MSc in
APPLIED
Computing
JPT/BPP(N/482/7/0160)01/25
Rankings & ratings

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For admission enquiry:
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Universiti Teknologi PETRONAS, 32610 Seri Iskandar, Perak Darul Ridzuan, Malaysia

For further details on the application, visit www.utp.edu.my

* As at 30 June 2020
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 |

Get your hands in the industry with our vast network

Benefit from our close collaborations with the industry. Immerse yourself in the future and identify answers to the industry’s most complex challenges.
## Course structure

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

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

## Mode of study

### Conventional

**Minimum** 12 months  
**Maximum** 36 months

**On-demand tailored weekend programme**

Busy working? Fret not. Special weekend classes can be arranged by the faculty to accommodate your busy schedule.

## Medium of Instruction

**English**

## Intake

January/May/September
## Entry requirements

### Academic

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<tr>
<td><strong>1</strong></td>
<td>Bachelor’s Degree in a relevant field from a recognised university with a minimum CGPA of 2.75 or its equivalent.</td>
</tr>
<tr>
<td><strong>2</strong></td>
<td>Bachelor’s Degree in a relevant field from a recognised university with a CGPA of 2.50 - 2.74 or its equivalent will require internal rigorous assessment</td>
</tr>
<tr>
<td><strong>3</strong></td>
<td>Bachelor’s Degree in a relevant field from a recognised university with a CGPA of 2.00 - 2.49 or its equivalent will require 5 years of working experience and internal rigorous assessment</td>
</tr>
<tr>
<td><strong>4</strong></td>
<td>Apply with your working experience. Candidates who satisfy APEL A requirements are eligible to enroll. Scan the QR code to learn more.</td>
</tr>
</tbody>
</table>

### 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 are required to:

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<tr>
<td><strong>1</strong></td>
<td>Obtain a minimum cumulative grade point average (CGPA) of 3.00</td>
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<tr>
<td><strong>2</strong></td>
<td>Satisfy all the requirements as approved by Senate</td>
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## Tuition fees

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<thead>
<tr>
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<th>Malaysian</th>
<th>International</th>
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<tbody>
<tr>
<td>Conventional</td>
<td>RM28,800</td>
<td>RM37,600</td>
</tr>
<tr>
<td>Resource (every semester)</td>
<td>RM400</td>
<td>RM400</td>
</tr>
<tr>
<td>Registration</td>
<td>RM500</td>
<td>RM1,400</td>
</tr>
<tr>
<td>Commitment</td>
<td>RM500</td>
<td>RM800</td>
</tr>
<tr>
<td>Personal bond</td>
<td>-</td>
<td>RM3,000</td>
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