FUNDAMENTAL AND UNDERGRADUATE COURSE GUIDE

ENGINEERING AND SCIENCE

Make tomorrow better.

engsci.curtin.edu.my
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ACADEMIC CALENDAR

Our engineering and science courses are currently taught on a semester basis

Application closing dates and orientation dates are subject to change and may vary depending on the course. Dates are for Malaysia. Contact other campuses directly for details.

For more information, please visit: current.curtin.edu.my/academic-calendar/

WELCOME TO CURTIN MALAYSIA

Curtin Malaysia is a place where curious minds come together. If you are fascinated by everything around you, and like to ask questions and experiment with new ideas, then we can help you develop the knowledge and practical, real-world skills that you’ll need to make tomorrow better.

In fact, the Curtin engineering or science degree you will earn can help you to discover a whole new world. You’ll learn how to apply your studies to real industry challenges and situations, and have opportunities to work in environments where research and discovery abound.

Our Faculty of Engineering and Science is committed to the enhancement of teaching and research and the pursuit of excellence and innovative applications of engineering technology as a contribution to the advancement of scientific knowledge, understanding and community relevance.

The Curtin Engineering and Science courses we offer are recognised and accredited by relevant professional bodies such as the Engineering Accreditation Council (EAC) Malaysia, Board of Engineers Malaysia (BEM), Engineers Australia (EA), Institution of Chemical Engineers UK, Australian Computer Society (ACS), Australian Society of Exploration Geophysicists, Society of Exploration Geophysicists (USA), European Association of Geoscientists and Engineers, Australasian Institute of Mining and Metallurgy, and Geological Society of Australia.

We have a common first year for all engineering students, which builds their range of basic science skills and knowledge, with particular emphasis on physics, chemistry and mathematics. Before graduating from any Bachelor of Engineering course, students are required to obtain 12 weeks engineering work experience and a senior first aid certificate. Honours are awarded to graduates based upon their performance.

Ranked in the top one per cent of universities worldwide

(Academic Ranking of World Universities 2019)

TOP 1%

Top 100 in the world for Civil and Structural Engineering

(QS World University Rankings by Subject 2019)

TOP 100
This course prepares students for undergraduate study in Engineering and Science, Computing and Information Technology. In addition to several units that are common to all foundation courses, students study units in Engineering Mathematics, Physics and Chemistry and Programming in C++.

Pathways to further study at Curtin Malaysia
Students with satisfactory results in the Foundation Studies - Engineering and Science Stream programme can enter degree programmes such as:
- Bachelor of Engineering (Hons) (Chemical, Civil and Construction, Environmental, Electrical & Electronic, Mechanical, Petroleum)
- Bachelor of Technology (Computer Systems & Networking)
- Bachelor of Science (Applied Geology, Computing, Health, Safety and Environment)
- Bachelor of Applied Science (Construction Management)

Further study at Curtin Perth
Students who obtain satisfactory results in the Foundation Studies courses are eligible for admission to a range of undergraduate programmes at the main campus.

ENTRY REQUIREMENTS

For International Students

<table>
<thead>
<tr>
<th>Country</th>
<th>Qualification and Minimum Entry Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bangladesh</td>
<td>Completion of Bangladesh Secondary School Certificate (SSC) with a minimum Grade Point average of 3.5  (60-69%) or 3.5 (60-69%), separate evidence or English competency is required or GCE ’O’ Level - credit in 5 relevant academic subjects and English competency.</td>
</tr>
<tr>
<td>Brunei</td>
<td>Brunei GCE ’O’ Level - credit in 5 relevant subjects and English competency.</td>
</tr>
<tr>
<td>China</td>
<td>Completion of Senior Middle 3 with an overall average grade of at least 60% and English competency.</td>
</tr>
<tr>
<td>Hong Kong</td>
<td>HKDSE - Grade D in 5 subjects and English competency.</td>
</tr>
<tr>
<td>India</td>
<td>Completion of All India Secondary School Certificate awarded by Central Board of Secondary Education with an average of 60% in four subjects, one of which must be English (60% or better) or with separate evidence of competence in English or GCE ’O’ Level - credit in 4 relevant academic subjects and English competency.</td>
</tr>
<tr>
<td>Indonesia</td>
<td>Completion of Ijazah Sekolah Menengah Umum (SMU) 3/ Ijazah Sekolah Menengah Atas (SMA) and separate evidence of English competency is required.</td>
</tr>
<tr>
<td>Mauritius</td>
<td>GCE ’O’ Level - credit in 5 relevant subjects and English competency.</td>
</tr>
<tr>
<td>Hong Kong</td>
<td>GCE ’O’ Level - credit in 5 relevant subjects and English competency.</td>
</tr>
<tr>
<td>Pakistan</td>
<td>Completion of Secondary School Certificate awarded by Federal Board of Intermediate and Secondary Education with average of 60% in 4 academic subjects and separate evidence of English competency is required.</td>
</tr>
<tr>
<td>Saudi Arabia</td>
<td>GCE ’O’ Level - credit in 5 relevant subjects and English competency.</td>
</tr>
<tr>
<td>Singapore</td>
<td>GCE ’O’ Level - credit in 5 relevant subjects and English competency.</td>
</tr>
<tr>
<td>Sri Lanka</td>
<td>GCE ’O’ Level - credit in 5 relevant subjects and English competency.</td>
</tr>
<tr>
<td>UAE</td>
<td>GCE ’O’ Level - credit in 5 relevant subjects and English competency.</td>
</tr>
</tbody>
</table>

For Malaysian Students

<table>
<thead>
<tr>
<th>Qualification</th>
<th>Minimum Entry Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>GCE ’O’ Level</td>
<td>SC including English or SC and English competency.</td>
</tr>
<tr>
<td>SPM</td>
<td>Engineering Stream 5 Credits including English and Mathematics and passes in Add. Mathematics and one of the Science subjects (Physics or Chemistry or Biology)</td>
</tr>
<tr>
<td>Science Stream</td>
<td>5 Credits including English and Mathematics and pass in one of the Science subjects or 5 Credits including English and Mathematics, Additional Mathematics or one of the Science, Technology or Engineering related-subjects.</td>
</tr>
</tbody>
</table>

For Degree pathway to Bachelor of Science (Computing)
Any other Qualification will be considered on a case-to-case basis.
Note: The entry requirements above serve as a guideline and subject to change.
RESULTS FOR IELTS AND TOEFL ARE VALID FOR TWO YEARS.

MINIMUM ENGLISH LANGUAGE ENTRY REQUIREMENTS

THE CURTIN ENGLISH LANGUAGE REQUIREMENTS AS OUTLINED BELOW:

<table>
<thead>
<tr>
<th>ENGLISH QUALIFICATION</th>
<th>FOUNDATION</th>
<th>UNDERGRADUATE</th>
<th>POSTGRADUATE BY CUMULATION</th>
<th>POSTGRADUATE BY RESEARCH</th>
</tr>
</thead>
<tbody>
<tr>
<td>IELTS®</td>
<td>Overall 5.5 (no individual band below 5.0)</td>
<td>Overall 6.0 (no individual band below 6.0)</td>
<td>Overall 6.5 (no individual band below 6.0)</td>
<td>Overall 6.5 (no individual band below 6.0)</td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>E</td>
<td>E</td>
<td>C</td>
</tr>
<tr>
<td>SPM English®</td>
<td>65</td>
<td>70</td>
<td>70</td>
<td>70</td>
</tr>
<tr>
<td></td>
<td>C</td>
<td>C</td>
<td>C</td>
<td>C</td>
</tr>
<tr>
<td>GCE 'O' Level</td>
<td>C</td>
<td>C</td>
<td>C</td>
<td>C</td>
</tr>
<tr>
<td></td>
<td>E</td>
<td>E</td>
<td>E</td>
<td>E</td>
</tr>
<tr>
<td>PTE Academic (Pearson Test of English Academic)™</td>
<td>Overall 51</td>
<td>Overall 63 All Communicative Skills 50</td>
<td>Overall 63 All Communicative Skills 50</td>
<td>Overall 58 All Communicative Skills 50</td>
</tr>
<tr>
<td></td>
<td>C</td>
<td>C</td>
<td>C</td>
<td>C</td>
</tr>
<tr>
<td></td>
<td>C</td>
<td>C</td>
<td>C</td>
<td>C</td>
</tr>
<tr>
<td>MSET</td>
<td>Band 3 and no less than 70% in aggregate score</td>
<td>Band 4 and no less than 200 in aggregate score</td>
<td>Band 4 and no less than 200 in aggregate score</td>
<td>Band 4 and no less than 200 in aggregate score</td>
</tr>
</tbody>
</table>

**Foundation**: Applicants with IELTS 5.0 (no individual band below 5.0) are required to take the Academic English concurrently with the Foundation programme.

**Undergraduate**: Applicants with IELTS less than 6.0 but achieved 5.5 (no individual band below 5.0) are required to take Curtin University Foundation English Units.

**Foundation**: Applicants with TOEFL less than 66 but achieved 60 (or above) are required to take the Academic English concurrently with the Foundation programme.

**Foundation**: Applicants with SPM English ‘C’ are required to take the Academic English concurrently with the Foundation programme.

**Undergraduate**: Applicants with GCE ‘O’ Level ‘D’ are required to take the Academic English concurrently with the Foundation programme.

**Foundation**: Applicants with PTE Academic less than 51 but achieved 46 (or above) are required to take the Academic English concurrently with the Foundation programme.

**Postgraduate by research**: Applicants with TOEFL less than 65 but achieved 60 (or above) are required to take the Academic English concurrently with the Foundation programme.

**Postgraduate by research**: Applicants with PTE Academic less than 59 but achieved 54 (or above) are required to take Curtin University Foundation English Units.

**Postgraduate by research**: Applicants with PTE Academic less than 51 but achieved 36 (or above) are required to take the Academic English concurrently with the Foundation programme.

**Postgraduate by research**: Applicants with PTE Academic less than 59 but achieved 42 (or above) are required to take Curtin University Foundation English Units.

**Postgraduate by research**: Applicants with PTE Academic less than 51 but achieved 36 (or above) are required to take the Academic English concurrently with the Foundation programme.

**Postgraduate by research**: Applicants with PTE Academic less than 59 but achieved 42 (or above) are required to take Curtin University Foundation English Units.

**Postgraduate by research**: Applicants with PTE Academic less than 51 but achieved 36 (or above) are required to take the Academic English concurrently with the Foundation programme.

**Postgraduate by research**: Applicants with PTE Academic less than 59 but achieved 42 (or above) are required to take Curtin University Foundation English Units.

The above information is correct at time of publishing but may be subject to change. The table only shows the minimum English requirement for the respective programme. Applicants must also meet the relevant academic qualifications for the respective programmes.

The Intensive English Programme (IEP) is designed to improve students’ academic English language proficiency. This programme specifically caters for potential tertiary education students who lack the English language entry requirements to enter a Foundation or Degree course.

A Placement Test is administered to determine students’ command of English.

Based on the test results, students are placed at the appropriate IEP level. There are four levels in the IEP: Level I, II, III and IV, with four intakes/terms a year. Each term comprises 9 weeks and the course consists of 20 contact hours per week.

At the end of each nine-week term, students in Level I, II and III sit for an internal test, and based on their scores, they will be streamed to the appropriate levels. Students might skip a level or two if they meet the entry band requirement for each level respectively as illustrated in the diagram below. The exit test for Level IV is the Cambridge IELTS.

**Alternative Entry Pathways**

Besides the Intensive English Programme, the Department of Culture 6 Language Studies offers the Pre-University English Unit which runs concurrently with the Foundation programme. This is a 6-hour per week unit for one whole semester. This unit aims to improve the students’ English language proficiency level to the standard required for undergraduate or postgraduate studies.

In addition, special academic learning needs are supported through the academic modules offered by the Office of Learning and Teaching.

When necessary, students from any programme are encouraged to join these 2-hour seminars and workshops (free of charge) with various topics such as Plagiarism, Academic English, Academic Listening and Note Taking, Sentence Mechanics, and others.
UNDERGRADUATE STUDIES AND ENTRY REQUIREMENT

Undergraduate Degrees

Bachelor degrees

Courses leading to a first qualification, such as a bachelor degree award, are referred to as undergraduate courses. Undergraduate degrees are usually three or four years long.

Honours programme

As a natural extension to a bachelor degree, a Curtin honours programme offers student opportunities to gain a deeper understanding of a selected area of study, and to complete an honours year of higher level coursework. Graduates of the honours year are eligible to proceed to PhD study.

Credit for Recognised Learning (CRL)

Curtin recognises students’ relevant prior studies or work experience, allowing some students to finish their degrees in a shorter period of time. CRL (or Advanced Standing) allows students to take advantage of - and be rewarded for - their previous (or Advanced Standing) allows students to take credit for courses completed elsewhere, enabling some students to finish their studies in a shorter time frame. CRL or work experience, allowing some students to finish their degrees in a shorter period of time. CRL (or Advanced Standing) allows students to take advantage of - and be rewarded for - their previous

For International Students

Country Qualification and Minimum Entry Requirements

Bangladesh Completion of Bangladesh Higher Secondary Certificate (HSC) with a minimum Grade Point Average of 4.0 (70-79%) - separate evidence or English competency is required.

Brunei Three passes (Grade C or better) in the Brunei Cambridge General Certificate of Education Ordinary Level Examinations (IGEC) and two passes (minimum of 5 points) in the Brunei Cambridge General Certificate of Education Advanced Level Examinations (AEC). Separate evidence of English competency is required.

China Successful completion of the National College Entrance Examination (NCEE) (also known as Gaokao) and obtain an aggregate of the required individual subjects which is equivalent to 67% of the overall maximum score, or a grade of 322/480/600, 553/750, 543/810 or 600/900 AND English competency OR completion of one year of a bachelor degree at a recognised university and English competency.

Hong Kong Completion of the Hong Kong Diploma of Secondary Education (HKDSE) with a point score of 15 from the best five subjects with at least a grade of 4 in English language or with separate evidence of English competency.

Indonesia From 2013 - Successful completion of Sijil Tinggi Persekolahan Malaysia (STPM) (Malay medium) – A minimum of 5 points obtained from at least two but no more than three Sijil Tinggi Persekolahan Malaysia (STPM) subjects and fulfilling English Entry Requirement; points calculated as follows: A=5; B=4; C=3; D=2; E=1.

Japan Successful completion of first year of a Gakushu (Bachelor’s degree) at a recognised university - separate evidence of English competency is required.

Kenya Successful completion of one year full-time study of a four years Bachelor degree listed on AEI CEP. Separate evidence of English competency is required.

South Korea Completion of High School Diploma with a score of 300 (75%) in the National University Entrance Examination (College Scholastic Ability Test) (CSAT) - separate evidence of English competency is required.

Mauritius Three O’level passes (minimum grade C in the Cambridge School Certificate (CSEC) GCE O’ level and two Advanced Level passes minimum of 5 points) in the Cambridge Higher School Certificate (HSC). GCE A’ level, and a grade C or better in ‘O’ level English. English literature of English Language OR Successful completion of the Charles Telfer Institute, Foundation Studies Program - separate evidence of English is not required.

Myanmar Successful completion of two years full-time study of a three years Bachelor degree (in arts, commerce, economics and management, foreign languages, and science (including computer science) OR Successful completion of one year full-time study of a four years Bachelor degree in community health, education, law, nursing, paramedical sciences, pharmacy, technology (including computer technology and nautical technology) at a recognised institution - separate evidence of English competency is required.

For Malaysian Students

Qualification Minimum Entry Requirements

STPM *A minimum of 5 points obtained from at least two but no more than three Sijil Tinggi Persekolahan Malaysia (STPM) subjects and fulfilling English Entry Requirement; points calculated as follows: A=5; B=4; C=3; D=2; E=1.

A-Level Grades awarded from 2010 onwards:

Grades awarded up to 2009:

A1 = 5, A2 = 4, B1 = 3, B2 = 2, C1 = 1

UEC *Completion of the Malaysian Unified Examination Certificate (UEC) (Senior Middle Level) with 5 points aggregated from at least two but no more than three UEC subjects and fulfilling English Entry Requirement; points calculated as follows:

A1 = 5, A2 = 4, B1 = 3, B2 = 2, C1 = 1

Foundation *Completion of recognized Foundation program

Diploma *Completion of recognized Diploma program with CGPA 2.0

Matriculation *Completion with CGPA 2.5

Nepal Completion of one year full-time study of a four years Bachelor, or two years full-time study of a three years Bachelor from a recognized higher education institution, separate evidence of English competency is required.

Oman Successful completion of one year of a degree at a recognised institution - separate evidence of English competency is required.

Pakistan Completion of the Pakistan Higher Secondary Certificate/Intermediate Certificate with at least an aggregate of 75% of the total marks (625 out of 1100), separate evidence of English competency is required. This qualification does not satisfy subject prerequisites.

Russia Successful completion of one year of a four years full-time Bachelor at a State institution or fully accredited private institution - separate evidence of English competency is required.

Saudi Arabia Successful completion of the first year of a four year full-time Bachelor degree at one of the Section 1 Higher Education institutions listed on AEI CEP. separate evidence of English competency is required.

Sri Lanka Three O’level passes (minimum grade C and two Advanced level passes minimum of 5 points) in the General Certificate of Education (GCE) with grade C in ‘O’ level English, English Literature or with separate evidence of English competency OR Successful completion of one year full-time study of a four years Bachelor degree at with at least 3.00 out of 4.00 on the Sri Lankan General Certificate of Education (GCE) (excluding General Paper) with credit in ‘O’ level English or with separate evidence of English competency.

Thailand Successful completion of one year full-time study of a four years Bachelor degree at one of the Section 1 Higher Education institutions listed on AEI CEP, separate evidence of English competency is required.

United Arab Emirates Successful completion of one year full-time study of a four years Bachelor degree at one of the Section 1 Higher Education institutions listed on AEI CEP. OR Successful completion of one year full-time study of a four years Bachelor degree with at least 3.0 out of 4.00 on the Section 2 Higher Education institutions listed on AEI CEP AND separate evidence of English competency is required.

United Kingdom Three Advanced level/GCSE passes and two GCE Advanced level passes (minimum of 5 points each: A=5, B=4, C=3, D=2, E=1). You must have Grade C or better in GCE A-level/GCSE English, English Literature or English Language, or provide separate evidence of English competency.

United States From 2016 – United States High School Diploma or a High School Diploma based on US curriculum with a GPA of 3.0 out of 4.0 (or an average grade of B) and a Total score (Evidence-based Reading and Writing section and Math section) of at least 1000 out of 1600 in the SAT from the same sitting, a minimum of 400 in Evidence-based Reading and Writing section, and 400 in Math section is required. Separate evidence of English competency is not required. This qualification does not satisfy subject prerequisites. OR Completion of a United States High School Diploma or a High School Diploma based on US curriculum and obtain at least a grade point score of 6 from a minimum of two subjects (English or Mathematics or Science), minimum of 3 points in Mathematics. OR Successful completion of one year full-time study of a four years Bachelor degree with at least a grade of 3 or higher in English Language and Composition or English Literature and Composition.

Vietnam From 2015 completion of the Bang Tu tai or Bang Tong Giai Pho Thong Hung truc (Vietnamese Upper Secondary School Graduation Diploma) with at least 8.00 in the score for graduation evaluation, separate evidence of English competency is required. For foreign students only: Completion of the Bang Tu tai or Bang Tong Giai Pho Thong Hung truc (Vietnamese Upper Secondary School Graduation Diploma) with an average of at least 80% in the four academic subjects (Maths, Literature and Science stream courses) and fulfilling English competency requirements. OR Completion of the Vietnam High School Diploma and English Competence.

Zimbabwe Successful completion of the Zimbabwe Certificate of Secondary Education Advanced Level conducted by ZIMSEC with at least two Advanced level subjects passed at Principal level (Subsidiary pass is not acceptable) and achieved the required national Australian Tertiary Admissions Rank (ATAR) using the GCE A-Level Conversion AND a Grade C or better in English subject in Zimbabwe Certificate of Secondary Education at Ordinary Level. OR Completion of the Singapore-Cambridge General Certificate of Education Ordinary Level or Cambridge Ordinary Level or Grade C or better in English subject in Zimbabwe Certificate of Secondary Education at Ordinary Level. OR Completion of the Pakistan Higher Secondary Certificate/Intermediate Certificate with at least an average of 75% of the total marks (625 out of 1100), separate evidence of English competency is required. This qualification does not satisfy subject prerequisites. OR Completion of the Singapore-Cambridge General Certificate of Education Ordinary Level or Cambridge Ordinary Level or Grade C or better in English subject in Zimbabwe Certificate of Secondary Education at Ordinary Level. OR Completion of one year full-time study of a four years Bachelor, or two years full-time study of a three years Bachelor from a recognized higher education institution, separate evidence of English competency is required.

* Minimum entry requirement as stated in the Indicative Cut-off Score
### INDICATIVE CUT-OFF SCORES

<table>
<thead>
<tr>
<th>Course Name</th>
<th>GCE A Level (minimum 5 subjects)</th>
<th>UCE (level of 15 subjects)</th>
<th>HKDSE</th>
<th>IB</th>
<th>Szec-GA (level of 6)</th>
<th>ANU (incl. WACE &amp; WACE UC)</th>
<th>WAWUP</th>
<th>Indian IB &amp; CBSE</th>
<th>STPM</th>
<th>GCE 'A' level issued by the Department of Examinations</th>
<th>ATAR</th>
<th>IB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applied Geology (BSc)</td>
<td>5</td>
<td>15</td>
<td>15</td>
<td>24</td>
<td>60</td>
<td>70</td>
<td>53</td>
<td>65</td>
<td>65%</td>
<td>Sri Lanka: GCE 'A' Level issued by the Department of Examinations</td>
<td>5</td>
<td>2.5</td>
</tr>
<tr>
<td>Chemical Engineering (BEng)</td>
<td>8</td>
<td>22</td>
<td>19</td>
<td>28</td>
<td>70</td>
<td>80</td>
<td>59</td>
<td>71</td>
<td>71%</td>
<td>India: GCE 'A' Level issued by the Department of Examinations</td>
<td>9</td>
<td>3.0</td>
</tr>
<tr>
<td>Civil and Construction Engineering (BEng)</td>
<td>8</td>
<td>22</td>
<td>19</td>
<td>28</td>
<td>70</td>
<td>80</td>
<td>59</td>
<td>71</td>
<td>71%</td>
<td>HKDSE: GCE 'A' Level issued by the Department of Examinations</td>
<td>9</td>
<td>3.0</td>
</tr>
<tr>
<td>Computer Systems &amp; Networking (B'(Sc)</td>
<td>5</td>
<td>15</td>
<td>15</td>
<td>24</td>
<td>60</td>
<td>70</td>
<td>53</td>
<td>65</td>
<td>65%</td>
<td>Sri Lanka: GCE 'A' Level issued by the Department of Examinations</td>
<td>5</td>
<td>2.5</td>
</tr>
<tr>
<td>Computing (BSc)</td>
<td>5</td>
<td>15</td>
<td>15</td>
<td>24</td>
<td>60</td>
<td>70</td>
<td>53</td>
<td>65</td>
<td>65%</td>
<td>India: GCE 'A' Level issued by the Department of Examinations</td>
<td>5</td>
<td>2.5</td>
</tr>
<tr>
<td>Construction Management (BAppSc)</td>
<td>5</td>
<td>15</td>
<td>15</td>
<td>24</td>
<td>60</td>
<td>70</td>
<td>53</td>
<td>65</td>
<td>65%</td>
<td>Sri Lanka: GCE 'A' Level issued by the Department of Examinations</td>
<td>5</td>
<td>2.5</td>
</tr>
<tr>
<td>Electrical &amp; Electronic Engineering (BEng)</td>
<td>8</td>
<td>22</td>
<td>16</td>
<td>28</td>
<td>70</td>
<td>80</td>
<td>59</td>
<td>71</td>
<td>71%</td>
<td>India: GCE 'A' Level issued by the Department of Examinations</td>
<td>9</td>
<td>3.0</td>
</tr>
<tr>
<td>Environmental Engineering (B'(Sc)</td>
<td>8</td>
<td>22</td>
<td>16</td>
<td>28</td>
<td>70</td>
<td>80</td>
<td>59</td>
<td>71</td>
<td>71%</td>
<td>India: GCE 'A' Level issued by the Department of Examinations</td>
<td>9</td>
<td>3.0</td>
</tr>
<tr>
<td>Health, Safety and Environment (BSc)</td>
<td>5</td>
<td>15</td>
<td>15</td>
<td>24</td>
<td>60</td>
<td>70</td>
<td>53</td>
<td>65</td>
<td>65%</td>
<td>Sri Lanka: GCE 'A' Level issued by the Department of Examinations</td>
<td>5</td>
<td>2.5</td>
</tr>
<tr>
<td>Mechanical Engineering (BEng)</td>
<td>8</td>
<td>22</td>
<td>16</td>
<td>28</td>
<td>70</td>
<td>80</td>
<td>59</td>
<td>71</td>
<td>71%</td>
<td>India: GCE 'A' Level issued by the Department of Examinations</td>
<td>9</td>
<td>3.0</td>
</tr>
<tr>
<td>Petroleum Engineering (BEng)</td>
<td>8</td>
<td>22</td>
<td>16</td>
<td>28</td>
<td>70</td>
<td>80</td>
<td>59</td>
<td>71</td>
<td>71%</td>
<td>India: GCE 'A' Level issued by the Department of Examinations</td>
<td>9</td>
<td>3.0</td>
</tr>
</tbody>
</table>

**Cut-off scores key:**

- **GCE**: General Certificate of Education
- **STPM**: Sijil Tinggi Persekolahan Malaysia
- **IB**: International Baccalaureate
- **HKDSE**: Hong Kong Diploma of Secondary Education
- **India**: Includes all India Senior School Certificate awarded by the Central Board of Secondary Education (CBSE), Indian School Certificate (ISC) awarded by the Council for the Indian School Certificate Examination (CISCE), Higher School Certificate (HSC) awarded by one of the State School Board. Certificates awarded by the CBSE and the CISCE are generally considered to represent a higher level of achievement than state certificates.
- **Sri Lanka**: GCE 'A' level issued by the Department of Examinations

**Note:** scores for individual prerequisites may be taken into consideration for assessment purposes.

The entry requirements above serve as a guideline and subject to consideration for assessment purposes.

Study at Curtin’s largest international campus. Learn through practical experience. Become part of a multicultural environment. Prepare to succeed in a competitive professional market.

### THE CURTIN EXPERIENCE

**Enriching our courses**

Choosing a degree is a big decision, which is why we’ve made our undergraduate degrees even more flexible. You will have the freedom to follow your interests as you learn more about your field before choosing a major that suits your career goals.

Our Engineering degrees give you the opportunity to study in your area of interest without the pressure of choosing your major before you start your studies.

At Curtin Malaysia, you can choose from an extensive range of undergraduate and postgraduate courses and customise them to suit your needs, gain valuable work experience interacting with local and international industry professionals, learn from lecturers with real industry experience, and indlude in a unique international and cross-cultural learning environment studying with students from more than 45 countries.

Students who have successfully completed a relevant Diploma of Engineering course may receive up to one year advanced standing in the respective degree courses.

**Building a reputation**

You will find our campus offers the best possible facilities one would expect from Curtin’s first and largest international campus. In addition to being located in a modern, scenic city that is most conducive for tertiary studies, Curtin Malaysia offers a vibrant campus lifestyle with a mix of academic and social events.

They include a new auditorium, library, computing facilities, counselling service, choice of food and beverage outlets, health services, public transport, banking facilities, shops, secure student housing, a range of sports facilities, as well as a modern recreation and event centre.

**Assurance of quality**

We are renowned for our links with industry and business, and for the practical and applied nature of our courses. Our courses are endorsed by the Malaysian Ministry of Higher Education, Malaysian Qualifications Agency and Malaysian Public Services Department (PMA), and accredited by professional bodies, where applicable, ensuring wide recognition.

All the courses we offer are run using the same unit structure and study materials as the courses at the main campus in Perth, meaning that you can transfer between two campuses to complete your Curtin degree. When you graduate, you will have a degree that is recognised in more places around the world and will be able to complete further study at either campus to enhance your career prospects.
ENGINEERING CAREER FINDER

There’s no better time to start a career in engineering. Curtin’s four-year Bachelor of Engineering degree combines theoretical grounding with a practical focus to make sure you’re job-ready on graduation. You’ll start your degree with the Engineering First Year, which will prepare you for discipline-specific study in any of the following areas of engineering.

CHEMICAL ENGINEERING
Find the best sequence of chemical and physical processing operations, and the right operating conditions, to convert raw materials into higher-value products.

POSSIBLE CAREERS:
• Chemical / Process Engineer
• Bioprocess Engineer
• Metallurgical Engineer
• Process Safety Engineer
• Research & Development Engineer

COMPUTER SYSTEMS AND NETWORKING
Computer networks form the backbone of the modern information systems. This course has been designed to help you to fully understand computer network design and development technologies.

POSSIBLE CAREERS:
• System Design Engineer
• Systems Analyst
• IT Support Specialist
• Telecommunications Manager
• Network and System Administrator

CIVIL AND CONSTRUCTION ENGINEERING
Design and construct the infrastructure that is on or in the ground, and on which modern society depends.

POSSIBLE CAREERS:
• Municipal Engineer
• Construction Engineer
• Builder
• Project Builder

MECHANICAL ENGINEERING
Design and produce products and machines to harness the energy and forces that exists in nature.

POSSIBLE CAREERS:
• Mechanical engineer
• Mechanical engineer
• Electronic engineer
• Engineering data specialist

PETROLEUM ENGINEERING
Develop methods to increase oil and gas production from sub-surface reservoirs.

POSSIBLE CAREERS:
• Petroleum engineer
• Reservoir engineer
• Production/operation engineer
• Drilling engineer

ENVIRONMENTAL ENGINEERING
Research, design, plan, or perform engineering duties in the prevention, control, and remediation of environmental hazards using various engineering disciplines.

POSSIBLE CAREERS:
• Environmental Engineer
• Municipal Engineer
• Environmental Advisor

CONSTRUCTION MANAGEMENT
The Construction Management degree prepares you for a wide range of professional roles in the building and construction industry.

POSSIBLE CAREERS:
• Quantity surveyor
• Building technician
• Building surveyor
• Building contractor
• Project manager
• Construction manager
• Contracts administrator
• Estimator
• Facilities manager
• Property developer

APPLIED GEOLOGY
Geologists are concerned with how the Earth works, and the natural planetary processes and issues directly affecting people.

POSSIBLE CAREERS:
• Geologist
• Geological Engineer

ELECTRICAL AND ELECTRONIC ENGINEERING
Encompasses electrical power and control, electronic, telecommunication and computer systems.

POSSIBLE CAREERS:
• Electrical engineer
• Electronic engineer
• Network controller
• Communications engineer

COMPUTING:
Encompasses technologies, processes and practices designed to protect networks, computers, programmes and data from attack, damage or unauthorised access.

POSSIBLE CAREERS:
• Cyber security analyst
• Forensic computer analyst
• Software developer
• IT analyst
• Web application developer

SOFTWARE ENGINEERING
Application of a systematic, disciplined, and quantifiable approach to the development, operation and maintenance of software.

POSSIBLE CAREERS:
• Software engineer
• Software developer
• Games developer
• Analyst
• Algorithm designer
• Web applications developer

Detailed information is available online: engsci.curtin.edu.my
Over 1000 FREE parking spaces across the campus.
ENGINEERING FIRST YEAR

The Engineering First Year (EFY) programme prepares students to enter their second year in their chosen engineering discipline. EFY students learn mechanics, materials, electrical systems and mathematics which provide a strong fundamentals in order to design engineering solutions for the physical world. Engineering solutions also require a mathematical and logical mind.

Even the best engineering mind does not work in isolation. Now, more important than ever, engineers are expected to perform in teams and communicate with technical and non-technical people. In semester one and semester two of EFY, we put students into multi-cultural groups to design, build and present engineering solutions. These Problem Based Learning (PBL) approaches simulate the engineer’s working environment and better prepares students for their studies and the rigours of the working world.

One of the strengths of the EFY programme is students have the chance to change their course before entering second year. Many students enter the first year without a clear understanding of their chosen engineering discipline. With the EFY programme, students have one year to meet with senior students, academics and industry partners who can give a clearer and accurate sense of the many engineering disciplines offered in Curtin Malaysia. The student can then make the right choice in his or her career.

Student engineers who complete the EFY have demonstrated competence in engineering knowledge, worked in teams and communicated engineering designs. They are ready and able to continue their second year studies and in a few years transition from student engineer to graduate engineer.

BACHELOR OF ENGINEERING (HONOURS)

Chemical Engineering

Chemical Engineering covers the development, design and operation of chemical processes and plants for the extraction, conversion and recovery of materials that is based on both chemical and biological systems.

**CAREER OPPORTUNITIES**
- Chemical engineer
- Process engineer
- Production/operations engineer
- Risk and safety manager
- Corporate project manager
- Process engineer
- Project manager

**INDUSTRIES**
- Oil, gas and petrochemical
- Bioengineering and biotechnology
- Aerospace and automotive
- Agrichemical
- Food processing
- Mineral and material processing
- Pharmaceutical
- Semiconductor
- Water and wastewater treatment

**WHY CHEMICAL ENGINEERING?**
- Curtin Malaysia’s location in Miri, on the island of Borneo, and nearby the Sarawak Corridor of Renewable Energy (SCORE), provides ample opportunities for practical learning and exposure to underlying practices.
- The course has extensive support and collaboration from industry players.
- Curtin Malaysia is the first institution in Malaysia to be awarded the Miyafuji Medal for Excellence in Design Project (in 2006) by the Institution of Chemical Engineers (IChemE), UK.
- Curtin Malaysia Chemical Engineering students have emerged winners in a number of international and national competitions such as Honeywell UniSim Design Student Challenge.

Civil and Construction Engineering

Civil Engineering involves the application of basic scientific and technological principles to the design and construction of facilities necessary for the welfare of the community.

**CAREER OPPORTUNITIES**
- Civil Engineer
- Design Engineer
- Site Engineer
- Structural Engineer
- Building contractor

**INDUSTRIES**
- Construction
- Consulting
- Contracting
- Government
- Mining

**WHY CIVIL AND CONSTRUCTION ENGINEERING?**
- The qualification offers a high level of job mobility.
- The course has extensive support and collaboration from industry players.
- This professional and practically-orientated course is highly prized by graduates and respected by professional engineers.
- The course is a comprehensive combination of civil engineering and construction engineering.

EFY PROGRAMME STRUCTURE

<table>
<thead>
<tr>
<th>Year 1 Semester 1</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering Mechanics</td>
<td>25</td>
</tr>
<tr>
<td>Engineering Foundations – Principles and Communication</td>
<td>25</td>
</tr>
<tr>
<td>Calculus for Engineers</td>
<td>25</td>
</tr>
<tr>
<td>Engineering Materials</td>
<td>25</td>
</tr>
<tr>
<td>Total Credit</td>
<td>100</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 1 Semester 2</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrical Systems</td>
<td>25</td>
</tr>
<tr>
<td>Linear Algebra and Statistics for Engineers**</td>
<td>25</td>
</tr>
<tr>
<td>Engineering Foundations – Design and Processes</td>
<td>25</td>
</tr>
<tr>
<td>Engineering Programming</td>
<td>12.5</td>
</tr>
<tr>
<td>Select optional Units to the total value of 12.5 credits</td>
<td></td>
</tr>
<tr>
<td>Introduction to Renewable Energy*</td>
<td>12.5</td>
</tr>
<tr>
<td>Evolution Development Successes and Failures of Engineering</td>
<td>12.5</td>
</tr>
<tr>
<td>Total Credit</td>
<td>100</td>
</tr>
</tbody>
</table>

*NOTE: All students intend to pursue Bachelor of Engineering (Chemical Engineering) are encouraged to enrol for ELEN1001 Introduction to Renewable Energy and priority for enrolment will be given to Chemical Engineering.

4 Years full-time

PERTH, MALAYSIA

February, July Intake

Bachelor of Engineering (Civil and Construction Engineering) (Honours) 3PT/BPP(R/526/6/0053) 10/20

Civil and Construction Engineering

Bachelor of Engineering (Civil and Construction Engineering) (Honours) 3PT/BPP(R/526/6/0053) 10/20

4 Years full-time

PERTH, MALAYSIA

February, July Intake

Bachelor of Engineering (Chemical Engineering) (Honours) 3PT/BPP(R/524/6/0053) 10/20

4 Years full-time

PERTH, MALAYSIA

February, July Intake

Bachelor of Engineering (Honours) | 16
Electrical and Electronic Engineering

Bachelor of Engineering (Electrical and Electronic Engineering) (Honours)

JPT/BPP(R/522/6/0154) 10/20

Electrical and electronic engineering involves the applications of electrical energy, together with its generation, transmission and distribution, as well as the harnessing of renewable and sustainable energy.

WHY ELECTRICAL AND ELECTRONIC ENGINEERING?

- The course provides students with fundamental and state-of-art knowledge, relevant to industry with theory, computer simulation and practical components
- Excellent teaching staff, many with extensive industrial experience and strong collaboration with industry players present opportunities for exposure to industry practice

CAREER OPPORTUNITIES

- AI systems engineer
- Electrical engineer
- Electrical power engineer
- Electronics engineer
- Embedded systems engineer
- Instrument engineer
- Power systems engineer
- Telecommunication engineer

INDUSTRIES

- Application engineering
- Computer hardware design
- Electronic systems
- Fibre optics and mobile communication
- Manufacturing
- Robotics
- Software development
- Renewable energy

Environmental Engineering

Bachelor of Engineering (Environmental Engineering) (Honours)

Environmental Engineering

Within the broad scope of environmental engineering in Malaysia, areas earmarked for growth include water treatment, solid waste management (including industrial) and hazardous waste management, and domestic and industrial waste water treatment.

WHY ENVIRONMENTAL ENGINEERING?

- Our degree will equip you with an integrated knowledge of multiple engineering fields such as Chemical and Civil & Construction engineering in order to provide you with an innovative and creative engineering experience
- Curtin’s bachelor of Environmental Engineering course is a good balance of theoretical background and practical experience throughout the four years of study.
- You will experience great employment prospects as the demand for environmental engineers is growing rapidly in both the domestic and international market

CAREER OPPORTUNITIES

- Resident Engineer
- Public Health Engineer
- Site Remediation Engineer
- Landfill Engineer
- Water Supply / Resources Engineer
- Pollution Control Engineer
- Sustainable Development Executive
- Environmental Technical Contractor
- Waste Engineer
- Environmental Entrepreneur

Petroleum Engineering

Bachelor of Engineering (Petroleum Engineering) (Honours)

Petroleum Engineering

Upstream petroleum engineers are always in demand. Currently, reservoirs produce only about 30 per cent of their oil, so petroleum engineers are needed to develop methods to increase oil and gas production. Petroleum Engineering involves the production of oil and gas (hydrocarbons) from sub surface reservoirs which requires engineering to bring it to the surface, estimate its value and extract it, in other words, finding oil and gas, drilling and producing it.

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CAREER OPPORTUNITIES

- Petroleum engineer
- Drilling engineer
- Field operation engineer
- Production engineer
- Reservoir engineer
- Subsurface engineer
- Well completion engineer

INDUSTRIES

- Environmental management
- Government
- Health and safety
- Oil and gas
- Research and development
- Water treatment

Mechanical Engineering

Bachelor of Engineering (Mechanical Engineering) (Honours)

Mechanical Engineering addresses the analysis and development of technological systems involving motions, and permits humanity to harness the energy and forces that exist in nature, providing for the needs of society.

WHY MECHANICAL ENGINEERING?

- The course is highly directed towards developing fundamental knowledge and generic skills based training for a wide range of career opportunities in the engineering industry, management, and research and development
- The course has a well-maintained balance between theoretical skills and practical experience with up-to-date facilities for demonstrating concepts and their applications

CAREER OPPORTUNITIES

- Mechanical engineer
- Aeronautical engineer
- Mechatronic engineer

INDUSTRIES

- Aerospace and automotive
- Manufacturing
- Marine engineering
- Mining
- Mineral and material processing
- Plant operation and maintenance
- Power generation
- Robotics
- System design
- Transport
- Water supply

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INDUSTRIES

- Aerospace and automotive
- Manufacturing
- Marine engineering
- Mining
- Mineral and material processing
- Plant operation and maintenance
- Power generation
- Robotics
- System design
- Transport
- Water supply
BACHELOR OF APPLIED SCIENCE (HONS) | 19

Construction Management
Bachelor of Science (Construction Management) (Honours) JPT/BPP(N/30/6/0137) 05/23

The Construction Management degree prepares you for a wide range of professional roles in the building and construction industry.

This course is management-oriented and focuses on breadth of interrelated disciplines including domestic, commercial and civil construction. You will be taught by dedicated professionals.

**CAREER OPPORTUNITIES**
- Construction management
- Consultant
- Project manager
- Building technician
- Property developer
- Building surveyor

**INDUSTRIES**
- Building and construction
- Local government
- Infrastructure

4 Years full-time
PERTH, MALAYSIA
February, July Intake

BACHELOR OF APPLIED SCIENCE (HONS) | 20

Applied Geology
Bachelor of Science (Applied Geology) (Honours) JPT/BPP(N/26/6/0137) 05/23

In this 4 year course, you will combine a thorough grounding in theoretical and practical Geology with technical and commercial skills. The first year gives you a basic foundation in Chemistry, Physics, Maths, Scientific communication and computer skills, and an introductory to Geology. The second year focuses on the theoretical, laboratory and field skills required to understand geological processes. The third year provides comprehensive coverage of all applied disciplines of geology, including Basin Analysis and Petroleum Systems, Formation Evaluation, Petroleum Engineering and Sustainable development and Tectonics and Dynamic Earth. The final year (Honours) focuses on an independent dissertation and includes courses on Geoscience Professional Practice and Petroleum Engineering.

**CAREER OPPORTUNITIES**
- Geologist
- Geological engineer

**INDUSTRIES**
- Environmental geology
- Groundwater extraction
- Mineral and petroleum exploration
- Mining
- Natural hazards and risk analysis
- Radioactive waste storage
- Research and development

4 Years full-time
PERTH, MALAYSIA
February, July Intake

BACHELOR OF SCIENCE

Cyber Security
Bachelor of Science (Computing) Cyber Security JPT/BPP(N/441/6/0180) 05/23

Cyber Security encompasses technologies, processes and practices designed to protect networks, computers, programmes and data from attack, damage or unauthorised access.

**CAREER OPPORTUNITIES**
- Cyber security analyst
- Forensic computer analyst
- Software developer
- IT analyst
- Web application developer

**INDUSTRIES**
- Applications development
- Cyber security
- Game design and development
- IT analysis
- Software development

3 Years full-time
PERTH, MALAYSIA
February, July Intake

Software Engineering
Bachelor of Science (Computing) Software Engineering JPT/BPP(N/441/6/0180) 05/23

Software Engineering is the application of a systematic, disciplined, and quantifiable approach to the development, operation and maintenance of software.

**CAREER OPPORTUNITIES**
- Software engineer
- Software developer
- Games developer
- Analyst
- Algorithm designer
- Web applications developer

**INDUSTRIES**
- Applications development
- Cyber security
- Game design and development
- IT analysis
- Software development

3 Years full-time
PERTH, MALAYSIA
February, July Intake

Health, Safety and Environment
Bachelor of Science (Health, Safety and Environment) JPT/BPP(N/862/6/0080) 11/24

Health, Safety and Environment prepares you for a diverse career in expanding area of occupational health and safety. It helps to identify and manage workplace risks to ensure a safe and healthy environment. Health, Safety and Environment degree will develop professional skills in critical thinking, information literacy and technology.

**CAREER OPPORTUNITIES**
- Health and safety educator
- Health and safety environment officer
- Health and safety officer
- Health and safety workplace inspector

**INDUSTRIES**
- Engineering and construction
- Industrial services
- Local and state government
- Manufacturing
- Professional services
- Research and education
- Resources and energy
- Retail
- Transport
- Occupational Health and Safety Officer

3 Years full-time
PERTH, MALAYSIA
February, July Intake
BACHELOR OF TECHNOLOGY

Computer Systems and Networking

Bachelor of Technology (Computer Systems and Networking) [PT/UPPP(14/F/1/5/0687) 10/20]

There is currently a significant market demand for skills associated with the design of distributed computing environments and the networks that underpin them. Computer Systems and Networking is part of the technological field that requires the application of scientific and engineering knowledge and methods combined with technical skills in support of computer technology. The course offers a carefully designed curriculum to students to learn various topics. The programme is supported by specialist staff members, student associations and senior students. All new students are required to attend orientation programmes to assist them to settle in Miri and into the University environment. It includes information on enrolment procedures, study skills, campus facilities, support services, public transport, shopping and recreational activities.

CAREER OPPORTUNITIES
- Industrial network engineer
- IT professional
- Network and system administrator
- Systems designer
- Telecommunications manager

INDUSTRIES
- Finance and insurance
- Government
- Mining and production
- Operational technology
- Professional, scientific and technical services
- Public administration and safety

WHY COMPUTER SYSTEMS AND NETWORKING?
- Computer Systems and Networking graduates are highly sought after both nationally and internationally.
- The course offers a carefully designed curriculum to students to learn various Cisco components.
- Course offers industry-based skills and experience.
- Curtin Malaysia is the only Cisco certified provider in East Malaysia, allowing students to obtain Cisco Certified Network Associate and other Cisco qualifications.

how to apply

To Apply
1. Complete the online Application Form at futurestudents.curtin.edu.my/enquiry/
2. Printed Application Forms must be accompanied by certified copies of relevant documents.
3. Successful applicants will receive an Offer Pack which will include a Letter of Offer, Acceptance of Offer Form, Enrolment Form and Student Pass Application Pack.
4. The student pass application process would usually take ONE month. Upon approval, a Visa Approval Letter (VAL) from the Sarawak Immigration Department will be forwarded to you via courier.

Before leaving home
1. It is advisable to book an air ticket immediately after receiving Single Entry Visa (for international students only) or after accepting the offer (for domestic students only) as airline seats are in high demand before the start of each semester.
2. Wherever possible, arrange your itinerary to transit at Kuala Lumpur International Airport (KLIA), which is the main entry point to Malaysia, then travel to Miri within the same day.
3. Make arrangements for accommodation. To book campus accommodation, log on to accommodation.curtin.edu.my
4. To request the Airport Reception Service on arrival, you will need to complete the Airport Reception Service (ARS) Booking Form which is available at international.curtin.edu.my/the-international-division/airport-reception-service/
5. To ensure smooth immigration clearance at KLIA and Miri Airport, you will need to produce your passport, Letter of Offer from Curtin Malaysia, and Visa Approval Letter (VAL) from the Sarawak Immigration Department.

On arrival in Miri
1. If you have requested the Airport Reception Service, you will be met at Miri Airport and transported to your campus accommodation or short-term accommodation.
2. You are required to report to the Curtin Malaysia International Office during office hours, and will be assisted to open a bank account and make an appointment for medical check-up.
3. The University conducts an orientation programme to assist students to settle in Miri and into the University environment. It includes information on enrolment procedures, study skills, campus facilities, support services, public transport, shopping and recreational activities.

PERTH, MALAYSIA
February, July Intake

3 Years full-time

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6. You are then required to present the following documents to the Sarawak Immigration Department for Single Entry Visa endorsement:
   - Passport
   - Letter of Offer
   - Visa Approval Letter (VAL) from Sarawak Immigration Department

The programme is supported by specialist staff members, student associations and senior students. All new students are required to attend orientation programmes to assist them to settle in Miri and into the University environment. It includes information on enrolment procedures, study skills, campus facilities, support services, public transport, shopping and recreational activities.
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Ministry of Education Registration Number
KPT/3/PFAST/05/FY02 DULN003(Q)

MAPCU Membership No. C/038

For further information, contact:
Curtin University Malaysia
CDT250, 98009 Miri,
Sarawak, Malaysia.
Tel: +60 85 630 100 (General line)
+60 85 630 000 (Student enquiries)
Fax: +60 85 630 088
Email: enquiries@curtin.edu.my

engsci.curtin.edu.my