

# POSTGRADUATE PROGRAMMES

# UNIMY

UNIVERSITY MALAYSIA  
OF COMPUTER SCIENCE  
& ENGINEERING

***Future Begins  
@UNIMY***

100%

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## UNIMY PARTNERS:



A MEMBER OF  
**aws** academy

## ACADEMIC PARTNERS



## PRESTARIANG PARTNERS:



A wholly-owned University by





## ABOUT UNIMY

The UNIMY community is driven by a shared purpose: to create a better future through technology, education, research and innovation. We are made of creative and inventive people, know how to enjoy life yet find the improvements that need to occur, using our imagination to create things to improve people's lives overall.

Founded to upskill and foster ICT graduates with a global mindset, UNIMY is trusted to nurture these students to make them ready to face Industry 4.0 challenges. Our graduates have been applauded by the industry's best players and are always being headhunted by the best IT companies.

UNIMY's strength is in our partnerships where we have rooted our relationships with the IT giants like IBM, Sales Force, KPMG, CompTIA and Amazon to ensure our students get the most benefit from learning and working with them side-by-side through industrial attachments and job trainings. Through teaching, research, and innovation, UNIMY's exceptional community pursues its mission of creating a better future for all.

“ UNIMY's motto is **Future begins @ UNIMY** signifying the forward-looking nature of using technology for advancing human kind. ”



## MASTER OF SCIENCE (COMPUTER SCIENCE) - BY COURSEWORK

KPT/JPS (N/481/7/0806)04/23 | MQA/PA 9388

**INTAKE** : May & September  
**DURATION** : 1.5 years - Full Time  
 2 years - Part Time

### 1. CORE COURSES (25 CREDITS)

- Algorithms (3 credits)
- Discrete structure (3 credits)
- Simulation and modelling techniques (3 credits)
- Artificial intelligence (3 credits)
- Programming language concepts (3 credits)
- Master project (10 credits)\*

### 2. UNIVERSITY CORE COURSES (6 CREDITS)

- Graduate seminar (1 credit)
- Research methodology and academic writing (3 credits)
- Fundamental issues in computing (2 credits)

### 3. ELECTIVE COURSES (9 CREDITS) - CHOOSE 3 SUBJECTS ONLY

#### 3.1 Algorithms and Theory Domain (3 credits for each subject)

- Complexity theory
- Cryptography
- Geometric modelling
- Computational techniques for science and engineering

#### 3.2 Computer Systems Domain (3 credits for each subject)

- Performance analysis of queueing systems
- Cloud computing
- Information security
- Service-oriented architecture
- Compiler construction

#### 3.3 Knowledge Systems Domain (3 credits for each subject)

- Intelligent multi-agent systems
- Data mining
- Machine learning
- Computational linguistics

#### 3.4 Software Engineering Domain (3 credits for each subject)

- Requirements engineering
- Software testing and quality assurance
- Software design methodologies
- Interface design methodology

#### \* Master project (10 credits):

- Abundant Data Applications, Algorithms, and Architectures
- Data Science Research
- Information Security and Cryptography
- Security of Computer Systems and Support for Digital Democracy
- Programming Languages, Software Engineering and Mobile Computing
- Machine Learning and Intelligent Systems
- Internet of Things
- Graphics and Visual Computing

## ENTRY REQUIREMENTS

### BSc

(in computing or science &amp; technology)

**CGPA  $\geq$  3.00**

OR

### BSc

(in computing or science &amp; technology)

**2.5  $\leq$  CGPA  $\leq$  3.00**  
 (applications will be considered on an individual basis)

### BSc

(in computing or science &amp; technology)

**CGPA  $<$  2.5**  
 (with minimum 5 years relevant industry experience)

OR

### BSc

(in non computing or science &amp; technology)

**REQUIRED TO TAKE  
PRE-REQUISITE COURSES**

“If you don’t learn how to manage your time, prioritise and focus on the big picture, it can consume you and you may get lost in the complexity of the business.”

**PANG YEE BENG**  
Head of Dell ASPAC & ASEAN



# 100%

graduate employability –  
Graduates employed within  
6 months in IT related jobs.

# 20%

20% higher starting salary – our  
fresh graduates enjoy higher  
starting salary than market average

## MASTER IN COMPUTING - BY RESEARCH

KPT/JPS (N/481/7/0805)02/23 | MQA/PA 9387

**INTAKE** : Registration is open throughout the year  
**DURATION** : 2 years (min) - 3 years (max) - Full Time  
2 years (min) - 4 years (max) - Part Time

### RESEARCH METHODOLOGY

We shall accept the research projects consisting of, but not limited to the following knowledge areas in computer science:

- Abundant Data Applications, Algorithms, and Architectures
- Data Science Research
- Information Security and Cryptography
- Security of Computer Systems and Support for Digital Democracy
- Programming Languages, Software Engineering and Mobile Computing
- Machine Learning and Intelligent Systems
- Internet of Things
- Graphics and Visual Computing

### ENTRY REQUIREMENTS

BSc		BSc		BSc
(in computing or science & technology) <b>CGPA ≥ 3.00</b>	OR	(in computing or science & technology) <b>2.5 ≤ CGPA ≤ 3.00</b> (applications will be considered on an individual basis)	OR	(in computing or science & technology) <b>CGPA &lt; 2.5</b> (with minimum 5 years relevant industry experience)





# 95%

teaching excellence -Lecturers with industry experience and maintain constant engagement with the industry.



## DOCTOR OF PHILOSOPHY (COMPUTING)

KPT/JPS (N/481/8/0786)04/23 | MQA/PA 9389

**INTAKE** : Registration is open throughout the year  
**DURATION** : 3 years (min) - 4 years (max) - Full Time  
4 years (min) - 5 years (max) - Part Time

- RESEARCH METHODOLOGY
- ACADEMIC WRITING

We shall accept the research projects consisting of, but not limited to the following knowledge areas in computer science:

- Abundant Data Applications, Algorithms, and Architectures
- Data Science Research
- Information Security and Cryptography
- Security of Computer Systems and Support for Digital Democracy
- Programming Languages, Software Engineering and Mobile Computing
- Machine Learning and Intelligent Systems
- Internet of Things
- Graphics and Visual Computing

### ENTRY REQUIREMENTS

#### MASTER IN COMPUTING OR EQUIVALENT

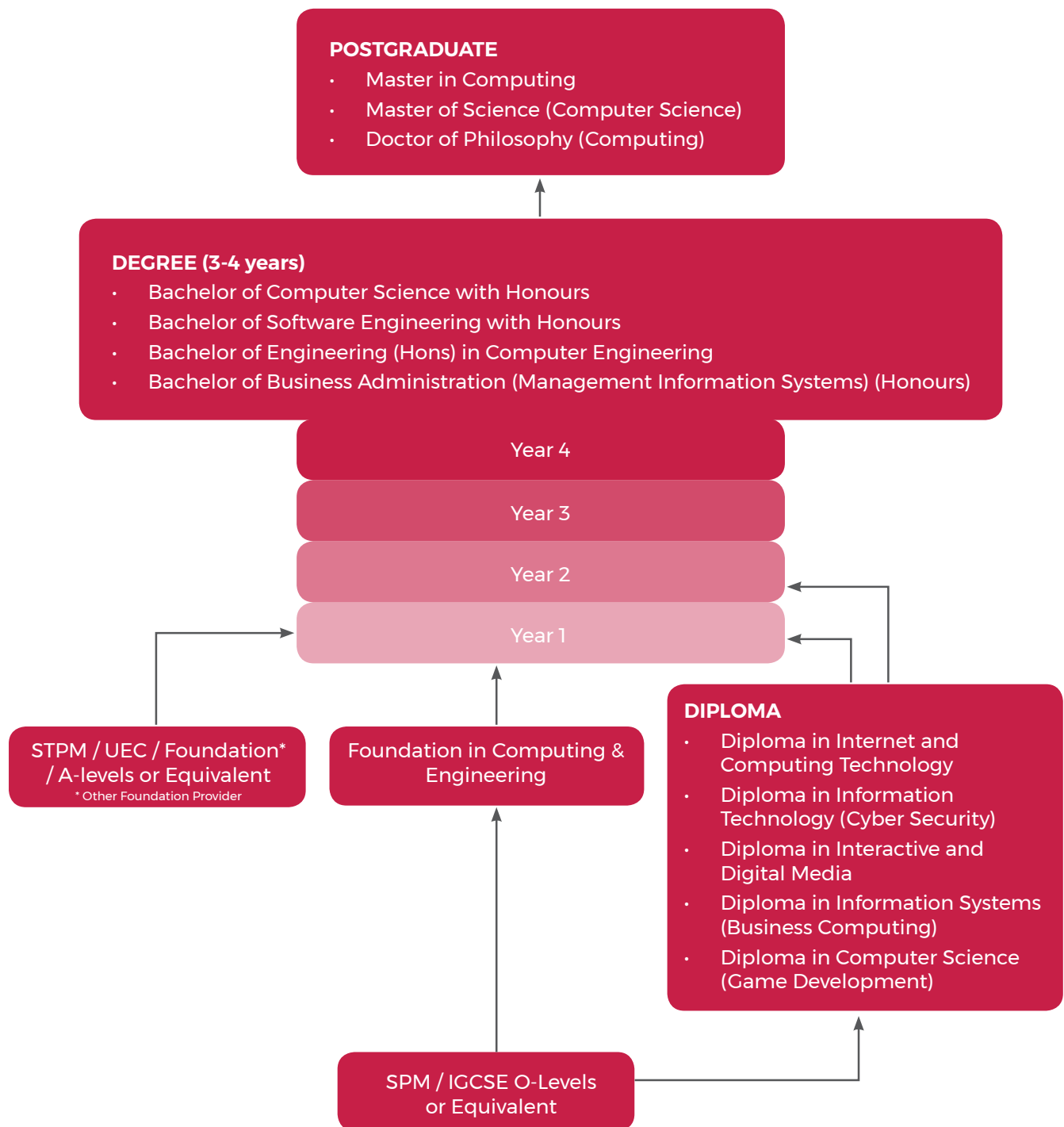
(candidates are required to have at least one BSc or MSc in computing)

#### OTHER MSc EQUIVALENT QUALIFICATIONS

(subjected to the approval by the Senate of the University)

OR

## EDUCATION PATHWAY



### ENGLISH LANGUAGE REQUIREMENTS

#### FOR INTERNATIONAL STUDENTS

- Pass TOEFL with minimum score of 550; or
- Pass IELTS with a minimum score of Band 6
- MUET - Minimum Band 3
- Other equivalent qualification recognised by Malaysian Government



# TOP 20 TRENDING ICT JOBS & POTENTIAL CAREER PATH

## 1. Mobile Application Developer

Mobile application developers create applications for mobile devices, such as iPhones and Androids.

## 2. Information Security Analyst

Information security analysts develop and implement computer security strategies and systems to protect vital information from computer crime and cyber warfare.

## 3. Web Developer

Web developers collect or create web content and plan website layouts and navigation, as well as coding for web pages. They also test and optimize a website for user experience and optimum performance.

## 4. Cloud Solutions Architect

Cloud solutions architects design solutions for companies seeking to move their IT infrastructure and services from on-premise servers to a cloud-based storage solution.

## 5. Applications Architect

Applications architects ensure individual software projects follow the organization's application development methodology and parameters. They also ensure the project fits a company's technology infrastructure and business strategy.

## 6. Development Operations (DevOps) Engineer

DevOps engineers function as a "jack of all trades" in regards to databases and information systems in organizations.

## 7. Data Scientist

Data scientists direct the gathering and application of data for a variety of organizations, including corporations and government agencies.

## 8. Information Technology Manager

Information technology managers oversee the IT needs of an organization.

## 9. Business Intelligence Developer

Business intelligence developers oversee databases and information systems with the goal of optimizing the storage, implementation, and flow

## 10. Database Administrator

Data Administrators are responsible for organizing and managing an organization's data, making sure that data is accurate and available and that database performance meets organizational requirements.

## 11. User Interface Designer

User interface designers work to ensure that software functions smoothly and logically for users and consumers.

## 12. Software Engineer

Software engineers design, develop, test, and optimize computer programs used in areas such as operating systems, business applications, network control systems, video games, and social networks.

## 13. Computer Systems Analyst

Computer systems analysts draw on business and technical expertise to evaluate a company's computer systems and procedures, with the goal of recommending strategic changes to increase productivity, lower costs, and achieve other objectives.

## 14. Site Reliability Engineer

Site reliability engineers work to ensure that an organization's website runs smoothly and efficiently serves its intended purpose.

## 15. Computer Technical Support Specialist

Computer technical support specialists engage in troubleshooting and problem solving, both within a corporation and for individual clients.

## 16. Computer Network Architect

Computer network architects design, build, and implement computer and data networks in a diverse array of settings.

## 17. Solutions Architect

Solutions architects develop technological solutions for organizations.

## 18. Data Architect

Data architects oversee the design and maintenance of data across a variety of information systems and databases.

## 19. Network Administrator

Network administrators oversee networks and communication systems to keep information and communications flowing smoothly.

## 20. Hardware Engineer

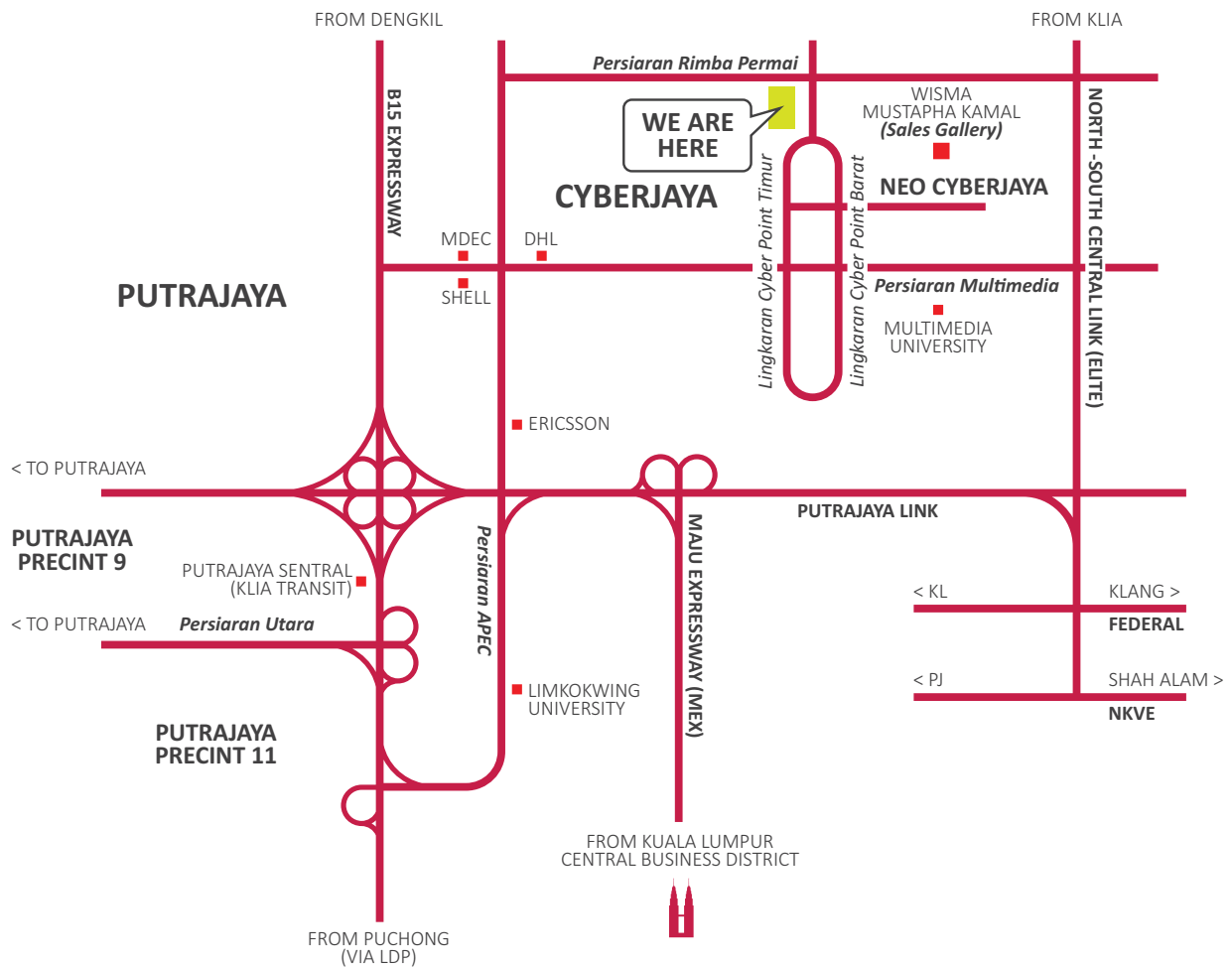
Hardware engineers design computer hardware.

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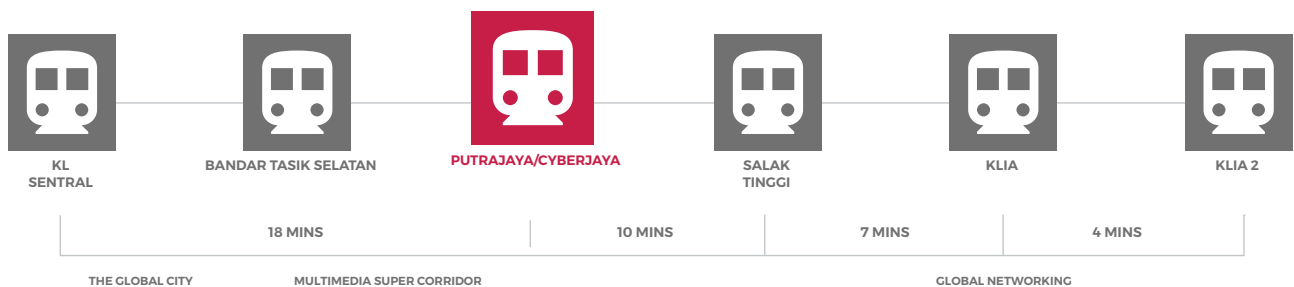
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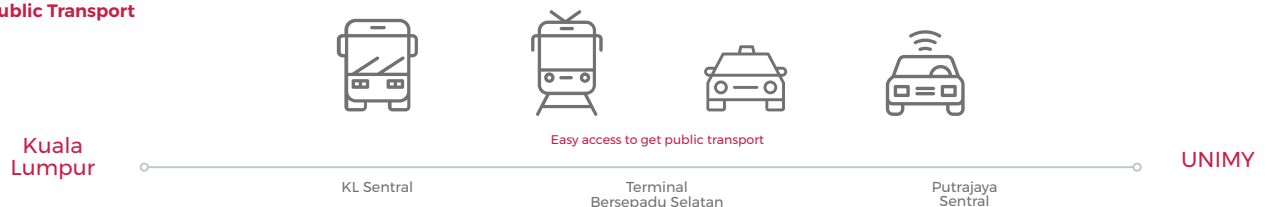
# UNIMY MAP



## KLIA Ekspres Train Times



## Public Transport



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### CONTACT US

☎ 011 10180991  
✉ [enquiry@unimy.edu.my](mailto:enquiry@unimy.edu.my)  
🌐 [www.UNIMY.edu.my](http://www.UNIMY.edu.my)

### ADDRESS

University Malaysia of Computer Science & Engineering (UNIMY) DU040(B)  
Star Central, Block 12, Lingkaran Cyber Point Timur, Cyber 12,  
63000 Cyberjaya, Selangor.

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