ENGINEERING

ENGINEER GREAT ACHIEVEMENTS

For a brighter future
About INTI

One of the most respected and trusted names in Malaysia’s private higher education, INTI International University & Colleges celebrates more than 30 years of empowering young minds with over 65,000 graduates to testify to the quality education it delivers. INTI provides access to the global resources, best practices, teaching methods, international faculty and learning management systems that are truly world class.

With a strong focus on innovative learning and the integration of technology into the classrooms, INTI emphasizes an education that is tailored to the needs of tomorrow’s leaders.

INTI’s Enrolment to Employment initiative is also instrumental in helping INTI students develop the skills, knowledge and capabilities as they become the game changers of the future. Our collaborations with Industry Partners have laid the foundation for our positive student outcomes in employability, and this is a reflection of the skills and capabilities our students are able to demonstrate.
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 specialisation are given the opportunity to participate in highly structured internships and gain actual insights into the intensive work environment of engineers. INTI’s accredited industry partners include Motorola, Intel, Keysight, ASE, Inari, Venture, Lumileds, Knowles, Ceedec, Aemulus, B. Braun, SAM, Osram, Solarvest and more. 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.

The impact of Engineering 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 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. By mastering the study and application of the art and science of Engineering, 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.

Throughout the course of their work, engineers 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 three month period and reflect actual engineering challenges encountered by today’s global companies.

During this time, students will work with a multi-disciplinary team of fellow engineers 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.
INTERNATIONAL RECOGNITION
INTI INTERNATIONAL UNIVERSITY ENGINEERING DEGREES
INTERNATIONAL RECOGNITION - ACCREDITED BY WASHINGTON 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 http://www.bem.org.my/3/ listofaccreditedprogrammes.html

The above benefits are applicable in the following countries, which are signatory to the Washington Accord:

•  Signatories have full rights of participation in the Accord, qualifications accredited or recognised by other signatories are recognised by each signatory as being substantially equivalent to accredited or recognised qualifications within its own jurisdiction” http://www.ingreemments.org/ Washington-Accord/signatories.cfm

CIVIL ENGINEERING

INTI’s undergraduate programmes for Civil Engineering empowers 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 Malayan (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.

Highly Qualified Academic Staff
INTI’s faculty members, all of whom are professionally qualified engineers with a majority possessing PhDs in various engineering disciplines. Collectively the faculty has published more than 15 academic papers, have been invited as key note speakers for a number of industry and academic talks, and have filed a number of patents. These achievements are also instrumental in their efforts to ensure the high standards of excellence that the programme is known for.

Extracurricular Activities
Regular site visits are integrated as a part of the curriculum to enable students to interact with working professionals in their area of expertise and to gain exposure. In the past, students visited and experienced a number of onsite engineering challenges, including spillways at the Cameron Highlands dam and the complexity of building the second Penang Bridge.

Students are also given the opportunity to participate in a host of competitions at local and international levels. Engineering students from INTI secured several awards at the challenging 2018 ‘Introducing and Demonstrating Earthquake Engineering Research in Schools’ (IDEERS) competition in Taiwan. The awards are - Best Engineering (Structural) Design, Best Architectural Design, Best Presentation Award, and Most Preferable Award.

International Articulation
INTI maintains articulation agreements with the prestigious University of Leeds, UK and the University of Portsmouth, UK providing diploma students with the opportunity to join either university with a one year equivalent of credit exemptions when progressing to a degree.
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

Over the last four years, INTI has received the Motorola Solutions Foundation grant, a cash award which has been offered as scholarships to students with excellent academic achievements and the potential to contribute towards the enhancement and innovation of Malaysia’s E&E sector.

Extensive Extracurricular Activities

INTI students gain access to international competitions, including the Laureate Award for Excellence in Robotic Engineering which sees teams from all over the world vying for the award. In 2017, INTI students were named as the First Runner Up in the competition in Brazil. In this award enabled students to apply what they had learnt in the classroom to the development of an innovative solution. This helps them to enhance their capabilities and gain an edge in today’s competitive workplace.

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.

Project Based Learning (PBL)

To familiarise students with current industry practices as well as to offer them invaluable exposure to the workplace, INTI organises Project Based Learning (PBL) programmes in Year 2. Students are assigned a group project in consultation with a reputable industry partner, and will have to complete a thesis to fulfil their academic requirements.

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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 reputeability 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

The Australian Group of Eight, which consists of Australia’s eight leading research universities and several notable UK universities, has formally recognised the course contents of INTI’s Mechanical Engineering programmes, providing students a beneficial articulation pathway to several of these leading universities. Qualified students from INTI’s Diploma in Mechanical Engineering programme can continue their degrees abroad with a maximum exemption of two years’ credit transfers.

Realistic Practical Experience

In addition to internships and projects based on real-world scenarios, students are also exposed and given the opportunity to participate in a number of challenging events at both national and international levels. INTI students from various semesters take part in an Engineering Fair that showcases their projects while the bi-annual INTIgenieur Challenge sees final year Engineering students showcasing their most innovative designs. Teams of students also regularly participate in the Annual International Robot Design competition where they design robots to fulfill a specific task.

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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 enjoy study trips to the Queensland University of Technology (QUT), Australia, the University of West of England (UWE), and 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.

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INTI offers study tours for qualified students to other institutions. This provides them with a taste of life abroad and allows them to gain international experiences, both academically and culturally.

**WORLD RENOWNED COLLABORATION WITH PRESTIGIOUS UNIVERSITIES**

INTI offers exclusive franchise degrees and dual award degree programmes in partnership with some of the world’s highest rated universities. These partnerships help to enhance your academic credentials and offer you access to some of the most established institutions of higher learning globally.

**Blue Mountains International Hotel Management School at Torrens University**

Recognised as one of the world’s leading providers of Hotel Management programmes, Blue Mountains offers an internationally recognised curriculum based on the renowned Swiss hotel school model of teaching and learning. Blue Mountains is ranked the Number 1 Hotel Management School in the Asia Pacific and Australia (TNS Survey 2017).

**Coventry University**

With roots dating as far back as 1843, Coventry University has a proud tradition of offering high quality education with an emphasis on applied research. Students enjoy exceptional project and placement opportunities with leading cutting edge organisations who in turn provide enhanced employability opportunities upon graduation. Coventry University has been ranked No. 22 UK University by the Guardian University Guide 2018.

**Sheffield Hallam University**

Sheffield Hallam University United Kingdom

A modern university with a long and proud history dating back to the 13th century, the university is an integral part of the UK’s largest practicing community of artists and designers outside of London and is a benchmark for the creative industry. Sheffield was ranked 81% for international excellence in the national 2014 Research Excellence Framework and ranked second among the modern universities in the UK for art and design research.

**Southern New Hampshire University**

Southern New Hampshire University United States

Established in 1932, the university has been at the forefront of academic excellence with accreditation by the New England Association of Schools and Colleges as well as several other accrediting bodies. Students can pursue their education at the sprawling 300 acre campus in Manchester, New Hampshire, or at its numerous regional centers or online.

**University of Hertfordshire**

University of Hertfordshire United Kingdom

Swiftly gaining recognition as the UK’s leading business-facing university, the University of Hertfordshire is an exemplar in the education sector and achieved the top gold ranking in the Government’s Teaching Excellence Framework (TEF) 2018.

**University of Wollongong**

University of Wollongong Australia

A young and vibrant academic institution, the University of Wollongong has built a reputation for world-class research and some of the most career-ready graduates in the world for nine years in a row. The university ranked among the top 2 percent of universities worldwide among a host of other awards.
Innovative Learning

THE FUTURE OF LEARNING IS HERE

As a trailblazer in education for over three decades, INTI has been at the forefront of education innovation by offering an academic curriculum that is not only industry relevant but is also immensely effective.

INTI integrates an array of proven approaches to teaching combined with revolutionary applications of technology in the classroom such as the innovative Blackboard Learning Management System. Combined with a world class curriculum that incorporates industry-relevant courses in tandem with real-world scenarios and projects, INTI graduates are highly employable and empowered to make a positive difference from day one.

EFFECTIVE ONLINE LEARNING FOR A NEW AGE

The cornerstone of INTI’s world-class learning methodology is the Blackboard Learning Management System that is integrated into many programmes taught at INTI. With Blackboard, learning does not only happen in the classroom, it happens everywhere.

Blackboard isn’t just about reading course notes. It’s a holistic, integrated system to collaborate and interact with fellow students and lecturers. Students can offer and gain feedback from their peers on coursework and perform self-assessments while learning in a safe, nurturing and holistic environment that encourages creativity, critical thinking, and collaboration.

Classes become active forums to interact and grow as students share knowledge and collaborate with their peers. This personalised, interactive approach to learning results in well-rounded, highly motivated individuals who gain critical thinking skills and the motivation to give them an extra edge in the global workforce.

MEASURABLE ASSESSMENTS

Students enrolled at INTI gain a bird’s eye view and are able to develop a road map for their academic progress through INTI’s revolutionary Blackboard system which allows course supervisors to monitor every aspect of a student’s performance from their attendance to the quality of their coursework and much more.

Course supervisors are also able to actively monitor, advise and pinpoint areas for improvement and offer consistent feedback to ensure students can address the weaknesses in their academic performance. This directly impacts student success and ensures better student outcomes.

INDUSTRY-RELEVANT PROGRAMMES

Today’s work environment is more fast paced than ever before, demanding a host of 21st century skills that young professionals must demonstrate in order to excel and succeed. Recognising the importance of addressing the needs of both students and the industry, INTI has remained at the forefront in ensuring the employability and job-readiness of its graduates. Each and every course taught at INTI integrates industry-relevant curriculum that is constantly evaluated for relevance.

As part of that goal, INTI lecturers undergo Faculty Industry Attachment (FIA) programmes where they are seconded to top industry partners for several months. Lecturers go through an orientation and on-boarding process including real-world scenarios in order to gain an in-depth understanding of what a new graduate hire will experience and what are the current demands of the job market.

INTI has established Industry Advisory Boards (IAB) that call upon active and influential professionals as well as recognised leaders in each industry ranging from Business, Engineering, Hospitality, Art and Design, and Information Technology to advise the academic boards on curriculum design and course delivery. This ensures that students will acquire the knowledge and soft skills that can be immediately applied from the first day of work.

REAL WORLD EMPLOYER PROJECTS

INTI maintains close ties with the world’s leading companies to enable students to gain invaluable work experience before graduation. To date, INTI has collaborated with over 450 top-tier employers across a host of industries such as Microsoft, General Electric and Mercedes-Benz, and is constantly expanding its list of collaborative partners to ensure industry relevance.

As part of their programme syllabus, INTI students are divided into teams with complementary skill sets and assigned to projects that critically test their knowledge and allow them to develop and apply their soft skills to actual business scenarios. These projects allow students to experience first-hand challenges faced by businesses while learning to apply industry best practices in actual conditions faced in the real world. Upon graduation, an INTI student will have a decisive edge with a storehouse of practical experiences and worldwide employability.

CLIENT: MAYBANK MALAYSIA

MAYBANK RECRUITMENT DRIVE PROJECT

CLIENT: POLYMER COMPOSITE ASIA (PCA)

MECHANICAL ENGINEERING DESIGN PROJECT

CLIENT: MOO COW INTERNATIONAL SDN BHD

MOO COW MULTIDISCIPLINARY PROJECT ON FUNCTIONAL FOOD
BUILD YOUR PERSONAL BRAND

Every year, more and more graduates join the workforce. Among a sea of graduates, there’s only one decisive way to stand out from the crowd and to get the job that you want - to demonstrate outstanding 21st century skills and gain work experience even before you graduate.

STAND OUT FROM THE CROWD WITH EXCEPTIONAL EMPLOYABILITY SKILLS

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.

Linkedin

BUILD YOUR PERSONAL BRAND

Inti

Hands-on learning experience

Practical knowledge from the get-go

Linkedin

Building your personal brand and your link to a world of opportunities

The world’s leading professional networking site, Linkedin is used by industry professionals to connect with one another, enhance their visibility in the competitive job space and access jobs worldwide. INTI has established a collaboration with LinkedIn that leverages its powerful connections, and offers training for students to create their personal brand and profile that elevates their opportunities for employability. To get INTI students started on their profile, regular workshops are conducted to teach students how to create a compelling resume that will resonate with potential employers. With a complete, job-ready Linkedin profile even before they graduate, INTI students have the perfect platform to build and enhance their personal brand.

Google My Business

Increase your skills with the latest digital tools from the experts

Google Activate is an extracurricular program by Google in partnership with INTI International University & Colleges, where students reach out and help small business owners in their community to take their first step towards digitization and growing their businesses. Students will have access to free, face-to-face and online courses in Google My Business and related digital solutions, which will help them develop their own competencies in digital brand development. Open to all students, this program offers practical experiences in digitizing businesses and improving brand visibility, important competencies for students entering the 21st century workplace or in their own entrepreneurial pursuits.

Microsoft Virtual Academy

Master skills from one of the world’s biggest names in technology

Through INTI’s close ties with Microsoft, students enjoy access to the prestigious Microsoft Virtual Academy. This portal is designed and managed by Microsoft to offer cutting edge courses in a host of topics on technology, and covers everything from coding to mobile app development in 14 different languages. INTI students get access to these courses for free and those who successfully master these subjects will receive certifications and credibility for their future employment.

Bi-annual Parent/Teacher Meetings

Get valuable feedback and grow

To keep abreast of a student’s academic progress at INTI, both students and lecturers have access to the Blackboard Academic Learning system which helps them track the areas for improvement. Parents and caregivers are also invited twice a year to meet with the student’s lecturers and academic staff to discuss their academic performance and explore ways to enhance it.

The Mentor-Mentee Programme

Expand your social circles and future horizons

New students and international arrivals at INTI are paired up with a senior student who acts as a role model and offers assistance in easing them into academic life. The mentor-mentee programme effectively supports new students to form social bonds and helps them become a part of the close-knit INTI community. These social bonds are invaluable and provide a significant part of the support a student receives during their journey at INTI.
EMPLOYER PROJECT IN BIM (BUILDING INFORMATION MODELLING)

Project Title:
BIM workflow in Interdisciplinary Academic Environment

Programme:
Bachelor of Science (Hons) in Quantity Surveying

The Issue
To apply the theoretical knowledge of using BIM in simulated construction project

The Project Brief
A mirroring project titled, “BIM Workflow in Interdisciplinary Academic Environment” was conducted between Universidad Europea, Spain, and INTI International University on a school building project. INTI International University students from Civil Engineering, Mechanical Engineering, and Quantity Surveying disciplines (who were consulted by lecturers from the respective disciplines) worked together with the university, to design and generate BIM models. They designed and generated BIM models in terms of architectural, structural and mechanical designs, which further contributed to energy and clash analysis. 24 of INTI International University students were divided into six key teams, and coordinated with the representatives of Universidad Europea in completing the task by 25th of April 2018.

Applying Classroom Knowledge
The students applied classroom knowledge such as measurement techniques, and BIM application skills, to complete the project.

The Outcome
The result was a success, as it improved students’ knowledge and understanding of construction drawings and technologies, and enhanced their visualisation. They gained a deeper understanding of what the project was all about, through the collaboration with the partner university. The students also received an opportunity to interact with the professional team, and learned a lot about the construction procedures.

Key Learnings
This project has successfully helped students improve their measurement skills in both manual and software approaches. Furthermore, they had the chance to enhance their presentation skills and public speaking techniques. The students were also able to describe the designs, and plan a process of a construction project.
EMPLOYER PROJECT WITH POLYMER

Project Title: Accelerated Reliability Test and Investigation of Discoloration of Vinyl Material in Polymer Composite Asia

Programme: Bachelor of Engineering (Hons) in Mechanical Engineering

THE ISSUE
Polymer Composite Asia proposed a final year project on the study of vinyl material. The vinyl material is widely used in the corporate signage industry, and it is exposed to various extreme outdoor environments — which often result in discoloration. According to clients, the discoloration on the vinyl material should only occur at least after the 7th year of usage. After that, they would need to carry out a reliability test on the material, to prove that the discoloration should start after the 7th year mark, under extreme conditions. A model was needed to simulate the environment to replicate the behavior of the material in various conditions.

APPLYING CLASSROOM KNOWLEDGE
Students applied classroom knowledge such as solid mechanics, materials design, and reliability methodology to execute the project. They were able to conduct thorough research on the characteristics of vinyl materials and factors that affect the discoloration of them, used in Shell corporate signage. They were able to understand the relationship between mean time to failure, mean time between failures, and mean time to repair. They also conducted experiments to design a model as a testing simulator to replicate the behavior of the materials in various conditions.

KEY LEARNINGS
Through this collaboration project, students learned how to deal with real-life projects, and understand the constraints given by the client and industry. An opportunity to work alongside engineers in the industry was also in their favour, which provided them a greater perspective and value to their learning experience. These industrial collaborations introduced students to real-world challenges — where experienced supervisors from the industry and faculty are able to provide different perspectives, with a good balance of theoretical foundation, and proper problem-solving process.

THE OUTCOME
Students were able to conduct thorough research on the characteristics of vinyl materials, and factors that affect the discoloration of them, used in Shell corporate signage. They were able to understand the relationship between mean time to failure, mean time between failures, and mean time to repair. They also conducted experiments to design a model as a testing simulator to replicate the behavior of the materials in various conditions. They also managed to conduct an aggressive programme of accelerated life to test for the discoloration of vinyl materials. In addition, they also designed a model as a testing simulator by replicating the site environment. In the end, they successfully verified the solution data with experimental measurements, in terms of reliability, for a 7 year guarantee period of usage.

EMPLOYER PROJECT WITH VILTECH TECHNOLOGY

Project Title: Proximity InfoBase System (Mobile App Development and Web Based Content Management System)

Course: 3+0 Bachelor of Engineering (Hons) in Electrical & Electronic Engineering - Final Year Project

3 students were asked to help in the development of Proximity InfoBase System for their Final year projects with Viltech Technology Sdn Bhd

THE PROJECT BRIEF
To create a location-based contextual information system using mobile, web and Bluetooth 4.0 technology (BLE). For indoor and outdoor. Close proximity (10cm to 100m).

THE REAL TEST
Viltech technology Sdn Bhd shall provide BLE devices (Beacon) for development purposes. INTI students to provide the server to host content, iPhone and Android phone to test the system

CULTIVATING AN ALL-AROUND EXPERIENCE
This collaboration has exposed the students to the industrial experiences hence they could taste the working live with certain deadlines and expectations from the industry. The students are able to work and cooperated alongside engineers in the industry to provide server to host content, iPhone and Android phone to test the system for their Final year projects with Viltech Technology Sdn Bhd

ONCE-IN-A-LIFETIME OPPORTUNITIES
In the future, these students will have strong programming skills to work with different hardware and software. Throughout this project, the students have learned how projects are being carried out in the industry with tight deadline and how they must deliver to meet requirement.

THE KEY LEARNINGS
- Students learned how to handle the Proximity InfoBase System project by using mobile, web and BLE technology.
- They managed to work and cooperated alongside engineers in the industry to provide server to host content.
- They tested the system using iPhone and Android phone.

THE OUTCOME
- Students successfully created a location-based contextual information system.
- They managed to meet the deadlines and expectations from the industry.
- They learned to work and cooperate with industry professionals.

THE REAL TEST
- Viltech Technology Sdn Bhd provided BLE devices for development purposes.
- INTI students provided the server to host content.
- The system was tested on iPhone and Android phone.

CULTIVATING AN ALL-AROUND EXPERIENCE
- This collaboration exposed students to industrial experiences.
- Students learned how to work live with deadlines and expectations.

ONCE-IN-A-LIFETIME OPPORTUNITIES
- Students will have strong programming skills.
- They will work with different hardware and software.
- They will learn how to meet tight deadlines and deliver projects.
HEAR WHAT OUR ALUMNI SAY

ALBERT WOON
Position: Civil Servant, Singapore
Course of study at INTI: 3+0 Bachelor of Engineering (Hons) in Electrical and Electronic Engineering, University of Bradford, UK

INTI alumnus Albert Woon did us proud when he won the National Transport Gold Award for Leadership in 2015. Currently attached to the Singapore civil service, Albert enrolled in the programme, and later went on to pursue his Project Management Professional certification and Prince2 Practitioner certification.

I chose to join INTI because of its reputation as one of the best local colleges with one of the highest graduate employability rates. My lecturer from my previous colleges was also instrumental in encouraging me to take up this course and to explore the job opportunities pursuing this course could open up for me. With a strong paper qualification, I was able to secure a job with the Singapore Civil Service quite quickly, so I’m really glad I made the right choice from the start!

I learned so many things at INTI, even outside of the classroom. Spending time with my friends helped me realise that we can learn new things by observing the actions of others. My mentors at colleges gave me many useful pointers on what is the best and worst way to handle a problem. One of the most important things I learnt at INTI was the importance of time management, whether by being punctual to classes or meeting deadlines for assignments.

By overcoming the problems and challenges I faced in my college projects, I learned that success is more than just achieving broad goals and big objectives. It means knowing how to minimize the wastage of input, to reduce the unproductive use of scarce resources and to consider all the factors of production, to be mindful of cost overruns and to be aware of the consequences from a failure to meet deadlines. All these experiences provided me with a learning curve that helped me to excel at my current job.

My advice to students who are about to enter the working world is to have integrity, commitment, and to adopt the correct mindset. One of the biggest global issues facing businesses today is the lack of honesty and integrity in business conduct. Learn what it takes to always do the right things, and not just doing things right.

AMEER AZHAR FADZILAN
Job title: Product Engineer, Misi Setia Oil & Gas Sdn Bhd
Course of study at INTI: B.Eng. (Hons) in Mechanical Engineering

At only 27 years old, Ameer Azhar Fadzilan is a Product Engineer with company, a seasoned triathlete, a well-known cyclist in the cycling scene, and a proud father of two. Juggling his commitment as Product Engineer, father, and athlete, Amir lists his disciplined time management as a skill that he perfected during his years of studying and playing sports in INTI. Sports aside, Amir tells us how INTI’s field trips helped him to find his place in the oil and gas industry.

When I first visited INTI back in 2009, it still held the status of ‘University College’. After learning about the curriculum and the facilities during a campus tour, I had full confidence that INTI would achieve full university status. It was their partnerships with top universities in the UK and North America that sealed the deal for me. True enough in 2010, the Malaysian Ministry of Higher Education upgraded INTI University College to INTI International University. I also liked that the Nilai campus was away from the busy city as I was able to focus on my studies and pursue the various sports activities offered on campus.

My decision to pursue a career in oil and gas started with university field trips. To find where I belonged, I would attend every field trip organised by the School of Engineering and learned about the different industries. From those field trips, I picked the best company to do my internship with – PETRONAS Penapisan Melaka. With my internship experience with PETRONAS, I found a burning enthusiasm to learn more about the industry. Plus, the oil and gas sector had promising opportunities for growth which was a priority in my job search.

As oil and gas is a demanding industry, the first year of work was very challenging. Nonetheless, I made a wide networking circle within professionals from the industry and during the first year, I delivered quality work with results that surpassed my KPI. That won me the respect of my company’s top management.

To be prepared for the working world, you need to sharpen your soft skills. As much as employers appreciate your qualifications, your soft skills will be the deciding factor in whether you land your dream job. Trust me, it’s a challenging world out there, so get out of your hostel room and start interacting with everyone, participate in extra-curricular activities, and put your hand up for committee roles.
Farhaa Bibi Naheeda Suddoo
Job Title: Civil and Structural Engineer
Course of study at INTI: Bachelor (Hons) in Civil and Structural Engineer, Dual Award with University of Bradford, UK

Farhaa Bibi Naheeda Suddoo always had a burning curiosity about the way the world works: How did the roof on our heads come into existence; why are the traffic lights the way they are; where does all the rainwater go? The self-professed science buff tells us how INTI provided her with a platform to achieve her dream of becoming a Civil and Structural Engineer.

I first heard about INTI at a Malaysian Education Fair back in my hometown of Mauritius. Having just been awarded a scholarship, I naturally wanted the best university I could find to study Civil Engineering. After comparing the curriculum and the campus location with other options, there was no question in my mind that INTI would be my best choice, as it had a conducive environment, a rigorous curriculum and fantastic facilities. I was also attracted by the fact that INTI offered a competitive dual award Civil Engineering programme together with the University of Bradford, UK. I really liked the ease with which the procedures were being carried out, and the fact that assistance was offered throughout my journey at INTI International University.

With peace of mind, I was able to fully concentrate on my studies and make the most of my learning environment. My dedicated lecturers, a dynamic course, and exposure to so many different facets of the engineering discipline helped me to do well in my field of study, and eventually led me to achieve my first class honours degree. It was the best feeling in the world to make my parents proud after all the sacrifices they had made to help me stand on my two feet today.

In addition to the skill sets I learned at university, I was provided with ample learning opportunities that helped me find my place in the professional world. During my internship, I met a successful female engineer who was very inspiring. She showed me that in the 21st century, the sky is the limit for women in our profession. She solidified my ambition to be a civil engineer and to achieve as much as she had.

To be a successful leader, strive harder, be smarter, and better yourself at every opportunity. Never be satisfied with who you are today. Remember that you can always be better and never stop improving yourself. The working world is cruel, but be kind as everyone is facing their own difficulties in life. See the positives in every day. Be thankful for your blessings and give back to others who are less fortunate.

Yadhavsingh Jaddoo
Job Title: Mauritius Tourism Authority
Course of study at INTI: BSc (Hons) Quantity Surveying

Once a sheltered boy living in his home country of Mauritius, Yadhavsingh Jaddoo saw the importance of expanding his horizons by getting an overseas education. After a whirlwind four years of living independently and studying 5,560km away from home, he made his parents proud by completing an Honours Degree in Quantity Surveying. Yadhavsingh has now come full circle by returning home to serve his country. He now works with the Mauritius Tourism Authority, under the aegis of the Ministry of Tourism and External Communications.

I first heard about INTI when I was looking for a study abroad experience. I found that INTI offered the most interesting Quantity Surveying programme compared to other institutions. I liked that the degree touched on different aspects of construction, project management and its economic impact. It was not only restricted to construction and offered great insights on how to manage any project.

The best way to develop soft skills is by participating in university activities and volunteering as an organising committee member. You will learn a lot about working in teams and overcoming challenges no matter how big they are. For me, the experience equipped me with the proper tools to take on both work and life challenges. It gave me the confidence in making informed decisions, especially during difficult situations.

To meet people in the industry, attend as many seminars and workshops as you can. Networking is very important; it’s as much about knowing the right people as it is about having the right qualifications. My first job, an internship with a reputable company, was secured through strategic networking.

The secret to effective studying is to look for the interesting aspects of the subject you are studying. Look for what your mind craves for when it comes to acquiring knowledge, and go satisfy your cravings. Studying is not about sitting at the library 24/7. Studying is about learning from experience, trying new things, taking up challenges, testing yourself, and most importantly, sharing your knowledge with others.
INTI International University & Colleges isn’t just about academic programs alone. Across all of its six campuses in Malaysia, students are encouraged to embrace their passion and enhance their skills in a meaningful way. With a range of clubs and societies that offer a host of activities and interests, along with the opportunity to participate in study trips around the globe, INTI provides a nurturing environment that truly lets you spread your wings and expand your horizons.

Beyond that, INTI is a place where you can form bonds and friendships that will last you for a lifetime, while acquiring the soft skills that will hold you in good stead wherever you go in life. This pursuit of passion and camaraderie among our students has driven them to greater heights with a host of self-initiated projects that have taken them across the globe.

‘The Internet of Things (IoT)’

Rubicon encourages students to participate in this stimulating case study competition to develop critical thinking skills, where they are required to analyze and present their findings on the real world industry. Students as well as broaden their knowledge of the environment in the real world industry. Students as well as broaden their knowledge of the environment in the real world industry. Students as well as broaden their knowledge of the environment in the real world industry. Students as well as broaden their knowledge of the environment in the real world industry.

“The Internet of Things (IOT)”

INTI students won third place, ahead of teams from Germany at the Rubicon International Business Case Competition 2017. Rubicon encourages students to participate in this stimulating case study competition to develop critical thinking skills, where they are required to analyze and present their findings on the real world industry.

“Finding ingenious ways to automate for a greener environment, four mechanical engineering students from INTI International University have developed a robot with built-in Artificial Intelligence (AI) to keep recreational parks clean, by picking up and setting out garbage for recyling. The second year students initiated projects that have taken them across the globe.

“The Soft Skills that will Hold You in Good Stead”

Beyond that, INTI is a place where you can form bonds and friendships that will last you for a lifetime, while acquiring the soft skills that will hold you in good stead wherever you go in life. This pursuit of passion and camaraderie among our students has driven them to greater heights with a host of self-initiated projects that have taken them across the globe.

“Being a part of the club allowed me to unleash my potential by helping me explore my skills and capabilities beyond my comfort zone, and enabled me to establish a solid foundation with like-minded entrepreneurs. It also provided me with many opportunities to converse with numerous tech industry related forums and discussions which in turn helped me enhance my organizational and time management skills.”

JOSHUA MATHEWS
Technopreneur Club
A MIND IS A TERRIBLE THING TO LOSE

HEALTHY MIND. HEALTHY BODY. WE’RE HERE TO HELP OUR STUDENTS ACHIEVE BOTH.

It’s a fact, that college is not a walk in the park. The transition from high school to college is a significant change in one’s lifestyle and being away from friends and family in a new and unfamiliar environment can be daunting. For many students, this transition, while exciting, can be tough to cope with.

According to the Ministry of Health, Malaysia, in 2016 alone, one in five Malaysian students suffered from mental health problems. What’s worse, a prolonged state of mental health issues can result in permanent consequences, including schizophrenia, depression, insomnia and ultimately suicidal thoughts. According to the World Health Organization, suicide was the second leading cause of death among individuals aged between 15-29 years old, with a suicide attempt occurring every three seconds.

AS A STUDENT AT INTI, YOU’RE NEVER ALONE. WE’RE HERE FOR YOU.

M - MENTALLY
Adjusting to the rigours of college life can be a daunting task. This is on top of potential family, health and relationship problems which may be more than what a student can bear. INTI’s professionally trained team of student counsellors are able to lend a friendly ear and a helping hand through free, professional student counselling in a confident and discreet manner. Students are also exposed to workshops that highlight pressing mental health issues such as recognizing and addressing the risks of suicide, identifying depression, ways of combating stress and more.

E - EMOTIONALLY
Mental health is but one component to achieving a well-balanced and healthy lifestyle. Emotionally healthy people are able to cope with the challenges that life throws at them and have the ability to establish and maintain healthy social ties with those around them. To avoid feelings of isolation or alienation, INTI assigns a senior student mentor to new students who guide and help them to adjust to academic life. Students can also participate in group counselling sessions to understand the dynamics and nuances of managing relationships and learn to cope with life’s challenges.

S - SOCIALLY
INTI offers robust social programs across all its campuses that engage students in a positive and meaningful way. At INTI there are a rich array of clubs, social networks and activities - many of which are proactively initiated by fellow students - that promote social interaction, aid in improving soft skills and encourage students to contribute to their communities.

A - ACADEMICALLY
The demanding pace of higher education requires students to rapidly master a host of technical skills and new ways of learning to succeed. With the integration of the Blackboard Learning Management system into INTI’s first year experience programs, students gain a bird’s eye view of their progress and can easily identify areas for improvement with the help of their lecturers and academic staff. These are also supplemented with regular workshops that help acclimatise students to the rapid pace of learning and usage of the Blackboard system.

To help you adapt to the demands of college life, INTI has developed the MESA PROGRAMME. Developed by INTI’s team of experienced student counsellors through research in established student counselling methodologies, MESA serves as a bedrock for students throughout their journey at INTI, helping students to excel Mentally, Emotionally, Socially and Academically (MESA).

Providing a support group and source for counselling and guidance, MESA helps new and current students to cope with the demands of academic life and provides various platforms for them to develop into well-adjusted, successful individuals in life. Here’s how various aspects of the INTI MESA Programme contribute to the mental health and happiness of our students:

MEET SOME OF INTI’S COUNSELLING TEAM. WE’RE HERE FOR YOU.

All INTI campuses have accredited and professionally trained counsellors who are available for consultation and counselling services.

LIM SIOW YEN
Student Counsellor

With a Master of Counselling from the University of Malaya and a degree in Science and Education (Guidance and Counselling) from University Technology Malaysia, Siow Yen has extensive experience in dealing with students enduring relationship issues, depression, addiction and more.

TEOW KER SHIN
Student Counsellor

With M. Edu in Guidance and Counselling from the National University of Malaysia, Ker Shin has a friendly smile and a kind word for everyone she meets and is a familiar face at INTI. She has extensive experience in counselling students on life issues and also conducts regular workshops for personal management and development.

WITH A MIND OF ITS OWN.

To provide a comprehensive understanding of mental health, INTI offers an ongoing series of workshops aimed at raising awareness and providing insights into mental health issues. The workshops cover a range of topics such as mental health awareness, stress management, and coping strategies. These workshops help students to develop a better understanding of mental health issues and the resources available to support them.

INFORMATION AND RESOURCES

INTI’s MESA PROGRAMME is supported by a range of resources and services aimed at promoting mental health and well-being. These include confidential counselling services, mental health workshops, and access to a range of online resources.

Mental health is a vital aspect of overall well-being, and INTI is committed to providing the resources and support needed to help students thrive academically and personally.
ENTRY REQUIREMENTS

Diploma in Civil Engineering
Diploma in Mechanical Engineering
Diploma in Electrical & Electronic Engineering

SPM / O Level:
3Cs including Mathematics and 1 Science / Technical / Vocational subject and a pass in English

IGCSE O-Level:
3Cs (including Maths and one Science subject, and pass in English)

IELTS:
5.0 or equivalent for International Students

UCEC:
3Es (including Maths & Science, pass in English)

STPM/ equivalent:
Pass in STPM or equivalent with a pass in SPM Maths, English and 1 Science/ Technical/vocational subject

IB:
Passed International Baccalaureate (IB) Middle Years Programme (MYP) Certificate including English with Credit in Maths and one Science subject

Engineering / Technology Engineering Certificate:
Recognised certificate

Vocational / Technical / Skills Certificate:
Recognised certificate with 1 year of related working experience or 1 semester of bridging programme

Foundation / Pre-U / Matriculation:
Related foundation/pre-u/matriculation programme approved by Ministry of Higher Education with credit in SPM Maths and 1 Science/Technical/ Vocational subject

Other qualifications deemed equivalent to STPM / A-Level by Malaysian Qualifications Agency:
Minimum overall average of 65%, inclusive of minimum 65% in Mathematics and Physics

Diploma in Quantity Surveying

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

Engineering Degree

STPM:
Minimum 2C including Mathematics and Physics

A Levels:
Minimum “Good Principal Passes” C and above for Mathematics and Physics

Note: “PASS GRADE D – Subject to approval from HOP & Registrar with remedial Classes”

UCEC:
Minimum 5 credits, including Mathematics and Physics

Local Matriculation:
Minimum CGPA 2.0

Foundation from other University / College:
Minimum CGPA 2.0

WAEC/NECO:
Maximum aggregate of 15 points out of best 5 subjects, inclusive of minimum B’s in Mathematics and Physics

Diploma / Advance Diploma / Degree / equivalent:
Pass
- Subject to School discretion after reviewing transcript & syllabus. Max credit transfer of 30% of the program total credits

Other qualifications deemed equivalent to STPM / A-Level by Malaysian Qualifications Agency:
Minimum overall average of 65%, inclusive of minimum 65% in Mathematics and Physics

International Baccalaureate:
Minimum 26/42 points from 6 subjects (inclusive Mathematics & Physics / Chemistry)

SACE International:
(formerly known as South Australian Matriculation - SAM)
Minimum average of 65% in 5 subjects, inclusive of minimum scores of 65% in Mathematics and Physics

Bachelor of Science (Hons) Quantity Surveying

Foundation:
CGPA 2.50 and above

Diploma:
CGPA 2.67 and above

STPM:
2 grade C (NGMP 2.0) and above

SACE:
5 courses with TER 70

NSW-HSC:
10 courses with ATAR 70 and above

TEE:
4 or 5 courses with TER 70 and above

ATAR:
Year 12 with 70 above

CPU:
6 courses with average score of 65 and above

UCEC:
5 courses with grade B and above

A Level:
2 courses passed

Plus:
SPM with 3 credits including Mathematics and Bahasa Malaysia or English

English Requirements

- Pass 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 program, based on the University’s decision.

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

* subject to meeting entry requirement

Subject to meeting entry requirement

INTI International University Degree
(Civil, Mechanical) - 4 Years,
Quantity Surveying - 3.5 Years

3+0 Bachelor of Engineering (Hons) in
Electrical & Electronic Engineering,
INTI International University Degree
3.5 Years

Quantity Surveying -
Civil, Mechanical) -
Coventry University, UK
3 Years

Electrical & Electronic Engineering)
Civil or Mechanical Engineering;
Quantity Surveying;
INTI Diploma
2.5 Years

Year 2 of the degree*

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

**Note:** "PASS GRADE D – Subject to approval from HOP & Registrar with remedial Classes"
BACHELOR OF ENGINEERING (HONS) IN MECHANICAL ENGINEERING

Students will be prepared for careers in energy transfer & analysis, machine & electromechanical designs, manufacturing & production, ergonomics & man-machine symbiosis, environmental design & 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

You will also learn to develop business, interpersonal and managerial skills to progress quickly into responsible positions in mechanical or manufacturing industries and their supply chains.

The programme has been granted accreditation by the Malaysian Qualifications Agency (MQA) in 2011, and accreditation by the Engineering Accreditation Council (EAC) since 2012.

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
• Recognized by Board of Engineers Malaysia
• Member of Institution of Mechanical Engineers (MeeCE) Student Chapter

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

Offered at
INTI International University

Duration
4 Years

Programme structure

Year 1
• Electrical Circuits
• Engineering Drawing
• Engineering Materials
• Engineering Mathematics 1
• Engineering Perspectives
• Engineering Statics
• Introduction to Programming
• University English

Year 2
• Analytical Methods
• Electronic & Microprocessors
• 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 & Materials
• Operations & 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 & Refrigeration
• Computational Thermofluids
• Embedded Systems 1
• Ergonomics
• Finite Element Method
• Hydraulics & Pneumatics
• Manufacturing Systems
• Robotics

Oil & Gas elective** subjects
• Air Conditioning & Refrigeration
• Computational Thermofluids

MPU subjects
• Bahasa Kebangsaan A*
• Community Service & Co-curriculum
• Entrepreneurship
• Ethnic Relations (Local students) / Malay Communication 2 (International students)
• Islamic & Asian Civilisation (Local students)/Malaysian Studies (International students)
• Presentation Skills

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

Offered at
INTI International University

Duration
4 Years

*For Malaysian students who do not have a credit in SPM BM.
**Offering of electives, please consult the Head of Programme.

General elective* subjects
• Air Conditioning & Refrigeration
• Computational Thermofluids
• Embedded Systems 1
• Ergonomics
• Finite Element Method
• Hydraulics & Pneumatics
• Manufacturing Systems
• Robotics

Oil & Gas elective** subjects
• Air Conditioning & Refrigeration
• Computational Thermofluids

MPU subjects
• Bahasa Kebangsaan A*
• Community Service & Co-curriculum
• Entrepreneurship
• Ethnic Relations (Local students) / Malay Communication 2 (International students)
• Islamic & Asian Civilisation (Local students)/Malaysian Studies (International students)
• Presentation Skills