMESTER</b>				<b>20</b>	
	CODE	SUBJECT	CATEGORY	CREDIT	PRE-REQUISITE
SEMESTER 5	BEEI 2373	Mesin Elektrik <i>Electrical Machines</i>	K	3	
	BEEY 3383	Peranti Elektronik Kuasa <i>Power Electronics Devices</i>	K	3	
	BEEI 2383	Teknologi Sistem Kuasa <i>Power System Technology</i>	K	3	
	BEEU 3803	Rekabentuk Projek Berintegrasi <i>Integrated Design Project</i>	K	3	
	BLHW 2772	Penghayatan Etika dan Peradaban <b>(untuk pelajar tempatan)</b> <i>Appreciation of Ethics and Civilisations</i> <b>(for local students)</b>	W	2	
	BLHW 2752	Kebudayaan Malaysia <b>(untuk pelajar antarabangsa)</b> <i>Malaysian Culture</i> <b>(for international students)</b>			
	*BEEY 38X3	Elektif I <i>Elective I</i>	E	3	
	*BEEY 3823	Elektif II <i>Elective II</i>	E	3	
<b>TOTAL CREDITS THIS SEMESTER</b>					
<b>LOCAL STUDENT</b>				<b>20</b>	
<b>INTERNATIONAL STUDENT</b>				<b>20</b>	
SEMESTER 6	BEEU 3764	Projek Sarjana Muda I <i>Bachelor Degree Project I</i>	K	4	
	BEEY 4393	Sistem Elektronik Kuasa <i>Power Electronics Systems</i>	K	3	
	BEEY 3404	Automasi Industri <i>Industrial Automation</i>	K	4	
	BIPW 3112	Pemikiran Kritis dan Kreatif <b>(untuk pelajar tempatan)</b> <i>Critical and Creative Thinking</i> <b>(for local students)</b>	W	2	

	BLLW 3162	Bahasa Inggeris untuk Interaksi Profesional <i>English for Professional Interaction</i>	W	2	
	*BEEY 38X3	Elektif III <i>Elective III</i>	E	3	
<b>TOTAL CREDITS THIS SEMESTER</b>					
LOCAL STUDENT				18	
INTERNATIONAL STUDENT				16	
	<b>CODE</b>	<b>SUBJECT</b>	<b>CATEGORY</b>	<b>CREDIT</b>	<b>PRE-REQUISITE</b>
SEMESTER 7	BEEU 4053	Etika Kejuruteraan & KKPP <i>Engineering Ethics &amp; OSHE</i>	P	3	
	**BEEU 4774	Projek Sarjana Muda II <i>Bachelor Degree Project II</i>	K	4	BEEU 3764
	BEEY 4413	Kecekapan Tenaga <i>Energy Efficiency</i>	K	3	
	BEEI 3403	Reka Bentuk Sistem Pengagihan Kuasa <i>Power Distribution System Design</i>	K	3	
	BTMW 4012	Keusahawanan Teknologi <i>Technology Entrepreneurship</i>	W	2	
	*BEEY 4XX3	Elektif IV <i>Elective IV</i>	E	3	
<b>TOTAL CREDITS THIS SEMESTER</b>				<b>18</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>142</b>	

\*\* Pre-requisite subject

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

CODE	SUBJECT NAME
BEEY 3803	Sistem Tenaga Diperbaharui <i>Renewable Energy System</i>
BEEY 3813	Pengenalan kepada Sistem Pengangkutan Elektrik <i>Introduction To Electric Transportation System</i>

\* For Elective II, students must choose below subject:

CODE	SUBJECT NAME
BEEY 3823	Teknologi Penyimpanan Tenaga <i>Energy Storage Technology</i>

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

CODE	SUBJECT NAME
BEEY 3833	Polisi Tenaga <i>Energy Policy</i>
BEEY 3843	Rekabentuk Sistem PV <i>PV System Design</i>
BEEY 3853	Aplikasi Elektronik Kuasa <i>Power Electronics Application</i>
BEEY 3863	Pemacu Motor dan Sistem Tarikan <i>Motor Drive and Traction System</i>

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

CODE	SUBJECT NAME
BEEY 4873	Trend Teknologi dalam Industri <i>Technology Trend in Industry</i>
BEEI 4843	Keserasian Elektromagnetik Sistem Kuasa <i>Power System Electromagnetic Compatibility</i>
BEEY 4903	Sistem Pemacu Moden <i>Modern Drive System</i>
BEEY 4913	Kenderaan Elektrik Hibrid <i>Hybrid Electric Vehicle</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>

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

CODE	CERTIFICATE NAME
BEEA 3100	NI Certified LabView Associate Developer (CLAD)
BEEE 3100	Programmable Logic Controller (PLC) Level 1 and Level 2
BEEZ 3100	SMCT MT1 - Practical Mechatronic 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	80
University Compulsory	W	18
Industrial Training	K	12
Elective	E	14
		142