



**TAYLOR'S  
UNIVERSITY**

Wisdom · Integrity · Excellence

**Rise With The Best**

# **COMPUTING & IT**







# THE **FUTURE** OF COMPUTING & IT

At Taylor's University, we are constantly keeping ahead to ensure our students graduate future-ready and future-proof. This 4<sup>th</sup> 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.

Like most progressive fields of studies, computing and IT is fuelling the speed of technological acceleration. Here are some advancements that are being discussed, anticipate and adopted globally:

## **3** KEY PILLARS OF BLOCKCHAIN TECHNOLOGY

- Decentralisation
- Transparency
- Immutability

A set of immutable data records, managed via neutral clusters of computers

The ability of computers that can simulate **HUMAN-LIKE BEHAVIOURS, INSTINCTS**, and to **FORMULATE SOLUTIONS BASED ON EXPERIENCES**.

**AI**-enabled user interfaces and process automation will replace

$\frac{1}{3}$  of today's screen-based apps



## **CLOUD & EDGE COMPUTING**

Provide businesses **HIGHER COMPUTING POWER** to analyse crucial data while reducing on-premise hardware required for network connection



**KEY PROPONENT OF THE 4<sup>th</sup> INDUSTRIAL REVOLUTION**

- ✓ Faster speeds
- ✓ Faster connections
- ✓ Faster cloud access

- **DIGITAL SKILLS**
- **ANALYTICAL ABILITIES**
- **CONTINUOUS LEARNING CAPABILITIES**

With AI technology, traditional and manual skills would be in excess in the market.

At the ever-changing work landscape, employers seek staff equipped with **HIGHER COGNITIVE CAPABILITIES** in order to help transform their businesses

We continuously focus to research what's ahead to ensure we have the capacity, skills and knowledge to equip our students with unconventional teaching and learning methods.



# WHY COMPUTING & IT AT TAYLOR'S?

HERE IS OUR EDGE,  
AND YOUR ADVANTAGE:



## ▶ 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.



## ▶ MEETING INDUSTRY STANDARDS

Established in 1998, Taylor's Computing & IT offers a range of career-focused programmes, where graduates continue to meet industry standards, filling out the talent pool in ICT.



## ▶ DRIVING INNOVATION THROUGH TECHNOLOGY

We aim to provide students with ample opportunities to influence the future of the modern world-pioneering the frontiers of Computing and Information Technology with a positive impact on society.



## ▶ INDUSTRY RELEVANT CURRICULUM

Our industry relevant curriculum is a result of a conducive environment and multiple strong collaborations including, close ties to the industry, professional bodies, government agencies, and academia.



## ▶ PROGRAMMES OFFERED ARE COMPREHENSIVE

Our programmes offered are comprehensive in practical content, using relevant and latest learning technologies. We ensure that you are future-ready, as we enter the 4IR.





**Dr Choong Khong Neng**  
*Principal Researcher and Lab Head  
MIMOS Berhad*

“

Information and Communications Technology (ICT) constitutes 10.5% of GDP in Malaysia, and the goal is to boost it to 17% by 2020. There are still plenty of opportunity on applying ICT in various industries to drive innovation and productivity, with the aim to streamline business processes, improve service offerings and simplify operations. It is therefore a lucrative and highly sought-after industry.

**Mr. Man Mohan Kapur**  
*Director,  
Education Services, SAP*

“

Many independent research companies have indicated that there is a shortage of people with relevant skills especially in the area of integrated software, business intelligence and other related areas. I am pleased to see that Taylor's has excellent training curricula in ICT and is helping in addressing the shortage.

**Mr. Nicholas John**  
*Executive Producer,  
Astro SuperSport*

“

Taylor's students are among the top universities we always consider when recruiting. We find your students well-rounded and carry themselves well.



# DUAL AWARD

Taylor's Computing & IT offers dual award degree programmes in collaboration with the Department of Computer Science and Creative Technologies, University of the West of England (UWE), UK. A quality review committee, comprising academics from both institutions, is established for quality assurance and the moderation of the standards of the programmes, which includes curriculum and assessment. You will receive certification and academic transcripts from both Taylor's University and UWE upon completion of your degrees at Taylor's.



**UWE  
Bristol** | University  
of the  
West of  
England

## UNIVERSITY OF THE WEST OF ENGLAND (UWE), UK

- Dating as far back as 1595, UWE represents a long and well-established tradition of first-class professional education and training.
- With over 30,000 students, UWE is a modern, growing university situated in the thriving harbour side of Bristol.
- UWE has over 500 available workstations in their teaching laboratories as well as large open-access labs providing PC and Unix-based machines. They also host their own servers to provide Windows, Linux and Unix-based operating systems.
- The Department of Computer Science and Creative Technologies has strong linkage with the industry, including a multi-million-pound strategic partnership with Hewlett-Packard, which has contributed towards an upgrade of computer technology and infrastructure across the campus.
- The Department has an active research community, which makes significant contribution towards various groups of studies such as Artificial Intelligence (AI), Complex Co-operative Systems and Unconventional Computing.

# 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**
- **ACQUIRED SKILLS**
- **PERSONALITY**
- **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 **COMPUTING & IT** 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

## TAYLOR'S CURRICULUM FRAMEWORK (TCF)



### PRIMARY MAJOR

#### PRIMARY CORE

Common core modules within the primary discipline

#### SPECIALISATION

Specialised modules related to primary field of study



### UNIVERSITY CORE

#### COMPULSORY GENERAL MODULES BY MOE

- Hubungan Etnik / Malaysian Studies 3
- Tamadun Islam dan Tamadun Asia / Bahasa Melayu Komunikasi 2
- Community Service Initiative

#### SPECIALLY-DESIGNED UNIVERSITY MODULES

- Life Skills for Success & Well-Being
- Millenials in Malaysia: Team Dynamics and Relationship Management



### COMPLEMENTARY STUDIES

Students are given the opportunity to mix and match modules. They can complement their primary major with the below.

#### FREE ELECTIVES

Choose 5 – 7 electives from three clusters which are not related to the primary major. These clusters include:

- Arts, Humanities and Social Sciences
- Business, Services and Management
- Science, Technology and Society

#### MINOR

Gain breadth of knowledge by taking five set modules (or total 20 credit hours) outside of a particular major field of study. There are 54 minors offered.

#### EXTENSION

Expand depth of knowledge by taking five set modules (or total of 20 credit hours) in a specific area within a major field of study. There are 21 extensions available.

#### 2ND MAJOR

A second major provides students the opportunity to master another field of study by taking 12 set modules (or total of 48 credit hours) in another field or discipline. Choose from 11 majors.



### TYPICAL PROGRAMME STRUCTURE

#### Year 1

Same Discipline Modules

#### Year 2

Same Discipline Modules

#### Year 3

Same Discipline Modules



MPU Subjects

# thesetup

In line with Taylor's University's effort in nurturing entrepreneurs and business leaders of the future, thesetup - Taylor's University's in-house hybrid incubator-accelerator has been established and launched back in September 2018 by the Minister of Entrepreneurial Development, Datuk Mohd Redzuan Md Yusof and the Vice-Chancellor, Prof. Michael Driscoll. thesetup is a hybrid Incubator and Accelerator for Entrepreneurs that provides a holistic four-stage structured, intensive entrepreneurship training program that develops the entrepreneurs from idea stage to funding acquisition for pre-seed, seed and venture capitalist. The training modules provided are mainly built around a multidiscipline mentorship model by the experienced professionals from various specialisations thesetup also has unique co-working pods for budding entrepreneurs who wish to work in a collaborative space in a university setting.

## TAYLOR'S MAKERSPACE

Taylor's Makerspace aims to be a place enabling our students from across Schools to work collaboratively on multi-disciplinary projects focusing on real-world problems with the use of proven solution techniques. Hence, it is planned to create a University's Challenge Wall and Solution Wall that promote alignment between the Real-World Challenges and the Final Year projects/Project-based & U4 Modules. This platform will also encourage Taylor's students to be a self-directed learner with hands-on training using cutting-edge technology in the field of digital fabrication. It also seeks to establish win-win relationships with community (local as well as international) and industry to help Taylor's curriculum stay connected in order to stay relevant.

## STUDENT APPS

We encourage you to not just think-out-of-box, but to break boundaries in experimenting and developing apps that have utility values.



### Traquer

Traquer is an innovative solution that aims to reduce road accidents caused by buses and provide safety assurance to passengers. The app is a social empowered road safety app and acts as a voice of public transport users.



### Ensuerer

Ensuerer is an online-based insurance product that insures damaged, lost or stolen smartphones and other portable digital gadgets. Without the need for agents, Ensuerer crowdsources funds from people, who pay for monthly subscriptions for the product.



### Project FeedOn!

With the vision to solve world hunger, address food wastage and revolutionise charity food distribution in Malaysia, FeedOn! provides a platform to match manufacturing companies that have excess food production with charitable institutions.



### Wakker App

Wakker App is a precise journey planner that integrates all types of public transportation and routes. It wakes up commuters who have dozed off during their trip, calculates and informs commuters about public transport vehicle's estimated time of arrival and feeds location data to users who have already embarked on their journey.



### Pocket Mall

Pocket Mall is an online platform for those who want to start their own business using the Internet. The app encourages users to sell new or hand-me-down clothes, shoes, accessories, or anything in between to gain extra points.



# EXPERIENTIAL LEARNING

## ► COMPETITIONS

You are given the opportunity to sharpen your programming and problem-solving skills through participating in various national and international competitions. This enables you to obtain feedback from experts, boost your confidence as well as enhance your communication and business presentation skills. This lives up to our unconventional methods and we encourage you to push boundaries and achieve more.

- AngelHack
- Celcom Project U.O.X
- Oigi Mobile Challenge
- E-Genting Programming Competition
- F-Secure National Inter Varsity Security Tech Quiz Championship
- Hilti Big Data Analytics International Competition
- Microsoft Imagine Cup
- MNCC Computing Challenge
- Institute of Higher Learning - Multimedia Super Corridor Malaysia Start Up Challenge
- Standard Chartered ICT Competition
- NASA Space App Challenge
- MIT Global Start-up Labs (GSL)
- Enterprise Resources Management Challenge



**Kaniaaseelan Siva Seelan**  
*Bachelor of Computer Science  
(Hons)(Computer Security &  
Forensics)  
Technical Account Manager,  
Microsoft Malaysia*

“

It was a privilege to be taught by some exceptional lecturers who eventually shaped me into the person I am today. Taylor's has given me tons of exposure through various leadership programmes and equipped me with the knowledge and skills I require to excel in the industry.

# WORLD-CLASS STANDARDS, FACILITIES & ENVIRONMENT

As your vested partner throughout your education journey, future-proofing you is our priority. We continuously provide our students with more than just academics, but also life skills to be business leaders and successful entrepreneur of the future. To do that, we ensure we upkeep our standards and facilities, nothing less than world-class!



01

**STRONG LOCAL &  
INTERNATIONAL  
INDUSTRY LINKAGES**

02

**WELL-EQUIPPED  
FACILITIES  
ON-CAMPUS**



03

**PRIORITISED  
RESEARCH &  
INNOVATION**

04

**WELL-BALANCED  
CURRICULUM TO  
PREPARE YOU  
FOR THE FUTURE**



05

**CUSTOMISABLE  
DEGREES WITH THE  
TAYLOR'S CURRICULUM  
FRAMEWORK**



**Mr Bikesh Lakhmichand**  
*CEO and Founder,  
1337 Ventures*

“

We were pleased to have Traquer as one of the teams to undergo our Alpha Startups pre-accelerator programme. The team showed great perseverance to make their startup a success and the founder Shi Jin, had great determination and tenacity which gave us the confidence to help him open doors that led to his team pitching his idea to the CEO of S.P.A.D himself. We were glad to be able to guide the team in validating their market and via our design sprint coaching help them focus on the essentials for a quick MVP to launch. We look forward to seeing more founders from Taylor's University joining our programme to help them on their entrepreneurial journey.



# BECOME FUTURE-PROOF

## GLOBAL & LOCAL COLLABORATIONS WITH OUR INDUSTRY ADVISORY PANEL

### STUDENT INDUSTRY EXPOSURE

#### ▶ STUDENT TECHNOPRENEUR DEVELOPMENT

Taylor's Computing & IT has strong initiatives to develop student Technopreneurship. The technopreneur modules will be taught over 4 semesters (one credit per semester) and much of the delivery will be via seminar, forum and workshops. You will be grouped into teams to form start-up companies. You are taught to create jobs instead of seek jobs. The school will provide the necessary support for the start-ups, such as coaching, nurturing ideas, and technical details. Listed below are some successful start-up companies by our students:

#### 01 Traquer

- <http://www.traquer.my/>
- <https://www.facebook.com/mytraquer/>
- <http://university.taylors.edu.my/news-events/staying-safe-on-public-transport-with-traquer>

#### 02 FeedOn!

- <https://www.facebook.com/FeedOnMalaysia/>
- <https://university.taylors.edu.my/news-events/mobile-application-feed-on-popular-in-contests-as-taylors-university-student-wins-a-second-award>
- <https://www.facebook.com/FeedOnMalaysia/posts/460622967457964>

#### 03 VoltEdu

- <http://volvedu.wixsite.com/volteedu>
- <https://www.facebook.com/volteedu.ve/>



**Duncan Tsen Ken Sang**  
*Bachelor of Software Engineering  
(Hons)*

“

Be brave enough to live differently. Your first step into uncertainty is the first step to greatness.

#### ▶ INDUSTRY-DRIVEN FINAL YEAR PROJECTS

Most of our Final Year Projects are done in collaboration with industry partners. You will be assigned to real-world problems from industries. This will expose you to some of the challenges faced by industry and how their ideas could help solve some of these challenges. These projects will be co-supervised by industry partners. This has resulted in some excellent industry products such as those listed below:

BagBot  
(Innovative Idea with Creative Designs)  
Standard Chartered Bank

Info Banjir Malaysia  
(Windows Phone App)  
Microsoft

Instajob  
Google

NoteFORensis  
PwC Malaysia

Plus Toll Rate App (Android Platform)  
PLUS

WiseCycle (Windows Phone App)  
Microsoft

Crowdfunding Platform for Students  
Google Business Group (GBG) Malaysia

Social Collaboration Application  
Hilti (Malaysia)Sdn Bhd

Final Year Project Management System  
Taylor's University School of  
Computing & IT

My Life Priorities  
K365labs Sdn Bhd

Requirements Request Approval System  
SharePoint Factory Sdn Bhd

# INDUSTRY PARTNERSHIPS

In order to keep abreast with global trends and bridge the gap between academia and the industry, we have developed a web of relationships with international technology companies and entrepreneurs. These pillars of the Information and Communications Technology (ICT) community provide Taylor's Computing & IT with valuable insight into the industry and shed light on the fundamental shifts in IT consumption and consumer behaviour.

These strategic alliances facilitate dynamic knowledge exchange, enabling you to reap the rewards of these collaborations. In turn, Taylor's Computing & IT serves as an ideation lab and a gateway to innovation, talent and research activities for the industry.

Soft skills are embedded throughout our curriculum and instilled in our students through project-based learning, internship programmes, field trips, as well as events and activities that stimulate the students to get involved in activities outside their chosen field and develop out-of-the-box thinking. These activities also provide you with industry exposure and enable you to learn more about the application of technology in the real world. Our holistic approach has successfully produced not just ICT graduates, but technopreneurs who are geared to meet and tackle the challenges of the future.



**Sim Hong Chun**

*Bachelor of Software Engineering  
(Hons)*

*Mobile Application Developer,  
Hilti Asia IT Services Sdn Bhd  
Malaysia*



Taylor's provided a platform for students to interact with the industry through career fairs and industry talks. In joining various clubs and societies, I was taught to manage tasks and improve my teamwork and leadership skills, while meeting people and having fun!



**Mr Liow Ren Jan**

*Co-Founder & Executive  
Director,  
O2O Commerce Sdn Bhd*



Technopreneurship is not all about personal financial gain. It is about crafting a lifelong plan to make a positive impact for the society. True wealth should be built on integrity and ethics.

## ▶ EXPERT FORUMS

Taylor's Computing & IT provides various expert platforms that feature talks and lectures delivered by invited speakers from the industry as well as adjunct faculty members, who speak about the ICT industry and profession.

Apart from strengthening the School's teaching profile, these industry practitioners also provide you with an opportunity to interact with professionals in specialised fields to enhance your learning.



**Mr Sivalingham Latchmanan**  
*System Software  
Engineering Manager,  
Sensata Technologies*

“

We are pleased with the performance of Taylor's students. We plan to move their development work into mainstream production.

**Mr Ervin Loh Chuan Ho**  
*Application Lifecycle  
Management Program Manager,  
K365labs Sdn Bhd*

“

The guest lectures provide the students at Taylor's University not only with different points-of-view, but also as the vessel of knowledge that they can apply in later courses or in their internships.

## ▶ GUEST LECTURES

We invite eminent personalities from various industries and institutions to lend valuable information from their experiences to our students. Our guest lectures is a way of enriching you with the latest from the industry. Through guest lectures, you are bestowed with knowledge about industry needs, latest technical updates and trends. Some of the organisations that have delivered guest lectures at Taylors Computing & IT include:

- ABS Technologies
- BAE Systems Applied Intelligence
- Blackberry
- Experian Information Solutions, Inc
- Founders Lab
- Google Singapore
- Hilti Asia IT Services
- IBM Malaysia
- iTrain (M) Sdn Bhd
- K365labs Sdn Bhd
- Kaapagam Technology
- Microsoft Malaysia
- Prosper Solutions Sdn Bhd
- Sensata Technologies
- Shell Business Operations Sdn Bhd
- Spektra Alucast (M) Sdn Bhd
- Standard Chartered Bank
- Tech in Asia, Singapore
- Xyler Technologies Sdn Bhd
- E-Centric Innovation, Australia
- Shared Point Factory
- Connectcloud
- O2O Commerce



# INDUSTRY ADVISORY PANEL (IAP)

Taylor's Computing & IT works closely with the IAP to ensure the programmes offered are relevant to current IT industry practices and requirements. The IAP provide input in developing and offering new curriculum to meet the current and future market demands.

## IAP MEMBERS

**Basis Bay**  
Reengineering IT

**MDEC**  
Driving Transformation

**F-Secure.**

**Microsoft**

**ASA**  
An Association for All IT Architects

**MIMOS**

**IBM**

**pwc**

**(ISC)<sup>2</sup>**



**Mr. Philip Victor**  
*Head of Market Development -  
APAC (ISC)<sup>2</sup>, INC*

“

Taylor's School of Computing and IT's efforts in ensuring its courses are always current and abreast with the industry makes their students marketable and sought after.

**Dr Dzahar Mansor**  
*PhD  
National Technology  
Officer  
Microsoft Malaysia*

“

One of the biggest myths today is the believe that there are no jobs in ICT industry. It has been reported that the fastest growing occupations globally include health care and information technology. The truth is there are ample job opportunities in Malaysia and around the world awaiting those who are passionate about this field.





SOCIT has **100%** graduate employability rate for 3 years in a row. All our graduates have been successfully employed within 3 months of their graduation.

## ▶ INDUSTRY NETWORKING SESSION

This event is supported by IT professionals and consultants from various national and multinational companies across Malaysia that is a platform for industry leaders to discuss trends and demands of the IT industry. Such events provide opportunities for exchange of ideas amongst students and professionals.

### Employable Graduates

Our top employers include:

- Accenture
- Allianz
- Basis Bay
- BMW
- Deloitte
- Experian
- Hilti
- IBM
- Microsoft
- PwC
- Siemens



# INDUSTRIAL ATTACHMENT

You will undergo a 6-month industrial training for the last 2 semesters of their programme. This will provide you with the necessary industrial experience and the opportunity to explore your interest and apply the knowledge acquired from the programme. Many of our industrial attachment partners are top ICT companies. A good percentage of our students are offered jobs in the same company after their industrial attachment.

**Mr. Jesmond Chang**  
*Corporate Communications  
Manager,  
Kaspersky Lab*

“

We are delighted to note the level of knowledge and insights Taylor's students have with regards to computer security. This was evident even amongst your 1st year students.

**Dato' Ng Wan Peng**  
*Chief Operating Officer,  
Malaysia Digital Economy  
Corporation*

“

Taylor's works closely with the industry to understand the industry needs. We look forward to Taylor's producing more relevant graduates for the Digital Technology industry.



**Mr. Lee Yu Kit**  
*Chief Technology Officer,  
IBM Malaysia*

“

The fast-moving IT environment provides plenty of challenge to IT students equipped with the right soft and hard skills. The changing market will need bright, motivated individuals who can look forward to challenging and exciting careers as IT is pervasive in all industries. Now, more than ever, IT is going to reshape the world we live in. Taylor's School of Computing & IT has provided the right platform to achieve the same.



**Mr. Navin Danapal**  
*Senior Audience Manager,  
Microsoft Malaysia*

“

We had an intern from School of Computing & IT who has shown great passion in the new industry of Big Data by showcasing understanding of Microsoft Azure Machine Learning for analytics in various seminar speaking engagements and hands-on lab workshops.



# AWARDS & RECOGNITION

2019



**CHAMPION**  
NASA International Space App Challenge 2019 (Ideathon category), NASAS Hackathon 2019



**CHAMPION**  
First National Hackathon on Fake News 2019  
YSEALI Seeds of the Future 2019



**1<sup>ST</sup> RUNNER-UP**  
Hilti International IT Competition 2019  
Project Title : Hilti



**2<sup>ND</sup> RUNNER-UP**  
1st AWS National Competition AWS and Smart Selangor 2019



2018



**1<sup>ST</sup> RUNNER-UP**  
National Blockchain Competition NEM Merdeka Hackaton



**1<sup>ST</sup> RUNNER-UP**  
(Ideathon Category)  
NASA Space App Challenge organised by Unlock Design, Japan and NASA, USA



**3<sup>RD</sup> RUNNER-UP**  
Huawei ICT Competition Malaysia

2017



**CHAMPION**  
(Ideathon – 10 Categories)  
NASA Space Apps Challenge



**CHAMPION**  
(Ideathon – Social Networking Services)  
NASA Space Apps Challenge

2016



**CHAMPION & 1<sup>ST</sup> RUNNER-UP**  
Enterprise Resource Management Challenge 2016 - Malaysia Country Final



**CHAMPION**  
(Non-Degree Category)  
IHL-MSM Malaysia Startup Challenge



**MERIT AWARD**  
(Degree Category)  
IHL-MSM Malaysia Startup Challenge

2015



**BEST PROTOTYPE AWARD**  
MIT Global Start-up Labs



**1<sup>ST</sup> RUNNER-UP**  
World Citizenship Category (National Finals)  
Imagine Cup Competition by Microsoft Malaysia



**WINNER**  
Cyberview Smart City Challenge  
Imagine Cup Competition by Microsoft Malaysia



**CHAMPION, 1<sup>ST</sup> RUNNER-UP, 2<sup>ND</sup> RUNNER-UP, MERIT AWARD**  
(Non-Degree Category)  
IHL-MSM Malaysia Startup Challenge



**MERIT AWARD**  
(Degree Category)  
IHL-MSM Malaysia Startup Challenge

# INDUSTRY CERTIFICATIONS

Our programmes meet the rigorous standards of the Malaysia Software Testing Board (MSTB) due to our stringent entry requirements, comprehensive curriculum, students work and achievements, and qualified teaching faculty.

The industry-wide recognition attached to these accreditations greatly enhances our students' career opportunities and the quality of our teaching faculty. They also ease the pathway for our students to pursue a professional qualification or further their studies upon graduation.

Some of the certifications undertaken by our students are as follows:

## SAP-ERP

By SAP Asia Pte Ltd

## Certified Tester Foundation Level (CTFL)

By International Software Testing Qualification Board (ISTQB)

## Certified Professional Requirement Engineer (CPRE)

By International Requirement Engineering Board (IREB)

Our highly-qualified faculty members also possess extensive industry experience and actively pursue professional certification in key areas of specialisation. Many of them are regarded as experts in their respective fields:



**Ariff Suffian Bin Zainal Abidin**  
*Bachelor of Computer Science  
(Hons) (Computer Security &  
Forensics)*  
*IT Consultant/Auditor,  
PricewaterHouseCoopers Malaysia*

“

I was given the chance to obtain globally recognised certificates during my degree, such as the Certified Ethical Hacker certificate by EC-Council. This has given me the advantage over other candidates when applying for jobs.

- Sun Certified Java 2 Programmer
- Certified Tester, Foundation Level, ISTQB
- Certified Professional for Requirements Engineering, IREB
- Project Management Professional (PMP)
- Huawei
- Red Hat Certified Administrator
- Introduction to SAP, ERP Trainer
- Data Modelling and Data-based Design, Oracle Intro to Oracle:
- SQL & PL/SQL Oracle8i Managing Data, Oracle
- Salesforce Certification
- AWS Certification

**Mr. Man Mohan Kapur**  
*Director,  
Education Services, SAP*

“

Many independent research companies have indicated that there is a shortage of people with relevant ICT skills especially in the area of integrated software, business intelligence and other related areas. I am pleased to see that Taylor's has excellent training curricula in ICT and is helping in addressing the shortage.



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International Association of Software Architects (IASA)

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International Multilateral Partnership Against Cyber Threat

[www.impact-alliance.org](http://www.impact-alliance.org)

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International Requirements Engineering Board (IREB)

[www.certified-re.de/en](http://www.certified-re.de/en)

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International Software Testing Qualifications Board (ISTQB)

[www.istqb.org](http://www.istqb.org)

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IScoop

<https://www.i-scoop.eu/internet-of-things-guide/edge-computing-iot/>

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Kaspersky Malaysia

[www.kaspersky-sea.com](http://www.kaspersky-sea.com)

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Malaysian Communications and Multimedia Commission (MCMC)

[www.skmm.gov.my](http://www.skmm.gov.my)

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Malaysian National Computer Confederation

[www.mncc.com.my](http://www.mncc.com.my)

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Malaysian Software Testing Board (MSTB)

[www.mstb.org](http://www.mstb.org)

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Markets&Markets

<https://www.prnewswire.com/news-releases/cloud-computing-market-worth-623-3-billion-by-2023--exclusive-report-by-marketsandmarkets-300802108.html>

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MIMOS

[www.mimos.my](http://www.mimos.my)

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Ministry of Science, Technology and Innovation

[www.mosti.gov.my](http://www.mosti.gov.my)

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MSC Malaysia

[www.msomalaysia.my](http://www.msomalaysia.my)

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Multimedia Development Corporation (MDeC)

[www.mdec.my](http://www.mdec.my)

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PIKOM, The National ICT Association of Malaysia

[www.pikom.org.my](http://www.pikom.org.my)

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University of the West of England (UWE)

[www.uwe.ac.uk](http://www.uwe.ac.uk)

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ZDNet

<https://www.zdnet.com/article/mwc-2019-at-t-tests-5g-and-edge-computing-with-microsoft-azure/>

# 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 alumnus, many of whom have become leaders in their respective fields.

# ACHIEVEMENTS

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

**17**  
AWARDS

ranking  
& ratings  
and more from  
2016 to 2019



**135<sup>th</sup>**

in the 2019



TIER **5:**  
EXCELLENT

Rating System for  
Malaysia Higher  
Education (SETARA)  
by the  
Ministry of Higher  
Education Malaysia

**TOP**  
PRIVATE  
UNIVERSITY

in Malaysia  
for Graduate  
Employability  
Rankings 2020

Listed in the  
**TOP 1%**  
UNIVERSITIES  
ASIA



No. **1**  
in Business &  
Management  
Studies

amongst all  
Private Universities  
in Malaysia in the 2019



by subject

**No. 14**

in the world for  
Hospitality & Leisure  
Management Subject  
in 2019



**TOP 2%**  
UNIVERSITIES  
WORLDWIDE



**9** consecutive  
years of

Gold Award  
in the  
'Education  
& Learning'  
category in  
Putra Brand Awards





# AWARDS



## Private University in Malaysia for Employer Reputation

QS Asia University Rankings 2019  
 QS World University Rankings 2020  
 QS Graduate Employability Rate 2020



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

QS WORLD UNIVERSITY RANKINGS

PUTRA BRAND GOLD AWARDS



Malaysia Rating for University and University College Excellence



HOSPITALITY AND TOURISM  
 D-SE-TARA



2011 - 2019

PERFORMANCE RATING BY MINISTRY OF HIGHER EDUCATION

READER'S DIGEST TRUSTED BRAND GOLD AWARDS



- 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



- Ranked 135<sup>th</sup> in the 2019 QS Asia University Rankings
- 4<sup>th</sup> best university and Asia's best for the Graduate Employment Rate indicator in the 2019 QS Graduate Employability Rankings
- Placed 216<sup>th</sup> 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

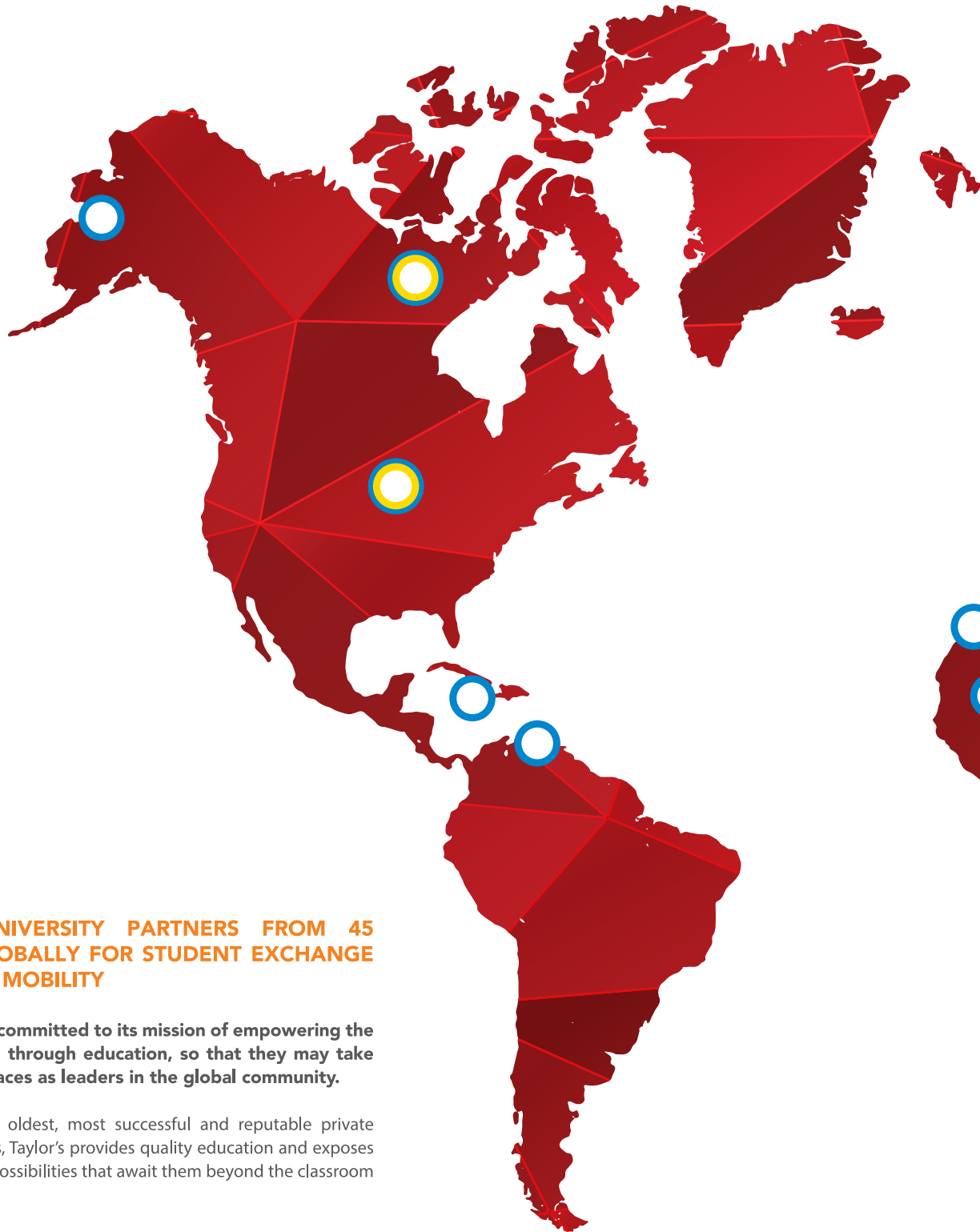


- Top 200 universities in Asia in the QS Asia Ranking
- Awarded 5-Star rating in five (5) categories of the QS Stars Rating
- Gold Award in the 'Education & Learning' category for the 8th consecutive year in Putra Brand Awards
- Gold Award in the 'Private University/College' category for the 7<sup>th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



- 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.

Home to Our International Students

International Opportunities for Our Students



 TAYLOR'S UNIVERSITY  
Wisdom · Integrity · Excellence

 TAYLOR'S COLLEGE  
Wisdom · Integrity · Excellence



# 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  
(CAFÉ)



Architecture, Building  
& Design (MASSA)



Business (Case &  
Research Centre)



Hospitality, Tourism  
& Culinary Arts (CRIT)



Communication  
(SEARCH)

# TAYLOR'S

# 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.

## 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**

## THE LIFE SKILLS MODULES FOCUSES ON:



**Emotional Intelligence**



**Self-awareness**



**Self-management**



**Social Awareness**



**Relationship Management**

## 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 4<sup>th</sup> 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**

JPT/BPP(D)1000-701/502(3) DU023(B)

No. 1, Jalan Taylor's, 47500 Subang Jaya,  
Selangor Darul Ehsan, Malaysia.

Tel : +603-5629 5000

Fax : +603-5629 5001

Email : [applications@taylors.edu.my](mailto:applications@taylors.edu.my)

Website : [university.taylors.edu.my](http://university.taylors.edu.my)

Taylor's Education Counselling Centres

• Penang Office           Tel: +604-899 9396           Fax: +604-899 9596

• Johor Bahru Office     Tel: +607-351 3692/3694     Fax: +607-351 3689

This publication contains information, which is current as of November 2019. 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.

# COMPUTING & IT

## **Diploma in Information Technology**

## **Bachelor of Information Technology (Hons)**

### **Specialisations:**

1. Internet Technologies (Dual Award)
2. Business Intelligence and Analytics (Single Award)
3. Game Design (Single Award)

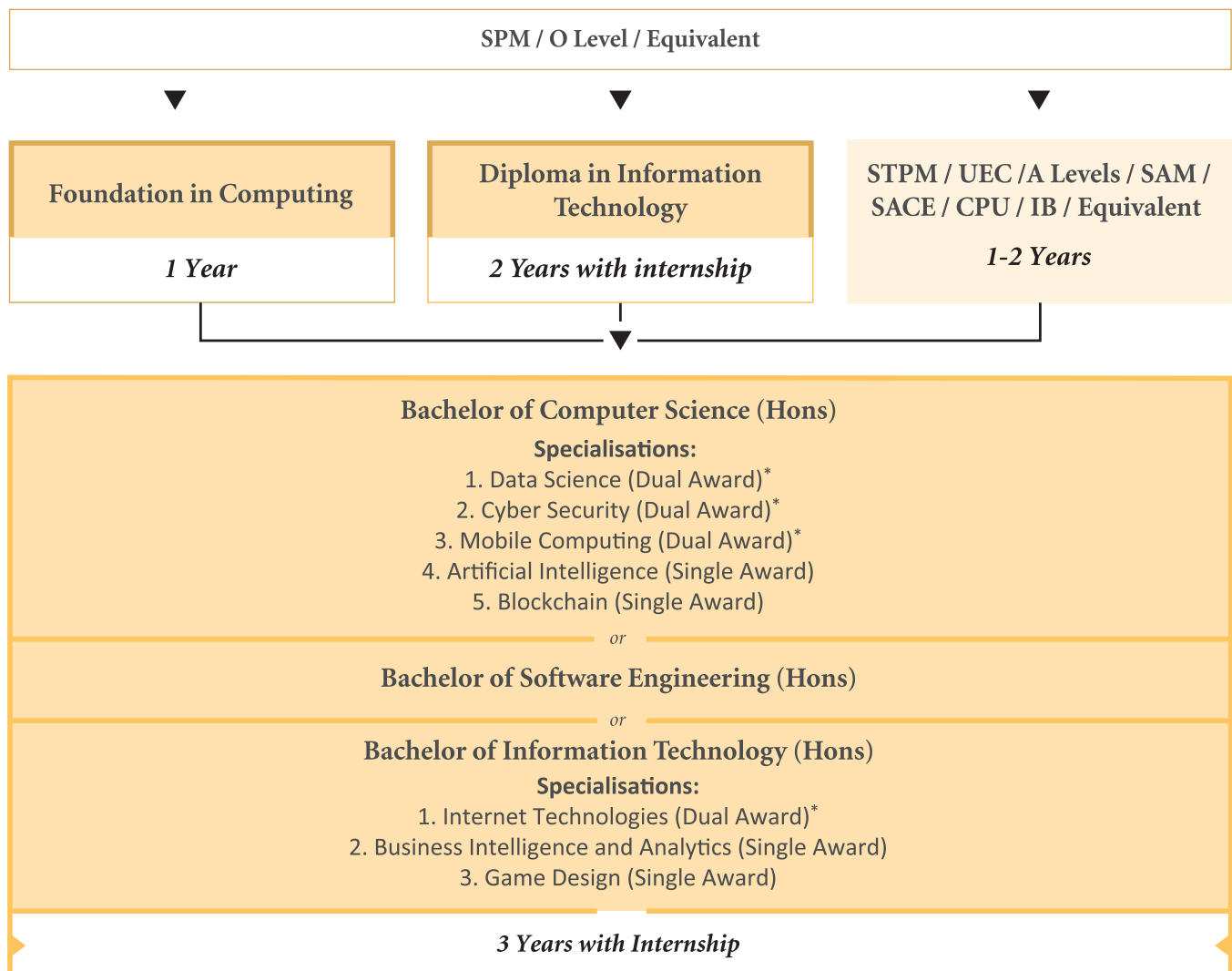
## **Bachelor of Computer Science (Hons)**

### **Specialisations:**

1. Data Science (Dual Award)
2. Cyber Security (Dual Award)
3. Mobile Computing (Dual Award)
4. Artificial Intelligence (Single Award)
5. Blockchain (Single Award)

## **Bachelor of Software Engineering (Hons)**

# EDUCATION PATHWAY



\*Awarded by Taylor's University & University of the West of England (UWE), (UK)



# OVERSEAS TRANSFER OPTIONS\*



## UNITED KINGDOM

### UNIVERSITY OF ESSEX

- Bachelor of Science Computer Games
- Bachelor of Science Computer Science
- Bachelor of Engineering Computer Networks
- Bachelor of Engineering Electronic Engineering
- Bachelor of Engineering Robotic Engineering
- Bachelor of Engineering Mechatronic Systems
- Bachelor of Engineering Communications Engineering
- Bachelor of Engineering Computers with Electronics
- Bachelor of Engineering Computer Systems Engineering

### UNIVERSITY OF BIRMINGHAM

- Bsc Computer Science
- MSci Computer Science

### UNIVERSITY OF LEEDS

- BSc Computer Science



## AUTRALIA

### UNIVERSITY OF SOUTH AUSTRALIA

- Bachelor of Information Technology
- Bachelor of Software Engineering (Honours)
- Bachelor of Information Technology (Software Development)

### THE UNIVERSITY OF QUEENSLAND

- Bachelor of Information Technology
- Bachelor of Computer Science

### QUEENSLAND UNIVERSITY OF TECHNOLOGY

- Bachelor of Information Technology (Computer Science)
- Bachelor of Information Technology (Information System)

# DIPLOMA IN INFORMATION TECHNOLOGY

2-Year  
Programme

KPT/JPS (R/481/4/0668) (MQA/FA0095) 11/20

## INTAKE: MARCH & AUGUST

The programme is designed to equip students with the essential knowledge, skills and mindset to explore technology-based ventures.

Combining theory and practice with real world experience, the programme covers key technical knowledge in analysing user requirements and specifications, development, implementation, testing and maintenance of systems. Students will also gain exposure to the major elements of technopreneurship activities. Upon completion, students will have the ability to apply the concepts and technologies to practice, grooming them for further studies, careers in software development or technopreneurship.

### Year 1

- Academic English
- Introduction to Information Technology
- Computing Mathematics
- Problem Solving & Programming Design
- Management Information Systems
- Object-Oriented Programming
- Object-Oriented Analysis and Design
- Computer Architecture
- Human-Computer Interaction
- UCM1
- UCM2
- UCM3
- UCM4
- Free Elective I

48 Credit Hours

### Year 2

- Software Project Management
- Database Systems
- Data Communications and Networking
- Principles of Web Development
- Operating Systems
- Web Development
- Calculus and Algebra
- Computing Project
- Free Elective II
- *Industrial Training*

42 Credit Hours

FULL ACCREDITATION

3-Year Programme

# BACHELOR OF INFORMATION TECHNOLOGY (HONS)

KPT/JPS (N/481/6/0280) (MQA/FA2538) 04/23  
Bachelor of Science (Hons) Information Technology (UWE, UK)



• Internet Technologies



• Business Intelligence and Analytics  
• Game Design

## INTAKE: MARCH & AUGUST

The programme teaches students to use Internet Technologies and applications to solve real-world problems. The areas of studies include computer hardware and software, software development, web programming, web technologies and e-commerce. Graduates will have strong capabilities to integrate business requirements with Information Technology to improve and transform the business processes within an organisation.

### Primary Core

#### Common Core

- Database Systems
- IT Fundamentals
- Mathematics and Statistics
- Object Oriented Programming
- Data Structures and Algorithm
- Human Computer Interaction
- Systems Administration and Platform Technologies
- Computer Networking
- Information Assurance and Security
- Professional Computing Practice
- Capstone Project (Part I)
- Capstone Project (Part II)
- **Industrial Training**

#### Specialisation

##### Compulsory Modules

- Web Development Technologies
- Understanding Entrepreneurialism
- System Integration and Architecture
- Web Application Programming

Choose ONE (1) of the options:

##### Option 1: Internet Technologies (Dual Award)

- Mobile Applications Development
- Wireless Networks and Security
- Introduction to Cloud Computing
- Internet of Things

##### Option 2: Business Intelligence and Analytics (Single Award)

- Data Mining
- Marketing Analytics
- Market Intelligence and Data Visualization
- Social Media Analytics

##### Option 3: Game Design (Single Award)

- Games Development
- Games Studies
- Experiential Design
- 3D Modeling

88 Credit Hours



### University Core

- Bahasa Melayu Komunikasi 2 / Tamadun Islam dan Tamadun Asia
- Pengajian Malaysia 3 /Hubungan Etnik
- Life Skills for Success & Well-Being
- Millennials in Malaysia: Team Dynamics and Relationship Management
- Community Service Initiative

\*Students are requested to take Bahasa Kebangsaan A if they do not obtain a Credit for Bahasa Malaysia in SPM.

12 Credit Hours

### Complementary Studies

Choose ONE (1) of the below packages:

#### Extension

For Option 1: Internet Technologies, choose one of the below Extension Packages: • Blockchain • Data Science

For Option 2: Business Intelligence and Analytics, choose one of the below Extension Packages: • Internet Technologies • Mobile Computing • Cyber Security • Blockchain

For Option 3: Game Design, choose one of the below Extension Packages: • Internet Technologies • Data Science • Cyber Security • Mobile Computing • Blockchain

Note: Students must choose an Extension package that is different from their chosen specialisation.

or

#### Minor

##### Recommended Packages:

- Creative Media Design
- Management
- Broadcasting
- International Business
- Advertising
- Entrepreneurship
- Economics
- Biotechnology
- Accounting
- Finance
- Marketing

Choose any Minor package\* offered by Taylor's University. Refer to the Flexible Study Guide for the list of Minor packages.

or

#### Second Major

Choose any Second Major package\* offered by Taylor's University. Refer to the Flexible Study Guide for the list of Second Major packages.

or

#### Free Electives

Choose any FIVE (5) Free Electives\* offered by Taylor's University. Refer to the Flexible Study Guide for the list of Free Electives.

\*Subject to availability

\*Meet min. module pre & co-requisite

### Note :

Primary Core + University Core + Extension = Min. 3 Years (120 Credit Hours)

Primary Core + University Core + Minor = Min. 3 Years (120 Credit Hours)

Primary Core + University Core + Second Major = Min. 3.5 Years (148 Credit Hours)

Primary Core + University Core + Free Electives = Min. 3 Years (120 Credit Hours)



FULL ACCREDITATION

3-Year Programme

# BACHELOR OF COMPUTER SCIENCE (HONS)

KPT/JPS (N/481/6/0256) (MQA/FA2541) 03/23  
Bachelor of Science (Hons) Computing (UWE, UK)



- Data Science
- Cyber Security
- Mobile Computing



- Artificial Intelligence
- Blockchain

## INTAKE: MARCH & AUGUST

Computer Science is considered to be the foundational science that takes scientific and practical approaches to computerisation and its application. The programme will cover the methodical processes such as algorithms, in order to acquire, represent, process, store, communicate and access information.

Primary Core	Complementary Studies
<p><b>Common Core</b></p> <ul style="list-style-type: none"> <li>• Discrete Structures</li> <li>• Computer Architecture and Organisation</li> <li>• Object Oriented Programming</li> <li>• Database Systems</li> <li>• Human Computer Interaction</li> <li>• Operating Systems and Computer Networks</li> <li>• Software Engineering</li> <li>• Data Structures and Algorithm</li> <li>• Systems Fundamentals</li> <li>• Theory of Computation</li> <li>• Capstone Project I</li> <li>• Capstone Project II</li> <li>• <b>Industrial Training</b></li> </ul> <p><b>Specialisation</b></p> <p><b>Compulsory Modules</b></p> <ul style="list-style-type: none"> <li>• Understanding Entrepreneurialism</li> <li>• Machine Learning and Parallel Computing</li> <li>• Advanced Programming</li> <li>• Professional Practices and Information Security</li> </ul> <p>Choose ONE (1) of the options:</p> <p><b>Option 1: Data Science (Dual Award)</b></p> <ul style="list-style-type: none"> <li>• Statistical inference and modeling</li> <li>• Data Science Principles</li> <li>• Data Mining</li> <li>• Big Data Technologies</li> </ul> <p><b>Option 2: Cyber Security (Dual Award)</b></p> <ul style="list-style-type: none"> <li>• Computer and Network Security</li> <li>• Computer Intrusion Detection</li> <li>• Computer Crime and Digital Evidence</li> <li>• Wireless Networks and Security</li> </ul> <p><b>Option 3: Mobile Computing (Dual Award)</b></p> <ul style="list-style-type: none"> <li>• Introduction to Mobile Computing</li> <li>• Mobile Applications Development</li> <li>• Wireless Networks and Security</li> <li>• Internet of Things</li> </ul> <p><b>Option 4: Artificial Intelligence (Single Award)</b></p> <ul style="list-style-type: none"> <li>• Computer Vision and Natural Language Processing</li> <li>• Data Analytics and Machine Learning</li> <li>• Cognitive Computing and Applications</li> <li>• Big Data Technologies</li> </ul> <p><b>Option 5: Blockchain (Single Award)</b></p> <ul style="list-style-type: none"> <li>• Introduction to Digital Currencies</li> <li>• Cryptography and Systems Security</li> <li>• Distributed Systems and Processing</li> <li>• Blockchain Technology and Applications</li> </ul>	<p>Choose ONE (1) of the below packages:</p> <p style="text-align: center;"><b>Extension</b></p> <p>For Option 1: Data Science and Option 4: Artificial Intelligence, choose one of the below Extension Packages:</p> <ul style="list-style-type: none"> <li>• Mobile Computing</li> <li>• Cyber Security</li> <li>• Internet Technologies</li> <li>• Blockchain</li> </ul> <p>For Option 2: Cyber Security and Option 3: Mobile Computing, choose one of the below Extension Packages:</p> <ul style="list-style-type: none"> <li>• Data Science</li> <li>• Blockchain</li> </ul> <p>For Option 5: Block Chain, choose one of the below Extension Packages:</p> <ul style="list-style-type: none"> <li>• Cyber Security</li> <li>• Mobile Computing</li> <li>• Data Science</li> <li>• Internet Technologies</li> </ul> <p><i>Note: Students must choose an Extension package that is different from their chosen specialisation.</i></p> <p style="text-align: center;"><b>or</b></p> <p style="text-align: center;"><b>Minor</b></p> <p><b>Recommended Packages:</b></p> <ul style="list-style-type: none"> <li>• Creative Media Design</li> <li>• Broadcasting</li> <li>• Advertising</li> <li>• Biotechnology</li> <li>• Accounting</li> <li>• Management</li> <li>• International Business</li> <li>• Entrepreneurship</li> <li>• Business Analytics</li> <li>• Finance</li> <li>• Marketing</li> </ul> <p>Choose any Minor package* offered by Taylor's University. Refer to the Flexible Study Guide for the list of Minor packages.</p> <p style="text-align: center;"><b>or</b></p> <p style="text-align: center;"><b>Second Major</b></p> <p>Choose any Second Major package* offered by Taylor's University. Refer to the Flexible Study Guide for the list of Second Major packages.</p> <p style="text-align: center;"><b>or</b></p> <p style="text-align: center;"><b>Free Electives</b></p> <p>Choose any FIVE (5) Free Electives* offered by Taylor's University. Refer to the Flexible Study Guide for the list of Free Electives.</p> <p><i>*Subject to availability</i> <i>*Meet min. module pre &amp; co-requisite</i></p>
+	+
+	88 Credit Hours
<p style="text-align: center;"><b>University Core</b></p> <ul style="list-style-type: none"> <li>• Bahasa Melayu Komunikasi 2 / Tamadun Islam dan Tamadun Asia</li> <li>• Pengajian Malaysia 3 /Hubungan Etnik</li> <li>• Life Skills for Success &amp; Well-Being</li> <li>• Millennials in Malaysia: Team Dynamics and Relationship Management</li> <li>• Community Service Initiative</li> </ul> <p><i>*Students are requested to take Bahasa Kebangsaan A if they do not obtain a Credit for Bahasa Malaysia in SPM.</i></p>	12 Credit Hours

### Note :

- Primary Core + University Core + Extension = Min. 3 Years (120 Credit Hours)
- Primary Core + University Core + Minor = Min. 3 Years (120 Credit Hours)
- Primary Core + University Core + Second Major = Min. 3.5 Years (148 Credit Hours)
- Primary Core + University Core + Free Electives = Min. 3 Years (120 Credit Hours)



FULL ACCREDITATION

3-Year Programme

# BACHELOR OF SOFTWARE ENGINEERING (HONS)

KPT/JPS (R/481/6/0726) (MQA/FA0600) 05/21  
Bachelor of Science (Hons) Software Engineering (UWE, UK)

## INTAKE: MARCH & AUGUST

This programme is designed to equip students with the skills needed to develop and maintain large and complex systems or applications. Students will analyse user requirements, design, test and develop software by applying theories and principles of software engineering. Students will have good understanding of latest tools and processes for software design and development as well as get practical exposure.

**Primary Core**

- Discrete Structures
- Computer Architecture and Organisation
- Systems Fundamentals
- Database Systems
- Computer Networking
- Object Oriented Programming
- Professional Computing Practice
- Software Project Management
- Operating Systems
- Data Structures and Algorithm
- Software Engineering
- Statistics and Operational Research
- Advanced Programming
- Capstone Project I
- Capstone Project II
- Theory of Computation
- Requirement Engineering
- Software Design
- Software Testing
- Software Quality Management
- **Industrial Training**

88 Credit Hours

**University Core**

- Bahasa Melayu Komunikasi 2 / Tamadun Islam dan Tamadun Asia
- Pengajian Malaysia 3 /Hubungan Etnik
- Life Skills for Success & Well-Being
- Millennials in Malaysia: Team Dynamics and Relationship Management
- Community Service Initiative

*\*Students are requested to take Bahasa Kebangsaan A if they do not obtain a Credit for Bahasa Malaysia in SPM.*

12 Credit Hours

**Complementary Studies**

Choose ONE (1) of the below packages:

**Extension**

- Data Science
- Cyber Security
- Mobile Computing
- Internet Technologies
- Blockchain

**or**

**Minor**

- Creative Media Design
- Broadcasting
- Advertising
- Biotechnology
- Accounting
- Management
- International Business
- Entrepreneurship
- Business Analytics
- Finance
- Marketing

Choose any minor package\* offered by Taylor's University. Refer to the Flexible Study Guide for the list of minor packages.

**or**

**Second Major**

Choose any second major package\* offered by Taylor's University. Refer to the Flexible Study Guide for the list of second major packages.

**or**

**Free Electives**

Choose any FIVE (5) free electives\* offered by Taylor's University. Refer to the Flexible Study Guide for the list of free electives.

*\*Subject to availability*  
*\*Meet min. module pre & co-requisite*

### Note :

- Primary Core + University Core + Extension = Min. 3 Years (120 Credit Hours)
- Primary Core + University Core + Minor = Min. 3 Years (120 Credit Hours)
- Primary Core + University Core + Second Major = Min. 3.5 Years (148 Credit Hours)
- Primary Core + University Core + Free Electives = Min. 3 Years (120 Credit Hours)



**TAYLOR'S  
UNIVERSITY**

Wisdom • Integrity • Excellence

### **Taylor's University Lakeside Campus**

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