

Bachelor Technology of Electrical Maintenance System with Honours (BELS)

| | CODE | SUBJECT | CATEGORY | CREDIT | PRE-REQUISITE |
|------------------------------------|-----------|---|----------|-----------|---------------|
| SEMESTER 1 | BELS1114 | Electrical System Drafting and Simulation <i>Draf dan Simulasi Elektrik</i> | P | 4 | |
| | BELS1124 | Technical Reporting <i>Pelaporan Teknikal</i> | P | 4 | |
| | BELS1135 | Electrical System Measurement & Testing <i>Pengukuran & Pengujian Sistem Elektrik</i> | P | 5 | |
| | BTMW1112 | Basic Intepreneurship <i>Asas Keusahawanan</i> | W | 2 | |
| | BLLW 1142 | English for Academic Purposes <i>Bahasa Inggeris Untuk Tujuan Akademik</i> | W | 2 | |
| | BLHW1762 | Philosophy and Current Issues <i>Falsafah & Isu Semasa</i> | W | 2 | |
| TOTAL CREDITS THIS SEMESTER | | | | 19 | |
| SEMESTER 2 | BELS1245 | Solar PV Installation and Maintenance <i>Pemasangan dan Penyelenggaraan PV Solar</i> | P | 5 | |
| | BELS1255 | Switchboard Maintenance and Calibration <i>Penyelenggaraan dan Kalibrasi Papan Pensuisan</i> | P | 5 | |
| | BELS1263 | Professional Practices <i>Amalan Profesional</i> | P | 3 | |
| | BLLW2152 | Academic Writing <i>Penulisan Akademik</i> | W | 2 | |
| | BKKXXX1 | Co-Curriculum 1 <i>Ko-kurikulum 1</i> | W | 1 | |
| | BLLW1XX2 | Third Language <i>Bahasa Ketiga</i> | W | 2 | |
| TOTAL CREDITS THIS SEMESTER | | | | 18 | |

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| SEMESTER 3 | BELS2375 | Building Electrical System Maintenance <i>Penyelenggaraan Sistem Elektrik Bangunan</i> | P | 5 | |
| | BELS2385 | Renewable Energy System Maintenance <i>Penyelenggaraan Sistem Tenaga boleh Diperbaharui</i> | P | 5 | |
| | BELS2395 | Generator System Maintenance <i>Penyelenggaraan Sistem Penjana</i> | P | 5 | |
| | BLHW 2772 | Appreciation of Ethics and Civilisations <i>Penghayatan Etika & Peradaban</i> | W | 2 | |
| | BKKXXXX1 | Co-Curriculum 2 <i>Ko-kurikulum 2</i> | W | 1 | |
| TOTAL CREDITS THIS SEMESTER | | | | 18 | |
| SEMESTER 4 | BELS2405 | Electrical Machine & Drive System Integration <i>Integrasi Mesin Elektrik & Sistem Penggerak</i> | P | 5 | |
| | BELS2415 | Energy Efficiency Optimization <i>Pengoptimuman Kecekapan Tenaga</i> | P | 5 | |
| | BELS2423 | Collegiality Interaction and Management <i>Pengurusan & Interaksi Rakan Sejawat</i> | P | 3 | |
| | BTMW2124 | Technopreneur Capstone I <i>Capstone Teknousahawan I</i> | P | 4 | |
| | BLLW3162 | English for Professional Interaction <i>Bahasa Inggeris Untuk Interaksi Profesional</i> | W | 2 | |
| TOTAL CREDITS THIS SEMESTER | | | | 19 | |

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| SEMESTER 5 | BELS3535 | Industrial Machinery Control System Design <i>Rekabentuk Sistem Kawalan Pemesinan Industry</i> | P | 5 | |
| | BELS3545 | Monitoring System Integration <i>Integrasi Sistem Pemantauan</i> | P | 5 | |
| | BELS3554 | Industrial Data Analysis <i>Analisis data Perindustrian</i> | P | 4 | |
| | BTMW3134 | Technopreneur Capstone II <i>Capstone Teknousahawan II</i> | P | 4 | |
| TOTAL CREDITS THIS SEMESTER | | | | 18 | |
| SEMESTER 6 (WBL) | BELS3664 | Maintenance Management System (MMS) <i>Sistem Pengurusan Penyelenggaraan</i> | P | 4 | |
| | BELS3674 | Project Planning and Execution <i>Perancangan Projek dan Pelaksanaan</i> | P | 4 | |
| | BELS3684 | Final Year Project I <i>Projek Tahun Akhir I</i> | P | 4 | |
| TOTAL CREDITS THIS SEMESTER | | | | 12 | |

| | CODE | SUBJECT | CATEGORY | CREDIT | PRE-REQUISITE |
|------------------------------------|-----------|---|----------|------------|----------------|
| SHORT SEMESTER (WBL) | BELS3696 | Final Year Project II <i>Projek Tahun Akhir II</i> | P | 6 | **BELS 3684 |
| TOTAL CREDITS THIS SEMESTER | | | | 6 | |
| SEMESTER 7 (WBL) | BEEU41112 | Industrial Training <i>Latihan Industri</i> | P | 12 | |
| TOTAL CREDITS THIS SEMESTER | | | | 12 | |
| TOTAL CREDITS | | | | 122 | |

** Pre-requisite subject

**** Courses that will be implemented as Work Based Learning (WBL)

Notes:

Definition of WBL:

'Work-based learning is the term being used to describe a class of university programmes that bring together universities and work organizations to create new learning opportunities in workplaces.'

(Source: Guidelines To Good Practices: Workbased Learning (GGP: WBL),MQA)

Besides the aforementioned curriculum, the Programme offers professional certificate subjects as an added value for the students to increase their employability. Students may choose any ONE (1) subject from the following list.

| NO. | CODE | CERTIFICATE NAME |
|-----|-----------|---|
| 1 | BITS 2610 | Cisco Certified Network Associate Routing & Switching (Preparation) |
| 2 | BEEC 2210 | IoT Fundamentals: Connecting Things Professional Certification |
| 3 | BEEC 2220 | IoT Fundamentals: Big Data & Analytics Professional Certification |
| 4 | BEEE 3210 | Programmable Logic Controller (PLC) Level 1 and Level 2 |
| 5 | 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

| | | |
|-----------------------|---|-----|
| University Compulsory | W | 16 |
| Programme | P | 94 |
| Industrial Training | P | 12 |
| | | 122 |