



TAYLOR'S
UNIVERSITY

Wisdom • Integrity • Excellence

Rise With The Best™

ENGINEERING





THE FUTURE OF ENGINEERING

At Taylor's University, we are constantly keeping ahead to ensure our students graduate future-ready. This 4th Industrial Revolution (4IR) will change the way business is done. The revolution is characterised by a range of new technologies that are fusing the physical, digital and biological worlds, impacting all disciplines, economies and industries, and will challenge the status quo of education and its graduates.

Throughout history, the progress of civilisation has been driven by engineering. In recent decades, globalisation driven by rapid technological change, has been transforming the world in almost every imaginable way.

The National Academy of Engineering (NAE) in the USA has identified 14 Grand Challenges, which engineers need to address in the 21st century, in order for humankind to flourish and progress into the next century. These Grand Challenges cover the areas of:



**ENERGY &
ENVIRONMENT**



HEALTH



SECURITY



EDUCATION

RESEARCH FUELS INNOVATION

ENERGY & ENVIRONMENT



MAKE SOLAR ENERGY ECONOMICAL

Solar energy provides less than 1% of the world's total energy, but it had the potential to provide much more.



PROVIDE ENERGY FROM FUSION

Human-engineered fusion has been demonstrated on a small scale, e.g. the use of lithium in our laptop batteries. The challenge is to scale-up the progress to commercial proportions in an efficient, economical and sustainable way.



DEVELOP CARBON SEQUESTRATION METHODS

Engineers are now working on ways to capture and store excess carbon dioxide to prevent global warming.



MANAGE THE NITROGEN CYCLE

Human-induced challenges in the global nitrogen cycle pose threats to the environment. With better fertilisation technologies and by capturing and recycling waste, engineers can help restore balance to the nitrogen cycle.



PROVIDE ACCESS TO CLEAN WATER

Affordable, advanced technologies could make a difference for millions who face shortages of access to clean water.

HEALTH



ADVANCE HEALTH INFORMATICS

Stronger health information systems can not only improve everyday medical visits, but they are also essential to counter pandemics and biological or chemical attacks.



ENGINEER BETTER MEDICINES

Engineers today are working on developing new systems to use genetic information, sense small changes in the body, assess new drugs and deliver vaccines that meet the unique needs of an individual patient.

SECURITY



PREVENT NUCLEAR TERROR

As nuclear technologies and nuclear weapons continue to develop, there is a growing need for technologies to prevent and respond to potential nuclear attacks or disasters.



SECURE CYBERSPACE

Despite serious breaches of cyber security occurring in the past, research and development for security systems continue to lag behind.



RESTORE AND IMPROVE URBAN INFRASTRUCTURE

Engineers must face the formidable challenge of modernising the fundamental infrastructures that support civilisation and create more sustainable urban environments.

EDUCATION



REVERSE-ENGINEER THE BRAIN

Discovering the secrets if how living brains work may offer the best guide to engineering artificial intelligence (AI) on a larger scale. Reverse-engineering the brain promises great advances in healthcare, manufacturing and communication.



ENHANCE VIRTUAL REALITY

True virtual reality creates the illusion of actually being in a different space, and can be used for training treatment and communication.



ADVANCE PERSONALISED LEARNING

With the growing appreciation of more "personalised learning", there is a need for instructions to be customised based on learning styles, speeds and interests to match the students.



ENGINEER THE TOOLS OF SCIENTIFIC DISCOVERY

In the century ahead, engineers and scientist will continue to work hand-in-hand in the great quest for understanding many unanswered questions in areas like biological research, human civilisation and quantum physics.

WHY ENGINEERING AT TAYLOR'S?

Rise With The Best

Since our establishment in 1996, Taylor's School of Engineering (SOE) has the benchmark for engineering education and served as a role model for other institutions in the region. SOE adopts a holistic view of engineering education called Engineering+ that embeds industry and research throughout the curriculum and student experience, grooming engineers who are poised to become leaders and innovators of the industry.

ENGINEERING +

GRAND CHALLENGES SCHOLARS PROGRAMME

We are the 1st university outside of USA to run a Grand Challenges Scholars Programme (GCSP) approved by the National Academy of Engineering (NAE), USA.

EUFORIA

Our industry-immersion programme, entitled Engineering Undergraduates FOR Industrial Adoption. Our industry partners offer a fixed number of positions to high-performing students, adopt them for 4-years, thus completing 2 to 4 real life industry projects.

EUFORIA TYPE-R

EUFORIA Type-R is a research-based immersion. Students engage on high impact research projects with staff resulting in 2 indexed research publications.

EUFORIA XTREME

The programme is designed for selected students to undergo a 6-month internship with a reputable industry partner and still graduate within 4 years.



► YOUR FUTURE IS OUR PRIORITY

We ensure that our students are in touch with current and future trends and are well-equipped to embrace the challenges of the 4IR.



► TAYLOR'S CURRICULUM FRAMEWORK (TCF)

Breaking conventions to bring you the first-of-its-kind framework in Malaysia that allows you to mix and match modules to customise your degree.



► WORLD-CLASS STANDARDS, FACILITIES & ENVIRONMENT

Students at Taylor's Communication have access to the latest technology and state-of-the-art facilities.



► TAKING THE LEAD

We are the first engineering school in Southeast Asia to adopt the CDIO™ Initiative and register with the Grand Challenge Scholars Program (GCSP), enabling us to create engineers who are able to meet the real-world demands of their professions and provide solutions for the betterment of humankind.



► IGNITING ENGINEERING PASSION

We aim to produce passionate future engineers who dare to dream and challenge conventions in the field of engineering. To achieve this, we focus on a personalised learning approach that is heavily centred on project-based learning. Students are encouraged to explore specific areas and discover new dimensions of learning through various activities beyond the classroom.



► RESEARCH—DRIVEN EDUCATION

We are led by a strong research culture, embedded within a curriculum that is designed to address real-world challenges. Continuous research and exploration activities create engineers who understand the implications of their work on society and the future.



► INNOVATIVE EDUCATIONAL FRAMEWORK

SOE groom engineers with a 'big picture' view, through the implementation of the CDIO™ Initiative. We are also the first school outside USA to be registered with the Grand Challenge Scholars Program (GCSP), which aligns our teaching and learning with the real-world challenges identified by NAE.



► STRONG INDUSTRIAL ALLIANCES

We have established strategic ties with leaders of the engineering community, working closely with them to ensure that we deliver industry-relevant programmes that are aligned with the latest developments and trends of the profession. One of the top programmes we have is EUFORIA; that give our SOE students an opportunity-of-a-lifetime to join a reputable organisation and gain invaluable experience.

PUSH BOUNDARIES

INNOVATIVE & EXPERIENTIAL METHODS OF TEACHING & LEARNING

TAYLOR'S CURRICULUM FRAMEWORK (TCF)



FLEXIBILITY IN CUSTOMISING YOUR DEGREE

An increasing number of employers, including top conglomerates like Google and Deloitte, are placing less value on academic credentials. They prize talents with:

- APTITUDE
- PERSONALITY
- ACQUIRED SKILLS
- INDUSTRY KNOWLEDGE

This is supported by studies such as Corporate Recruiters Survey 2015.

The report released by the **Graduate Management Admission Council** showed that:

92% of recruiters surveyed would consider a candidate based on their proven ability to perform

AT TAYLOR'S, WE GET YOU READY!

The **TCF** is the first-of-its-kind in Malaysia



The uniqueness of this framework allows you to **CUSTOMISE YOUR DEGREE**

You can now **PAIR** your **ENGINEERING** major with other modules of your choice. Or even get a **2ND MAJOR** in other fields to complement your degree.



In other words, you have **CONTROL** of your **FUTURE!**

THE **3** KEY STRENGTHS



FLEXIBLE

Transdisciplinary, highly flexible degree to design



BROAD-BASED

Exposure across multiple discipline areas



PERSONALISED

Personalise your course of study based on your own unique interests, strengths, aspirations and career ambitions

THE **3** KEY BENEFITS



GRADUATE MULTI-SKILLED

Be marketable with future-proof skills, enhanced with your unique interests and strengths



GRADUATE A GLOBAL CITIZEN

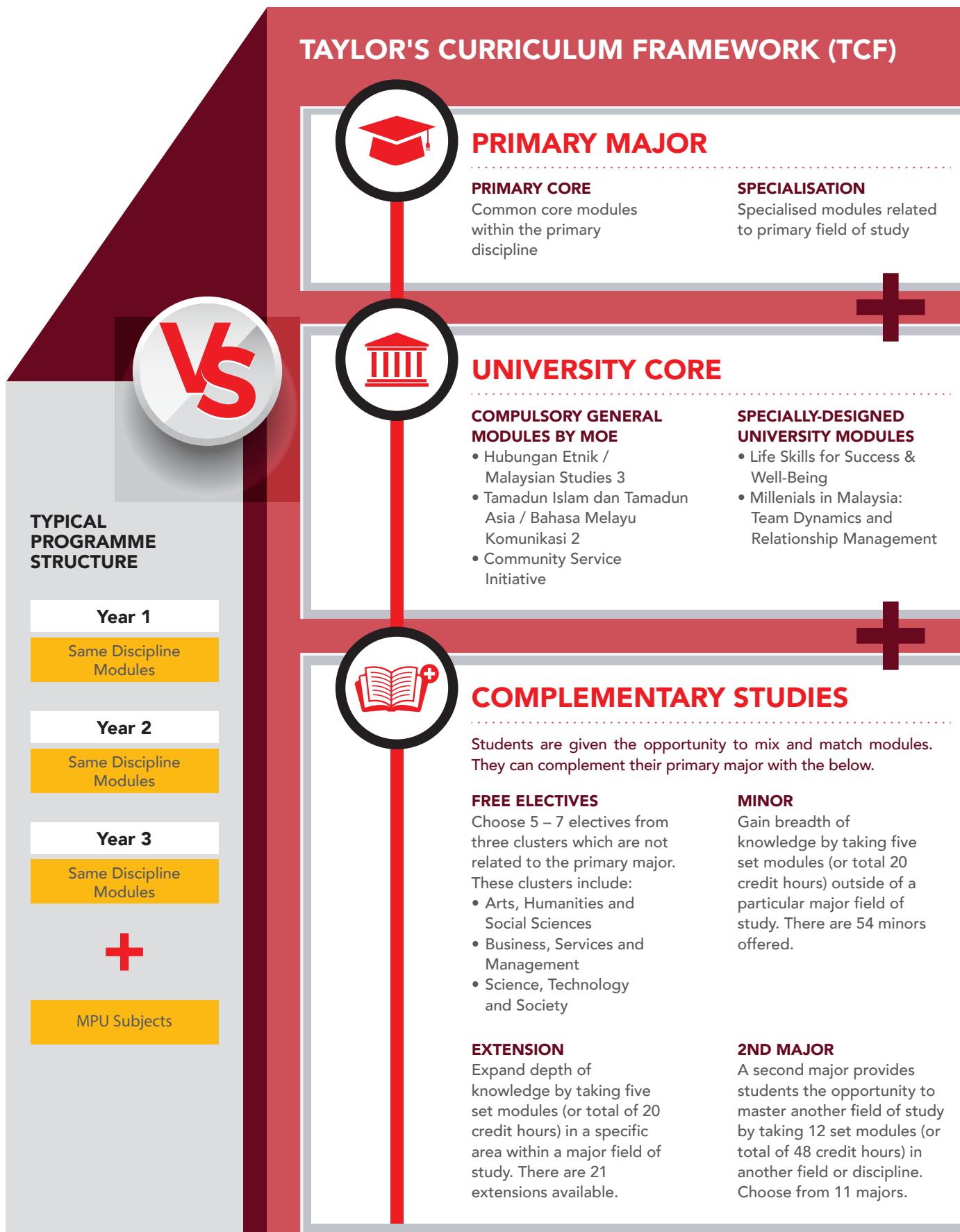
Be global and culturally adaptive through international mobility opportunities



GRADUATE FUTURE-READY

Be adaptable to high job mobility through independent self-directed learning

AN UNCONVENTIONAL FRAMEWORK





► IGNITING ENGINEERING PASSION

At SOE, we have a deep-seated belief that every student should embrace their passion. We inspire our students to explore new ideas, challenge the status quo, break boundaries and immerse themselves in a journey of continuous learning and discovery.

Our programme is heavily centred on Project-Based Learning (PBL). PBL enables students to acquire the depth and breadth of knowledge through the application of theories into real engineering solutions that are in-line with NAE's 14 Grand Challenges.

Students are encouraged to explore an area of the Grand Challenges that excites and stimulates them.

They are required to propose workable, real-life solutions which they will develop alongside a team of peers from different engineering disciplines. This exposes them to different disciplines within the field.

The hands-on learning is designed to fuel interest and passion in the field of engineering, and groom future engineers who have a heart for their profession.



Christopher Chew Mun Kit
*Bachelor of Engineering (Hons)
in Chemical Engineering*

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My team and I worked on a project entitled 'Indigenous Tobacco Mosaic Virus Flow Visualisation', which was selected to participate in the annual Malaysian Technology Expo. It was very eye-opening to pitch the project along industry experts and postgraduate students, to a panel of expert professors. My team and I learned about effective communications and presentation skills - the best part is we managed to clinch a Bronze medal from the event.

► RESEARCH-DRIVEN EDUCATION

Led by a strong research culture, we aim to develop future engineers who are able to look beyond engineering. We believe in grooming engineering graduates who are not only well-versed in their technical knowledge, but can also understand, appreciate and analyse their role as well as their impact on society's progress and existence.

We strive to create ethically-sensitive engineers who are aware of the ethical, social and environmental implications of their work.

RESEARCH CLUSTERS

In order to reiterate the purposeful nature of engineering research done at Taylor's, our research objectives have been realigned to the 14 Grand Challenges. To fully execute this, our staff and students form research groups or clusters to develop their respective solutions to address the Grand Challenges.

There are seven (7) clusters within SOE, and their respective Grand Challenges are:

01	Engineering Education Lab	Grand Challenges: 13
02	Energy Research Group	Grand Challenges: 1,2,3
03	Environment and Water Research Group	Grand Challenges: 4,5
04	Health Research Group	Grand Challenges: 6,7
05	Security Research Group	Grand Challenges: 8,9,10
06	Computer Intelligence Applied	Grand Challenges: 11,12,14
07	Teaching, Researching, Innovation & Learning (Thrall)	Grand Challenges: 13

EURECA CONFERENCE



All students are required to embark on a key research project in their fourth year of the undergraduate study which must be aligned with their research group's overall research objectives. The School organises the annual Engineering Undergraduate Research Catalyst (EURECA) Conference, where each student is expected to present their research paper as a pre-requisite for graduation.



Sean Malik
Bachelor of Engineering (Hons)
in Chemical Engineering
Process Engineer Junior
Project Engineer
Energy Strategy Consulting Sdn Bhd

“

The structure of the engineering programme here taught me core engineering skills through various projects and prepared me for the wide range of responsibilities an engineer would be entrusted with on the job.

► TAYLOR'S ENGINEERING FAIR

Every semester, SOE organises an Engineering Fair that showcases the students' works to the campus community, industry members and visiting academicians. This is an avenue for students to demonstrate their technical skills and knowledge, and increase their exposure to aspects of marketing, event organisation and project management.



APPLICATION OF NATURAL FIBRES IN ACOUSTIC PANEL

This project explored the opportunities to commercialise natural products such as coir, corn, oil palm fibres and their wastes, for general use. These products are found to be good sound absorbers at certain frequency bands.

Grand Challenge 14

LOW COST WASTE WATER TREATMENT

Through this project, students proved the potential of egg shell powder as a low-cost, environmentally-friendly absorbent for removal of Acid Blue 9 (textile dye).

Grand Challenge 5

QUADROCOPTER

This project aimed to design a cost efficient, aerodynamically and mechanically designed, 4-rotor helicopter to counter the disadvantages of the helicopter. The quadrocopter was installed with autopilot and long-range camera for navigation and rescuing operations.

Grand Challenge 13



Yap Wai Kit

Bachelor of Engineering (Hons) in Mechanical Engineering



MIND-CONTROLLED WHEELCHAIR

This thought-operated machine was designed to aid the disabled or elderly, and includes additional features such as a canopy, LED light, siren and camera. It is operated using EEG (Electroencephalography) - the decoding of brain waves.

Grand Challenge 11



Yvonne Lim

Bachelor in Engineering (Hons) in Chemical Engineering
PhD Candidate Taylor's University



Jonathan Chin Eu Tsun

Bachelor in Engineering (Hons)
Electrical & Electronic Engineering
Structural Physical Design Engineer
(Backend Design)
Intel Microelectronics Sdn Bhd

I was part of the Taylor's Racing Team, which exposed me to the commercial world and the industry. As the Marketing and Sponsorship Director of the project, I had to deal with people from various industries including motorsports. Not only did I acquire knowledge of the industry from the professionals, I was also able to gain knowledge of marketing and sponsorship, as well as polish my communication skills.

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The project-based learning challenged me to work outside my comfort zone and to grow in confidence, leadership, and work ethic. The opportunity I had to present a paper at MIT also gave me the foundation required to pursue a PhD candidature.

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The problem-solving skills that I have acquired through ongoing projects helped provide me with the framework to solve various challenges faced in my work, which is key to becoming a successful engineer.

► CDIO™ INITIATIVE

The CDIO™ Initiative was pioneered by the Massachusetts Institute of Technology (MIT), together with leading engineering schools in USA, Europe, Canada, UK, Africa, Asia and New Zealand. to address the gap between industry needs and the quality of engineering graduates being produced.

Students are instilled with engineering fundamentals in the context of the whole product life cycle (Conceiving - Designing - Implementing - Operating), and are able to:

- Master a deeper working knowledge of the technical fundamentals
- Lead in the creation and operation of new products and systems
- Understand the importance and strategic value of research work

SOE is the first Malaysian University to be accepted into this prestigious collaboration, joining the ranks of elite institutions like MIT, Stanford University and University of Sydney.

CDIO™ CONFERENCES AND TRAININGS

The faculty and students participate in various conference and training events organised as part of the CDIO™ Initiative, which facilitate the sharing of best practices and knowledge exchange as well as networking among leading institutions.

- CDIO™ International Conference 2013, Boston, USA
- LINC International Conference 2013, Boston, USA
- 7th MIT Conference on Computational Fluid & Solid Mechanics 2013, Boston, USA
- International CDIO™ Conference 2011, Lyngby, Denmark
- CDIO™ Regional Conference 2011 Beijing, China
- Harnessing Innovation Skills at CDIO™ Academy 2011
- International CDIO™ Conference 2010, Québec, Canada
- Training & Sharing Session with Vietnam National University



CDIO™ International Conference 2013,
Boston, USA



LINC International Conference 2013, Boston, USA



International CDIO™ Conference 2011,
Lyngby, Denmark



Training & Sharing Session with Vietnam
National University

► INNOVATIVE EDUCATIONAL FRAMEWORK

In order to address the widening gap between engineering education and real-world demands of the engineering profession, SOE has adopted the CDIO™ Initiative and registered with the Grand Challenge Scholars Program (GCSP).

Providing students with a 'big picture' view of engineering, the CDIO™ Initiative is woven into our project-based learning approach. We teach students to develop unconventional solutions, including revitalising a system or product to give it a new lease of life - a concept referred to as "cradle to cradle" development.

As the first engineering school in the region to adopt both these innovative frameworks, we are widely regarded as a pioneer in engineering education and have emerged as a benchmark for other institutions to observe and emulate.

► NAE GRAND CHALLENGE SCHOLARS PROGRAM



We are the first school outside of the USA to offer the Grand Challenge Scholars Program recognised by the National Academy of Engineering, USA.

The National Academy of Engineering (NAE) Grand Challenge Scholars Program (GCSP) is a combined curricular and extra-curricular programme with five components that are designed to prepare students to be the generation that solves the grand challenges facing society in this century.

The Grand Challenges are a call-to-action and serve as a focal point for society attention to opportunities and challenges affecting our quality of life.

For more details on GCSP,
visit www.grandchallengescholars.org



A black and white portrait of Tan Huey Meing, a young woman with long dark hair, wearing a white collared shirt and a dark jacket. She is framed by a circular border with a dotted pattern.

Tan Huey Meing
*Bachelor in Engineering (Hons)
Mechanical Engineering
Product Development Engineer
Continental Tyre Technology
Center Malaysia*

“

The Taylor’s School of Engineering encouraged me to propose new ideas and challenge the norms. It also gave me the opportunity to explore real-world challenges.

► JESTEC - PEER-REVIEWED JOURNAL



The Journal of Engineering Science and Technology (JESTEC) is an open access journal published by the SOE. JESTEC publishes and disseminates original peer-reviewed research articles, reviews and discussions on the latest developments in all fields of engineering, science and technology.

JESTEC is indexed by Scopus - the number one database in the world for indexing high-impact research.



Jang Kyung Moon
*Bachelor of Engineering (Hons)
in Mechanical Engineering*

“

Taylor's University provided me with the high-quality education that the engineering board looks for. I learned how to work effectively, emphasizing the professionalism that the engineering field demands.



Adib Bin Abdul Rahim
*Bachelor of Engineering (Hons)
in Mechanical Engineering*

“

For my industrial training, I was based in Qatar for 3 months and I was involved in a project for New Doha International Airport (NDIA). I was given the opportunity to meet and work with people around the world from countries like the Philippines, United Kingdom, Sweden and Germany.



WORLD-CLASS STANDARDS, FACILITIES & ENVIRONMENT

As your vested partner throughout your education journey, future-proofing you is our priority. To do that we ensure our students get all the service and facilities that are nothing less than world-class.

MULTIDISCIPLINARY LABORATORIES

SOE's multidisciplinary laboratories are designed for engineering students from all specialisations to come together, collaborate, learn and gain exposure to the different aspects of engineering study.

01	ADVANCED SIMULATIONS LABORATORY	This lab has powerful computers that enable students to simulate real-life challenges using software. The knowledge gained can be used to predict and improve the behaviour of engineering systems.
02	AUTOMATION & ROBOTICS LABORATORY	The lab allows teams to collaborate to produce robotic and automation solutions that can perform many industrial tasks that assist in increasing the accuracy and productivity of manufacturing facilities.
03	COMMUNICATION & CONTROL LABORATORY	This lab trains students to understand the principles behind building wireless communication systems and various automatic control systems.
04	ENERGY & FLUIDS LABORATORY	The lab facilitates understanding of different phenomena associated with the behaviour of fluids and the conversion and transfer of energy.
05	INNOVATION & PROTOTYPING LABORATORY	This one-stop station enables students to take products from the drawing board to the real world. Computer-aided designs are used together with the computer numerical control milling machine and the rapid prototyping machine.

06	MANUFACTURING WORKSHOP	The workshop is equipped with all the necessary machinery such as milling, lathe, drilling, grinding and welding machines needed to manufacture metal artefacts.
07	MATERIALS & SOLIDS LABORATORY	This lab is designed to perform experiments and research different aspects and properties of solid materials. This includes automotive, smart materials and building materials for heavy industries.
08	PROCESSES & REACTIONS LABORATORY	This lab facilitates the study of various chemical processes and reactions, to develop skills that are highly required by the oil and gas, food, pharmaceutical, and cosmetics industries.
09	RESEARCH LABORATORY	This lab supports the research-led teaching activities of the school, and provides the space for final year students to carry out their research.
10	UNIT OPERATIONS LABORATORY	This lab allows students to perform experiments of unit operations such as filtration, condensation, separation, evaporation, etc which is used in various industrial applications.

PASSIONATE & COMMITTED ACADEMICS

Our highly qualified and passionate faculty possess extensive industry experience and actively pursue research in key areas of specialisation. Across the board, 65% of our teaching staff are PhD-holders, and most of them have published their research papers in leading journals and publications. Our distinguished academic faculty includes 11 Chartered Engineers and 1 Professional Engineer, in the fields of chemical engineering, electrical and electronic engineering and mechanical engineering.



Muhammad Hidayat Bin Hamzah
*Bachelor in Engineering (Hons)
 Mechanical Engineering
 Product Engineer (Mechanical)
 Thye Heng Engineering Sdn Bhd*

“

Taylor's University has provided me with substantial knowledge, tools and the exposure needed to become a professional engineer.

BECOME FUTURE-PROOF

GLOBAL & LOCAL COLLABORATIONS &
LINKAGES WITH THE INDUSTRY & PANELS

STRONG INDUSTRIAL ALLIANCES

In our pursuit to bridge the gap between academia and industry, SOE has forged strategic alliances with members of the engineering community, setting in place mutually beneficial partnerships with industry leaders.

► INDUSTRY ADVISORY PANEL

The programmes taught at SOE are kept relevant through our close association with members of the industry, who form the School's Industry Advisory Panel (IAP). The panel meet regularly with our faculty members to review and refine our curriculum and programme content.

Our IAP members consist of leading local and multinational corporations:

- Cabot Corporation
- Conditioning R&D Malaysia Sdn Bhd
- Daikin
- Energy and Strategy Consulting Sdn Bhd
- GreenTech Solutions
- GSK
- Harvest—Time Properties
- Honeywell
- IChemE
- IEM
- IGL Services Sdn Bhd
- InControl Tech Sdn Bhd
- ISPAHAN
- Malakoff
- Malaysia Automotive Institute
- Motorola
- NHF
- Origine IT
- Panasonic Appliances Air
- Petronas
- Primetech Engineers Sdn Bhd
- SCOMI Group Bhd
- SCOMI Rail Bhd
- SHELL
- Solution Engineering Sdn Bhd
- Strand Aerospace
- Wilra Sdn Bhd
- Winmore Engineering Sdn Bhd



Khek Chun Hang
(Chemical Engineering,
Graduating batch of 2014)
Chemical Engineer AP Oil
Private Ltd

“

Taylor's University has provided me with the exposure needed to pave the way to my success through skills and exposure to basic engineering techniques in problem solving.

► PROFESSIONAL ENGINEERING LECTURE SERIES (PELS)

Professional Engineering Lecture Series (PELS) is a platform that links our students with the engineering community, through insightful talks and lectures delivered by industry members. We have invited speakers from leading local and multinational companies to speak about the engineering profession and share their engineering experience with our students.

- Driving Down the Carbon 0
Roles of Technology and Footprint — C02 and Cars

Professor Gary Hawley
Dane and Medlock Chair of Engineering, Faculty of Engineering and Design, University of Bath, UK

- Roles of Technology and Innovation play in the Evolution of the Global Financial System

Sukhvinder Singh
Manager, Group Strategy, Maybank Berhad, Malaysia

- Global Energy Dialogue

Arnold Teo
Manager, Shell Refinery Company Berhad, Malaysia

- Systematic Innovation in Engineering

Darrel Mann
Founder, Systematic Innovation, UK

- Importance of Sustainability

Joe Eades
Managing Director, Ispahan Group Pte Ltd, Singapore

- The Science and (Bio) Engineering of Regenerative Medicine

Professor Julian Chaudhuri
Professor of Biochemical & Biomedical Engineering, University of Bath, UK

- Particle Engineering: Role of Surface Properties

Dr. Jerry Heng
Senior Lecturer, Department of Chemical Engineering, Imperial College London, UK

- Wireless Technology for Process Automation

Noel J. Jayaratnam
Sales Manager, Test & Measurement Section, Yokogawa Electric (M) Sdn Bhd, Malaysia



Ooi Ferng Lin
Bachelor of Engineering (Hons)
in Chemical Engineering

“

As part of the Society of Engineering and Technology (SET), we were given opportunities to organise many events for the School and sometimes for the University itself. Through this, I was able to train myself to become better at time management and improve my ability to work under stress.



► INDUSTRY VISITS

Our students are given the opportunity to visit engineering firms and companies, to observe a spectrum of processes. This gives them a first-hand feel and insight into the real world of engineering. Students can also interact with members of the respective organisations during their visits.



Aminath Saadha
Bachelor of Engineering (Hons)
in Electrical & Electronic
Engineering

“

The industrial placement was a good opportunity to improve my technical knowledge, especially on embedded systems. For my project, I programmed a microcontroller to have different functions. This wholesome experience improved my knowledge, enabled me to apply myself, and also showed me the ropes of working in the industry.

- BASF-Petronas Chemicals Sdn Bhd, Pahang
- Danone Dumex (Malaysia) Sdn Bhd, Negeri Sembilan
- DiGi Telecommunications Sdn Bhd, Selangor
- Fathopes Energy Sdn Bhd, Selangor
- LIMA Exhibition, Langkawi
- Malakoff Power Plant, Perak
- New Hoong Fatt Holdings Berhad, Selangor
- Proton Tanjung Malim Sdn Bhd, Perak
- UMW Toyota Motor Sdn Bhd, Selangor

► EUFORIA

Taylor's University Engineering Undergraduate for Industrial Adoption Programme (EUFORIA) is a unique programme that allows selected SOE undergraduate students pursuing their degree in Chemical Engineering, Electrical & Electronic Engineering or Mechanical Engineering, a 'once-in-a-lifetime' opportunity to study while preparing themselves for a career with a leading employer.

Under the EUFORIA partnership, the employer will adopt a group of students carefully selected by both the SOE and the organisation.

Through this programme, participants will gain hands-on experience in handling industrial projects. This exciting programme also provides opportunities for students to attend 3 months of industrial training with the partner organisation and receive a job offer, subject to meeting the organisation's recruitment criteria.

Participants will enjoy the following*:

- The opportunity to participate in design projects supervised and guided by the Industrial.
- Supervisor and School of Engineering Academic Supervisor, according to the school's curriculum.
- A recognition letter upon the completion of project.
- Internship Placement subject to meeting the organisation's hiring criteria.
- The chance to experience working on a Final Year Project (FYP) with the organisation, where available.
- A job offer upon graduation, subject to fulfilling the organisation's recruitment criteria.

Hong Jian Hua
Bachelor of Engineering (Hons)
Mechanical Engineering

“

The EUFORIA project has provided me with substantial industrial knowledge and exposure. This interesting experience has better prepared for my future career.

Teoh Zhi Heng
Bachelor of Engineering (Hons)
Mechanical Engineering

“

The EUFORIA programme allows me to explore real-world challenges, propose new ideas and challenge myself to work outside of my comfort zone.

Dr. Chin Wai Meng
Head of Development Support
Division

“

Mr. Thoo Kok Keong
Senior Manager Research &
Application

We were impressed that the EUFORIANS were able to complete the design and the prototypes within such a short time. The EUFORIANS understood the industry requirement very well, demonstrated commendable design capability and we are looking forward to more industry projects in the coming semesters.

► OUR INDUSTRY PARTNERS



DEMD-TUAV Surveillance Drone Handover

01

**DAIKIN ELECTRONIC
DEVICES MALAYSIA
SDN. BHD. (DEDM)**

(DAIKIN Electronic Devices Malaysia Sdn. Bhd (DEDM) has collaborated with Taylor's University Unmanned Aerial Vehicle (TUAV) to build an unmanned aerial vehicle. It is used to continuously monitor the perimeter through real time image capturing and transmitting to the server so the operator. The team comprising Dr. Aravind and Dr. Phang See King pitched the idea of developing a low cost autonomous drone surveillance system and DEDM agreed to sponsor the cost involved in building the system for them.

02

FOURFANG SDN. BHD.

A Robotics and Automation company which incorporates Artificial Intelligence into Unmanned Aerial Vehicle systems, enabling fully automated operations without human assistance.

03

PSI INCONTROL SDN. BHD.

A solution provider for automation & protection technologies.

04.

TOP GLOVE SDN. BHD.

The world's largest manufacturer of gloves, with operations spanning across Malaysia, Thailand, China, US and Europe.



Taylor's University Unmanned Aerial Vehicle (TUAV) Team



Firnaaz Ahamed
*(Chemical Engineering, Graduating batch of 2014)
Drilling Fluids Laboratory Engineer, Assoc.
Halliburton Energy Services Baroid Drilling Fluids*

“

My experience in the Taylor's Engineering programme has given me the confidence to take up any challenge in my professional career today.

AWARDS & RECOGNITION

BREAKING BOUNDARIES - FIRST ENGINEERING SCHOOL IN MALAYSIA WITH A RANKED RACING TEAM

Taylor's Racing Team (TRT) is an avenue for students to unleash their potential by putting their knowledge into practice. Students design and manufacture formula style racing cars to participate in home-grown competitions and the Formula Society of Automotive Engineers - a prestigious international competition.

2016

 **FSAE-ASEAN OVERALL 1ST RUNNER UP**
Participated in FSAE-Australasia

2014

 **MALAYSIA SUPERLAP 1ST PLACE -**
Formula Time Attack (Student Category)
Educational Innovation of Motorsports & Automotive (EI MA) Race 2nd place

2011

 **MALAYSIAN TECHNOLOGY EXPO GOLD & BRONZE -**
Students & academicians

2015

 **FORMULA VARSITY 2ND PLACE -**
Electric Vehicle

2012

 **EDUCATIONAL INNOVATION OF MOTORSPORTS & AUTOMOTIVE (EL MA) RACE 2ND PLACE -**
Taylor's Racing Team (TRT)



REFERENCE LIST

Association of Consulting Engineers
Malaysia
www.acem.com.my

Board of Engineers Malaysia
www.bem.org.my

Chemical Industries Council of Malaysia
www.cicm.org.my

Grand Challenges for Engineering
www.engineeringchallenges.org

Institute of Electrical and Electronics
Engineers
www.ieee.org

Institution of Chemical Engineers
www.icHEME.org

Institution of Mechanical Engineers
www.imeche.org

International Association of Engineers
www.iaeng.org

Malaysian Institute of Chemistry
www.ikm.org.my

Malaysian Petrochemicals Associations
www.mpa.org.my

Malaysian Society for Engineering and
Technology
www.mset.org.my

Ministry of Science, Technology and
Innovation
www.mosti.gov.my

The Electrical and Electronics Association
of Malaysia
www.teeam.com

The Institution of Engineers Malaysia
www.myiem.org.my

Washington Accord
www.washingtonaccord.org

Worldwide CDIO Framework
www.cdio.org

TAYLOR'S UNIVERSITY

YOUR PORTAL TO THE FUTURE



Since its inception, Taylor's has continuously provided excellent services for its students in terms of diverse study options, relevant curriculum and teaching methods, ongoing partnerships with leading universities worldwide, strong industry linkages, up-to-date facilities and well-equipped campuses. Taylor's University offers a myriad of courses in tertiary education, from diploma, to degree, post-graduate and professional programmes. Students can choose to enroll in courses encompassing fields such as Business, Hospitality, Tourism, Psychology, American Degree Program, Architecture, Quantity Surveying, Communications, Law, Computer Science, Design, Engineering, Pharmacy, Biosciences, Food Studies & Gastronomy, Medicine, Education and Performing Arts.

The quality of the undergraduate teaching and learning at Taylor's was acknowledged when it garnered a 'Tier 5: Excellent' rating in the Rating System for Malaysian Higher Education (SETARA) by the Ministry of Higher Education Malaysia in all four audit exercises. Taylor's University is the best private university in Malaysia for the graduate employment rate indicator under the QS Graduate Employability Rankings 2020 exercise; ranked at no. 135 in Asia in the QS Asia University Rankings 2019, and listed in the top 1 percent of universities in Asia. Taylor's University was also awarded 5-Star rating in six (6) categories of the QS Stars Rating. Taylor's University was also recognised as the number 14 university in the world for Hospitality & Leisure Management by QS World University Rankings by Subject 2019. Taylor's was listed in the top 2% universities in the world by QS World University Rankings. These achievements are important milestones for Taylor's, in line with its aim of becoming one of Asia's leading universities.

Taylor's has received numerous recognitions locally and internationally from professional bodies such as the CDIO Initiative (Conceiving, Designing, Implementing, Operating), National Academy of Engineering in the USA and the Royal Institution of Chartered Surveyors (RICS) to name a few.

Taylor's continues to play a strong role in developing Malaysia's human resource capital, and boasts a 100,000-strong alumni, many of whom have become leaders in their respective fields.

ACHIEVEMENTS

OUR AWARDS VALIDATE OUR WORLD-CLASS GRADUATES, STANDARDS & FACILITIES



AWARDS



Private University in Malaysia for Employer Reputation

QS Asia University Rankings 2020
QS World University Rankings 2020
QS Graduate Employability Rate 2020

QS WORLD UNIVERSITY RANKINGS



GOLD, 2010 - 2018
PLATINUM, 2019
HALL OF FAME, 2019

PUTRA BRAND
GOLD AWARDS



Malaysia Rating for University and
University College Excellence

PERFORMANCE RATING BY MINISTRY
OF HIGHER EDUCATION



READER'S DIGEST TRUSTED BRAND
GOLD AWARDS

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19

- Ranked 109th in the 2020 Asia University Rankings
- Top 1% in the world and No. 1 in Malaysia for Employer Reputation based on QS World University Rankings 2020 among Private Universities in Malaysia
- No. 1 in Business and Management Studies amongst all Private Universities in Malaysia in the 2019 QS World University Rankings by Subject
- We've moved up 7 spots to clinch World No.14 in the 2019 QS World University Rankings by Subject for Hospitality and Leisure Management
- No. 1 private university in Malaysia for the graduate employment rate indicator in the 2020 QS Graduate Employability Rankings
- Awarded 5-Star rating in six (6) categories of the QS Stars Rating
- Platinum Award in the 'Education & Learning' category at Putra Brand Awards and inducted into the Putra Hall of Fame
- Gold Award in the 'Private University/College' category for the 9th consecutive year in the annual Reader's Digest Trusted Brand Awards

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- Ranked 135th in the 2019 QS Asia University Rankings
- 4th best university and Asia's best for the Graduate Employment Rate indicator in the 2019 QS Graduate Employability Rankings
- Placed 216th in the world for the Employer Reputation indicator in the 2019 QS World University Rankings
- Ranked 21 in the 2018 QS World University Rankings by Subject for Hospitality and Leisure Management
- Awarded 5-Star in five (5) categories of the QS Stars Rating
- Gold Award in the 'Education & Learning' category for the 9th consecutive year in Putra Brand Awards
- Gold Award in the 'Private University/College' category for the 8th consecutive year in the annual Reader's Digest Trusted Brand Awards

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17

- Top 200 universities in Asia in the QS Asia Ranking
- Awarded 5-Star rating in five (5) categories of the QS Stars Rating
- Gold Award in the 'Education & Learning' category for the 8th consecutive year in Putra Brand Awards
- Gold Award in the 'Private University/College' category for the 7th consecutive year in the annual Reader's Digest Trusted Brands Award

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16

- Top 200 universities in Asia in the QS Asia Ranking
- Awarded 5-Star rating in five (5) categories of the QS Stars Rating
- Gold Award in the 'Education & Learning' category for the 7th consecutive year in Putra Brand Awards
- Gold Award in the 'Private University/College' category for the 6th consecutive year in the annual Reader's Digest Trusted Brands Award

GLOBAL CONNECTIONS

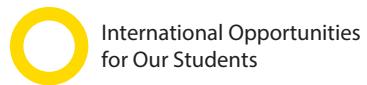
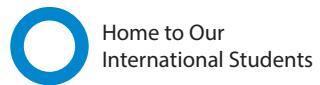


OVER 250 UNIVERSITY PARTNERS FROM 45 COUNTRIES GLOBALLY FOR STUDENT EXCHANGE & SHORT TERM MOBILITY

Taylor's is strongly committed to its mission of empowering the youth of the world through education, so that they may take their productive places as leaders in the global community.

As one of Malaysia's oldest, most successful and reputable private education institutions, Taylor's provides quality education and exposes students to the vast possibilities that await them beyond the classroom walls.

Through its partnerships with international universities and industry members, Taylor's is committed to providing an outstanding educational experience, guiding and helping students realise their potential to obtain a world-class qualification that meets the requirements of a dynamic, global marketplace.



PRIORITISING RESEARCH & INNOVATION

OUR CHANGE COMPASS AND TELESCOPE INTO THE FUTURE

Taylor's University has a firm footing in research and innovation as we believe these efforts will contribute towards knowledge building and assist in the development of the industry and society at large now and for the future.

We are a university centered on research and innovation initiatives.

We adopt a progressive outlook, embedding research components throughout our programmes and encouraging them at various levels in each faculty.

Our students and faculty members engage extensively in "applied research", which enhances the body of knowledge and creates a direct impact on real world applications.

All academic staff appointed at the degree level actively undertake research within the institution or in collaboration with industries or universities, either foreign or local.

This research work results in creation and dissemination of new knowledge, feeding into the practical application, and ultimately enhances learning at Taylor's.

OUR RESEARCH CENTRES PLAY A CRUCIAL ROLE IN ELEVATING THE CAPABILITIES OF OUR FACULTY MEMBERS, THROUGH VARIOUS TRAINING ACTIVITIES AND TECHNOLOGY MAKING US WORLD-CLASS.



Law
(CRELDA)



Engineering
(CERD)



Business
(CAFE)



Architecture, Building & Design (MASSA)



Business (Case & Research Centre)



Hospitality, Tourism & Culinary Arts (CRIIT)



Communication
(SEARCH)

TAYLORS

TEACHING & LEARNING SUPPORT

ted

Teaching &
Educational
Development



TED complements the work of academic staff to create excellence in teaching through practice, development, and innovation.

We offer workshops and seminars that address a range of timely topics associated with teaching, learning and technology in higher education.

eLa

e-Learning
Academy



eLA's task is to help our academic staff effectively implement the use of technology in transforming the learning journey of students.

This enables them to learn in a collaborative, self-directed and personalised manner, anytime and anywhere.

SSC

Student Success
Centre



The Student Success Centre (SSC) assists students as they adjust to university studies.

SSC offers intervention for students via a blend of workshops, personalised 1-to-1 consultations and peer support services to provide learning opportunities throughout the students' journey towards academic success.

LIFE SKILLS MODULES & SHINE PROGRAMME

Rise With The Best

LIFE SKILLS MODULES

Life Skills Modules is an integrated SHINE Core Empowerment Series into University Core Modules for all first year and first semester students at Taylor's University. It sets the stage for students to start right and a foundational pathway to SHINE Award.

Top employers and research findings indicate that in future, a balance of cognitive and soft skills become more important. In the 4IR, technology like AI will take over most of the cognitive scope staging soft skills as key differentiators for employees and entrepreneurs.

THE LIFE SKILLS MODULES FOCUSES ON:



Emotional
Intelligence



Self-
awareness



Self-
management



Social
Awareness



Relationship
Management

SHINE PROGRAMME

With a strong commitment to holistic development, Taylor's University is proud to introduce the SHINE Award - an achievement record that formally recognises and rewards all students who wish to reach their full potential by taking part in fun and diverse extra-curricular activities both on and off-campus.

The SHINE programme is a structured platform that helps our students to organise, manage and track their involvement and achievement in recognised extra-curricular activities using a point system.

The SHINE Programme empowers students with critical skills that employers seek in graduates, the "5Cs":



Creativity &
Innovation



Critical Thinking &
Problem Solving



Cultural
Adaptation



Communication



Collaboration

SHINE AWARD



The SHINE Award highlights the achievements and skills obtained by our graduates through their extra-curricular activities. Upon graduation, students who qualify for the SHINE Award will be conferred with a second transcript during their graduation, to complement their academic transcript, thus formally recognising their soft skills.

In order to qualify for the SHINE Award, students must participate in the SHINE Programme. Based on the points that they obtain, students will earn a Platinum, Gold, or Silver ranking in their SHINE Award.

VICE CHANCELLOR & PRESIDENT'S **MESSAGE**

Introduced in 2018, the Taylor's Curriculum Framework is the first-of-its-kind framework in Malaysia, which enables students to combine subjects of study. As a Taylor's student, you will now be able to shape and balance your own study programme. This is unique in Malaysia, adopting similar approaches by world's leading universities.

The flexibility of our degree and diploma programmes, combined with training modules in employability and life skills, is designed to ensure that Taylor's graduates are ready to meet future challenges. If you are able to adapt to the seismic change anticipated from the 4th Industrial Revolution, you will always be the first choice for leading employers.

There is much more to Taylor's University than our programmes. Taylor's attracts many of the brightest and most creative students from around the world. Our students come together to create a vibrant and exciting community which supports a wide range of sporting, cultural and leisure activities, which have become the hallmark of the Taylor's experience.

We hope that you will choose Taylor's University for your higher education and make your own contribution to the Taylor's experience. Most importantly, let us work together to ensure that when you graduate, you are ready to create your own successful and exciting future.

I hope that what you learn about Taylor's University will help you decide to make the best possible investment in your future and join our unique Taylor's community.

We look forward to seeing you at Taylor's Lakeside Campus.

With very best wishes,

Professor Michael Driscoll

Vice Chancellor and President of Taylor's University.



NOTES

NOTES



TAYLOR'S UNIVERSITY

Wisdom • Integrity • Excellence

Rise With The Best™

Taylor's University Lakeside Campus

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This publication contains information, which is current as of January 2020. Changes in circumstances after this date may impact upon the accuracy or timeliness of the information. Taylor's University does its best to ensure that the information contained herein is accurate, but reserves the right to change any information described in this prospectus without notice. Readers are responsible for verifying information that pertains to them by contacting the university.

