



# MSC IN APPLIED COMPUTING

JPT/BPP(N/482/7/0160)01/25

JPT/BPP(N-DL/0611/7/0002)07/27





## Scaling technology experimentation to full digital transformation

Breakthrough Industrial Revolution 4.0 (IR4.0) technologies such as Artificial Intelligence (AI), Internet of Things (IoT) and automation are sending shocks around the world. As a result, global industries are in desperate need of a reboot to respond to new realities accelerated by digital, super-computing and data.

Developed in collaboration with ICT tech experts from PETRONAS, IoT industry players and tech firms, UTP's MSc in Applied Computing sets out to prepare future ICT workforce to help global industries reinvent for a digital future. Significantly, the programme equips candidates to become computing specialists with data-driven computing skills to deploy technology-driven innovations in business.

In addition, the programme provides STEM graduates with non-computing backgrounds a great platform to launch a career in technology. At the same time, the programme's strategic focus on meeting IR4.0 challenges, solving real world problems and overcoming the industry's talent shortage will further boost STEM graduates' employability.

**Building a talent pipeline of computing specialists! Benefit from learning objectives tied to reality-based industry scenarios and changes**

Join a leading feeder university for the applied computing industry

Get in touch with the latest industry thinking.

### **Become data analytic expert**

Grow your industry perspective with subjects grounded in day-to-day industry challenges, opportunities and outcomes

### **Become enterprise system specialist**

Learn how to leverage real industry data and research evidence to provide solutions through cutting edge technology tools and management techniques

# Who is the programme for?

The programme is designed to help ICT and STEM professionals, among others, unlock innovation opportunities in the Internet of Things (IoT). Significantly, students will be coached to take ambitious action by designing new solutions and services for the ICT and IoT industries. In addition, students will learn to converge multiple advanced applied computing skills such as big data analytics, enterprise resource planning and e-commerce, computer network, cyber security, software development, operating systems and server to deploy IR4.0 technologies.

## 4 reasons to join MSc in Applied Computing at UTP!

1

### **Modular-based programme jointly developed with PETRONAS' ICT experts and the industry**

Reap the benefits of an industry-backed programme that supports the global mission of the industry.

2

### **Leverage our vast industry network!**

Grow your ICT expertise and apply classroom and research knowledge to real industry projects through our university-industry collaborations.

3

### **Get a sneak peek at the future with maximum industry exposure**

Boost your industry readiness and become a computing specialist who straddles a broad range of technology areas encompassing Emerging Technology, Big Data Analytics, Enterprise Resource Planning and E-Commerce.

4

### **Benefit from our innovative curriculum and programme specialisations**

Gear up your competitive edge in ICT to support changing industry needs with our UTP-exclusive Big data Analytics and Enterprise Resource Planning specialisations.

## The industry is our classroom

1	Programme jointly developed with PETRONAS ICT experts and the industry
2	Programme subjects delivered by senior industry experts, academics and adjunct lecturers
3	Project-based assignments: Capture real industry-derived analytical data resources

# Course structure

Candidates are required to complete total of 40 credit hours. The programme's curriculum structure is as follows:

Category	Module	Credit Hour
Core	IT Project Management	3
	Digital Innovation and Transformation	3
	Emerging Technology	3
	Digital and K-Economy	3
	IT Governance, Risk and Compliance	3
	Information System Strategic Planning	3
Core Specialisation (Choose 3)	Machine Learning Analytics	3
	Real Time Analytics	3
	Digital Analytics	3
	Business Intelligence	3
	Business Process Re-Engineering	3
	Enterprise System Architecture	3
University Requirement	Research Method in IT	3
Project	Project	10
TOTAL		40

## Mode of study

Conventional

ODL

Minimum 12 months  
Maximum 36 months

On-demand tailored weekend programme

Busy working? Fret not. We have 2 options for you:

a. On demand tailored weekend programme (Conventional mode)

b. Fully online programme (ODL mode)

## Medium of Instruction

English

## Intake

January/May/September

# Entry requirements

## Academic

1	Bachelor's Degree in a relevant field from a recognised university with a minimum CGPA of 2.75 or its equivalent.
2	Bachelor's Degree in a relevant field from a recognised university with a minimum CGPA of 2.50 - 2.74 or its equivalent will require an internal rigorous assessment.
3	Bachelor's Degree in a relevant field from a recognised university with a minimum CGPA of 2.00 - 2.49 or its equivalent will require 5 years of working experience and internal rigorous assessment.
4	Bachelor's Degree from different discipline, must undergo pre-requisite courses in Computing.
5	Apply with your working experience. Candidate who satisfy APEL A requirements are eligible to enrol. Scan the QR code to learn more.



## English language proficiency

International students are required to be proficient in written and spoken English with a minimum TOEFL score of 550 OR a minimum IELTS score of 6.0 or its equivalent.

Exemptions may be provided for candidates who are native English speakers or degree holders with English as the medium of instruction.

# Graduation requirements

In order to graduate with MSc in Applied Computing degree, candidate is required to:

1	Obtain a minimum cumulative grade point average (CGPA) of 3.00
2	Satisfy all the requirements approved by UTP Senate
3	Fulfill the required credit hours and pass Research Methodology course

# Tuition fees

Malaysian		International	
Conventional	ODL	Conventional	ODL
RM28,800	RM23,550	RM37,150	RM30,650
RM400	Resource (every semester)	RM400	
RM500	Registration	RM1,400	
RM500	Commitment	RM800	
-	Personal bond	RM3,000	



# Rankings & ratings



## For programme enquiry:

Associate Professor Dr Izzatdin Abdul Aziz  
Programme Manager  
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## For admission enquiry:

Admission Line :  
Local candidates : +605 368 8064  
International candidates : +605 368 8364  
Universiti Teknologi PETRONAS, 32610 Seri Iskandar, Perak Darul Ridzuan, Malaysia

For further details on the application, visit [www.utp.edu.my](http://www.utp.edu.my)



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\* As at 19 October 2023