Your Journey in...

SCIENCE & TECHNOLOGY
Entry Level
- SPM/SPMV/O-Level
- STPM/STAM/Matriculation/Foundation/UEC/Diploma/A-Level

Foundation Studies (1 year)
- Foundation in Science

Bachelor’s Degree (6 semesters + Internship)
- Bachelor of Science (Honours) in Psychology
- Bachelor of Computer Science (Honours)
- Bachelor of Science (Honours) Biotechnology

Master’s Degree
- Master of Science in Project Management

PhD
- Doctor of Philosophy (Project Management)
- Doctor of Philosophy (Computer Science)
What Can You Do with a Science & Technology Degree?

We are in the midst of an era where change, innovation and new technologies are driving every aspect of society. This makes the need for graduates of science and technology stronger than ever. Careers in this field are some of the most exciting, challenging and rewarding jobs out there as you find yourself in the depths of innovation, discovery and research.

Our Science graduates are nurtured to be compelling leaders in their fields - able to address change as it happens in technology and society. The ability to think analytically, create solutions to problems and work independently are highly valued by employers, so the need for quality graduates of science and technology is paramount in our rapidly evolving world.

Career Options.

01 Marketer
Responsible for analyzing information from marketing research and making recommendations based on this analysis. They recommend tactics such as marketing mix - these key factors influence how to shape your firm’s presence and maintain a steady base of customers for the business.

02 Psychologist
Psychologists often gather information and conduct behavior. Through case studies, laboratory experiments, psychological or psychotherapy, they look for patterns of behavior or relationships between stimuli and they use this information when testing theories in their research or when treating patients.

03 Childcare Worker
Supervises and monitors the safety of children in their care. Organizes all group activities so that all children have fun and acquire different values.

04 IT Consultant
Advises clients on how to use information technology to improve the business objectives or streamline processes. They also work to improve the structure and efficiency of IT systems in various organizations.

05 Game Developer
Works on a team to plan, design, and develop video games for computers, mobile devices or game consoles. They work closely with artists, designers for the game and writing ability to implement all the game’s features and functionality.

06 Microbiologist
Analyzes the status of plants affecting soil health, soil nutrients, insects and diseases, as well as ensuring that food is safe, understood by the role of microorganisms in agriculture, and developing new technologies.

07 Research Technologist
A specialty that covers the design, implementation and evaluation of various research projects. Functions include providing support of basic research, such as experimental, data management, laboratory operations and general administration.

08 Plant Breeder
Undertakes scientific research into new crop-based agriculture with the aim of improving crop productivity, techniques and developing new strains of crops. Plant breeders also analyze the effects of different environmental changes on crops while increasing yields to meet consumer needs.

09 Market Researcher
Responsibilities may include gathering information from customers and making recommendations based on this analysis. They recommend tactics such as marketing mix - these key factors influence how to shape your firm’s presence and maintain a steady base of customers for the business.

Other career options could be:
- Materials Project Engineer
- Lecturer
- Civil Engineer
- Senior Resource Manager
- Lead Project Manager
- Web Developer
- Senior Software Engineer
- Bioinformatics Specialist
- Auditor
- Business Analyst
- Senior Analyst
- Research Scientist
- Lab Manager
- Microbiology Technologist
- Medical Technologist
- Project Manager
- Research Assistant

Industry Partners.
Student Stories.

IUMW is a growing community made up of students from all over the world. Throughout their journey, students experience tremendous growth on both an academic and personal level. Hear what our students have to say about their experience at IUMW.

Anisha binti Azli
Business Process Delivery Associate, Accenture Malaysia
Bachelor of Science (Honours) in Psychology

I decided to study at IUMW because of its firm establishment, being under one of the country’s top universities, University of Malaya, and the University of Wales. I was particularly interested in the dual awards programme with Wales. I believe it has increased my credibility when applying for jobs. Studying in IUMW definitely gave my confidence a boost, especially in communication and public speaking, and particularly through implementing the flipped classroom method. My experience shaped me into becoming more open-minded and accepting of others' opinions. Communication and interpersonal skills are both needed in my career, and IUMW helped me a lot with that.

Ng Yeon Seng
International Supporting Service, Hong Leong Bank Berhad
Bachelor of Computer Science (Honours)

I decided to study at IUMW so I could experience the university collaboration between University of Malaya (UM) and the University of Wales (UW). I wanted to enjoy the shared resources from both UM & UW and study abroad for 1 semester without additional fees.

My bachelor’s degree was a challenging experience, but luckily I had great lecturers who were always willing to help and support me whenever I faced any difficulties. In IUMW, lecturers don’t just teach, they share so much more. I learned about the trends of technology, what the markets are demanding, and learned about language. They also arrange workshops, talks, and events for us to attend to gain the exposure we need to industry. My experience throughout the journey of my bachelor’s degree is very precious to me!

Gaja Lakshmi andhan Ramamuthu
Jr. Storage Engineer, Infinite Computer Solution (IBM)
Bachelor of Computer Science (Honours)

I wanted to study at IUMW to experience the culture of the Malaya-Wales collaboration. Throughout my 4 year journey from foundation through to my bachelor’s degree, it was a challenging and interesting experience for me. The lecturers always worked hard to deliver their best to the students, and they guided me whenever I faced any challenges. They also guided me right the way through the internship process. During my final year project, I was helped a lot by my supervisor and lecturer and ended up receiving a gold award during my presentation! I consider the memories, experience and knowledge I gained throughout my journey at IUMW priceless.

Science & Technology Programmes.

A degree in Science and Technology can lay the foundation for a wide range of career options. There are three faculties within IUMW that specialise in these areas: Centre of Foundation Studies, and the Faculty of Education and Social Sciences, and the Faculty of Science, Technology, Engineering & Mathematics.

Centre of Foundation Studies
The Centre of Foundation Studies provides a study base for personal growth and academic enrichment. The one-year foundation programme, fully accredited by MQA, provides multi-disciplinary exposure to students before they pursue their undergraduate degrees.

Faculty of Education and Social Sciences
At the Faculty of Education and Social Sciences, programmes are designed to give students the best of both worlds, emphasising both knowledge and practical applications. Students can look forward to numerous opportunities to fully realise their potential. The faculty stands out for the quality of academic teaching and research in different areas of social sciences.

Faculty of Science, Technology, Engineering & Mathematics
With the evolution of Industry 4.0, digital lifestyles and disruptive technologies, the Faculty of Science, Technology, Engineering & Mathematics (FSTEM) has ventured into the field of science and technology with an emphasis on real-world applications. Our goal is to integrate innovative learning and the holistic acquisition of knowledge in interdisciplinary fields.
Students may choose either stream (Science/Computing) at the beginning of the semester. Elective modules for the streams are fixed.

- *Computer Systems
- *Biology 1
- Mathematics 1
- Physics 1
- Chemistry 1
- Study Skills
- Co-curriculum

**SEMESTER 1**

Programme Modules

**ENTRY REQUIREMENTS**

- Malaysian Students
  - SPM/STPM/O Level Credit in five (5) subjects including Mathematics and any science subject
  - UEC Grade B in three (3) subjects including Mathematics and any science subject
  - IB-Middle Year Programme 28 total points across the certificate’s 7 components
- Entry into different STEM fields may require specific achievements, subject to the programme’s entry requirements.

**International Students**

- Pass IUMW Intensive English, or IELTS with minimum Band 5, or TOEFL with a minimum score of 500

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**SEMESTER 2**

Programme Modules

**ENTRY REQUIREMENTS**

- Malaysian Students
  - SPM/STPM/O Level Credit in five (5) subjects including Mathematics and any science subject
  - UEC Grade B in three (3) subjects including Mathematics and any science subject
  - IB-Middle Year Programme 28 total points across the certificate’s 7 components
- Entry into different STEM fields may require specific achievements, subject to the programme’s entry requirements.

**International Students**

- Pass IUMW Intensive English, or IELTS with minimum Band 5, or TOEFL with a minimum score of 500

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**SEMESTER 3**

Programme Modules

**ENTRY REQUIREMENTS**

- Malaysian Students
  - SPM/STPM/O Level Credit in five (5) subjects including Mathematics and any science subject
  - UEC Grade B in three (3) subjects including Mathematics and any science subject
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**International Students**

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**YEAR 1**

- Programming Concepts
- Digital Computer Fundamentals
- Introduction to Statistics
- System Analysis and Design
- Object Oriented Programming
- Discrete Structure
- Data Structures
- English for Professional Communication
- Proficiency Skills in English
- English for Occupational Purposes
- Hubungan Etik (Malaysian Students)
- Bahasa Melayu Komunikasi 2 (International Students)
- Co-Curriculum 1

**YEAR 2**

- Database Systems
- Multimedia Technology & Application
- Software Engineering
- Data Communication and Networking
- Game Theory
- Software Project Management
- Professional Ethical and Legal Aspects of Computing
- Automata and Theory of Computer Science
- Object Oriented Analysis and Design
- Web Technology
- English for Academic Writing
- Industrial Training
- Project 1
- Artificial Intelligence
- English for Research Writing
- Public Speaking Skills
- Project 2

**YEAR 3**

- Graphical User Interface
- System Software
- Mobile Computing
- Advanced Databases
- Distributed Systems
- Computer Graphics
- English for Academic Writing
- Artificial Intelligence
- English for Research Writing
- Public Speaking Skills
- Project 2
- Industrial Training

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**FOUNDATION IN SCIENCE**

Our Foundation in Science programme equips students with the specific knowledge to pursue their degrees in the field of health, science, technology, engineering, mathematics and information technology. With practical exposure and a hands-on learning approach, those pursuing this programme will have a strong grasp of the core science knowledge they will need to excel in their future undertakings. Students will be given plenty of hands-on experience, essential for any student who wishes to excel in the science fields.

**BACHELOR OF COMPUTER SCIENCE (HONOURS)**

With the rate of growth and innovation in the computing and technology sector, demand continues to surge for skilled professionals in the field. The Bachelor of Computer Science (Honours) programme at UiUWM has been designed with industrial orientation; the course is jointly reviewed by Industry Advisor Panels, is based on professional curricula recommendations including those of the Institute of Electrical and Electronics Engineers, and is intertwined with components from industry such as the MOE-E Intel® AI Academy programme for Artificial Intelligence.

Students are exposed to industry through site visits, and participation in national and international activities and events. We produce highly skilled graduates who are equipped with both theoretical knowledge and hands-on experience, ready to make an impact in the competitive digital world.

**ENTRY REQUIREMENTS**

- Malaysian Students
  - A Level with 2 Principal passes (minimum grade D) or equivalent, recognised by the University of Wolverhampton

**International Students**

- A Level with 2 Principal passes (minimum grade D) or equivalent, recognised by the University of Wolverhampton

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**Notes**

- Specific requirements at SPM level can be waived should the grades obtained at the STPM / STAM / Diploma / Matriculation / Foundation be equivalent or higher.

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**Co-Curriculum 1**

- Campus Life
- Study Skills
- Mathematics 1
- Computer Systems

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**Co-Curriculum 2**

- Malay
- English Communication
- English
- English for Academic Writing
- English for Research Writing

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**Co-Curriculum 3**

- Community Service Learning
- International Students
- International Students
- International Students
## BACHELOR OF SCIENCE (HONOURS) BIOTECHNOLOGY

The Bachelor of Science (Honours) Biotechnology programme is designed to develop students with the knowledge and practical skills that are highly sought after in the changing world of biotechnology.

The programme provides an overview of the use of biologically derived materials for a multitude of applications and the practical skills behind them. Such materials include microorganisms (e.g., bacteria, yeast, algae) and their derived materials, as well as other biological sources (e.g., enzymes, protein, DNA). These applications are focused on three core areas: agricultural production, industrial production, and human health.

Industrial training and projects that directly link students to the industry and leading-edge research are some of the additional features of this course, giving it a practical approach.

### Programme Modules

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<thead>
<tr>
<th>YEAR 1</th>
<th>YEAR 2</th>
<th>YEAR 3</th>
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| *Biochemistry I*  
*Science of Organisms*  
*Chemistry*  
*Computer Fundamentals and Programming*  
*Introduction to Biotechnology*  
*Mathematics*  
*Biochemistry II*  
*Biostatistics*  
*Cell and Molecular Biology*  
*Genetics*  
*Microbiology*  
*English for Academic Writing*  
*Tamadun Islam dan Tamadun Asia (Malaysian Students)*  
*Bahasa Melayu Komunikasi 2 (International Students)*  
*Co-Curriculum 1*  
*English for Research Writing* | *Biometromation*  
*Cell and Tissue Culture*  
*Food Microbiology*  
*Genetic Engineering*  
*Environmental Biotechnology (Elective)*  
*Microbial Biotechnology (Elective)*  
*English for Occupational Purposes*  
*Enzyme Technology*  
*Animal Biotechnology*  
*Marine Biotechnology*  
*Plant Biotechnology*  
*Food Biotechnology*  
*Public Speaking Skills*  
*Principles of Entrepreneurship*  
*Bahasa Kebangsaan*  
*Hubungan Ethik (Malaysian Students)*  
*Malaysian Studies 3 (International Students)*  
*Co-Curriculum 2* | *Bioethics and Biosafety*  
*Bioinformatics*  
*Medical Biotechnology*  
*Pharmaceutical Biotechnology*  
*Undergraduate Project I*  
*Biorewter Design*  
*Current Topics in Biotechnology*  
*Industrial Biotechnology*  
*Fermentation Technology*  
*Undergraduate Project II*  
*Industrial Training*  
*Choose any ONE (1) elective* |

### ENTRY REQUIREMENTS

**Malaysian Students**  
- STPM Grade C (OP 2.00) in any two (2) subjects  
- STAM Grade A*  
- UEC Grade B in five (5) subjects including Mathematics and one science subject  
- Foundation Matriculation CGPA of 2.00  
- A-LEVEL Pass with Grade D in any two (2) subjects and possess O-Level with three (3) credits including Mathematics, one science subject and one any other subject  
- Malaysian Matriculation ATAR 65 including Mathematics and one science subject  
- IELTS Band 5 or TOEFL 500  
- Grade A* in Mathematics and one any other subject  
- *Choose any THREE (3) electives*

**International Students**  
- A-Level with 2 Principal pass (minimum grade D) or equivalent, recognised by Malaysian Government or fulfil any other entry requirements that are recognised by the University Senate; AND  
- Minimum Credit in Mathematics AND Physics or Chemistry or Biology or General Science in O-Level AND minimum pass in English in O-Level; AND  
- Pass IELTS with Band 5, or TOEFL with minimum score of 500  
- *Choose any ONE (1) elective*  

### Notes

*Specific requirements at SPM level can be waived should the grades obtained at the STPM / STAM / Diploma / Matriculation / Foundation are equivalent or higher.*

## BACHELOR OF SCIENCE (HONOURS) IN PSYCHOLOGY

IUMI’s Bachelor of Science (Honours) in Psychology is concerned with the scientific development of knowledge in human behavior and thought. Practical skills and critical thinking are taught with the intent of producing graduates who are competent from every angle.

Our programme integrates research and hands-on expertise to produce high performing graduates ready to take up roles in contemporary health and social sciences practices. Graduates will have the knowledge, skills, techniques and ethics that are relevant in today’s working environment.

With a wide range of applications from industry to education, health and social services, this programme can serve as a foundation for a whole variety of different careers.

### Programme Modules

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<th>YEAR 1</th>
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<th>YEAR 3</th>
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| *English for Research Writing*  
*Introduction to Psychology*  
*Theories of Personality and Individual Differences*  
*Introduction to Development*  
*Hubungan Ethik (Malaysian Students)*  
*Bahasa Kebangsaan*  
*Co-Curriculum 1*  
*Malaysian Studies 3 (International Students)* | *Biopsychology*  
*Biopsychology*  
*Sensation and Perception*  
*Qualitative Research Methods in Psychology*  
*Co-Curriculum 2*  
*Co-Curriculum 3*  
*Research Project*  
*Choose any ONE (1) elective* | *Abnormal Psychology*  
*Health Psychology*  
*Psychology of Aging*  
*Choose any three (3) electives* |

### ENTRY REQUIREMENTS

**Malaysian Students**  
- STPM Grade C (OP 2.00) in any two (2) subjects  
- STAM Grade A*  
- UEC Grade B in five (5) subjects  
- Foundation Matriculation CGPA of 2.00 out of 4.00  
- A-LEVEL Pass with Grade D in two (2) subjects  
- Malaysian Matriculation ATAR 65  
- IELTS Band 5 or TOEFL 500  
- *Choose any ONE (1) elective*  

**International Students**  
- A-Level with 3 Principal pass (minimum grade D) or equivalent, recognised by Malaysian Government or fulfil any other entry requirements that are recognised by the University Senate; AND  
- Minimum Credit in Mathematics AND Physics or Chemistry or Biology OR General Science in O-Level AND minimum pass in English in O-Level; AND  
- Pass IELTS with Band 5, or TOEFL with minimum score of 500  
- *Choose any ONE (1) elective*  

### Notes

*Specific requirements at SPM level can be waived should the grades obtained at the STPM / STAM / Diploma / Matriculation / Foundation are equivalent or higher.*
**ENTRY REQUIREMENTS**

**Malaysian Students**
- A Bachelor’s Degree with CGPA of 2.5 and above; OR
- A Bachelor’s Degree with CGPA of below 2.5 with at least FIVE (5) years of working experience; OR
- Other qualifications approved by the University Senate

**International Students**
- A Bachelor’s Degree with CGPA of 2.5 and above; OR
- A Bachelor’s Degree with CGPA of below 2.5 with at least FIVE (5) years of working experience; OR
- Other qualifications approved by the University Senate; AND
- Pass IELTS with minimum Band 6, or TOEFL with a minimum score of 600

**DOCTOR OF PHILOSOPHY (COMPUTER SCIENCE)**

Our Doctor of Philosophy (Computer Science) is a full research programme aimed to nurture scholarly graduates who are ready to become critical analytic researchers, academics, consultants, specialists, entrepreneurs and top level managers equipped with in-depth expertise and research skills.

Our PhD programme is designed to hone graduates who are innovative and impeccably knowledgeable in the area of computer science particularly in artificial intelligence, machine learning, evolutionary computation and Big Data science. In line with the principles of entrepreneurship, innovation and sustainability, the programme is engineered to provide a holistic platform for individual success and professional development through high-quality research training and prudent guidance.

**Programme Modules**

**SEMESTER 1**
- Organisational Studies
- Principles of Project Management I
- Project Management Professional
- Development I

**SEMESTER 2**
- Research Methodology
- Principles of Project Management II
- Project Management Professional
- Development II

(*) indicate elective modules. Students need only select ONE (1) from the modules offered.

**SEMESTER 3**
- Research Project
- Project Financial Management
- Integrated Project

**RESEARCH PROPOSAL**

Applicants for Doctor of Philosophy (Computer Science) programmes are required to submit a comprehensive statement of the research which they propose to carry out. The proposal should comprise the following elements:
- Field of research
- Topic of research proposal
- Background or a brief literature review on the research topic
- Objective of study - Explain the objectives that influence the research
- The Methodology of study - Explain the methods used in study
- Work schedule
- References
- The research proposal should contain between 1,500 - 2,000 words or about four (4) pages

**ENTRY REQUIREMENTS**

**Malaysian Students**
- Master’s Degree accepted by the University Senate and must have at least first degree (Master’s Degree or Bachelor’s Degree) in computing or other qualifications as approved by the University Senate

**International Students**
- Master’s Degree accepted by the University Senate and must have at least first degree (Master’s Degree or Bachelor’s Degree) in computing or other qualifications as approved by the University Senate

**MASTER OF SCIENCE IN PROJECT MANAGEMENT**

Our Master of Science in Project Management integrates advanced professional knowledge with technical, practical and cross-cultural management of projects in a flexible learning environment with global exposure.

The programme is designed with industrial orientation, and will benefit those in a range of sectors and industries. Students will be able to demonstrate a body of knowledge in project management within various functional areas such as construction, engineering, aerospace, architecture, maintenance, facilities management, disaster management, agriculture, biotechnology, oil & gas, logistics, factory automation, information systems, information & communication technology, digital technology, education, research & development, management and operations. The learning facilitators are academics and industry practitioners with a wealth of experience in the field. Emphasis is given to managing physical and virtual project teams with real-life case studies. The strong technical and practical courses will prepare graduates to lead successful projects in a VUCA world.

**Programme Modules**

**SEMESTER 1**
- Organisational Studies
- Principles of Project Management I
- Project Management Professional
- Development I

**SEMESTER 2**
- Research Methodology
- Principles of Project Management II
- Project Management Professional
- Development II

(*) indicate elective modules. Students need only select ONE (1) from the modules offered.

**SEMESTER 3**
- Research Project
- Project Financial Management
- Integrated Project

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**Programme Modules**

**SEMESTER 1**
- Organisational Studies
- Principles of Project Management I
- Project Management Professional
- Development I

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- Research Methodology
- Principles of Project Management II
- Project Management Professional
- Development II

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**SEMESTER 3**
- Research Project
- Project Financial Management
- Integrated Project

(**) indicate elective modules. Students need only select ONE (1) from the modules offered.
ENTRY REQUIREMENTS

Malaysian Students
Master's Degree accepted by the University Senate or other qualifications as approved by the University Senate
International Students
Master's Degree accepted by the University Senate and pass IELTS with minimum band 6 or better

RESEARCH PROPOSAL

Applicants for Doctor of Philosophy (Project Management) programme are required to submit a comprehensive statement of the research which they propose to carry out. The proposal should comprise the following elements:

• Field of research
• Topic of research proposal
• Background or a brief literature review on the research topic
• Objective of study - Explain the objectives that influence the research
• The Methodology of study - Explain the methods used in study
• Work schedule
• References

The research proposal should contain between 1,500 - 2,000 words or about four (4) pages

Programme Modules

PHASE 1
Coursework
Two core courses
• Research Process and Academic Writing
• Research Design and Methodology

PHASE 2
Proposal Defence
• Each student must present and defend his/her PhD research proposal.
  The student is only allowed to continue with his/her research to Phase III on passing of the defence of his/her proposal

PHASE 3
Data Collection and Thesis Preparation
• The student proceeds to his/her data collection, data analysis and thesis writing

PHASE 4
Viva Voice
• After submitting the thesis, the student is required to attend a Viva Voice to defend his/her thesis

DOCTOR OF PHILOSOPHY
(PROJECT MANAGEMENT)
(R/345/08/0485);(MQA/FA3765)

The PhD programme provides students with a globally versatile education consisting of advanced knowledge and skills in project management, conducted through research.

The programme is designed with industrial orientation and will benefit those in a range of sectors and industries. Students will demonstrate the body of knowledge in project management across various functional areas such as construction, engineering, aerospace, architecture, maintenance, facilities management, disaster management, biotechnology, oil & gas, logistics, factory automation, information systems, information & communication technology, digital technology, education, research & development, innovation, management and operations.

Students are taught advanced skills in research, and will develop project management expertise and a scholarly level of awareness, enabling them to expertly demonstrate the key principles of project management.

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DOCTOR OF PHILOSOPHY
(PROJECT MANAGEMENT)
(R/345/08/0485);(MQA/FA3765)

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Choose the programme you want to study

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Check if you meet the:
• Academic entry requirements
• English language entry requirements

Prepare supporting documentation

Prepare supporting documentation

• A copy of your identification card/passport
• A copy of your academic results (translated into English if applicable)
• A copy of your English test results (if available)

Sponsored students must also supply documents confirming the:
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• Programme(s) being supported
• Duration of support
• Inclusions such as tuition fees

How to Apply

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2. Prepare supporting documentation
3. Apply now!

Apply now!

Apply now!

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4. Accept your offer

Accept your offer

Once your application is approved, you will receive a conditional offer letter which includes step-by-step instructions on how to:
• Accept your offer
• Pay your fees
• Provide outstanding documents

5. Do you have any Questions?

Do you have any Questions?

Email marketing@iumw.edu.my or call at +603 26173131 and we will be happy to assist you with any application queries you have.

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Join our growing community, and give yourself the opportunity to thrive in a progressive learning environment. At IUMW you will experience both personal and academic growth, and graduate with the core values and qualities you need to get ahead in your career and in life.

1. Historic

Founded by the University of Wales and the University of Malaya, the oldest universities in their respective countries with over 200 years of academic excellence.

2. Modern

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Receive a degree certificate from IUMW and the University of Wales Trinity Saint David (UWTSD), UK, with our Dual Awards programmes.

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Students from over 48 countries come together to make a vibrant and colourful campus community.

6. Study in the 6th most visited city in the world

A campus based in the heart of Kuala Lumpur, Malaysia’s thriving capital city.

Our Partner University

University of Wales
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“A University born from a rich history, with an exciting future.”

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