

Bachelor of Electrical Engineering Technology (Industrial Automation & Robotic) with Honours (BEEA)

	CODE	SUBJECT	CATEGORY	CREDIT	PRE-REQUISITE
SEMESTER 1	BEEU 1013	Matematik Teknikal <i>Technical Mathematics</i>	P	3	
	BEEA 1304	Elektronik & Sistem Digital <i>Digital Electronics & Systems</i>	K	4	
	BEEY 1303	Pengukuran dan Instrumentasi <i>Measurement and Instrumentation</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	
	TOTAL CREDITS THIS SEMESTER				19
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 & Magnetism</i>	K	3	
	BEEI 1453	Prinsip Elektronik <i>Electronics Principle</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	
	BLLW 1142	Bahasa Inggeris untuk Akademik <i>English for Academic Purposes</i>	W	2	
	BLLW 1172	Bahasa Melayu Komunikasi (untuk pelajar antarabangsa) <i>Malay Language for Communication</i> (for international students)	W	2	
TOTAL CREDITS THIS SEMESTER					
LOCAL STUDENT				18	
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	
	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
	BEEA 2363	Statik & Mekanik <i>Static & Mechanics</i>	K	3	
	BEEI 2364	Teknologi Elektrik <i>Electrical Technology</i>	K	4	
	BEEI 2373	Mesin Elektrik <i>Electrical Machine</i>	K	3	

	BLLW 1XX2	Bahasa Ketiga <i>Third Language</i>	W	2	
	BKKX XXX1	Kokurikulum II <i>Cocurriculum II</i>	W	1	
TOTAL CREDITS THIS SEMESTER				19	
SEMESTER 4	BEEU 2043	Kaedah Statistik <i>Statistical Methods</i>	P	3	
	BEEA 2374	Sistem Terbenam <i>Embedded Systems</i>	K	4	
	BEEI 3413	Elektronik Kuasa <i>Power Electronics</i>	K	3	
	BMMH 2313	Mekanik Bendalir <i>Fluids Mechanics</i>	K	3	
	BEEA 2383	Pengenalan Sistem Kawalan <i>Control System Fundamental</i>	K	3	
	BLLW 2152	Penulisan Akademik <i>Academic Writing</i>	W	2	
	TOTAL CREDITS THIS SEMESTER				18
	CODE	SUBJECT	CATEGORY	CREDIT	PRE-REQUISITE
SEMESTER 5	BEEI 2383	Teknologi Sistem Kuasa <i>Power System Technology</i>	K	3	
	BEEA 3463	Data Komunikasi Industri <i>Industrial Data Communication</i>	K	3	
	**BEEA 3393	Kejuruteraan Sistem Kawalan <i>Control System Engineering</i>	K	3	BEEA 2383
	BEEA 3464	PLC & Automasi <i>PLC & Automation</i>	K	4	
	BIPW 2132	Penghayatan Etika dan Peradaban (untuk pelajar tempatan) <i>Appreciation of Ethics and Civilisation</i> (for local students)	W	2	
	BIPW 2122	Kebudayaan Malaysia (untuk pelajar antarabangsa) <i>Malaysian Culture</i> (for international students)			
	***BIPW XXX2	Elektif Umum <i>General Elective</i>	E	2	
	TOTAL CREDITS THIS SEMESTER				
LOCAL STUDENT				17	
INTERNATIONAL STUDENT				17	
SEMESTER 6	BEEI 3061	Seminar Kejuruteraan II <i>Engineering Seminar II</i>	P	1	
	BEEU 4053	Etika Kejuruteraan & KKPP <i>Engineering Ethics & OSHE</i>	P	3	
	BEEU 3764	Projek Sarjana Muda I <i>Bachelor Degree Project I</i>	K	4	
	BEEA 3454	Sistem Kawalan Pegerak <i>Motion Control System</i>	K	4	
	BEEA 3443	Pneumatik & Hidraulik <i>Pneumatic & Hydraulic</i>	K	3	
	BEEA 3433	Robotik Industri <i>Industrial Robotics</i>	K	3	

	BLLW 2152	Bahasa Inggeris untuk Interaksi Profesional <i>English for Professional Interaction</i>	W	2	
TOTAL CREDITS THIS SEMESTER				20	
	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 (untuk pelajar tempatan) <i>Critical and Creative Thinking</i> (for local students)	W	2	
	BTMW 4012	Keusahawanan Teknologi <i>Technology Entrepreneurship</i>	W	2	
	*BEEA 48X3	Elektif I <i>Elective I</i>	E	3	
	*BEEA 48X3	Elektif II <i>Elective II</i>	E	3	
	*BEEA 48X3	Elektif II <i>Elective II</i>	E	3	
TOTAL CREDITS THIS SEMESTER					
LOCAL STUDENT				17	
INTERNATIONAL STUDENT				15	
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 CREDITS				140	

** Pre-requisite subject

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

NO.	CODE	SUBJECT
1	BEEA 4803	Sistem Pembuatan Teranjai <i>Flexible Manufacturing System</i>
2	BEEA 4813	Kawalan Proses Industri <i>Industrial Process Control</i>
3	BEEA 4823	Penglihatan Mesin <i>Machine Vision</i>
4	BEEA 4833	Sistem Kawalan Teragih <i>Distributed Control System</i>
5	BEEA 4843	Sistem Pembuatan <i>Manufacturing System</i>
6	BEEA 4853	Sistem Kawalan Lanjutan <i>Advanced Control System</i>
7	BEEA 4863	Kepintaran Buatan <i>Artificial Intelligence</i>
8	BMMM 3523	Teknologi Penyelenggaraan & Pengurusan Aset <i>Maintenance Technology & Asset Management</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 3210	Programmable Logic Controller (PLC) Level 1 and Level 2
BEEE 4210	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
		140