



# ENGINEERING, TECHNOLOGY AND QUANTITY SURVEYING



E-BROCHURE & MORE!  
SCAN HERE

# YOUR FUTURE BUILT TODAY

At INTI, our mission is to equip students with competencies for tomorrow, fostering leaders, innovators, and game-changers. We are committed to providing support and resources for the workplace of the future.

INTI INTERNATIONAL UNIVERSITY, PUTRA NILAI



INTI INTERNATIONAL COLLEGE SUBANG



INTI INTERNATIONAL COLLEGE PENANG



INTI COLLEGE SABAH

## INTERNATIONALLY ACCLAIMED: A RISING STAR!

2025 QS WORLD  
UNIVERSITY RANKINGS



INTI International University  
Awarded QS Rising Star 2025



QS Asia University Rankings 2024



35+  
YEARS

4  
CAMPUSES

13,000+  
STUDENTS

1,000+  
EMPLOYEES

91,000+  
GRADUATES



# WHY INTI?



## 1000+ Industry Partners

INTI collaborates with more than 1000 industry partners including local and global organisations such as IBM, Google, FedEx, Shell, Unilever, Intel, Microsoft, Huawei, SAS, DELL and more.



## 100% Internship Placement

Good academic results are no longer sufficient to ensure the employability of students, therefore work experience in the form of internships is steadily becoming more important.



## 2000+ World Class Employer Projects

More than 2000 world class employer projects since 2010



## Broad Range of Innovative Programmes

Accredited by the Malaysian Ministry of Education, INTI offers a wide range of innovative programmes from Pre-University to Postgraduate programmes.



## Career Development

INTI Leadership Series - One of INTI's signature events that features top leaders from highly successful companies speaking to INTI students on topics related to leadership, innovation, entrepreneurship and strategies relevant to today's business.



## Beyond Academic

INTI provides an enriching experience that enables students to find their true passion through on-campus events and activities organised by numerous clubs and societies. Through these activities, students are able to enhance their soft skills and talents.



## Vibrant Community

Immerse yourself in a diverse and vibrant international community of over 13,000 students from 100+ countries.



## World-Class Facilities

Experience unparalleled learning and growth in our signature world-class facilities and enjoy top-notch sports and recreational amenities for your well-being.

# SUCCEED GLOBALLY WITH THE INTI EDGE

THE **INTI**  
EDGE



## We Are INTERNATIONAL

Our internationally recognised education will enrich you with the right skills and attributes to excel at whatever you do and wherever you go.

### WORLD RENOWNED COLLABORATIONS WITH PRESTIGIOUS UNIVERSITIES

INTI offers exclusive franchise degrees and dual award degree programs in partnership with some of the world's highest-rated universities. These partnerships enhance your academic credentials and provide access to prestigious institutions of higher learning globally. With opportunities to learn from international lecturers, participate in joint projects, and embark on international study tours, you will gain a truly global educational experience.

Coventry University

University of Hertfordshire UH

Sheffield Hallam University  
Knowledge Applied

Southern New Hampshire University

SWINBURNE UNIVERSITY OF TECHNOLOGY

CY CERGY PARIS UNIVERSITÉ

AUSTRALIA



## INNOVATIVE Teaching & Learning

INTI integrates an array of proven approaches to teaching combined with revolutionary applications of technology in the classroom such as the innovative Canvas Learning Management System.



INTI uses Canvas as our Learning Management System (LMS), providing customizable tools to enhance teaching and learning for students and lecturers. This user-friendly platform supports collaborative digital learning environments, fostering a holistic educational experience.

Canvas's robust features — such as Rubrics, Modules, Calendars, Quizzes, Syllabi, Discussions, Analytics, and SpeedGrader — enable instructors to provide dynamic and personalized learning experiences. The integration of Turnitin with the AI Detector feature helps maintain academic integrity and ensures high-quality educational delivery.

INTI collaborates with industry partners like IBM, AWS, LGMS, SAS and Alibaba GDT to integrate industry content into the curriculum. This enriches course content, enhances learning outcomes, and makes education more engaging and practical.



## INDIVIDUAL Development

INTI endeavours to include practical experiences in every programme it offers. From practical workshops taught by local and international guest lecturers and industry practitioners who share the ins and outs of the working world, to hands-on practical projects initiated by potential employers.



**EMPLOYER PROJECTS**  
Real-World Experience



**INTI LEADERSHIP SERIES**  
Expert Insights



**INDUSTRY GUEST LECTURES**  
Professional Perspectives



**BOOTCAMPS**  
Intensive Training



**DESIGN THINKING MENTORSHIPS**  
Innovative Guidance



# COLLABORATION WITH INDUSTRY PARTNERS

Over the years, INTI has cultivated a strong engagement with multinational companies and large local organisations on diverse platforms to foster innovation curricula and develop future-ready graduates.

## The platforms include:

- Industry Awards / Scholarships
- Employer Projects
- Boot Camps and Career Workshops
- INTI Leadership Series
- Faculty Industry Attachments
- Coaching and Mentoring
- Industry Advisory Boards
- Industry Skills Certifications
- Employer Centric Curricula
- Internships and Job Placements

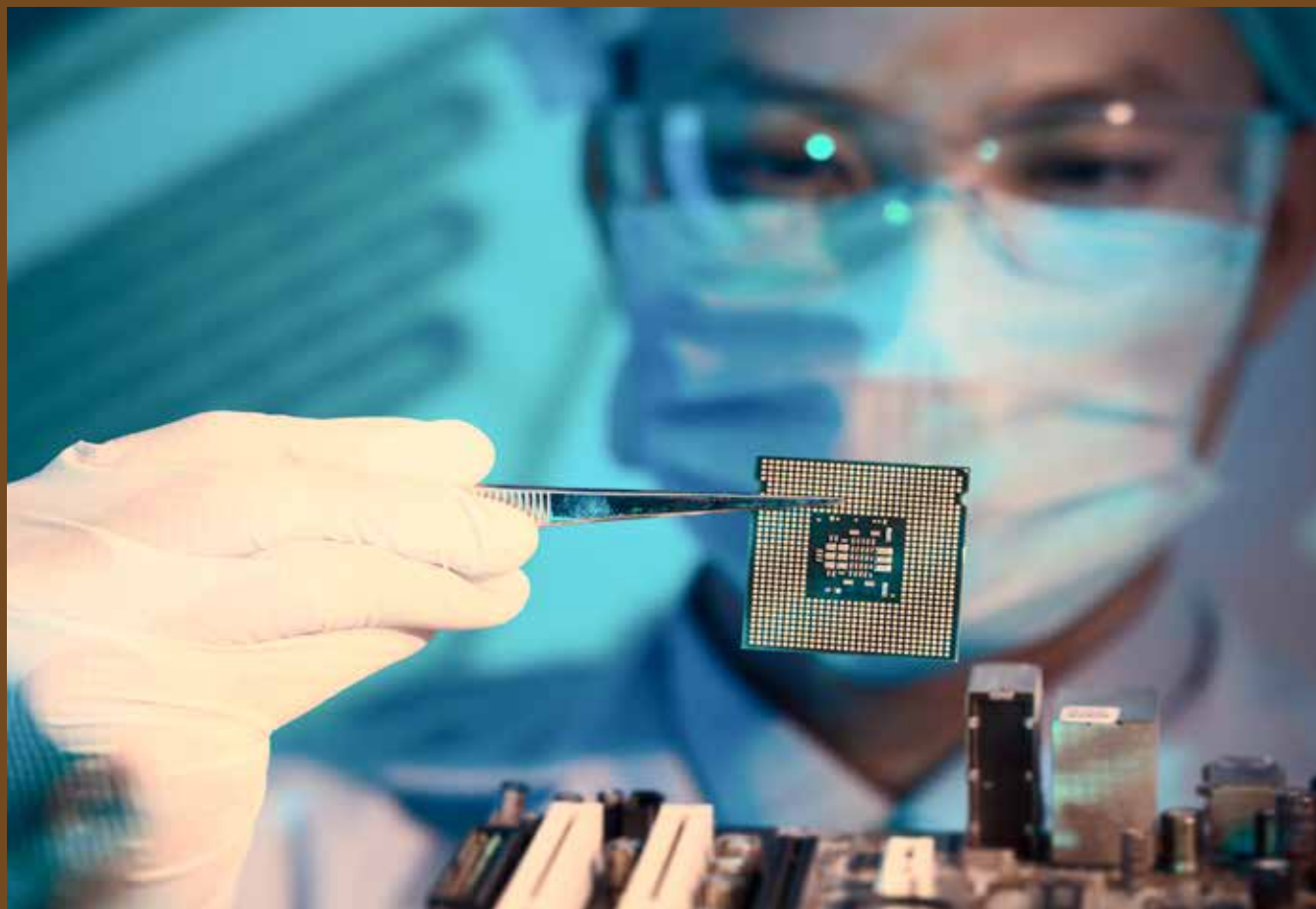




# BUILD YOUR FUTURE

The impact of engineering and technologies on the advancement of civilisation is innumerable. From the processors that run our smartphones, to the power plants that keep our cities lit, to the skyscrapers that seem to touch the sky and planes that travel across continents daily, the mastery and application of engineering and technical skills affects and improves every aspect of how we work, live, connect and travel.

As new technologies come into play so do new possibilities that arise for the next generation of engineers and technologists. By mastering the study and application of the art and science of engineering and technologies, you can improve every aspect of life itself while enjoying a successful career anywhere in the world. Secure the blueprint for your future and build your career with INTI.



## STRUCTURED INTERNSHIPS

As they will be a part of a highly practical discipline, engineers require extensive hands-on experience for their career advancement. INTI students from every engineering and technological specialisation are given the opportunity to participate in highly structured internships and gain actual insights into the intensive work environment of engineers and technologists. INTI's industry partners like Motorola, Intel, Keysight, Flex, Bosch, Inari, Knowles, Aemulus, Osram, Plexus, Lumileds, and Vitrox have provided internships for our Engineering students. Through these close collaborations with established employers, students gain invaluable work experiences even before they graduate and acquire the confidence and exposure they need to prepare them for working life.

## EMPLOYER PROJECTS

Throughout the course of their work, engineers and technologists often interact with professionals from other fields and across various disciplines while working under challenging conditions. To prepare them for the working world, students from INTI are assigned employer projects that span a 3-month period and reflect actual engineering and technological challenges encountered by today's global companies.

During this time, students will work with a multi-disciplinary team of fellow engineers, technologists, and other professionals to fulfil their assigned employer project. To date, INTI graduates have completed major projects with companies such as Motorola Solutions, Intel, Keysight, Robert Bosch, QAV, Knowles Electronics, Flex, and many more. Upon completion of these projects, students are given the opportunity to present their findings to their employers, including senior management teams from the organisation. Many of these employers have also gone on to implement the solutions presented, testifying to the quality and capabilities of INTI students. Exceptional students who excel during their employer projects are often offered positions even before they graduate.

## HIGHLY QUALIFIED ACADEMIC STAFF

INTI's faculty members are all professionally qualified engineers and technologists in various engineering disciplines. Collectively, the faculty has published multiple academic papers, with numerous invited as keynote speakers for industry and academic talks. These achievements are also instrumental in their efforts to ensure the high standards of excellence that the programme is known for.

## ENHANCEMENT PROGRAMMES

Employability in today's challenging workplace not only requires academic excellence but also a strong acumen in soft skills. INTI provides enhancement programmes that include training in Microsoft Office tools and effective communication skills. These add to the skills and capabilities graduates take with them when they enter the workplace.

# INDUSTRY CURRICULUM INTEGRATION AND INTERNATIONAL RECOGNITION

## ENGINEERING ACCREDITATION COUNCIL (EAC)

INTI International University Engineering Degrees are accredited by the Engineering Accreditation Council and recognised by the Board of Engineers Malaysia (BEM) which is a signatory to the Washington Accord. Recognition under the Washington Accord allows for INTI engineering programmes to be recognised by countries such as Australia, Canada, Taiwan, China, Ireland, Japan, South Korea, Malaysia, New Zealand, Singapore, South Africa, Turkey, Russia, the United Kingdom and the United States who are all signatories of the accord. This recognition is of paramount reputation to the engineering education in Malaysia as graduates from INTI International University under the Washington Accord signatory countries are considered as meeting the academic standard for practices in engineering at the international level. Please refer to [www.eac.org.my](http://www.eac.org.my)

## SINGAPORE INSTITUTE OF ENGINEERING TECHNOLOGISTS (SIET, SINGAPORE)

INTI International University Engineering Degrees are recognised by the Singapore Institute of Engineering Technologists. A SIET certification will let employers know that the certification earner has mastered a significant body of knowledge in a specific field he / she is engaged in the industry and has met specified eligibility requirements. This knowledge will serve as the springboard for a certification earner's continued professional development in his field in industry. As SIET certified professional you will broaden your knowledge base. You will be able to stand out from the crowd and may improve your options for being hired, promoted, and/or tapped for working on certain types of projects.



## GLODON

INTI is one of the first institutions of private learning to collaborate with Glodon, an internationally recognised industrial software system, to integrate its software into its curriculum. Glodon Building Information Modelling (BIM) software, Cubicost is a widely used BIM integrated solution for the construction industry players. Student will be exposed to the latest taking off method to meet market demands.



## MALAYSIA BOARD OF TECHNOLOGISTS (MBOT)

INTI International University Technology programmes are recognised by the Malaysia Board of Technologists (MBOT) which plays a crucial role in academic and career development for graduates by accrediting technical and vocational education programmes, ensuring they meet industry standards. Being a professional technologist under MBOT offers numerous benefits, including enhanced career credibility, access to professional development opportunities, and a network of industry experts. Certification by MBOT signifies adherence to high standards, fostering trust with employers and clients. Members also gain access to exclusive resources, continuous learning programmes, and industry updates, ensuring they remain competitive and knowledgeable in their fields. Additionally, MBOT's recognition supports career advancement and opens doors to global professional opportunities.



## TECHNOLOGY

The programmes are designed to equip students with the skills needed to manage projects related to the Fourth Industrial Revolution (IR4.0). This is achieved by integrating cutting-edge technologies, such as robotics, and fostering a comprehensive understanding of advanced digital equipment.

### Professional Accreditation

INTI's Technology programmes hold provisional accreditation from MBOT, empowering graduates to work in related technological fields and advance their careers as professional technologists. This accreditation ensures a pathway to professional recognition and career development in the technology sector.

## CIVIL ENGINEERING

INTI's undergraduate programmes for Civil Engineering empower you with the skills to design, develop, manufacture, construct and maintain civil engineering products, systems and services.

### Professional Accreditation

INTI's programmes are fully accredited by the Engineering Accreditation Council Malaysian (EAC), following the terms of the Washington Accord. They are also certified by the Chartered Association of Building Engineers UK (CABE) and by the Singapore Institute of Engineering Technologists (SIET). The Washington Accord entitles graduates to gain membership into the International Register of Engineers, while the CABE accreditation verifies that the programmes meet the regulated standards of Building Engineers. Recognition by SIET also means that the programme is of a high standard and quality which enables INTI graduates to seek employment anywhere in the world.

## MECHANICAL ENGINEERING

Almost every aspect of modern industry relies on mechanical engineering. Students pursuing this programme will master the skills needed to conceive and produce the moving parts, components and machinery required in every aspect of manufacturing, and will be exposed to the theoretical and practical aspects of this field.

### Professional Accreditation

INTI's Mechanical Engineering programmes have received full accreditation by the Engineering Accreditation Council (EAC) Malaysia under the Washington Accord. This attests to the reputability of the course contents and also confers membership to qualifying members to join the International Register of Engineers. Membership to the Register allows members to gain global access and the ability to work anywhere in the world.

### International Articulation

INTI students may continue their studies abroad in Australia at the University of Adelaide, or in the UK at the University of Portsmouth or the University of Hull.

## QUANTITY SURVEYING

The programme exposes students to cost planning, cost control, build development techniques, building research, measurement software application and more, which enable them to manage the financial and procurement processes of construction projects. INTI is one of the first institutions of private learning to collaborate with Glodon, an internationally recognised industrial software system, to integrate its software into its curriculum.

### Professional Accreditation

INTI's Quantity Surveying programmes have been recognised and fully accredited by the Royal Institution of Chartered Surveyors (RICS), UK and the Board of Quantity Surveyors, Malaysia (BQSM). This attests to the international standards upheld by the programmes and enables graduates to work anywhere in the world with their degree.

### International Articulation

Articulation agreements allow INTI students to continue their studies abroad at the University of Portsmouth in the UK. This enables students to enjoy a fresh perspective in the field of quantity surveying, and gain the opportunity to interact with fellow students in an exciting new environment.

## ELECTRICAL & ELECTRONIC ENGINEERING

The programme enables students to master a number of key competencies, including Electronic Circuit Analysis, Control Systems, Electric Machines & Electric Power Systems, Telecommunications as well as the application of ICT knowledge for engineering analysis, simulation and control in both public or private enterprise.

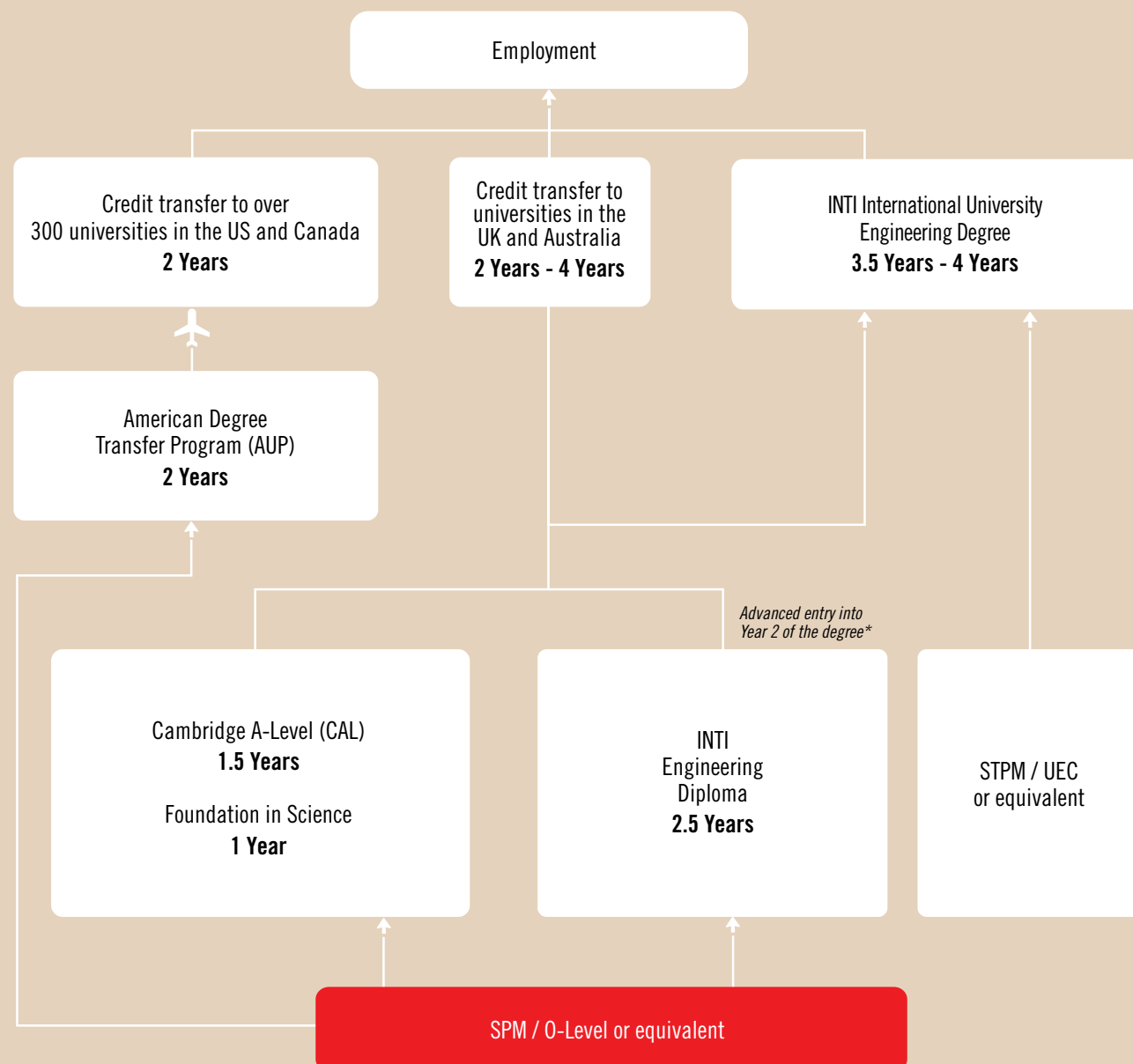
### Strategic Partnership with Industry Partners

All engineering students at INTI are given the opportunity to enrol into the structured internship programme with the industry. Students will gain more than a year industrial experience through this programme, whilst pursuing their studies.

### International Articulations

INTI students may continue their studies abroad in the UK at Sheffield Hallam University, the University of Hull, the University of Essex or the University of Portsmouth.

# INTI ENGINEERING PATHWAY



# ENTRY REQUIREMENTS

## APPLICABLE TO INTI INTERNATIONAL COLLEGES ONLY

### Foundation in Science Engineering Pathway

SPM / O-Level / Equivalent:  
5 credits including Mathematics and Physics

UEC / EQUIVALENT:  
3Bs including Mathematics and Physics

Note: Students are required to obtain a credit in BM and English at SPM / UEC prior to progressing to degree in Quantity Surveying

### Diploma in Mechanical Engineering Diploma in Electrical & Electronic Engineering

SPM / O-Level:  
3Cs including Mathematics and 1 Science or 1 Natural Science<sup>\*</sup> / Technical / Vocational subject and a pass in English

IGCSE O-Level:  
3Cs (including Mathematics and 1 Science or 1 Natural Science<sup>\*</sup> subject and pass in English)

UEC:  
3Bs (including Mathematics & 1 Science or 1 Natural Science<sup>\*</sup>, pass in English)

STPM / equivalent:  
Pass in STPM or equivalent with a pass in SPM Mathematics, English and 1 Science or 1 Natural Science<sup>\*</sup> / Technical / Vocational subject

### Diploma in Quantity Surveying

SPM / O-Level:  
3Cs (including Mathematics and Bahasa Malaysia or English)

UEC:  
3Bs (including Mathematics and Bahasa Malaysia or English)

### General English Language Requirements\*

- Credit in the English language subject at SPM / UEC level; or MUET Band 5; or a score of 196 (computer-based) / 525 (writing-based) / 69-70 (internet-based) in TOEFL; or Band 5.5 in IELTS
- In the event that the English language requirements are not met, student may be required to undertake additional English module(s) prior to or concurrently with the undergraduate programme, based on the University's decision.

### Master of Engineering in Electrical and Electronic Engineering 4+0, Coventry University, UK

STPM:  
CGPA 2.0 (with full pass in 2 subjects including Mathematics and 1 science subject AND a pass in English at SPM)

A-Level:  
3Bs including Mathematics and 1 of Physics/Chemistry/Electronic/Computer Science/Computing/Design Tech

SACE:  
Average of 55 including Mathematics and 1 science subject

UEC:  
5Bs including Mathematics and 1 science subject

Pre-U/Foundation/Matriculation:  
Pass recognised programme in related field with CGPA 2.0

CPU/Canadian Grade 12/Australian Year 12:  
Pass in 6 subjects with an average of 55 including Mathematics and 1 science subject

International Baccalaureate:  
Pass with minimum score 26/42 including Mathematics and 1 science subject

Diploma (Eng/Eng. Tech.):  
Pass with CGPA 2.0

### Master of Engineering in Mechanical Engineering 4+0, Coventry University, UK

STPM:  
CGPA 2.0 (with full pass in 2 subjects including Mathematics and 1 science subject)

A-Level:  
3Cs including Mathematics and 1 science subject

SACE:  
Average of 78 including Mathematics and 1 science subject

UEC:  
Pass Advanced Mathematics and 1 science subject AND pass in English

Pre-U/Foundation/Matriculation:  
Pass recognised programme in related field with CGPA 2.0

CPU:  
Pass in 6 subjects with an average of 72 including Mathematics and 1 science subject

International Baccalaureate:  
Pass in 6 subjects with minimum score of 26/42 including Mathematics and 1 science subject

Diploma:  
Pass with CGPA 2.0

English Language Requirements for Master of Engineering in Electrical and Electronic Engineering 4+0 / Master of Engineering with Honours in Mechanical Engineering 4+0, Coventry University, UK:

SPM English : Grade C  
GCE O-Level : Grade C  
English 1116 : Grade 1-6  
IELTS : Band 6.0 & above  
TOEFL : 500 & above  
UEC : Grade B

<sup>\*</sup> Not applicable for Diploma in Electrical and Electronic Engineering Programme.

<sup>\*</sup> International students holding equivalent academic qualifications but which are not conducted in English, are required to sit for the English Placement Test (EPT)



# ENTRY REQUIREMENTS

## APPLICABLE TO INTI INTERNATIONAL UNIVERSITY ONLY

### Foundation in Science *Engineering Pathway*

SPM / O-Level / Equivalent:  
5 credits including Mathematics and Physics

UEC / EQUIVALENT:  
3Bs including Mathematics and Physics

Note: Students are required to obtain a credit in BM and English at SPM / UEC prior to progressing to degree in Quantity Surveying

### Diploma in Civil Engineering Diploma in Mechanical Engineering

SPM / O-Level:  
Pass SPM and minimum three (3) subjects at Grade C including Mathematics and 1 natural science subject (Physics / Chemistry / Biology / General Science) or technical based subject and a pass in English

UEC:  
Pass UEC and minimum three (3) subjects at Grade B including Mathematics and 1 natural science subject (Physics / Chemistry / Biology / General Science) or technical based subject and a pass in English

STPM or its equivalent:  
Pass STPM or its equivalent and pass Mathematics, English, and 1 natural science subject (Physics / Chemistry / Biology / General Science) or technical based subject at the SPM level

Matriculation:  
Matriculation in Technical or Science Stream

Others:  

- Accredited Certificate in Engineering, Engineering Technology, Technical or Malaysian Skills Certificate Level 3 with PT3 or equivalent, or
- Recognised related Technical / Vocational / Skills qualification and an adequate and relevant bridging programme

Other equivalent qualifications as recognized by the government of Malaysia

### Diploma in Quantity Surveying

SPM / O-Level:  
3Cs (including Mathematics and Bahasa Malaysia or English)

UEC:  
3Bs (including Mathematics and Bahasa Malaysia or English)

### Technology Degree

STPM:  
Pass STPM with minimum Grade C in 2 subjects

A-Level:  
Pass A-Level with minimum Grade D in 2 subjects

UEC:  
Pass UEC with minimum Grade B in 5 subjects

Foundation:  
Pass Foundation with a minimum CGPA of 2.0

Diploma / Advanced Diploma:  
A minimum CGPA of 2.0 in a related field

STAM:  
Pass STAM with a minimum of Grade Jayyid

Other equivalent qualification as recognised by the government of Malaysia.

### Engineering Degree

STPM:  
Pass STPM and minimum Grade C in Mathematics and 1 natural sciences subject (Physics / Chemistry / Biology)

A-Level:  
Pass A-Level and minimum Grade C in Mathematics and 1 natural sciences subject (Physics / Chemistry / Biology)

UEC:  
Minimum five (5) subjects at Grade B including Mathematics and 1 natural sciences subject (Physics / Chemistry / Biology)

Local Matriculation:  
Pass Matriculation and a minimum CGPA of 2.0 in Technical or Science Stream

Foundation:  
Pass Foundation and a minimum CGPA of 2.0 in Technical or Science Stream

Diploma / Advanced Diploma / Degree:  
A minimum CGPA of 2.0 in a related field

- The amount of credit transfer given is subjected to the school's discretion after reviewing the programme, transcript, and syllabus.
- The maximum credit transfer available depends on the limits set by the programme accreditation body (EAC).

American Degree Transfer Programme:  
Completion of the programme and a minimum CGPA of 2.0

International Baccalaureate:  
A minimum score of 26 / 42 points and pass in Mathematics and 1 natural sciences subject (Physics / Chemistry / Biology)

SACE:  
A minimum ATAR of 60 and pass in Mathematics and 1 natural sciences subject (Physics / Chemistry / Biology)

NSW(HSC):  
A minimum ATAR of 60 and pass 10 units including Mathematics and 1 natural sciences subject (Physics / Chemistry / Biology)

Australian Matriculation (AUSMAT):  
A minimum ATAR of 60 and pass in Mathematics and 1 natural sciences subject (Physics / Chemistry / Biology)

Ontario Secondary School Diploma / Canadian Pre-University (CPU):  
A minimum average of 60 and pass in Mathematics and 1 natural sciences subject (Physics / Chemistry / Biology)

Other equivalent qualifications as recognised by the government of Malaysia.

### Bachelor of Science (Hons) Quantity Surveying

Foundation:  
CGPA 2.50 and above

Diploma:  
CGPA 2.67 and above

STPM:  
3 grade C (NGMP 2.0) and above

SACE:  
5 subjects with ATAR 70

NSW-HSC:  
10 subjects with ATAR 70 and above

TEE:  
4 or 5 subjects with ATAR 70 and above

ATAR:  
Year 12 with 70 and above

CPU:  
6 subjects with average score of 65 and above

A-Level:  
3 subjects with minimum grade D

Canadian Ontario Pre-U  
(Ontario Senior Secondary Diploma):  
Minimum 65%

Monash University Foundation Year (MUFY):  
Minimum 55%

International Baccalaureate Diploma (IBD):  
Minimum 24 points

Plus:  
SPM / O-Level / UEC or other equivalent with 3 credits including Mathematics and Bahasa Malaysia or English

UEC:  
5 subjects with grade B and above including Mathematics and Bahasa Malaysia or English. (SPM is not required)

### **General English Language Requirements\***

- Credit in the English language subject at SPM / UEC level; or MUET Band 3.5; or a score of 196 (computer-based) / 525 (writing-based) / 69-70 (internet-based) in TOEFL; or Band 5 in IELTS
- In the event that the English language requirements are not met, student may be required to undertake additional English module(s) prior to or concurrently with the undergraduate programme, based on the University's decision.



# FOUNDATION IN SCIENCE

Students are prepared for admission into engineering-related degrees at INTI. They will be equipped with a solid fundamental knowledge of their fields of studies, which include Physics, Chemistry, Mathematics, English and Basic Computing.

## Learning approach

Students will be introduced to Problem-based Learning, group discussions and projects to help them develop study skills, presentation skills, research skills and time management. This will further enhance their critical and analytical skills and prepare them for the demands of tertiary studies and the working world.

## Assessment

Assessment of individual courses in the Foundation Programme consists of two components:

- Continuous coursework (50%)
- Final examination (50%)

The continuous coursework component comprises different tasks such as projects, assignments, laboratory work, presentations and tests, and others assigned throughout each semester. The final examination is conducted at the end of each semester. The assessments are subject to quality assurance procedures to maintain high standards and ensure fair assessment.

## Offered at

INTI International University  
(R3/0011/3/0055)(03/29)(A10019)

**INTAKES: JAN, MAY & AUG**

INTI International College Subang  
(R/010/3/0445)(04/27)(MQA/FA8898)

INTI International College Penang  
(R/010/3/0422)(09/28)(MQA/FA8334)

**INTAKES: JAN, APR & AUG**

## Duration

1 Year

## Programme structure

- Chemistry 1
- Chemistry 2\*
- English Language Skills 1
- English Language Skills 2\*
- General Studies
- Mathematics 1
- Mathematics 2\*
- Self-Development Skills
- Skills for Creative Thinking

### Elective papers for Biological Science/ Bioscience## Pathway

- Basic Computing
- Biology 1
- Biology 2
- Statistics

### Elective papers for Pure Science/ Other Science Area# Pathway

- Biology 1
- Biology 2
- Physics 1
- Physics 2

### Elective papers for Engineering Pathway

- Physics 1
- Physics 2
- Engineering Mechanics
- Basic Computing

*\*Prerequisite applies*

# DIPLOMA IN QUANTITY SURVEYING

## Programme accredited by Royal Institution of Surveyors Malaysia

Students are provided with a foundation in the quantity surveying practice. Quantity surveying is developed progressively from the elementary concepts underlying planning, estimates and measurement of building materials as per the Standard Method of Measurement and MYSM, preparation of tender documents, cost control, cost analysis, contract administration and management of building production in the construction industry. They are prepared with the skills to undertake a wider role in multi-disciplinary teams and a leading role in providing appropriate professional services that maximise value and minimise risk.

## Highlights

- Recognised by Singapore Institute of Engineering Technologists, Singapore\*\*
- Well received by the UK and Australian universities
- Provides the latest teaching methods to meet market demands
- Receives full accreditation from MQA (Malaysian Qualifications Agency), RISM (Royal Institution of Surveyors Malaysia) and BQSM (Board of Quantity Surveyors, Malaysia)

## Career opportunities

Assistant Quantity Surveyor, Contract Executive, BIM Consultant / Executives, Procurement Executives, Site Quantity Surveyor, Sales Executive (Supplier)

## Offered at

INTI International University  
(R2/526/4/0094)(07/25)(MQA/FA4552)

**INTAKES: JAN, MAY & AUG**

INTI International College Subang  
(R/0724/4/0030)(03/2026)(MQA/FA6628)

**INTAKES: JAN, APR & AUG**

## Duration

2.5 Years (Full-time)

## Programme structure

### Level 1

- Technical English
- Technical Drawing
- Construction Technology 1
- Construction Material
- Quantitative Methods
- Measurement 1
- Construction Contracts and Law
- Building Services
- Principles of Economics
- Principles of Information Technology
- Construction Technology 2

### Level 2

- Financial Management for Construction
- Measurement 2
- Estimating
- Construction Technology 3
- Advanced Construction Contracts and Law
- Measurement 3
- Professional QS Practice 1
- Project - QS & Construction
- Property and Building Economics
- Project Management for Construction
- Professional QS Practice 2

## Internship

## MPU subjects (For University)

### 1. Compulsory

- Appreciation of Ethics and Civilisations (Local students) / Communicating in Malay 1B (International students)
- Integrity and Anti-Corruption
- Co-curriculum
- Bahasa Kebangsaan A\*

### 2. Electives (choose one)

- Green Future Malaysia
- Media Literacy for Personal Branding

## MPU subjects (For College)

- Appreciation of Ethics and Civilisations (Local students) / Malay Communication 1B (International students)
- Bahasa Kebangsaan A\* / Sustainable Living
- Integrity and Anti-Corruption
- Co-curriculum

\* Applicable to INTI International College Penang only.  
# Applicable to INTI International University only.

\* For Malaysian students who do not have a credit in SPM BM.  
\*\* Only applicable for Nilai campus

# DIPLOMA IN CIVIL ENGINEERING

Students are provided with a solid foundation in computing, mathematical, drawing and communication skills and the basics of civil engineering disciplines. They will be equipped with skills to design, develop, manufacture, construct and maintain civil engineering products, systems and services.

We also help students develop multi-disciplinary teamwork and leadership skills, as well as proficiency in written and oral communication.

This programme covers a comprehensive range of courses, including soft skills training and internships with reputable civil engineering-based companies, and classroom learning with reference to industrial-related projects.

The programme meets the guidelines set by the Malaysian Qualifications Agency (MQA), and has been granted full accreditation by MQA since 2001.

*\* For Malaysian students who do not have a credit in SPM BM.*

## Highlights

- Accredited by the Engineering Technology Accreditation Council (ETAC), a delegated body by the Board of Engineers Malaysia established in ensuring Malaysia's ETAC accredited engineering diploma programmes are substantially equivalent to the engineering degrees of the signatories of the Sydney Accord and Dublin Accord
- Recognised by Singapore Institute of Engineering Technologists, Singapore
- Well recognised by the UK and Australian universities
- Credits can be transferred to the Bachelor of Civil Engineering With Honours programme
- Soft skills and internships provide students with transferable skills and working experience

## Career opportunities

Clerk-of-Work, Construction Project Coordinator, Engineering Design Assistant, Product Engineer, Site Engineer Assistant, Site Safety Officer, Technical Site Supervisor

## Offered at

INTI International University  
(R3/0716/4/0004)(04/29)(MQA/FA11910)

INTAKES: JAN, MAY & AUG

## Duration

2.5 Years

## Programme structure

### Level 1

- Physics
- Programming and Robots
- English Communication Skills
- Surveying 1 (Theory & Practice)
- Highway Engineering and Traffic
- Material for Civil Engineering
- Engineering Static
- Engineering Drawing
- Mathematics 1
- Mathematics 2

### Level 2

- Civil Engineering Drawing
- Strength of Material
- Soil Mechanics
- Civil Engineering Fundamental
- Structural Analysis
- Construction Technology and Management
- Project-Civil Engineering
- Steel and Reinforced Concrete Design
- Fluid Mechanics

## Internship

## MPU subjects

### 1. Compulsory

- Appreciation of Ethics and Civilisations (Local students) /Communicating in Malay 1B (International students)
- Integrity and Anti-Corruption
- Co-curriculum
- Bahasa Kebangsaan A\*

### 2. Electives (choose one)

- Green Malaysia: Innovations for a Sustainable Future
- Personal Branding with Media Literacy

# DIPLOMA IN ELECTRICAL & ELECTRONIC ENGINEERING

Students are introduced to basic electrical & electronic engineering principles with hands-on experiences to emphasise on the areas of electronic circuit analysis, control systems, electrical machines and electric power systems, as well as telecommunications. Students are also able to develop the ability to apply ICT knowledge in engineering analysis, simulation and control through various software such as C++ and MATLAB.

## Highlights

- Accredited by the Engineering Technology Accreditation Council (ETAC), a delegated body by the Board of Engineers Malaysia established in ensuring Malaysia's ETAC accredited engineering diploma programmes are substantially equivalent to the engineering degrees of the signatories of the Sydney Accord and Dublin Accord
- Provides sophisticated knowledge in the Electrical and Electronic field
- Practical emphasis through laboratory work and computer-aided design software
- First-hand practical experience through Final Year Project and Internship

## Career opportunities

Design, Research or Development Engineer Assistant, Production Engineer, Service Engineer, Technical Support Engineer

## Duration

2.5 Years

## Offered at

INTI International College Penang  
(R3/0713/4/0015)(03/29)(MQA/FA14752)

INTAKES: JAN, APR & AUG

## Programme structure

### Level 1

- Analogue Electronics
- Circuit Theory & Electronic Devices
- Engineering Drawing
- Engineering Mathematics 1
- Engineering Mathematics 2
- Engineering Mathematics 3
- Physics
- Programming Fundamentals
- Introduction to Python Programming
- Introduction to Programmable Logic Controller

### Level 2

- Electric Power Systems & Machines
- Introduction to Artificial Intelligence
- Introduction to Digital Electronics
- Introduction to Embedded Systems
- Introduction to Power Electronics & Drives
- Modern Control Systems Engineering
- Object Oriented Programming
- Professional Development
- Project
- Fundamentals of Networking

## Internship

## MPU subjects

- Appreciation of Ethics and Civilisations (Local students) / Malay Communication 1B (International students)
- Bahasa Kebangsaan A\* / Sustainable Living
- Integrity and Anti-Corruption
- Co-curriculum

*\* For Malaysian students who do not have a credit in SPM BM.*



# DIPLOMA IN MECHANICAL ENGINEERING (FULL-TIME)

Students are provided with foundation skills needed to conceive and produce the moving parts, components and machinery in every aspect of manufacturing. They will be equipped with broad-based mechanical engineering knowledge in both theoretical and practical aspects. This programme covers a comprehensive range of courses in mechanical engineering.

\* For Malaysian students who do not have a credit in SPM BM.  
\*\* Only available at Nilai and Penang.

### Highlights

- Accredited by the Engineering Technology Accreditation Council (ETAC)\*\*; a delegated body by the Board of Engineers Malaysia established in ensuring Malaysia's ETAC accredited engineering diploma programmes are substantially equivalent to the engineering degrees of the signatories of the Sydney Accord and Dublin Accord
- Recognised by Singapore Institute of Engineering Technologist, Singapore\*\*
- Well recognised by UK and Australian Universities
- Soft skills and internships provide students with transferable skills and working experience
- Credits can be transferred to the Bachelor of Mechanical Engineering With Honours programme

### Career opportunities

Mechanical Engineer Assistant, Automotive Engineer Assistant, Application Engineer Assistant, Sales Engineer Assistant, Mould Design Assistant, Process Technician, Maintenance Technician, QA / QC Assistant

### Duration

2.5 Years (Full-time)

### Offered at

INTI International University  
(R3/0714/4/0010)(03/29)(MQA/FA11911)

INTAKES: JAN, MAY & AUG

### Programme structure

#### Level 1

- Technopreneurship
- Engineering Drawing
- Engineering Statics
- English Communication Skills
- Mathematics 1
- Mathematics 2
- Physics
- Programming and Robots
- Structures & Properties of Materials
- Workshop 1

#### Level 2

- Engineering Dynamics
- Engineering Drawing 2
- Fluid Mechanics
- Introduction to Control Systems
- Mechanics of Engineering Material
- Circuit Theory
- Mechanics of Machines
- Professional Development
- Project – Mechanical Engineering
- Thermodynamics
- Thermofluid Lab
- Workshop 2

### Internship

### MPU subjects

#### 1. Compulsory

- Appreciation of Ethics and Civilisations (Local students) / Communicating in Malay 1B (International students)
- Integrity and Anti-Corruption
- Co-curriculum
- Bahasa Kebangsaan A\*

#### 2. Electives (choose one)

- Green Malaysia: Innovations for a Sustainable Future
- Personal Branding with Media Literacy

### Offered at

INTI International College Subang  
(R3/0714/4/0009)(09/29)(MQA/FA13041)

INTI International College Penang  
(R/521/4/0143)(09/2028)(MQA/FA8568)

INTAKES: JAN, APR & AUG

### Programme structure

#### Level 1

- Engineering Mathematics 1
- Engineering Mathematics 2
- Engineering Mathematics 3
- Physics
- Technical English
- Programming Fundamentals
- Engineering Statics
- Engineering Dynamics
- Mechanics of Engineering Materials
- Engineering Drawing
- Computer Aided Design
- Materials Science

#### Level 2

- Professional Development
- Electrical Power & Machines
- Engineering Thermodynamics
- Applied Thermodynamics and Heat Transfer
- Fluid Mechanics
- Machine Components Design
- Workshop Technology and Workshop Practices
- Project – Mechanical Engineering A
- Project – Mechanical Engineering B

### Internship

### MPU subjects

- Appreciation of Ethics and Civilisations (Local students) / Malay Communication 1B (International students)
- Bahasa Kebangsaan A\* / Sustainable Living
- Integrity and Anti-Corruption
- Co-curriculum

# DIPLOMA IN MECHANICAL ENGINEERING (PART-TIME)

Students are provided with foundation skills needed to conceive and produce the moving parts, components and machinery in every aspect of manufacturing. They will be equipped with broad-based mechanical engineering knowledge in both theoretical and practical aspects. This programme covers a comprehensive range of courses in mechanical engineering.

\* For Malaysian students who do not have a credit in SPM BM.

### Highlights

- Access to industry-relevant learning, preparing you for real-world challenges
- Experienced faculty and personalised support
- Soft skills and internships provide students with transferable skills and working experience
- Credits can be transferred to the Bachelor of Mechanical Engineering with Honours programme
- Well recognised by UK and Australian universities

### Career opportunities

Mechanical Engineer Assistant, Automotive Engineer Assistant, Application Engineer Assistant, Sales Engineer Assistant, Mould Design Assistant, Process Technician, Maintenance Technician, QA / QC Assistant

### Duration

3.5 Years (Part-time)

### Offered at

INTI International College Subang  
(N/0714/4/0005)(06/28)(MQA/PA16384)

INTAKES: JAN, APR & AUG

### Programme structure

#### Level 1

- Engineering Mathematics 1
- Engineering Mathematics 2
- Engineering Mathematics 3
- Physics
- Technical English
- Programming Fundamentals
- Engineering Statics
- Engineering Dynamics
- Mechanics of Engineering Materials
- Engineering Drawing
- Computer Aided Design
- Materials Science

#### Level 2

- Professional Development
- Electrical Power & Machines
- Engineering Thermodynamics
- Applied Thermodynamics and Heat Transfer
- Fluid Mechanics
- Machine Components Design
- Workshop Technology and Workshop Practices
- Project – Mechanical Engineering A
- Project – Mechanical Engineering B

### Internship

### MPU subjects

- Appreciation of Ethics and Civilisations (Local students) / Malay Communication 1B (International students)
- Bahasa Kebangsaan A\* / Sustainable Living
- Integrity and Anti-Corruption
- Co-curriculum

# BACHELOR OF CIVIL ENGINEERING WITH HONOURS

Students will gain knowledge of various civil engineering fields, such as structural analysis and design, material engineering, geotechnical and soil mechanics, hydraulics and hydrology in water engineering, highway and traffic engineering, as well as exposure to construction project management, contracts and estimating of costs.

We also provide soft skills training as well as internships at reputable civil engineering-based companies, and classroom learning with reference to industrial-related projects.

Accredited by Board of Engineers Malaysia (BEM) Engineering Accreditation Council (EAC).

*Note: Please refer to [www.eac.org.my](http://www.eac.org.my) for more information about EAC.*  
*\* For Malaysian students who do not have a credit in SPM BM.*  
*\*\* For offering of electives, please consult the Head of Programme.*

### Highlights

- The programme receives full accreditation by the Engineering Accreditation Council (EAC) Malaysia under the Washington Accord.

*The Washington Accord, signed in 1989, is an international agreement among bodies responsible for accrediting engineering degree programs. It recognizes the substantial equivalency of programs accredited by those bodies and recommends that graduates of programs accredited by any of the signatory bodies be recognized by the other bodies as having met the academic requirements for entry to the practice of engineering, normally of four years duration. Washington Accord Signatories have full rights of participation in the Accord; qualifications accredited or recognized by other signatories are recognized by each signatory as being substantially equivalent to accredited or recognized qualifications within its own jurisdiction.*

- Course incorporates the needs of industries
- Industrial lectures by leaders of the engineering industry
- Soft skills and internships to provide students with transferable skills and working experience
- Recognised by Singapore Institute of Engineering Technologists, Singapore

### Career opportunities

Consulting Engineer, Design Engineer, Research or Development Engineer, Project Manager, Risk Analyst, Contractor, Developer, Civil Engineering Product Specialist, Government Civil Service, University Lecturer and Professor

### Offered at

INTI International University  
(R3/526/6/0040)(06/30)(MQA/FA4368)

INTAKES: JAN, MAY & AUG

### Duration

4 Years

### Programme structure

#### Year 1

- Professional Development
- Civil Engineering Materials
- Engineering Geology
- Soil Mechanics
- Engineering Drawing
- Engineering Mathematics 1
- Engineering Mathematics 2
- Engineering Statics
- Introduction to Programming
- University English

#### Year 2

- Geotechnical Engineering
- Engineering Hydrology
- Analytical Methods
- Civil Engineering Drawing
- Engineering Dynamics
- Fluids Mechanics
- Mechanics of Materials
- Structural Analysis
- Surveying

#### Year 3

- Structural Analysis II
- Engineering Perspectives
- Construction Technology
- Environmental Engineering
- Design of Structural Steelwork
- Estimating & Contract
- Foundation in Engineering
- Highway & Traffic Engineering
- Industrial Training
- Open Channel Hydraulics
- Reinforced Concrete Design

#### Year 4

- Integrated Engineering Design Project
- Elective I
- Elective II
- Final Year Project I
- Final Year Project II
- Water and Waste Water Systems
- Engineering Economics
- Project Management for Civil Engineering

#### General Elective\*\*

- Advanced Highway Engineering
- Advanced Steel Design
- Reinforced and Prestressed Concrete Design
- Water Engineering

### MPU subjects

#### 1. Compulsory

- Appreciation of Ethics and Civilisations (Local Students) / Communicating in Malay 2 (International Students)
- Philosophy and Current Issues
- Integrity and Anti-Corruption
- Community Service
- Bahasa Kebangsaan A\*

#### 2. Electives (choose one)

- Social Entrepreneurship
- CSR Excellence: Building Responsible Enterprises

# BACHELOR OF MECHANICAL ENGINEERING WITH HONOURS

Students will be prepared for careers in energy transfer and analysis, machine and electromechanical designs, manufacturing and production, ergonomics and man-machine symbiosis, environmental design and analysis as well as new technologies such as robotics and numerical control machining.

The mechanical engineering discipline expects its alumni, who, after being involved in the industry or academia for at least 4 years:

- To assume positions of technical expertise in mechanical engineering and related fields
- To remain committed to professional development

Accredited by Board of Engineers Malaysia (BEM) Engineering Accreditation Council (EAC).

*Note: Please refer to [www.eac.org.my](http://www.eac.org.my) for more information about EAC.*  
*\* For Malaysian students who do not have a credit in SPM BM.*  
*\*\* For offering of electives, please consult the Head of Programme.*

### Highlights

- The programme receives full accreditation by the Engineering Accreditation Council (EAC) Malaysia under the Washington Accord.

*The Washington Accord, signed in 1989, is an international agreement among bodies responsible for accrediting engineering degree programs. It recognizes the substantial equivalency of programs accredited by those bodies and recommends that graduates of programs accredited by any of the signatory bodies be recognized by the other bodies as having met the academic requirements for entry to the practice of engineering, normally of four years duration. Washington Accord Signatories have full rights of participation in the Accord; qualifications accredited or recognized by other signatories are recognized by each signatory as being substantially equivalent to accredited or recognized qualifications within its own jurisdiction.*

- Course incorporates the needs of industries
- Industrial lectures by leaders of the engineering industry
- Students gain industrial experience through industry visits and internship
- Students are equipped with transferable skills and industrial experience after completion of the course
- Member of Institution of Mechanical Engineers (iMechE) Student Chapter

### Career opportunities

Mechanical / Manufacturing Engineer, Oil / Gas Engineer, Automotive Engineer, Design Engineer, Technical Support Engineer

### Offered at

INTI International University  
(R3/521/6/0056)(02/30)(MQA/FA4088)

INTAKES: JAN, MAY & AUG

### Duration

4 Years

### Programme structure

#### Year 1

- Electrical Circuits
- Engineering Drawing
- Engineering Materials
- Engineering Mathematics 1
- Engineering Mathematics 2
- Engineering Perspectives
- Engineering Statics
- Introduction to Programming
- University English

#### Year 2

- Analytical Methods
- Electronics & Microprocessor
- Electrical Power & Machines
- Engineering Dynamics
- Fluid Mechanics 1
- Fluid Mechanics 2
- Machine Drawing
- Solid Mechanics
- Thermodynamics 1
- Thermodynamics 2

#### Year 3

- Design of Machine Elements
- Engineering Design Project
- Engineering Economics
- Heat Transfer
- Industrial Training
- Instrumentation & Control
- Manufacturing Processes
- Mechanics and Materials
- Operations and Quality Management

#### Year 4

- Engineering Elective 1
- Engineering Elective 2
- Final Year Project
- Professional Practice
- Project Management & Product Development
- Sustainable Energy Systems
- Vibration

#### General elective\*\* subjects

- Air Conditioning and Refrigeration
- Computational Thermofluids
- Low Carbon Economy
- Ergonomics
- Finite Element Method
- Hydraulics and Pneumatics
- Manufacturing Systems
- Robotics
- Internal Combustion Engines
- Corrosion Science and Engineering

#### Oil and Gas elective\*\* subjects

- Air Conditioning and Refrigeration
- Computational Thermofluids
- Corrosion Science and Engineering

### MPU subjects

#### 1. Compulsory

- Appreciation of Ethics and Civilisations (Local Students) / Communicating in Malay 2 (International Students)
- Philosophy and Current Issues
- Integrity and Anti-Corruption
- Community Service
- Bahasa Kebangsaan A\*

#### 2. Electives (choose one)

- Social Entrepreneurship
- CSR Excellence: Building Responsible Enterprises



# MASTER OF ENGINEERING IN ELECTRICAL AND ELECTRONIC ENGINEERING 4+0

in collaboration with



This four-year engineering programme grants students access to the latest advancements in electrical and electronic engineering. From the outset, the curriculum emphasises innovation, design, and development, enhancing both technical and transferable skills. Students engage with cutting-edge technologies under the guidance of renowned faculty and benefit from industry partnerships. The programme seamlessly combines theoretical knowledge with practical experience, fostering creativity and critical thinking.

This programme has received provisional accreditation by the **Engineering Accreditation Council (EAC) Malaysia**.



Committed to quality with Coventry University

Note:  
• Please refer to [www.eac.org.my](http://www.eac.org.my) for more information about EAC.

\*For Malaysian students who do not have a credit in SPM BM

## Highlights

- Recognised as an extended undergraduate Master's Degree, equivalent to a Level 7 qualification in the UK, and provides a pathway to a PhD in the UK.
- Recognised as equivalent to a Bachelor's Degree (MQF Level 6) in Malaysia.
- Provisionally accredited by the **Engineering Accreditation Council (EAC) Malaysia**.
- Gain industrial experience through group projects, employer-led initiatives, and internships.

## Career Opportunities

Electrical Engineer, Electronics Engineer, Control System Engineer, Embedded System Engineer, Power System Engineer, Communication Engineer, Robotic Engineer, R&D Engineer, Design and Development Engineer, Production Engineer or Service Engineer, Test Development Engineer, Software Engineer, VLSI Design Engineer, System Engineer, Automation Engineer, Renewable Energy Engineer, IoT Solutions Architect, Quality Assurance Engineer.

## Offered At

INTI International College Penang  
(N/0713/6/0041)(07/31)(MQA/PA17604)

**INTAKES: JAN, APR & AUG**

## Duration

4 Years

## Programme Structure

### Year 1

- Analogue and Digital Devices
- Electrical and Electronic Engineering Principles
- Electronic Systems in Action
- Engineering Design
- Engineering Mathematics
- Introduction to Programming

### Year 2

- Analogue and Digital Systems
- Analogue Control and Instrumentation
- Electrical Engineering
- Embedded System Design and Development
- Manufacture of Electronic Systems
- Signals and System Analysis

## Internship

### Year 3

- Communication Engineering
- High Frequency Electronics
- Power Electronics and Renewable energy
- Industrial Group Project Proposal
- Industrial Group Project Dissertation

### Electives

- Digital Control and Instrumentation
- VLSI Design

### Year 4

- Digital Signal and Image Processing
- Electrical Machines and Drives
- Power Systems
- Individual Project Proposal
- Individual Project Dissertation

### Electives

- FPGA-based Digital System Design
- Robotics – Kinematics, Dynamics and Applications

## MPU Subjects

- Appreciation of Ethics and Civilisation (Local students) / Malay Communication 2 (International students)
- Philosophy and Current Issues
- Bahasa Kebangsaan A\* / Design Thinking
- Corporate Social Responsibility and Community Engagement
- Integrity and Anti-Corruption

# MASTER OF ENGINEERING IN MECHANICAL ENGINEERING 4+0

in collaboration with



Mechanical engineers address engineering challenges by developing and enhancing the mechanical performance of equipment and devices, utilising new technologies and materials grounded in engineering principles to optimise energy efficiency. They play a crucial role across a wide range of industries, including manufacturing, mechanical and electrical consultancy, engineering design, renewable energy, and research.

This programme has received provisional accreditation by the **Engineering Accreditation Council (EAC) Malaysia**.



Committed to quality with Coventry University

Note:  
• Please refer to [www.eac.org.my](http://www.eac.org.my) for more information about EAC.

\*For Malaysian students who do not have a credit in SPM BM

## Highlights

- Recognised as an extended undergraduate Master's Degree, equivalent to a Level 7 qualification in the UK, and provides a pathway to a PhD in the UK.
- Recognised as equivalent to a Bachelor's Degree (MQF Level 6) in Malaysia.
- Provisionally accredited by the **Engineering Accreditation Council (EAC) Malaysia**.
- Gain industrial experience through group projects, employer-led initiatives, and internships.

## Career Opportunities

Mechanical/Manufacturing Engineer, R&D Engineer, Test Engineer, Design Engineer.

## Offered At

INTI International College Penang  
(N/0714/6/0026)(01/31)(MQA/PA16869)

**INTAKES: JAN, APR & AUG**

## Duration

4 Years

## Programme Structure

### Year 1

- Design
- Electrical and Electronic Engineering Principle
- Engineering Applications
- Engineering Mathematics
- Manufacturing Technology and Materials
- Mechanical Science

### Year 2

- Analytical Modelling
- Design and Sustainability
- Engineering Management
- Instrumentation and Control
- Solid Mechanics and Dynamics
- Thermofluid Mechanics
- Professional Training

### Year 3

- Computational Thermofluids
- Engineering Strategy and Professional Practice
- Further Stress Analysis and Structural Dynamics
- Industrial Group Project Proposal
- Industrial Group Project Dissertation

### Electives (choose 1)

- Finite Element Methods
- Materials Analysis and Advanced Manufacturing

### Year 4

- Advance Control System Engineering
- Business Innovation and Sustainability
- Engineering Simulation and Analysis
- Individual Project Proposal
- Individual Project Dissertation

## MPU Subjects

- Appreciation of Ethics and Civilisation (Local students) / Malay Communication 2 (International students)
- Philosophy and Current Issues
- Bahasa Kebangsaan A\* / Design Thinking
- Corporate Social Responsibility and Community Engagement
- Integrity and Anti-Corruption

# BACHELOR OF SCIENCE (HONS) IN QUANTITY SURVEYING

Programme accredited by the Royal Institution of Chartered Surveyors, UK



and Lembaga Juruukur Bahan Malaysia



Students will be prepared to manage the financial and procurement processes of construction projects.

This may include tasks such as preparing cost plans and estimates, bills of quantities, tender appraisals, valuations of interim payments, project audits and life cycle costing.

Studies include cost planning, cost control, building development techniques, building research, measurement software application, measurement of quantities of building and infrastructure work and handling of construction legal issues.

Industrial-related projects are blended into the courses to provide direct industrial experience, aside from industrial visits and internships.

## Highlights

- Recognised by Singapore Institute of Engineering Technologists, Singapore
- Programme meets the requirements established by professional bodies such as the Board of Quantity Surveyors Malaysia and Malaysian Qualifications Agency (MQA)
- The programme receives full accreditation by the Board of Quantity Surveyors Malaysia and also from Royal Institution of Chartered Surveyors (RICS), UK
- Students will be exposed to the latest taking off methods, such as Building Information Modelling (BIM) approach, in order to analyse and simulate construction cost more effectively and efficiently
- Graduates will receive a competency certification by Glodon (Cubicost Level D) upon passing the competency assessment

## Career opportunities

Consultant Quantity Surveyor, Resident Quantity Surveyor, Contractors' Quantity Surveyor, BIM Consultant/Executives, Procurement Executives, Site Quantity Surveyor, Sales Executive (Supplier)

## Offered at

INTI International University  
(R2/S26/6/0111)(02/28)(MQA/FA8794)

**INTAKES: JAN, MAY & AUG**

## Duration

3.5 Years

## Programme structure

### Year 1

- Introduction to Quantity Surveying
- Technical English
- Technical Drawing
- Principles of Building Construction
- Quantitative Methods
- Construction Materials
- Building Structures
- Legal Studies for Quantity Surveyors
- Advanced Building Construction
- Building Environments and Services
- Measurement for Building Works
- Surveying

### Year 2

- Measurement for Advanced Building Works
- Principles of Estimating for Building Works
- Pre-Contract Administration
- Principles of Construction for Infrastructure and Civil Engineering Works
- Advanced Building Environments and Services
- Land Law
- Post-Contract Administration
- Measurement for Building Services
- Cost Studies
- Construction Contract Administration
- Systems of Construction Procurement
- Construction Economics

### Year 3

- Measurement for Infrastructure and Civil Engineering Works
- Principles of Estimating for Building and Services Works
- Development Economics
- BIM Project
- Risk, Value and Facilities Management
- Research Methods
- Professional Ethics and Code of Conduct

### Year 4

- Project-Quantity Surveying
- Project Management
- Advanced Construction Contract Administration

## Internship / Industrial Training

## MPU subjects

### 1. Compulsory

- Appreciation of Ethics and Civilisations (Local Students) / Communicating in Malay 2 (International Students)
- Philosophy and Current Issues
- Integrity and Anti-Corruption
- Community Service
- Bahasa Kebangsaan A\*

### 2. Electives (choose one)

- Corporate Social Responsibility
- Design Thinking
- Presentation Skills

# BACHELOR OF TECHNOLOGY IN DIGITAL CONSTRUCTION MANAGEMENT

The Bachelor of Technology in Digital Construction Management programme integrates advanced construction technologies. It emphasises hands-on learning for a deep understanding of the industry and the latest technologies in modern construction management.

Students will study Building Information Management (BIM) principles, digital technologies implementation, and design for single living spaces, residential and commercial buildings using BIM and other digital tools. They will also develop expertise in advanced digital equipment, such as 3D mapping, Global Positioning System (GPS), Geographic Information System (GIS), and the use of Virtual Reality (VR) applications in scientific research, training, and industrial design. Additionally, they will explore smart technologies for defect detection and perform lifecycle cost analysis, essential for enhancing construction management efficiency, quality, and productivity.

## Highlights

- Accredited by the Malaysia Board of Technologists (MBOT)
- Prepares students to execute projects related to the Fourth Industrial Revolution (IR4.0)
- Provides a detailed understanding of Digital Construction Management for a wide variety of construction industries
- Hands-on learning for a deep understanding of the construction industry and the use of the latest technologies in modern construction management

## Career opportunities

BIM Modeller, Assistant BIM Manager/ BIM Coordinator, BIM Manager, Construction/ Project Manager, Assistant Project Manager, Project Coordinator, IoT practitioner for Construction, Systems Analyst for Construction, Drone Specialist and Facility Manager

## Duration

3 Years

## Offered at

INTI International University  
(N/0733/6/0005)(08/28)(MQA/PA16119)

**INTAKES: JAN, MAY & AUG**

## Programme structure

### Year 1

- Building Structure
- Construction ICT
- Construction Materials
- Construction Technology
- Digital Construction Studio 1: Single Living Space
- Immersive technology
- Introduction to BIM and Digital Technologies for Construction
- Introduction to Programming
- Mathematics
- Surveying
- Technical English

### Year 2

- Advanced Digital Surveying
- BIM and Digital Technologies for Construction 2
- Building Services Technology
- Construction Economics
- Digital Construction Studio 2: Residential
- Environmental Science
- Estimating & Contract
- Project Management
- Smart Technology
- Sustainable Construction

### Year 3

- Cloud Technology
- Construction Safety & Health
- Digital Construction Studio 3: Commercial
- Drone Operation
- Integrated Construction Management Project
- Internet of Things for Construction
- Research Methodology
- Risk and Value Management
- Final Year Project
- Industrial Training

## MPU subjects

1. Compulsory
  - Appreciation of Ethics and Civilisations (Local students) / Communicating in Malay 2 (International students)
  - Philosophy and Current Issues
  - Integrity and Anti-Corruption
  - Co-curriculum
  - Bahasa Kebangsaan A\*
2. Electives (choose one)
  - Design Thinking
  - Corporate Social Responsibility
  - Presentation Skills

Programme Accredited by:



**Glodon 广联达**  
Build Your Future

## Glodon Building Information Modelling (BIM) software

- INTI is among the first private institutions of higher learning in the country to collaborate with Glodon in introducing this industrial software system
- Students will be exposed to the latest taking off methods to meet market demands

Note: Programme structure is subject to change.

\*For Malaysian students who do not have a credit in SPM BM.

\* For Malaysian students who do not have a credit in SPM BM.



# BACHELOR OF TECHNOLOGY IN INTELLIGENT MANUFACTURING

The Bachelor of Technology in Intelligent Manufacturing programme incorporates advanced manufacturing technologies, including robotics, automation, artificial intelligence, and data analytics, into the manufacturing process. It places great emphasis on hands-on learning and equips students with a comprehensive understanding of modern manufacturing technologies and the manufacturing industry.

The programme encompasses manufacturing principles, production planning and control, intelligent system design and development, industrial automation and control, data analysis, and optimisation techniques.

\* For Malaysian students who do not have a credit in SPM BM.

### Highlights

- Accredited by the Malaysia Board of Technologists (MBOT)
- Prepares students to execute projects related to the Fourth Industrial Revolution (IR4.0)
- Provides an understanding of smart manufacturing processes and integrates robotics technology across a wide range of industries
- Combines various types of intelligent manufacturing processes, automation control technologies, prototyping, and entrepreneurship skills
- Develops skills at all levels of the manufacturing process and development lifecycle

### Career opportunities

Automation Engineer, Data Analyst, Maintenance Engineer, Manufacturing Engineer, Process Engineer, Project Manager, Quality Control Engineer, Research and Development Engineer, Robotics Engineer, Technical Sales Engineer

### Duration

3 Years

### Offered at

INTI International University  
(N/0720/6/0001)/(07/28)(MQA/PA15493)

INTAKES: JAN, MAY & AUG

### Programme structure

- Year 1
- Code of Ethics
  - Data Structure and Algorithms
  - Drawing
  - Economics and Technopreneurship
  - Electrical Circuits
  - Introduction to Programming
  - Mathematics
  - Properties of Materials
  - Short Range Communication
  - Single Chip Microcomputer and Sensor
  - University English

### Year 2

- Automation and Control Technologies
- Control System
- Database System Concepts
- Embedded Interface Technology
- Integrated Design Project
- Intelligent Sensing and Control System
- Internet of Things: Recognition Technology
- Material Handling
- Mechanics
- Production Planning and Scheduling
- Project Management
- Sensor Micro-Operating System

### Year 3

- Identification Technologies
- Intelligent Product Development and Design
- Internet of Things: System Integration
- Long Range Communication
- Manufacturing Systems
- Quality Assurance and Quality Control
- Robot Technology
- Supply Chain Management
- Final Year Project 1
- Final Year Project 2
- Industrial Training

### MPU subjects

1. Compulsory
  - Appreciation of Ethics and Civilisations (Local students) / Communicating in Malay 2 (International students)
  - Philosophy and Current Issues
  - Integrity and Anti-Corruption
  - Co-curriculum
  - Bahasa Kebangsaan A\*
2. Electives (choose one)
  - Design Thinking
  - Corporate Social Responsibility
  - Presentation Skills

Programme Accredited by:



# BACHELOR OF TECHNOLOGY IN INTELLIGENT PROCESS AND PRODUCT DESIGN

The Bachelor of Technology in Intelligent Process and Product Design programme is a multidisciplinary programme that combines engineering, computer science, and information management principles to teach students about intelligent systems, process design, and product development.

The programme emphasises designing intelligent systems and preparing students to optimise complex processes and products using machine learning, data analytics, robotics, the Internet of Things (IoT), and control systems. This enables students to develop efficient, sustainable, and cost-effective industrial processes and products.

The programme also focuses on business management and entrepreneurship, equipping students with the necessary skills to become successful innovators and entrepreneurs in the technology industry.

\* For Malaysian students who do not have a credit in SPM BM.

### Highlights

- Accredited by the Malaysia Board of Technologists (MBOT)
- Prepares students to execute projects related to the Fourth Industrial Revolution (IR4.0)
- Provides an understanding of smart manufacturing processes and integrates robotics technology across a wide range of industries
- Combines various types of intelligent manufacturing processes, automation control technologies, prototyping, and entrepreneurship skills
- Develops skills at all levels of the manufacturing process and development lifecycle

### Career opportunities

Automation Engineer, Artificial Intelligence (AI) Engineer, Machine Learning Engineer, Process Engineer, Product Designer, Quality Control Engineer, Robotics Engineer

### Duration

3 Years

### Offered at

INTI International University  
(N/0720/6/0002)/(07/28)(MQA/PA15494)

INTAKES: JAN, MAY & AUG

### Programme structure

- Year 1
- Code of Ethics
  - Data Structure and Algorithms
  - Drawing
  - Economics and Technopreneurship
  - Electrical Circuits
  - Introduction to Programming
  - Mathematics
  - Properties of Materials
  - Short Range Communication
  - Single Chip Microcomputer and Sensor
  - University English

- Year 2
- 3D Printing Technology
  - Control System
  - Database System Concepts
  - Design Methodology
  - Electronic Design
  - Embedded Interface Technology
  - Ergonomics
  - Integrated Design Project
  - Internet of Things: Recognition Technology
  - Mechanics
  - Product Planning and Scheduling
  - Sensor Micro-Operating System

### Year 3

- Advanced 3D Modelling
- Intelligent Product Development and Design
- Intelligent Sensing and Control System
- Internet of Things and Design
- Mechanical Design
- Project Management
- Rapid Prototyping
- Robot Technology
- Final Year Project 1
- Final Year Project 2
- Industrial Training

### MPU subjects

1. Compulsory
  - Appreciation of Ethics and Civilisations (Local students) / Communicating in Malay 2 (International students)
  - Philosophy and Current Issues
  - Integrity and Anti-Corruption
  - Co-curriculum
  - Bahasa Kebangsaan A\*
2. Electives (choose one)
  - Design Thinking
  - Corporate Social Responsibility
  - Presentation Skills

Programme Accredited by:



# AMERICAN DEGREE TRANSFER PROGRAM (AUP)

Having pioneered the introduction of American education more than 35 years ago, INTI has the most established American Degree Transfer Program (AUP) in Malaysia.

Students have the opportunity to choose from over 300 universities in the US and Canada. Many INTI students have been accepted into prestigious Ivy League and Ivy-equivalent universities.

For more information, please refer to the American Degree Transfer Program (AUP) brochure.

### Offered at

INTI International College Subang  
Applied Science: (R3/0500/6/0001)(09/29)(A5761)  
INTI International College Penang  
Applied Science: (R3/545/6/0064)(01/26)(A7301)

INTAKES: JAN, MAY & AUG

### Duration

2 Years

### Program structure

This program enables students to complete up to 2 years of the degree studies at INTI before transferring to the US or Canada to complete their studies.

Popular majors (partial list) pursued by AUP students are:

- Aerospace / Aeronautical Engineering
- Bioengineering
- Biomedical Engineering
- Chemical Engineering
- Civil Engineering
- Computer Engineering
- Electrical / Electronic Engineering
- Industrial Engineering
- Mechanical Engineering
- Petroleum Engineering

### Popular universities for engineering

#### US universities

- California State University, Fresno
- Illinois Institute of Technology
- Iowa State University
- Michigan State University
- Michigan Technological University
- Missouri University of Science and Technology
- Ohio State University
- Oklahoma State University
- Purdue University
- University at Buffalo
- University of Central Oklahoma
- University of Kentucky
- University of Michigan, Ann Arbor
- University of Minnesota, Twin Cities
- University of Nebraska-Lincoln
- University of Wisconsin-Madison
- University of Wisconsin-Stout
- West Virginia University Institute of Technology
- Wichita State University

#### Canadian universities

- University of Manitoba
- University of New Brunswick
- University of Saskatchewan
- University of Windsor

# MASTER OF SCIENCE IN CONSTRUCTION MANAGEMENT (FACILITY MANAGEMENT)

### awarded by



Advancement field of construction management has given a lot of opportunities to various organizations to renew the methods in handling the daily tasks. The construction management supported by Facility Management inputs has been described as the factor to stimulate the growth in construction sector, especially in property development, housing, consultancy, finance, project management, facility management and building maintenance.

MSc in Construction Management (Facility Management) is designed with these in mind. The curriculum combines construction management with facilities management knowledge courses focus on advanced technology management, with the aim of building strong advance knowledge and skills on facility management related strategies and architectures. Students will be able explore more effective design, management, deployment and exploitation of leading-edge technology.

Note: Programme structure is subject to change.

### Course Structure

#### Core modules

- BIM Theory and Practice
- Occupational Safety and Health
- Research Methods
- Strategic Management for Construction Management
- Managing Organisation for Construction Management
- Intergrated Simulation Project
- Facilities Planning and Emergency Preparedness Plan
- Project

#### Specialization modules

- Building Pathology
- Professional Practice in Facility Management
- Building Codes and Regulations

### Offered at

INTI International University  
(R/0733/7/0009)(05/29)(MQA/FA11619)

INTAKES: JAN, MAY & SEPT

### Duration

- 1 Years (Full-time)
- 2 Years (Part-time)

### Entry Requirements

- Bachelor's Degree (Level 6 Malaysian Qualification Framework, MQF) in Engineering / Engineering Technology / Construction Management / Architecture / Architectural Technology or its equivalent with a minimum CGPA of 2.5; or
- Bachelor's Degree (Level 6 MQF) in Engineering / Engineering Technology / Construction Management / Architecture / Architectural Technology or its equivalent with CGPA above 2.0 but less than 2.5 may be admitted subject to a minimum of 5 years working experience in relevant field.

Note: Candidates with Bachelor's Degree of Science or Technology degrees or their equivalents (non-Engineering / Engineering Technology / Construction Management / Architecture / Architectural Technology) are required to take 2 bridging courses before commencing the programme.

### English Language Requirements

TOEFL 500 or IELTS 5.0



# MASTER OF SCIENCE IN CONSTRUCTION MANAGEMENT (BUILDING INFORMATION MODELLING)

awarded by



The MSc in Construction Management (Building Information Modelling) is designed to meet the needs of students who want to build a strong background in building information modelling systems and the application of information and communications technology in construction industry. Every construction business worldwide has to invest in technology in order to maintain its competitive edge, with effective management of technological innovations as essential to construction daily operation as are construction costing or project monitoring. Construction companies today need managers who can understand how BIM technology can open new opportunities and restructure existing construction businesses.

The MSc in Construction Management with Building Information Modelling programme is designed precisely with this in mind. Our curriculum combines technical knowledge courses with insightful courses focused on technology management in managing construction data.

*Note: Programme structure is subject to change.*

## Course Structure

Core modules

- BIM Theory and Practice
- Occupational Safety and Health
- Advanced Construction Project Management
- Research Methods
- Strategic Management for Construction Management
- Managing Organisation for Construction Management
- Intergrated Simulation Project
- Project

Specialization modules

- BIM Applications
- BIM based E-Procurement
- BIM Management

## Offered at

INTI International University  
(R/0733/7/0008)(05/29)(MQA/FA11618)

INTAKES: JAN, MAY & SEPT

## Duration

- 1 Years (Full-time)
- 2 Years (Part-time)

## Entry Requirements

- Bachelor's Degree (Level 6 Malaysian Qualification Framework, MQF) in Engineering / Engineering Technology / Construction Management / Architecture / Architectural Technology or its equivalent with a minimum CGPA of 2.5; AND
- Bachelor's Degree (Level 6 MQF) in Engineering / Engineering Technology / Construction Management / Architecture / Architectural Technology or its equivalent with CGPA above 2.0 but less than 2.5 may be admitted subject to a minimum of 5 years working experience in relevant field.

Note: Candidates with Bachelor's Degree of Science or Technology degrees or their equivalents (non-Engineering / Engineering Technology / Construction Management / Architecture / Architectural Technology) are required to take 2 bridging courses before commencing the programme.

## English Language Requirements

TOEFL 500 or IELTS 5.0

# MASTER OF SCIENCE IN CONSTRUCTION MANAGEMENT (BUILDING INFORMATION MODELLING)



awarded by



The Master of Science in Construction Management (Building Information Modelling) Online Learning programme aims to develop Senior Construction Project Managers with a high level of professionalism, the ability to think critically and an entrepreneurial mindset in order to support the university's vision of becoming a champion of change and supporting the country's aspiration to transition towards a world-class service provider and centre of excellence in asset management, project management and engineering services through mastering and leading the trends of Industrial Revolution 4.0 and beyond.

This programme is designed to complement and enhance graduates' construction management skills and experience by providing ample opportunities for assessments and activities. They will be well-prepared to be lifelong learners and leaders in the construction and building information management sectors.

*Note: Programme structure is subject to change.*

## Highlights

- Syllabus aligns with Malaysia's Construction 4.0 Strategic Plan (2021-2025) – the next revolution of the Malaysian construction industry
- New Learning Experience – Blended Learning Model with a variety of learning approaches
- Integration of construction related IT technology in construction project management
- Guest Lectures, Workshops, and Sharing Sessions from various industry partners for knowledge and experiences sharing

## Career Opportunities

BIM Manager, BIM Modeler, BIM Consultant, BIM Designer, Design Engineer, Project Manager, Executive and Manager in construction management areas.

## Course Structure

- Advance Construction Project Management
- BIM Applications
- BIM Based E Procurement
- BIM Management
- BIM Theory and Practice
- Integrated Simulation Project
- Managing Organisations for Construction Management
- Occupational Safety and Health
- Research Methods
- Strategic Management for Construction Management
- Project – Part I
- Project – Part II

## Offered at

INTI International University  
(N-DL/0733/7/0002)(05/27)(MQA/FA15726)

INTAKES: JAN, MAR, MAY, AUG & OCT

## Duration

- 1 Year (Full-time)
- 2 Years (Part-time)

## Entry Requirements

- Bachelor's Degree (Level 6 Malaysian Qualification Framework, MQF) in Engineering / Engineering Technology / Construction Management / Architecture / Architectural Technology or its equivalent with a minimum CGPA of 2.5 OR
- Bachelor's Degree (Level 6 MQF) in Engineering / Engineering Technology / Construction Management / Architecture / Architectural Technology or its equivalent with CGPA above 2.0 but less than 2.5 may be admitted subject to a minimum of 5 years working experience in relevant field.

Note: Candidates with Bachelor's Degree of Science or Technology degrees or their equivalents (non-Engineering / Engineering Technology / Construction Management / Architecture / Architectural Technology) are required to take prerequisite modules in Engineering and Engineering Technology before commencing the programme.

## English Language Requirements

TOEFL 500 or IELTS 5.0

# MASTER OF SCIENCE IN INNOVATION AND TECHNOLOGY (BY RESEARCH)

awarded by



Master of Science in Innovation and Technology is designed to cultivate a generation that is able to integrate multiple specialties which are essential to innovation initiatives to drive value chain. These specialties include creativity, the ability to harness the collective intelligence, and the capability of adding value creation in various fields.

This programme fosters a rich and inclusive community for students who want the skillset to be tomorrow’s leaders and experts with edge innovation, technology knowledge, skills. These skillset enable them to bring insightful value to the executive team, to strategically leverage innovative technology, and capture new opportunities.

## Highlights

Students will achieve a high standard of communication skills, critical thinking skills, problem-solving skills, information management skills, and an entrepreneurial mind-set in the field of innovation and technology.

## Career Opportunities

Technology Analyst, Engineering Scientist, Business and Management Strategist, Health and Diagnostic Designer, Life Science Specialist, Innovation Catalyst, Process Specialist, Digital Transformation Expert, other managerial and consultant positions in science and technology-based companies.

## Programme Structure

Year 1 - Research Methodology & Dissertation  
Year 2 - Dissertation

## Offered At

INTI International University  
(N/545/7/0106)(11/26)(MQA/FA15104)

INTAKES: JAN, MAY & SEP

## Duration

2 - 4 Years (Full-time)  
3 - 6 Years (Part-time)

## Entry Requirements

- i. A Bachelor’s Degree in the field or related fields with a minimum CGPA of 2.75 or equivalent, as accepted by the University Senate; or
- ii. A Bachelor’s Degree in the field or related fields or equivalent with a minimum CGPA of 2.50 and not meeting CGPA of 2.75, can be accepted subject to rigorous internal assessment; or
- iii. A Bachelor’s Degree in the field or related fields or equivalent with minimum CGPA of 2.00 and not meeting CGPA of 2.50, can be accepted subject to a minimum of 5 years working experience in the relevant field and rigorous internal assessment.

Note: Candidates without a qualification in the related fields or relevant working experience must undergo appropriate prerequisite courses determined by the university and meet the minimum CGPA based on (i) to (iii).

## English Language Requirements

IELTS 5.0 or equivalent





# DOCTOR OF PHILOSOPHY (APPLIED PHYSICS) (BY RESEARCH)

awarded by



The programme enables students to undertake specialised and applied in-depth research work in various branches of applied physics, including and not limited to plasma physics, pulse power technology and material science. These areas can enhance and contribute to the body of knowledge in science and technology.

Highlights

- Students will achieve high levels of competency in advanced scientific knowledge and skills in a specialised and advanced field of science and technology with emerging importance.
- Graduates will be able to contribute professionally as leaders in the area of science and technology in academic and research institutions and organisations.
- Leading research in areas of plasma physics and pulse power technology, an emerging field in energy and green technology.
- This programme provides a thorough grounding in the scientific principles governing the physical, chemical, and mechanical properties of solid materials, and the opportunity to specialise in the research of a particular material (superconductors, semiconductors) through a choice of options.

Research Areas

- Plasma Physics
- Pulse Power Technology
- Condensed Matter Physics
- Superconducting Materials
- Photonics

Programme Structure

- Research Methodology
- Proposal Defense
- Research Thesis
- Viva Voce in the final year
- Students are required to produce a thesis of 30,000 to 100,000 words to fulfill graduation requirements

Entry Requirements

- A Master’s Degree in the field or related fields accepted by the University Senate; OR
- Other qualifications equivalent to a Master’s Degree recognised by the Government of Malaysia; OR
- Candidates without a related qualification in the field(s) or working experience in the relevant fields must undergo appropriate prerequisite courses determined by the university.

Meet any of these English language requirements:  
i. A Master’s Degree conducted in English\*; OR  
ii. Credit 6 in MCE / SPM / GCE level; OR  
iii. MUET Band 4/ TOEFL score of 550 / IELTS score of 6.0; OR  
iv. Equivalent score from any of the above obtained at undergraduate level at a recognised university\*

\* A copy of the document from the university is required during submission as proof of English proficiency

Any other qualification with relevant working experience will be subject to approval by the Senate

Offered at

INTI International University  
(R2/545/8/0001)(09/27)(MQA/FA0025)

INTAKES: JAN, MAY & SEP

Duration

3 Years (Full-time)  
4 Years (Part-time)

Note: Programme structure is subject to change.

# DOCTOR OF PHILOSOPHY (INNOVATION AND TECHNOLOGY) (BY RESEARCH)

awarded by



This programme enables students to integrate multiple specialties that are essential to innovation initiatives in the value chain. These specialties include creativity, the ability to harness collective intelligence, and the capability of adding value creation in business. This programme also aims to facilitate knowledge creation in the field of innovation and technology and hence, create better solutions for workplace challenges.

Highlights

- Students will achieve a high standard of communication skills, critical thinking skills, problem solving skills, information management skills, and an entrepreneurial mind-set in the field of innovation and technology.
- Prepares students with the latest data analytic and modelling tools that will enable them to manage the huge amount of data and convert into useful information.
- Graduates will be able to contribute professionally as leaders in the area of innovation and technology in academic and workplace organisations.

Research Areas

- Reverse Engineering
- Smart Manufacturing
- Process / Production Optimisation
- Data Digitisation
- Smart Healthcare
- Digital Construction
- Additive Manufacturing
- Data Mining
- Artificial Intelligence
- Industrial and Environmental Technology

Programme Structure

- Research Methodology
- Proposal Defense
- Research Thesis
- Viva Voce in the final year
- Students are required to produce a thesis of 30,000 to 100,000 words to fulfill graduation requirements

Entry Requirements

- A Master’s Degree in the field or related fields accepted by the University Senate; OR
- Other qualifications equivalent to a Master’s Degree recognised by the Government of Malaysia; OR
- Candidates without a related qualification in the field(s) or working experience in the relevant fields must undergo appropriate prerequisite courses determined by the university.

Meet any of the following English language requirements:  
i. A Master’s Degree conducted in English\*; OR  
ii. Credit 6 in MCE/SPM/GCE level;  
iii. MUET Band 3.5/TOEFL score of 500 / IELTS score of 5.0; OR  
iv. Equivalent score from any of the above obtained at undergraduate level at a recognised university\*

\* A copy of document from the university is required during submission as a proof of English proficiency

Any other qualification with relevant working experience will be subject to approval by the Senate

Offered at

INTI International University  
(N/545/8/0097)(02/27)(MQA/PA12510)

INTAKES: JAN, MAY & SEP

Duration

3 Years (Full-time)  
4 Years (Part-time)

Note: Programme structure is subject to change.

# HEAR WHAT OUR ALUMNI SAY



“INTI allowed me to shine in many ways, especially in leadership skills. As the 22nd INTIMA Student Government President, I had the opportunity to put my leadership skills to test by organising numerous activities held by INTIMA Clubs and Societies. Not to mention the amazing lecturers, who took time out of their busy schedules to guide us even after class hours. INTI has aided my successful professional growth in many ways, and for which I am proud to be an INTI graduate.”

**MELCHIZEDEK NEHEMIAH**  
Senior Key Account Sales Engineer, PCA Group Sdn. Bhd.  
Bachelor of Mechanical Engineering

“INTI has provided me with tremendous opportunities, not only to progress academically, but also to shape my personality and gain extensive exposure to improve my communication and networking skills. I am also grateful to my lecturers from the Engineering faculty not just for the academic support but also the mentorship and care whenever I needed an emotional support system.”

**HIRA KHALIQUE**  
Lecturer  
Currently pursuing a Research-based Master in Environmental Engineering  
Bachelor of Civil Engineering (Honours)



“INTI has been preparing students to be well-equipped for their careers even before their graduation. There is an internship programme in the diploma and degree study where we were taught how to solve problems and apply our knowledge practically in the engineering industry, rather than merely repeating theories from what we have learnt. This is a great opportunity for us to sharpen our technical and soft skills.”

**IVAN TEO WEI MING**  
Product Development Engineer,  
Intel Microelectronics  
Bachelor of Engineering with Honours in Electrical & Electronic Engineering (3+0),  
in collaboration with Coventry University, UK

“I would never have found the right career if not for the field trips organised by the INTI School of Engineering. I joined every field trip and am now enjoying the challenge of working in the highly demanding field of oil and gas. The various extra-curricular activities at INTI provided ample opportunities to sharpen my soft skills, helping me to build a strong professional network and impress top management with results that have surpassed my KPIs.”

**AMEER AZHAR FADZILAN**  
Product Engineer, Misi Setia Oil & Gas Sdn Bhd  
B.Eng (Hons) in Mechanical Engineering



“Choosing INTI for my Quantity Surveying degree was definitely the right decision as the programme covered all the necessary ground in terms of knowledge to prepare me to enter the workforce. Ample co-curricular activities provided me with plenty of opportunities to discover and sharpen my soft skills. Though I did not end up practising what I studied, my time in INTI opened up the pathway to my current job, showing that opportunities are plentiful in INTI, just waiting to be grabbed.”

**Eric Lee Kuan Liang**  
Technical Service Manager at Glodon Company Limited  
BSc (Hons) in Quantity Surveying

“My engineering experience has been transformative. I joined INTI as a teenage boy and left as an experienced man. These four years of change have molded me into the person I am today. From inspiring professors to hands-on projects and a diverse campus community, I am grateful for this exceptional journey of growth and opportunity. This experience has shaped me into a confident and capable engineer, prepared to tackle the challenges of the future. I am thankful for the education, friendships, and memories that will stay with me for a lifetime.”

**AKSHITH SURESH**  
Hydraulic / Water Resource Engineer at Idrica  
Bachelor of Mechanical Engineering with Honours



“My university experience has been transformative, shaping me both academically and personally. Through diverse courses, I've gained a broad engineering knowledge base, while interactions with global professionals expanded my understanding of different industries. INTI facilitated my growth, offering learning opportunities through industrial projects that honed leadership, teamwork, and service commitment. These skills were pivotal during my successful probation at my current firm. This journey has defined my identity, equipping me with essential skills for professional success.”

**JEREMIAH JAMES BERNARD**  
Application Engineer at Riken Keiki (M). Sdn Bhd.  
Bachelor of Mechanical Engineering with Honours

“INTI provided me with a robust foundation of knowledge and skills in quantity surveying. This solid educational background enabled a seamless transition into my overseas degree program and facilitated my entry into the industry. The lecturers at INTI were highly professional and experienced, making my study journey engaging. The well-designed course focused on providing students with a background in the field to comprehend the construction process and materials involved in the science of quantity surveying. This experience ignited my interest in the art of quantity surveying.”

**TEOH YEE HENG**  
Quantity Surveyor at Wilde and Woollard (Queensland)  
Diploma in Quantity Surveying





# EMPLOYER TESTIMONIALS

## MICROSOFT MALAYSIA

“It has been a privilege to be part of INTI’s Advisory Board and a mentor for student projects. It is heartening to see the quality that INTI students bring, and their projects are clear evidence that INTI has equipped them with the right knowledge and experiences for them to be future ready to build our nation.”

Ng Kim Kean ( Head of Marketing )

## FLEX

“Both Hng Lip Phong and Lim Jia Xin from INTI's Bachelor of Electrical and Electronic Engineering have done INTI proud by successfully completing the “Development of a Programmable Audio Digital Signal Processors (DSP) Module with PC Interface and Control – Hardware” and “Development of a Programmable Audio DSP Module with PC Interface and Control – Software” under the Employer Project programme with flying colours. It is great to see the guidance and knowledge sharing that INTI’s faculty staff freely imparts to its students, and I am excited to be involved in more Employer Projects with INTI’s students who are always so enthusiastic and eager to learn.”

Kevin Tan ( Director of Product Development )

## KEYSIGHT

“We always look for graduates who are good communicators, possess a positive attitude, enthusiasm, adaptability to work in a team, and a problem solver – INTI students demonstrate these attributes. It has been a wonderful journey partnering with INTI”

Chan Fook Seng ( Engineering Manager )

## HIN CONSTRUCTION SDN BHD

“We have worked closely with INTI on various collaboration initiatives. INTI has fantastic and experienced lecturers and facilitators, allowing it to build a solid foundation and a supportive study community for students. This can be seen in how INTI students tackle challenges and carry out responsibilities given to them, making them stand out from other students. They also have outstanding communication skills and creative abilities which we believe will boost their employability.”

Seow Kent Von ( Director )

# EMPLOYER PROJECTS

INTI has established close ties with leading companies in the industry to develop employer projects to enable students to gain real, hands-on work experience while studying. Through these projects, students are presented with immediate challenges faced by businesses, and are required to work together in teams to develop and present their proposals. Projects are based on real-life business issues that will help students to develop their knowledge and apply their soft skills in actual business scenarios.

.....

Some employer projects undertaken by our students:



- **A ROYAL COMPOST BARREL**  
Royal Selangor  
Students were assigned a project by Royal Selangor to address the issue of excessive organic waste generated daily by their canteen and café. Currently, this biodegradable waste is discarded, yet its potential to be transformed into compost for landscaping remains untapped. Students are required to find ways to utilise this waste product, aligning with the company's ongoing environmental initiatives.
- **DESIGN AND DEVELOPMENT OF AUTOMATED GARMENT STEAMER**  
To design and develop an automated garment steamer meant to remove wrinkles from ready-made cotton-based shirts to replace manual ironing labour, for mass production application in garment industry. The motivation of this project is to develop equipment to effectively replace the dependence of human labour and at the same time producing quality flat appearance of shirts suitable and ready for packing.
- **REDESIGNING SHELL STATIONS USING GREEN TECHNOLOGY**  
Polymer Composite Asia  
Shell Malaysia teamed up with our students on the redesigning of Shell petrol station using Green Technology. The students’ presentation was able to captivate the Shell clients with innovative ideas in their “Fuel and Go Green” challenge
- **AUTOMATIC FACE RECOGNITION ARTIFICIAL INTELLIGENCE (AI)**  
IME Solutions  
Students came up with an automatic face recognition AI Project to help manufacturers especially in the high mix low volume industries to better manage their production shop floor.
- **FIRE-RETARDANT PRODUCT DESIGN**  
Asian Resinated Felt  
Students took on the challenge of determining alternative material that could be researched to improve the capabilities of the current felt material to improve the heat and acoustic insulation for automobiles.
- **HYDRPHONIC FARMING**  
Urban Farm Agritech  
Students were tasked to build prototypes demonstrating the use of mechanical tools to replace human effort. The objective of the project is to semi-automate the hydroponics farming process to reduce dependency on manual labour.



# ENGINEERING COMPETITIONS AND STUDENT ACTIVITIES

## ▼ BUILDING INFORMATION MODELING (BIM) CONTEST

The BIM Contest comprised of several stages, and INTI students successfully reached the final stage, securing the position of first runner up.



## ▼ STUDY TOUR TO CONSTRUCTION SITE

The study tour offered students the chance to apply theoretical knowledge in a real-world setting. They had the opportunity to observe construction processes, techniques, and equipment in use, enhancing their understanding of the practical aspects of their studies.



## ▼ STRUCTURAL EARTHQUAKE STABILITY COMPETITION

Award: Champion

The primary goals of the competition are to increase awareness among undergraduates about the importance of seismic design, enhance their understanding of theories and concepts, and encourage creativity and innovation in structural earthquake stability research for the benefit of society.





# Get Connected with INTI!



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INTI International University & Colleges

## INTI NETWORK

**INTI INTERNATIONAL UNIVERSITY** <sup>DU022(N)</sup>  
06-798 2000 | Persiaran Perdana BBN, 71800 Putra Nilai

**INTI INTERNATIONAL COLLEGE SUBANG** <sup>DK249-01(B)</sup>  
03-5623 2800 | No. 3, Jalan SS15/8, 47500 Subang Jaya

**INTI INTERNATIONAL COLLEGE PENANG** <sup>DK249-02(P)</sup>  
04-631 0138 | No. 1-Z, Lebuhr Bukit Jambul, 11900 Penang

**INTI COLLEGE SABAH** <sup>DK249-03(S)</sup>  
088-489 111 | Level 2 (South Wing) & Level 5, KM10,  
Jalan Tuaran Bypass, 88450 Kota Kinabalu, Sabah

## INTI EDUCATION COUNSELLING CENTRES <sup>(266729-P)</sup>

**PERAK** 05-241 1933 | No. 258, Jalan Sultan Iskandar, 30000 Ipoh  
**JOHOR** 07-364 7537 | No. 25, 25-01, Jalan Austin Heights 8/1, Taman Austin Heights, 81100 Johor Bahru  
**PAHANG** 09-560 4657 | B16, Jalan Seri Kuantan 81, Kuantan Star City II, 25300 Kuantan  
**SARAWAK** 082-265 897 | Ground Floor SL. 38. Lot 3257, Block 16, Gala City, Jalan Tun Jugah, 93350 Kuching

