The Faculty of Engineering and Built Environment (FEBE) began as the School of Technology (SOT) which was set up in 1972 to provide programmes which were designed and arranged such that students may sit for internationally recognised professional examinations or seek exemptions from such examinations from Professional Bodies, in particular the Board of Quantity Surveyors Malaysia (BQSM), the Board of Valuers, Appraisers and Estate Agents Malaysia (BoVAEA), Lembaga Arkitek Malaysia (LAM), Royal Institution of Surveyors Malaysia (RISM), Board of Engineers Malaysia (BEM), Institution of Engineers Malaysia (IEM) and the Engineering Council (EC). With the upgrading of Tunku Abdul Rahman College to Tunku Abdul Rahman University College, the School of Technology is now known as the Faculty of Engineering and Built Environment (FEBE). We welcome you to join us in the pursuit of academic excellence leading to great opportunities in your future when you graduate. We are confident that you will find your time with us both enjoyable and beneficial.
**INTAKES**

**January**
- Foundation
- Cambridge GCE A Level

**March**
Selected Bachelor Degree programmes only

**May**
- Bachelor Degree
- Diploma
- Foundation
- Cambridge GCE A Level

**October**
Selected Bachelor Degree/Diploma programmes only

**PROGRAMMES OFFERED**

- **Diploma (2 years)**
  - Diploma in Technology (Building)

- **Bachelor Degree (3 years)**
  - Bachelor of Construction Management and Economics (Honours)

- **Bachelor Degree (4 years)**
  - Bachelor of Quantity Surveying (Honours)

- **Diploma (2.5 years)**
  - Diploma in Technology (Quantity Surveying)

- **Bachelor Degree (4 years)**
  - Bachelor of Quantity Surveying (Honours)

- **Bachelor Degree (3 years)**
  - Bachelor of Construction Management and Economics (Honours)

- **Bachelor Degree (3.5 years)**
  - Bachelor of Estate Management (Honours)

- **Bachelor Degree (4 years)**
  - Bachelor of Engineering (Honours) Electrical and Electronics
  - Bachelor of Engineering (Honours) Electronic (Communication)

- **Bachelor Degree (3 years)**
  - Bachelor of Engineering (Honours) Material
  - Bachelor of Engineering (Honours) Mechanical
  - Bachelor of Engineering (Honours) Mechatronic

- **Bachelor Degree (3 years)**
  - Bachelor of Science in Architecture (Honours)

For more information on Dual Award and fees, please refer to Page 15.

Partner universities for the Dual Award programmes may change from time to time to ensure the best value and quality is offered to students. Students are advised to obtain the latest information on Dual Award partner university for their programme from the relevant faculty.
### Minimum Entry Requirements

#### Bachelor of Science in Architecture (Honours)
- **STPM Qualification:** Full passes in 2 relevant subjects which must include:
  - Mathematics
  - 1 other subject listed in Schedule A
- **A-Level Qualification:** Grade C in 2 relevant subjects which must include:
  - Mathematics
  - 1 other subject listed in Schedule A
- **UEC Qualification:** ATAR 70 and Grade B in 2 relevant subjects which must include one Mathematics subject
- **TARC/TAR UC Qualification:** 6 Grade B which must include:
  - one Mathematics
  - 5 other subjects listed in Schedule A

<table>
<thead>
<tr>
<th>STPM</th>
<th>A-Level</th>
<th>CPU</th>
<th>UEC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Credit/O Level</td>
<td>Grade C</td>
<td>Grade B</td>
<td>Grade C in English Language **</td>
</tr>
<tr>
<td>Pass in STPM</td>
<td>Pendidikan Seni Visual/Lukisan Kejuruteraan OR Portfolio Test conducted by TAR UC</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Bachelor of Construction Management and Economics (Honours)
- **STPM Qualification:** Full passes in 2 relevant subjects listed in Schedule A and credit in SPM Mathematics
- **A-Level Qualification:** Grade C in 2 relevant subjects which must include:
  - Mathematics
  - 1 other subject listed in Schedule A
- **UEC Qualification:** ATAR 70 which must include Grade B in one Mathematics subject
- **TARC/TAR UC Qualification:** 5 Grade B which must include:
  - Mathematics
  - Advanced Mathematics
  - Advanced Mathematics (I or II)
  - 4 other subjects listed in Schedule A

<table>
<thead>
<tr>
<th>STPM</th>
<th>A-Level</th>
<th>CPU</th>
<th>UEC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pass/O Level</td>
<td>Grade E</td>
<td>Grade C in English Language **</td>
<td></td>
</tr>
</tbody>
</table>

#### Bachelor of Estate Management (Honours)
- **STPM Qualification:** Full passes in 2 relevant subjects listed in Schedule A
- **A-Level Qualification:** Pass in 2 relevant subjects listed in Schedule A
- **UEC Qualification:** ATAR 70 which must include Grade B in 2 relevant subjects
- **TARC/TAR UC Qualification:** Grade B in 6 relevant subjects listed in Schedule A

<table>
<thead>
<tr>
<th>STPM</th>
<th>A-Level</th>
<th>CPU</th>
<th>UEC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Credit/O Level</td>
<td>Grade C in Mathematics</td>
<td>Grade B in one Mathematics subject</td>
<td></td>
</tr>
<tr>
<td>Pass/O Level</td>
<td>Grade E</td>
<td>Grade C in English Language **</td>
<td></td>
</tr>
</tbody>
</table>

### Schedule A

#### STPM Qualification
- Geografi, Ekonomi, Perakaunan, Mathematics (M), Mathematics (T), Further Mathematics, Physics, Chemistry, Biology, Information and Communications Technology (ICT), Pengajian Perniagaan, Pengajian Am, Bahasa Melayu, Sejarah and any other relevant technical subjects.

#### A-Level Qualification
- Applied Information and Communication Technology, Computer Science, Law, Sociology, Geography, Economics, Accounting, Mathematics, Mathematics-Further, Physics, Chemistry, Biology, Computing, Business Studies and any other relevant technical subjects.

#### UEC Qualification
- Malay Language, English Language, Chinese Language, History, Geography, Economics, Accounting, Mathematics, Advanced Mathematics, Advanced Mathematics (I), Advanced Mathematics (II), Physics, Chemistry, Biology, Computing and Information Technology, Business Studies, Bookkeeping and Accounts and any other relevant technical subjects.

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**Note:**
- a) The entry requirements must be taken from only ONE (1) examination sitting.
- b) Students without a credit in SPM Bahasa Malaysia are required to pass Bahasa Kebangsaan A before the award of Bachelor Degree.
- c) TARC/TAR UC Diploma will be accepted on credit transfer into Bachelor Degree programmes.
- d) Equivalent qualifications other than the above will be considered on a case-by-case basis.
- e) Information is correct at the point of printing. Subject to the Ministry of Education latest requirements.
### Minimum Entry Requirements

<table>
<thead>
<tr>
<th>Bachelor Degree</th>
<th>STPM Qualification</th>
<th>A Level Qualification</th>
<th>Entry Qualification</th>
<th>UEC Qualification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor of Quantity Surveying (Honours)</td>
<td>Full Passes in 3 relevant subjects listed in Schedule A</td>
<td>Pass in 3 relevant subjects listed in Schedule A</td>
<td>ATAR 70 and Grade B in 2 relevant subjects which must include one Mathematics subject</td>
<td>6 Grade B which must include: – either Malay Language or English Language, with minimum Grade C in the other subject – 5 other subjects listed in Schedule A</td>
</tr>
<tr>
<td>Bachelor of Engineering (Honours) Electrical and Electronics</td>
<td>Full Pass in Physics and one Mathematics subject</td>
<td>Pass in Physics and Mathematics</td>
<td>ATAR 70 and minimum Grade B in Physics and one Mathematics subject</td>
<td>5 Grade B in the relevant subjects which must include Physics and one Mathematics subject</td>
</tr>
<tr>
<td>Bachelor of Engineering (Honours) Electronic (Communication)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bachelor of Engineering (Honours) Mechanical</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bachelor of Engineering (Honours) Mechatronic</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bachelor of Engineering (Honours) Material</td>
<td>Full Pass in Physics/Chemistry and one Mathematics subject</td>
<td>Pass in Physics/Chemistry and Mathematics</td>
<td>ATAR 70 and minimum Grade B in Physics/Chemistry and one Mathematics subject</td>
<td>5 Grade B in the relevant subjects which must include Physics/Chemistry and one Mathematics subject</td>
</tr>
<tr>
<td>Bachelor of Science (Honours) Computer Sciences</td>
<td>Full Pass in Mathematics</td>
<td>Pass in Mathematics</td>
<td>ATAR 70 and minimum Grade B in Mathematics</td>
<td>5 Grade B in the relevant subjects which must include Physics/Chemistry and one Mathematics subject</td>
</tr>
<tr>
<td>Bachelor of Science (Honours) Electrical Engineering</td>
<td>Full Pass in Physics</td>
<td>Pass in Physics</td>
<td>ATAR 70 and minimum Grade B in Physics</td>
<td>5 Grade B in the relevant subjects which must include Physics/Chemistry and one Mathematics subject</td>
</tr>
<tr>
<td>Bachelor of Science (Honours) Mechanical Engineering</td>
<td>Full Pass in Mathematics</td>
<td>Pass in Mathematics</td>
<td>ATAR 70 and minimum Grade B in Mathematics</td>
<td>5 Grade B in the relevant subjects which must include Physics/Chemistry and one Mathematics subject</td>
</tr>
<tr>
<td>Bachelor of Science (Honours) Materials Engineering</td>
<td>Full Pass in Physics/Chemistry and one Mathematics subject</td>
<td>Pass in Physics/Chemistry and Mathematics</td>
<td>ATAR 70 and minimum Grade B in Physics/Chemistry and one Mathematics subject</td>
<td>5 Grade B in the relevant subjects which must include Physics/Chemistry and one Mathematics subject</td>
</tr>
</tbody>
</table>

**SCHEDULE A**

<table>
<thead>
<tr>
<th>STPM Qualification</th>
<th>A Level Qualification</th>
<th>UEC Qualification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Geografi, Ekonomi, Perakaunan, Mathematics (M), Mathematics (T), Further Mathematics, Physics, Chemistry, Biology, Information and Communications Technology (ICT), Pengajian Perniagaan, Pengajian Am, Bahasa Melayu, Sejarah and any other relevant technical subjects.</td>
<td>Applied Information and Communication Technology, Computer Science, Law, Psychology, Sociology, Geography, Economics, Accounting, Mathematics, Mathematics-Further, Physics, Chemistry, Biology, Computing, Business Studies and any other relevant technical subjects.</td>
<td>Malay Language, English Language, Chinese Language, History, Geography, Economics, Accounting, Mathematics, Advanced Mathematics, Advanced Mathematics (I), Advanced Mathematics (II), Physics, Chemistry, Biology, Computing and Information Technology, Business Studies, Bookkeeping and Accounts and any other relevant technical subjects.</td>
</tr>
</tbody>
</table>

Note:
- a) The entry requirements must be taken from only ONE (1) examination sitting.
- b) Students without a credit in SPM Bahasa Malaysia are required to pass Bahasa Kebangsaan A before the award of Bachelor Degree.
- c) TARC/TAR UC Diploma will be accepted on credit transfer into Bachelor Degree programmes.
- d) Equivalent qualifications other than the above will be considered on a case-by-case basis.
- e) Information is correct at the point of printing. Subject to the Ministry of Education latest requirements.
**Grade C and above in AELE0364 English Language (1119 Level) conducted by TAR UC is accepted as having fulfilled the English Language requirement for applicants who fail English Language at SPM/O Level/UEC level.**

### Minimum Entry Requirements

<table>
<thead>
<tr>
<th>DIPLOMA</th>
<th>SPM</th>
<th>ENTRY QUALIFICATION</th>
<th>TARC/TAR UC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diploma in Architecture</td>
<td>5 credits in the relevant subjects</td>
<td>5 Grade C in the relevant subjects</td>
<td>3 Grade B in the relevant subjects</td>
</tr>
<tr>
<td><strong>Compulsory subjects:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(i) SPM Credit/O Level Grade C in Mathematics/UEC Grade B in one Mathematics subject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(ii) SPM Credit/O Level Grade C in English Language</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(iii) Pass in SPM Pendidikan Seni Visual/Lukisan Kejuruteraan OR Portfolio Test conducted by TAR UC</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diploma in Technology (Building)</td>
<td>5 credits in the relevant subjects</td>
<td>5 Grade C in the relevant subjects</td>
<td>3 Grade B in the relevant subjects</td>
</tr>
<tr>
<td><strong>Compulsory subjects:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(i) SPM Credit/O Level Grade C in Mathematics/UEC Grade B in one Mathematics subject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(ii) SPM Pass/O Level Grade E/UEC Grade C in English Language**</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diploma in Technology (Property Management)</td>
<td>5 credits in the relevant subjects</td>
<td>5 Grade C in the relevant subjects</td>
<td>3 Grade B in the relevant subjects</td>
</tr>
<tr>
<td><strong>Compulsory subjects:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(i) SPM Credit/O Level Grade C in Mathematics/UEC Grade B in one Mathematics subject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(ii) SPM Pass/O Level Grade E/UEC Grade C in English Language**</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diploma in Technology (Quantity Surveying)</td>
<td>5 credits in the relevant subjects</td>
<td>5 Grade C in the relevant subjects</td>
<td>3 Grade B in the relevant subjects</td>
</tr>
<tr>
<td><strong>Compulsory subjects:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(i) SPM Credit/O Level Grade C in Mathematics/UEC Grade B in one Mathematics subject</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(ii) SPM Credit in either Bahasa Malaysia OR English Language, with minimum pass in the other subject OR O Level Grade C in English Language OR UEC Grade B in either Malay Language OR English Language, with minimum Grade C in the other subject</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Note:**

- a) SPM holders must have at least a pass in Bahasa Malaysia and SPM holders from Year 2013 onwards must have at least a pass in Sejarah.
- b) The entry requirement must be taken from only ONE examination sitting.
- c) Students without a credit in SPM Bahasa Malaysia are required to pass Bahasa Kebangsaan A before the award of Diploma.
- d) Equivalent qualifications other than the above will be considered on a case-by-case basis.
- e) Information is correct at the point of printing. Subject to the Ministry of Education latest requirements.
## Minimum Entry Requirements

### Diploma in Technology (Electronic Engineering)
- **SPM**: 5 credits in the relevant subjects
- **O Level**: 5 Grade C in the relevant subjects
- **UEC**: 3 Grade B in the relevant subjects
- **Compulsory subjects**:
  i) SPM Credit/O Level Grade C in Mathematics/UEC Grade B in Advanced Mathematics (I)
  ii) SPM Credit in either Additional Mathematics OR Physics, with minimum pass in the other subject OR O Level Grade C in either Mathematics-Additional OR Physics, with minimum Grade E in the other subject OR UEC Grade B in either Advanced Mathematics (II) OR Physics, with minimum Grade C in the other subject
  iii) SPM Credit/O Level Grade C/UEC Grade B in one subject listed in Schedule B
  iv) SPM Pass/O Level Grade E/UEC Grade C in English Language

### Diploma in Technology (Mechanical and Manufacturing Engineering)
- **SPM**: 5 credits in the relevant subjects
- **O Level**: 5 Grade C in the relevant subjects
- **UEC**: 3 Grade B in the relevant subjects
- **Compulsory subjects**:
  i) SPM Credit/O Level Grade C in Mathematics/UEC Grade B in Advanced Mathematics (I)
  ii) SPM Credit in either Additional Mathematics OR Physics, with minimum pass in the other subject OR O Level Grade C in either Mathematics-Additional OR Physics, with minimum Grade E in the other subject OR UEC Grade B in either Advanced Mathematics (II) OR Physics, with minimum Grade C in the other subject
  iii) SPM Credit/O Level Grade C/UEC Grade B in one subject listed in Schedule B
  iv) SPM Pass/O Level Grade E/UEC Grade C in English Language

### Diploma in Technology (Mechatronics)
- **SPM**: 5 credits in the relevant subjects
- **O Level**: 5 Grade C in the relevant subjects
- **UEC**: 3 Grade B in the relevant subjects
- **Compulsory subjects**:
  i) SPM Credit/O Level Grade C in Mathematics/UEC Grade B in Advanced Mathematics (I)
  ii) SPM Credit in either Additional Mathematics OR Physics, with minimum pass in the other subject OR O Level Grade C in either Mathematics-Additional OR Physics, with minimum Grade E in the other subject OR UEC Grade B in either Advanced Mathematics (II) OR Physics, with minimum Grade C in the other subject
  iii) SPM Credit/O Level Grade C/UEC Grade B in one subject listed in Schedule B
  iv) SPM Pass/O Level Grade E/UEC Grade C in English Language

### Schedule B

<table>
<thead>
<tr>
<th>SPM Qualification</th>
<th>O Level Qualification</th>
<th>UEC Qualification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physics, Additional Mathematics, Chemistry, Biology, Lukisan Kejuruteraan, Teknologi Kejuruteraan, Pengajian Kejuruteraan Mekanikal, Pengajian Kejuruteraan Elektrik dan Elektronik, Information &amp; Communication Technology and any other relevant technical subjects.</td>
<td>Physics, Chemistry, Biology, Mathematics – Additional, Computer Science, Computer Studies, Design and Technology, Information and Communication Technology and any other relevant technical subjects.</td>
<td>Physics, Chemistry, Biology, Advanced Mathematics (II) and any other relevant technical subjects.</td>
</tr>
</tbody>
</table>

**Note:**

a) SPM holders must have at least a pass in Bahasa Malaysia and SPM holders from Year 2013 onwards must have at least a pass in Sejarah.
b) The entry requirement must be taken from only ONE (1) examination sitting.
c) Students without a credit in SPM Bahasa Malaysia are required to pass Bahasa Kebangsaan A before the award of Diploma.
d) Equivalent qualifications other than the above will be considered on a case-by-case basis.
e) Information is correct at the point of printing. Subject to the Ministry of Education latest requirements.
Bachelor of Science in Architecture (Honours) 3 years

PROGRAMME OVERVIEW

Architecture is a social art as well as an artful science which involves erecting buildings, structures and outdoor spaces to allow the man-made components to fit in harmony with the environment while promoting health and well-being. An architect’s design could extend from simple individual houses, work places to communal and urban living spaces of the society. This programme aims to equip students with sound knowledge and skills in architectural design processes and technological aspects such as services integration in their design projects; application of building by-laws together with sustainability issues into designed buildings. It also includes study of architectural history and cultural practices which will enhance their awareness and sensitivities needed for holistic architectural education.

CAREER PROSPECTS

Upon completion of the programme, the Part I graduates can be employed as assistant architects, both for design activities and as executive and/or managerial level personnel in architectural practices which include, but not limited to, production of conceptual and detail designs, construction drawings, contract administration as well as project implementation in the construction industry. They will be able to assist professional architects to run their consulting firms. This Part I degree will provide an effective pathway for further studies in architecture leading to a Part II professional degree in architecture which will enable them to be professional architects with their own consulting firms upon the passing of the Part III Professional Examinations after a minimum of two years working experience with a registered architect’s firm.

PROGRAMME OUTLINE (TOTAL CREDITS: 120)

- Design Studios
- Architectural Graphic Techniques
- Design Theory
- History of Eastern Architecture
- History of Western Architecture
- History of Modern Architecture
- CADD
- Digital Modelling
- Environmental Science & Building Services
- Mechanical & Electrical Services
- Structural Studies
- Principles of Construction & Materials
- Construction Technology & Materials
- Special Construction Technology
- Building By-Laws
- Building Analysis
- Principles of Architectural Practice
- Design Project Dissertation
- Industrial Training
- Planning Studies

LANGUAGE, MATA PELAJARAN PENGAJIAN UMUM (MPU) AND CO-CURRICULAR COURSES:

- English Language
- English for Communication
- English for the Profession
- Tamadun Islam
- Hubungan Etnik
- Bahasa Kebangsaan A
- Entrepreneurship
- Moral dan Etika/Contemporary Malaysian Issues

Bachelor of Construction Management and Economics (Honours) 3 years

PROGRAMME OVERVIEW

This is a multi-discipline programme designed to provide essential academic base in the discipline of construction management, construction economics and property development needed in the construction industry. This programme focuses on planning, co-ordination and control of the construction project from inception till completion stage; managing financial issues of the project; managing the production of design, tender, contract and construction drawing including tender and contract documents; managing the selection of appropriate procurement system, contractual arrangement and tendering method which satisfies the client’s needs in term of time, cost, quality and legal aspects; and managing the contractual issues. Students will be exposed to International Construction, Value Management, Project Management as well as Risk Management.

CAREER PROSPECTS

Graduates can be employed as executive and/or managerial levels personnel in managing the real property development projects from inception to post construction stages in construction and/or property development firms.

PROGRAMME OUTLINE (TOTAL CREDITS: 131)

- Principles of Management
- Accounting & Financial Management
- Project Planning, Programming & Production
- Management of Building Production
- Site Management
- Construction Health and Safety Management
- IT & CAD
- Software Application for Built Environment
- Project Management
- Principles of Economics
- Construction Economics
- Advanced Construction Economics
- Building Construction Technology
- Construction Materials
- Civil Engineering Construction Technology
- Structural Studies
- Site Surveying
- Price Analysis for Construction Works
- Measurement & Contract Documentation
- Environmental Science & Building Services
- Mechanical & Electrical Services
- Principles of Law
- Land Development Law
- Building By-Laws, Acts & Contracts
- Procurement Strategy
- Contract Administration
- Integrated Projects
- Research Methodology
- Project & Dissertation
- Industrial Training

LANGUAGE, MATA PELAJARAN PENGAJIAN UMUM (MPU) AND CO-CURRICULAR COURSES:

- English Language
- English for Communication
- English for the Profession
- Tamadun Islam
- Hubungan Etnik
- Bahasa Kebangsaan A
- Entrepreneurship
- Moral dan Etika/Contemporary Malaysian Issues
Bachelor of Estate Management (Honours) 3.5 years

PROGRAMME OVERVIEW
This programme equips students for careers in property valuation, property management, property development, investment and finance. The programme focuses in core competencies required on property valuation in wide ranges of property and purposes inclusive of traditional, statutory, investment, plant and machinery, special properties and development appraisal. Students will be trained in property and estate management areas such as development, land purchase, facilities management, support service, managing and maintaining residential, commercial and industrial property. This programme also emphasises on financial, development and investment practices such as investment analysis, viability study, market study, purchase and portfolio management of investment property and the financing of real estate projects.

CAREER PROSPECTS
Graduates can be employed as executive and/or managerial level personnel in property management, valuation and estate agency practices, which include, but not limited to valuation, feasibility study, property market research, development, marketing and management.

PROGRAMME OUTLINE (TOTAL CREDITS: 137)
- Introduction to Valuation
- Investment Valuation
- Valuation of Special Properties
- Statutory Valuation
- Advanced Valuation Techniques
- Professional Practice
- Principles of Management
- Facilities Management
- Property Management
- Property Market Research & Marketing
- Real Property Finance & Investment Analysis
- Accounting & Financial Management
- Building Maintenance Management
- Building Construction Technology
- Principles of Economics
- Land Economics
- Principles of Law
- Property Law
- Building By-Laws
- Law of Property Taxation
- Land Acquisition
- IT & CAD
- GIS in Property Management
- Site Surveying
- Environmental Science & Building Services
- Mechanical & Electrical Services
- Town & Country Planning
- Property Development Economics
- Integrated Projects
- Research Methodology
- Project & Dissertation
- Industrial Training

PROGRAMME OUTLINE (TOTAL CREDITS: 136)
- Measurement of Substructure Works
- Measurement of Superstructure Works
- Measurement of Architecture Works
- Measurement of Plumbing & Electrical Works
- Measurement of Civil Engineering Works
- Measurement of External Works
- Construction Materials
- Building Construction Technology
- Civil Engineering Construction Technology
- Principles of Economics
- Building Economics
- Development Economics
- Professional Practice
- Principles of Law
- Land Development Law
- Building By-Laws, Acts & Contracts
- Construction Law
- Structural Studies
- Principles of Management
- Project Management
- Prices Analysis for Building Works
- Prices Analysis for External & Plumbing Works
- IT & CAD
- Site Surveying
- Mechanical & Electrical Services
- Research Methodology
- Environmental Science & Building Services
- Software Application for Built Environment
- Accounting & Financial Management
- Integrated Projects
- Project & Dissertation
- Industrial Training

LANGUAGE, MATA PELAJARAN PENGAJIAN UMUM (MPU) AND CO-CURRICULAR COURSES:
English Language, English for Communication, English for the Profession, Taradun Islam dan Asia, Hubungan Etnik, Bahasa Kebangsaan A, Entrepreneurship, Moral dan Etika/Contemporary Malaysian Issues, Co-curricular

Bachelor of Quantity Surveying (Honours) 4 years

PROGRAMME OVERVIEW
This programme equips students with essential knowledge and skills in quantity surveying practices such as preparing project feasibility study handling financial issues of the project; preparing tender and contract documents including measurement of construction works and pricing; evaluation and selection of appropriate procurement system, contractual arrangement and tendering method which satisfies the client’s needs in term of time, cost, quality and legal aspects; and advising the contractual issues based on general contract principles of Building Contract as well as general legal principles of Contract Law, Sale of Goods Act and Law of Tort.

CAREER PROSPECTS
Graduates can be employed as executive and/or administrative level personnel in quantity surveying practices which include, but not limited to, take-off quantities, estimating, tendering, purchasing, cost control, and contract administration as well as project implementation in the construction industry.

PROGRAMME OUTLINE (TOTAL CREDITS: 136)
- Measurement of Substructure Works
- Measurement of Superstructure Works
- Measurement of Architecture Works
- Measurement of Plumbing & Electrical Works
- Measurement of Civil Engineering Works
- Measurement of External Works
- Construction Materials
- Building Construction Technology
- Civil Engineering Construction Technology
- Principles of Economics
- Building Economics
- Development Economics
- Professional Practice
- Principles of Law
- Land Development Law
- Building By-Laws, Acts & Contracts
- Construction Law
- Structural Studies
- Principles of Management
- Project Management
- Prices Analysis for Building Works
- Prices Analysis for External & Plumbing Works
- IT & CAD
- Site Surveying
- Mechanical & Electrical Services
- Research Methodology
- Environmental Science & Building Services
- Software Application for Built Environment
- Accounting & Financial Management
- Integrated Projects
- Project & Dissertation
- Industrial Training

LANGUAGE, MATA PELAJARAN PENGAJIAN UMUM (MPU) AND CO-CURRICULAR COURSES:
English Language, English for Communication, English for the Profession, Taradun Islam dan Asia, Hubungan Etnik, Bahasa Kebangsaan A, Entrepreneurship, Moral dan Etika/Contemporary Malaysian Issues, Co-curricular
Bachelor of Engineering (Honours) Electrical and Electronics
4 years

PROGRAMME OVERVIEW
Electrical and Electronic Engineering shows you how a touch screen responds to your fingers, how your GPS knows exactly where you are and how electricity arrives at your doorstep with a flick of a switch from a power plant hundreds of kilometers away. Electrical and Electronic devices are everywhere, rapidly changing the way we live our lives. It is the leading sector in Malaysia’s industry. The programme will prepare you to be a competent engineer well equipped to meet the challenges of a very fast moving industry. Emphasis of the programme is on sustainable development, commercialisation of a wide range of electrical & electronic products and services. This includes consumer electronics, intelligent control systems, electrical energy, power systems and electrical machines.

CAREER PROSPECTS
Graduates will find career opportunities in a wide range of sectors, including aerospace, communications, instrumentation & control, IT & computing, consumer & industrial electronics/microelectronics, electrical & power generation machinery & equipment, manufacturing, transport networks, power generation, transmission & distribution, public utilities, building services, scientific, medical and educational institutions, amongst others.

Job scopes may include developing solutions to problems using new or existing technologies, product design, research & development, test & verification, inspection and maintenance, marketing, sales & service, management/supervision of engineering projects & operations, systems installation & testing, ensuring projects meet electrical safety regulations and consultancy, amongst others.

PROGRAMME OUTLINE (TOTAL CREDITS: 143)

• Engineering Mathematics
• Probability & Statistics
• Engineering Drawing & CADD
• Digital & Analogue Electronics
• Digital & Analogue Systems Design
• Microprocessor Systems
• Communication Systems & Networks
• Circuits Analysis
• Signals & Systems
• Discrete Time Signal Processing
• Instrumentation & Measurement
• Control Systems Engineering
• Artificial Intelligence
• Electromagnetics
• Electrical Technology, Power Systems & Machines
• Power Electronics & Drives
• Power System Analysis
• High Voltage Engineering
• Power Transmission & Distribution
• Electrical Energy Utilization
• Exergy & Renewable Energy
• Computer Architecture
• Embedded Systems
• Microelectronics & Integrated Circuit Technology
• Multimedia Technology & Applications
• Engineer & Society
• Engineering Management
• Project & Dissertation
• Industrial Training
• Capstone Project

LANGUAGE, MATA PELAJARAN PENGAJIAN UMUM (MPU) AND CO-CURRICULAR COURSES:

English Language, English for Communication, English for the Profession, Tamadun Islam dan Asia, Hubungan Etnik, Bahasa Kebangsaan A, Entrepreneurship, Moral dan Etika/Contemporary Malaysian Issues, Co-curricular

Bachelor of Engineering (Honours) Electronic (Communication)
4 years

PROGRAMME OVERVIEW
Electronic communication is a rapidly developing field as a result of modern time's reliance on the Internet, mobile phones, broadband, and wireless network. The communications engineering programme aims to develop engineers who will work at the cutting edge of the communications industry with emphasis on technologies for mobile and broadband communication. The Bachelor of Engineering (Honours) Electronic (Communication) programme develops engineers who design, implement, and manage transmission systems for a wide range of telecommunications applications such as networking security, signal processing, high frequency circuits, mobile communication, web technologies, wireless and satellite communication systems.

CAREER PROSPECTS
Graduates will find career opportunities in a wide range of sectors, including communications, media & entertainment, aerospace, power, instrumentation & control, software engineering/IT computing, consumer & industrial electronics/microelectronics, hardware manufacturing, public utilities, scientific, medical and educational institutions, amongst others.

Job scopes may include developing solutions to problems using new or existing technologies, mobile radio network engineering, RF test/product engineering, radio technology development, application & product design, research & development, test & verification, inspection and maintenance, marketing, sales & service, management/supervision of engineering projects & operations, setting up networks & equipment, systems installation & testing, and project consultancy, amongst others.

PROGRAMME OUTLINE (TOTAL CREDITS: 140)

• Engineering Mathematics
• Programming for Engineers
• Engineering Drawing & CADD
• Digital & Analogue Electronics
• Digital & Analogue Communication Systems Design
• Microprocessor Systems
• Circuits Analysis
• Signals & Systems
• Discrete Time Signal Processing
• Instrumentation & Measurement
• Data & Multimedia Network
• Applied Electromagnetics
• Microwave Engineering
• High Frequency Circuit Design
• Wireless Communication & Standards
• Information Theory & Error Coding
• Mobile & Satellite Systems
• Embedded Systems
• Microelectronics & Integrated Circuit Technology
• Multimedia Technology & Applications
• Opto-Electronics
• Fibre Optics
• Antenna Design
• Engineer & Society
• Engineering Management
• Project & Dissertation
• Industrial Training
• Capstone Project

LANGUAGE, MATA PELAJARAN PENGAJIAN UMUM (MPU) AND CO-CURRICULAR COURSES:

English Language, English for Communication, English for the Profession, Tamadun Islam dan Asia, Hubungan Etnik, Bahasa Kebangsaan A, Entrepreneurship, Moral dan Etika/Contemporary Malaysian Issues, Co-curricular
PROGRAMME OVERVIEW
An in-depth understanding on the nature of materials will make you a better engineer and designer because materials are considered as the heart of all branches of engineering. Nearly everything we use is made of materials and essentially every technology depends on breakthroughs in materials science and engineering, for instance, the development of semiconducting polymers is one of the contributing factors that has led to the production of light emitting diodes (LEDs). Any engineer can search for materials properties from a database or book, but ability to innovate and to incorporate materials safely in design required in-depth understanding on the materials structures, properties and processing techniques. This programme is specially designed to meet the vast demand of industries. Graduates are also equipped with the knowledge on manufacturing & management which are essential for their future employment.

CAREER PROSPECTS
There are excellent career opportunities for Materials Engineering graduates in many fields. Graduates are employed in a wide range of industries such as iron & steels, petrochemicals, electronics, ceramics, polymers and composites as Metallurgical Engineers, Field/Technical Service Engineers, Plant Engineers, R & D Engineers, Materials Engineers, Corrosion Engineers, QA/QC Engineers and Sales & Service Engineers.

PROGRAMME OUTLINE (TOTAL CREDITS: 142)

- Engineering Mathematics
- Materials Science & Engineering
- Workshop, Manufacturing Processes & Technology
- Engineering Drawing & CADD
- Materials Testing & Evaluation
- Quality & Production Control
- Polymeric Materials
- Chemistry & Thermodynamics of Materials
- Strength of Materials
- Mechanics of Fluids
- Physical & Welding Metallurgy
- Composites & Ceramic Materials
- Corrosion Control & Protection
- Control Systems Engineering
- Foundry Engineering
- Surface Engineering
- Electronic, Nano, Magnetic, Optical & Bio Materials
- Quality & Reliability Engineering
- Materials Application & Selection
- Manufacturing Management & System Design
- Engineering Metals & Alloys
- Engineer & Society
- Environmental Impact on Materials
- Engineering Management
- Project & Dissertation
- Capstone Project
- Industrial Training

PROGRAMME OVERVIEW
Mechanical engineers design and develop everything you think of as a machine from supersonic fighter jets to bicycles to toasters. Many of them specialise in areas such as manufacturing, robotics, automotive/transportation and air conditioning. Graduates will be able to analyse their design using the principles of motion, energy, and force to insure the product functions safely, efficiently, reliably and can be manufactured at a competitive cost.

CAREER PROSPECTS

- Mechanical Engineers
- Design & Development Engineers
- Process/Manufacturing Engineers/Production Engineers
- Equipment/Facilities Engineers
- Service/Technical Support/Field Application Engineers
- Quality Assurance Engineers/Sales Engineers

PROGRAMME OUTLINE (TOTAL CREDITS: 143)

- Engineering Mathematics
- Engineering Mechanics
- Manufacturing Processes & Production Systems
- Engineering Drawing & CADD
- Programming for Engineers
- Engineering Materials
- Thermodynamics/Heat Transfer & Fluid Mechanics
- Engineering Design
- Electric Circuits & Electrical Machines
- Strength of Materials/Mechanics of Solids
- CNC Technology, Industrial Control & Automation
- Control Systems Engineering
- Product Design & Development/Project Management/Engineering Economics
- Computer- Aided Engineering/Finite Element Analysis
- Dynamics of Mechanical Systems/Vibration & Acoustics
- Manufacturing Management & System Design
- Quality & Reliability Engineering
- Computational Fluid Dynamics
- Mechanical Instrumentation & Measurement
- Digital Electronics & Microprocessors
- Exergy & Renewable Energy
- Engineer & Society/Communication for Engineers
- Engineering Management
- Project & Dissertation
- Industrial Training
- Capstone Project

LANGUAGE, MATA PELAJARAN PENGAJIAN UMUM (MPU) AND CO-CURRICULAR COURSES:


Programmes Offered

Bachelor of Engineering (Honours) Mechatronics 4 years

PROGRAMME OVERVIEW
Mechatronics combines mechanical, electronics and software engineering in the design, development and control of diverse systems used in a range of industries including manufacturing, medicine and the service industries. Examples of mechatronics systems include aircraft, dishwashers, motor vehicles, automated manufacturing plants, robots of all types, and many others. Graduates are therefore involved in almost every possible industry at levels from applications development to manufacturing to advanced research.

CAREER PROSPECTS
- Mechatronics Engineers
- Design & Development Engineers
- Service/Technical Support/Field Application Engineers
- Quality Assurance Engineers
- Instrumentation & Control Engineers
- Automation & System Integration Engineers
- Sales Engineers

PROGRAMME OUTLINE (TOTAL CREDITS: 142)

<table>
<thead>
<tr>
<th>Subjects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering Mathematics</td>
</tr>
<tr>
<td>Engineering Mechanics/Theory of Machines</td>
</tr>
<tr>
<td>Engineering Drawing &amp; CADD</td>
</tr>
<tr>
<td>Basic Electronics/Power Electronics and Drives</td>
</tr>
<tr>
<td>Electrical Circuits &amp; Electrical Machines</td>
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<tr>
<td>Engineering Materials</td>
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<tr>
<td>Programming for Engineers</td>
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<tr>
<td>Industrial Control &amp; Automation/</td>
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<td>Automation System Design</td>
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<td>Thermodynamics</td>
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<td>Strength of Materials</td>
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<td>Microprocessor Systems</td>
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<tr>
<td>Measurement &amp; Instrumentation</td>
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<td>Computer-aided Engineering/Finite</td>
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<td>Element Analysis</td>
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<tr>
<td>Embedded Systems Engineering</td>
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<tr>
<td>Engineering Design</td>
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<tr>
<td>Control Systems Engineering</td>
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<tr>
<td>CNC, Robotics Technology/Robotic Systems &amp; Design</td>
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<tr>
<td>Networking Systems</td>
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<tr>
<td>Artificial Intelligence</td>
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<tr>
<td>Product Design &amp; Development/Project Management/ Engineering Economics</td>
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<tr>
<td>Engineer &amp; Society/Communication for Engineers</td>
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<tr>
<td>Exergy &amp; Renewable Energy</td>
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<td>Capstone Project</td>
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LANGUAGE, MATA PELAJARAN PENGAJIAN UMUM (MPU) AND CO-CURRICULAR COURSES:

English Language, English for Communication, English for the Profession, Tamadun Islam dan Asia, Hubungan Etnik, Bahasa Kebangsaan A, Entrepreneurship, Moral dan Etika/Contemporary Malaysian Issues, Co-curricular
Diploma in Architecture
3 years

PROGRAMME OVERVIEW
Architecture is the art and science of designing and erecting buildings, structures, objects and outdoor spaces. This programme equips students with basic knowledge and skills in architectural design practices and technological aspects such as conceptual design development, integrate building technology concepts like construction and services into their designed projects; application of building by laws into designed buildings; appreciation of architectural history and cultural practices, production of design and technical drawing, model making and preparation of presentation media.

CAREER PROSPECTS
Upon completion of the programme, graduates may be employed as architectural assistant, assistant designer, draughtsman, project supervisor, architectural illustrator, model maker and architectural animator and as sales personnel in architectural and building related industries.

PROGRAMME OUTLINE (TOTAL CREDITS: 99)
- Construction Technology
- Building Materials
- Architectural Drawing
- Principles of Architectural Design
- Built Environment Studies
- Architectural Design Studio
- Design Theory
- Structural Studies
- Building Science and Services
- CAD for Architecture
- History of European Architecture
- Digital Design Modeling
- Building By Law & Contracts
- History of Asian Architecture
- Site Surveying
- Practical Training in Industry

LANGUAGE, MATA PELAJARAN PENGAJIAN UMUM (MPU) AND CO-CURRICULAR COURSES:
English Language, English for Communication, English for IELTS, Pengajian Malaysia 2, Bahasa Kebangsaan A, Public Speaking, Civic Consciousness and Volunteerism, Co-curricular

Diploma in Technology (Building)
2 years

PROGRAMME OVERVIEW
This programme is a multi-discipline programme designed to provide a fundamental academic base in the discipline of construction management and property development needed in the construction industry. This programme focuses on planning, co-ordination and control of the construction project from inception till completion stage; managing financial issues of the project; managing the production of design, tender, contract and construction drawing including tender and contract documents; managing the selection of appropriate procurement system, contractual arrangement and tendering method which satisfies the client’s needs in term of time, cost, quality and legal aspects; and managing the contractual issues based on general contract principles of Building Contract as well as general legal principles of Contract Law, Sale of Goods Act and Law of Tort. This programme will provide effective pathway for students to further their studies at degree level in the area of construction management.

CAREER PROSPECTS
Graduates can be employed at supervisory and/or executive level personnel in managing the real property developments project from inception to post construction stages in construction and/or property development firms.

PROGRAMME OUTLINE (TOTAL CREDITS: 96)
- Building Materials
- Construction Technology
- Technical Drawing
- IT & CAD
- Building Science & Services
- Site Surveying
- Building Maintenance Technology
- Mathematics for Construction
- Structural Studies
- Basic Soil Mechanics
- Principles of Management
- Site Supervision
- Construction Health & Safety
- Introduction to Economics
- Principles of Construction Economics
- Introduction to Law
- Principles of Malaysian Land Law
- Building Acts & Contracts
- Construction Finance Practice
- Estimating
- Measurement of Building Works
- Measurement of Civil Engineering Works

LANGUAGE, MATA PELAJARAN PENGAJIAN UMUM (MPU) AND CO-CURRICULAR COURSES:
English Language, English for Communication, English for IELTS, Pengajian Malaysia 2, Bahasa Kebangsaan A, Public Speaking, Civic Consciousness and Volunteerism, Co-curricular
Programmes Offered

### Diploma in Technology (Property Management)
2 years 4 months

**PROGRAMME OVERVIEW**
This programme equips students with essential knowledge and skills in estate agency practices and sound foundation in property valuation and management. Students will be trained to handle marketing, sales and rental transactions issues of land and property including financial arrangement and advise its related tax, cost and expense to be incurred, management of property and rental review of land and property.

**CAREER PROSPECTS**
Graduates would enjoy good prospects for employment as executive personnel in property valuation and consulting practices, estate agency practices, developers and other organisations within the property sector.

**ACADEMIC PROGRESSION**
Graduates may be admitted into Year 2 of Bachelor of Estate Management (Honours).

**PROGRAMME OUTLINE (TOTAL CREDITS: 100)**
- Building Materials
- Construction Technology
- Technical Drawing
- IT & CAD
- Building Science & Services
- Introduction to Economics
- Site Surveying
- Land Use Planning
- Building Maintenance Technology
- Introduction to Valuation
- Principles of Valuation
- Principles of Investment Valuation
- Principles of Statutory Valuation
- Principles of Accounting
- Land Economics
- Real Estate Finance
- Principles of Town & Country Planning
- Introduction to Law
- Principles of Malaysian Land Law
- Property Taxation Law
- Estate Agency Law
- Principles of Marketing
- Principles of Management
- Property Management
- Real Estate Professional Practices
- Practical Training in Industry

**LANGUAGE, MATA PELAJARAN PENGAJIAN UMUM (MPU) AND CO-CURRICULAR COURSES:**
English Language, English for Communication, English for IELTS, Pengajian Malaysia 2, Bahasa Kebangsaan A, Public Speaking, Civic Consciousness and Volunteerism, Co-curricular

### Diploma in Technology (Quantity Surveying)
2.5 years

**PROGRAMME OVERVIEW**
This programme equips students with fundamental knowledge and skills in quantity surveying practices such as preparing project feasibility study, handling financial issues of the project; preparing tender and contract documents including measurement of construction works and pricing; evaluation and selection of appropriate procurement system, contractual arrangement and tendering method which satisfies the client’s needs in term of time, cost, quality and legal aspects; and advising the contractual issues based on general contract principles of Building Contract as well as general legal principles of Contract Law, Sale of Goods Act and Law of Tort. This programme will provide an effective pathway for students to further their studies in Bachelor of Quantity Surveying (Honours) which enable them to be registered as quantity surveyors.

**CAREER PROSPECTS**
Graduates can be employed as executive and/or administrative level personnel in quantity surveying practices which include, but not limited to, take-off quantities, estimating, tendering, purchasing, cost control, and contract administration as well as project implementation in the construction industry.

**ACADEMIC PROGRESSION**
Graduates with CGPA 2.7500 and above may be admitted into Year 2 Semester 2 and CGPA 2.0000 to 2.7499 may be admitted into Year 1 Semester 2 of Bachelor of Quantity Surveying (Honours). Graduates with CGPA 2.5000 and above may be admitted into Year 2 Semester 1 of Bachelor of Construction Management and Economics (Honours).

**PROGRAMME OUTLINE (TOTAL CREDITS: 100)**
- Building Materials
- Construction Technology
- Technical Drawing
- IT & CAD
- Building Science & Services
- Measurement of Civil Engineering
- Measurement of Building Works
- Structural Studies
- Mathematics for Construction
- Structural Studies
- Measurement of Building Works
- Measurement of Civil Engineering Works
- Estimating
- Introduction to Economics
- Principles of Building Economics
- Principles of Development Economics
- Principles of Management
- Introduction to Law
- Principles of Malaysian Land Law
- Building Acts & Contracts
- Quantity Surveying Practices
- Integrated Project
- Practical Training in Industry

**PROFESSIONAL ACCREDITATION/EXEMPTION**
Diploma in Technology (Property Management) is accredited by the Board of Valuers, Appraisers and Estate Agents (BoVAEA). Graduates are eligible to register with BoVAEA as Probationary Estate Agents. With sufficient relevant work experience and upon passing the Test of Professional Competence (TPC), graduates can register with BoVAEA as Registered Estate Agents.

**PROFESSIONAL ACCREDITATION/EXEMPTION**
Diploma in Technology (Quantity Surveying) is accredited by the Royal Institution of Surveyors, Malaysia (RISM) and recognised as an approved QS sub-professional qualification. Graduates of this Diploma are exempted from the Foundation and First Examinations (except intermediate and Final Examinations) of the RISM’s Professional Examinations for Quantity Surveying.
PROGRAMME OVERVIEW
Electronic technologies form the foundation of modern society, making possible the devices and systems that we rely upon in our daily life such as mobile communications, computer networks, medical equipment, video and audio systems and industrial control and automation. Electronics is a broad engineering field, giving students enormous flexibility and wide ranging career options. The Diploma in Technology (Electronic Engineering) emphasises on design of digital and analogue systems with a focus on applying basic concepts and skills to real world situations and developing broad-based knowledge with a curriculum that includes electronic devices, communications, automation and control, software engineering and embedded systems. The Diploma programme is designed to bridge the gap for school leavers for a successful university study in Electrical and Electronics or Electronic Communication engineering.

PROGRAMME OVERVIEW
Can you imagine what will happen if our world is without materials? Breakthroughs in materials science and engineering improve the quality of our daily lives. Nearly everything we use is made of materials and essentially every technology depends on materials development and innovation. This Diploma is aimed to produce graduates with a sound foundation in materials engineering to meet the demand of industries and also to pursue higher qualification in this field. It encompasses the relationships between structures, properties, selection and processing of materials to various areas of science and engineering. Graduates are also equipped with the knowledge which are essential for their future employment such as management and quality control.

CAREER PROSPECTS
Graduates will find flexible and wide ranging of career options in the industries of aerospace, telecommunications, instrumentation & control, computing, consumer and industrial electronics with job scopes that may include product design, development & testing, maintenance, marketing and sales & services.

CAREER PROSPECTS
Graduates may be employed as assistant engineers, executives or support staff in a wide variety of fields such as production, design and development, marketing, sales, management, quality assurance, testing and maintenance.

ACADEMIC PROGRESSION
Graduates may be admitted into Year 2 of Bachelor of Engineering (Honours) Electrical and Electronics
• Bachelor of Engineering (Honours) Electronic (Communication)

ACADEMIC PROGRESSION
Graduates may be admitted into Year 2 of Bachelor of Engineering (Honours) Material.

PROGRAMME OUTLINE (TOTAL CREDITS: 99)
• Mathematics
• Engineering Science
• Computer Studies
• Engineering Drawing & CADD
• Digital & Analogue Electronics
• Microprocessors
• C++ Programming
• Engineering Materials
• Industrial Control & Automation
• Principles of Electrical & Electronic Engineering
• Electronic Instrumentation & Communications
• Engineering Mechanics
• Electrical Technology & Circuits
• Embedded Systems, Design & Applications
• Software & Information Systems Engineering
• Mini Project
• Engineering Perspectives & Skills
• Industrial Management Studies (Engineering)

PROGRAMME OUTLINE (TOTAL CREDITS: 98)
• Mathematics
• Engineering Science
• Computer Studies
• Production Engineering
• Engineering Drawing & CADD
• Materials Science
• Materials Testing
• Introduction to Manufacturing Processes
• Quality & Production Control
• C++ Programming
• Engineering Materials
• Polymeric Materials
• Thermodynamic, Fluid & Process Engineering
• Mechanical & Structural Engineering
• Materials Application & Selection
• Phase Transformations & Heat Treatment
• Corrosion Processes & Protection
• Engineering Perspectives & Skills
• Industrial Management Studies (Engineering)

LANGUAGE, MATA PELAJARAN PENGAJIAN UMUM (MPU) AND CO-CURRICULAR COURSES:
English Language, English for Communication, English for IELTS, Pengajian Malaysia 2, Bahasa Kebangsaan A, Public Speaking, Civic Consciousness and Volunteerism, Co-curricular

LANGUAGE, MATA PELAJARAN PENGAJIAN UMUM (MPU) AND CO-CURRICULAR COURSES:
English Language, English for Communication, English for IELTS, Pengajian Malaysia 2, Bahasa Kebangsaan A, Public Speaking, Civic Consciousness and Volunteerism, Co-curricular
Diploma in Technology (Mechanical and Manufacturing Engineering) 2 years

PROGRAMME OVERVIEW
Mechanical engineering is one of the broadest of engineering disciplines. It is referred as the 'mother' branch of engineering. Most of the inventions in the modern era are due to the contribution of knowledge and application of mechanical engineering. Mechanical engineers contribute their knowledge in the design, development, manufacture, testing of various engines, vehicles and machines, manufacturing plants, automated mechanical systems, etc. Graduates will be able to work in a wide spectrum of industries including manufacturing, oil & gas, automotive, chemical processing, air conditioning & refrigeration, agriculture and many others.

CAREER PROSPECTS
Graduates can be employed as technical assistant at supervisory and/or executive level in manufacturing industries to ensure engineering processes/operation are carried out efficiently and safely. They can also help prevent problems and troubleshoot and rectify situations that can lead to problems in the engineering processes.

PROGRAMME OUTLINE (TOTAL CREDITS: 96)
- Mathematics
- Engineering Science
- Computer Studies
- Engineering Drawing & CADD
- Workshop Technology
- Production Planning
- Manufacturing Processes
- Industrial Automation
- C++ Programming
- Theory of Machines
- Mechanical & Structural Engineering
- Kinematics & Dynamics
- Thermodynamic, Fluid & Process Engineering
- Engineering Materials
- CNC & CAD/CAM Technology
- Engineering Perspectives & Skills
- Industrial Management Studies (Engineering)

LANGUAGE, MATA PELAJARAN PENGAJIAN UMUM (MPU) AND CO-CURRICULAR COURSES:
English Language, English for Communication, English for IELTS, Pengajian Malaysia 2, Bahasa Kebangsaan A, Public Speaking, Civic Consciousness and Volunteerism, Co-curricular

Diploma in Technology (Mechatronics) 2 years

PROGRAMME OVERVIEW
Mechatronics is the integration of mechanical engineering systems with electronic and electrical controls systems. Mechatronics is involved in such diverse products and systems such as robots, automated machines and production systems, automobiles, aircrafts, medical devices and many others. Graduates will be able to work in a wide spectrum of industries including robotics, automotive, aerospace, manufacturing and etc.

CAREER PROSPECTS
Graduates can be employed as technical assistant and at executive level in the industries of manufacturing, robotics & automation, instrumentation & control, computing and sales and servicing.

PROGRAMME OUTLINE (TOTAL CREDITS: 97)
- Mathematics
- Engineering Science
- Principles of Electrical & Electronic Engineering
- Basic/Digital/Analogue Electronics
- Computer Studies
- Microprocessors
- Robotics, Manufacture & Process Engineering
- Engineering Drawing & CADD
- Engineering Materials
- Thermodynamics, Fluid & Process Engineering
- Electrical Technology & Circuits
- Mechatronics
- Mechanical & Structural Engineering
- Kinematics & Dynamics
- C++ Programming
- Engineering Perspective & Skills
- Industrial Management Studies (Engineering)

LANGUAGE, MATA PELAJARAN PENGAJIAN UMUM (MPU) AND CO-CURRICULAR COURSES:
English Language, English for Communication, English for IELTS, Pengajian Malaysia 2, Bahasa Kebangsaan A, Public Speaking, Civic Consciousness and Volunteerism, Co-curricular