

For **qualifications**  
that make a real difference  
to **your career choices**,  
look no farther than  
**Management and  
Science University  
(MSU)**



# FACULTY *of* INFORMATION SCIENCES *and* ENGINEERING (FISE)





**#beMSUrians**



# Mission

**TRANSFORMATIVE** - To provide compelling transformative learning experiences through educational opportunities and a collaborative learning environment centred on pioneering innovative delivery, ethical values, and economic as well as social transformation efforts.

**GLOBAL** - To be a leading globally connected university, diversely rich in culture and inclusiveness, and providing pathways for the exchange of knowledge and mobility programmes.

**ENTREPRENEURIAL** - To be the catalyst in a sustainable entrepreneurship ecosystem that promotes the development of an entrepreneurial culture as well as leaders with a global mindset.

**RESEARCH & INNOVATION DRIVEN** - To promote the culture of research and innovation in responding to national and global challenges; commercialising its interdisciplinary and translational research outcomes through entrepreneurship and incubators.

**INDUSTRY EMBEDDED** - To enhance a collaborative environment with industries, where applications of knowledge and research are incorporated into an industry-embedded curriculum that complements talent mobility activities, career pathways, and global community engagement efforts.

**CARING INSTITUTION** - To ensure the talented but disadvantaged are not impeded from achieving their dreams on account of unfavourable socio-economic station, and to accord appropriate opportunities for the gifted to actualise their true potential.

**HOLISTIC EDUCATION** - To mould holistic graduates through a balanced education that will enrich their personal, interpersonal and social skills through multi-disciplinary approaches, leadership, integrity, professionalism, and academic excellence, and nurture lifelong learning.

**BETTER FUTURE** - To generate excellent talents, lifelong learners, and responsible global citizens, and create diversified career pathways that help transform lives for a better future.

# *Vision*

MSU aspires to be a leading transformative global university, engaging the society through entrepreneurship, research, innovation, industry embedment, and holistic education for a better future.



# Why msu?

40

years in education  
embedded with  
21st-century  
technology

98.7%

graduate  
employability  
within 6 months of  
convocation

172+

accredited  
programmes

150+

leading international  
university  
collaborations

1700+

industrial partnerships  
supported by an  
entrepreneurship  
ecosystem

25

key research areas  
including local  
and cross-border  
initiatives  
benefiting multiple  
communities

40+

countries with  
international  
students enrolled in  
MSU via various  
mobility  
programmes

30%

of MSU's faculty  
comprises  
international lecturers,  
broadening  
MSU's global outlook

25,000

students

# Recognitions and Awards



Offshore Campuses:  
. Bangalore . Colombo . Jakarta . Almaty .

# Shah Alam

**'A vibrant and friendly city for all'**

Management and Science University is located right in the heart of Shah Alam, the capital city of the state of Selangor. It is a city tailored for all, with much to see and do; from shopping malls and cafes, cultural attractions to parks and recreational centres. This 'Orchid City' offers visitors a variety of dining options from popular coffee outlets, bistros to fine dining restaurants; perfect for all budgets.

With a comprehensive public transportation system, visitors are able to have a smooth

commute to Kuala Lumpur, Malaysia's capital city and reach the Kuala Lumpur International Airport via the Express Rail Link (ERL) in just thirty minutes. Further expansions set to be completed in 2020 will see the LRT3 (Light Rail Transit) system which runs through strategic locations in Shah Alam; bringing better mobility and connectivity to commuters. An added bonus will be the Malawati LRT3 station which will be right next to MSU; providing easy access to all.

Regardless of where you come from, whether halfway across the world or a few kilometres away, Shah Alam is an ideal destination to continue your studies.



## Hotels and Accommodations



## Sports and Recreational Facilities



## Local Street Foods







**Malaysia** is ranked  
as the **World's 9<sup>th</sup>**  
most preferred study destination.

\* International Students Mobility Survey by  
United Nations Educational, Science and  
Cultural Organisation (UNESCO)

**Kuala Lumpur**  
World's most affordable  
city for students

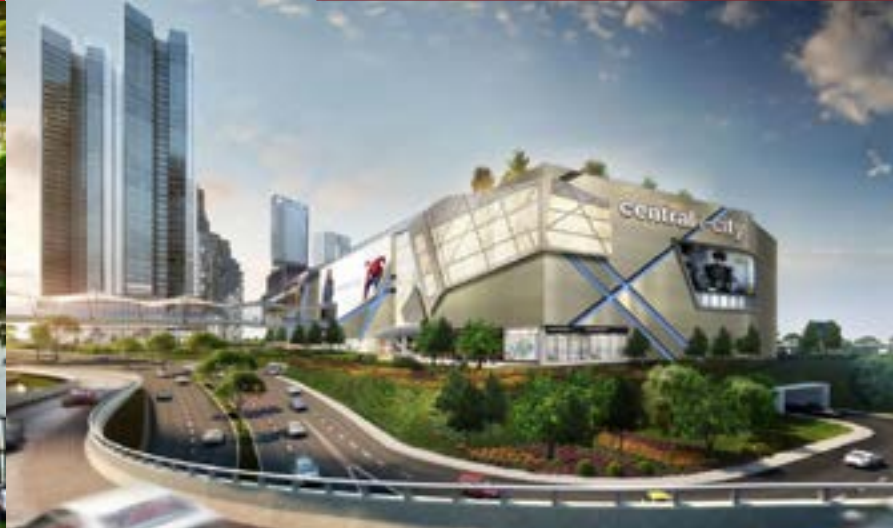
\* QS Best Student Cities 2017 survey



*Sultan Salahuddin  
Abdul Aziz Shah Mosque*



*Raja Tun Uda Library*



*Shopping*

# Campus *Life* @ management & science university









## *Beyond the* ***CLASSROOM***

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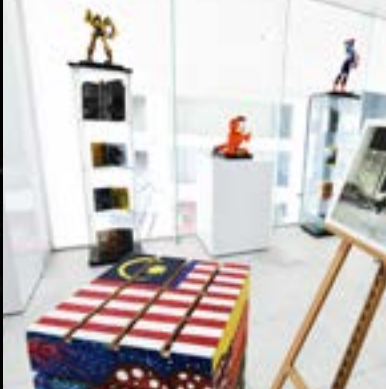
Learning in MSU is not limited within the four walls of the classroom. The experiential learning implemented provides our students with the necessary knowledge in their respective fields.



The Residence

# It's all on Campus

MSU continuously strives to provide the best services to the students and staff. From banking services, travel bookings to various food outlets, students can find almost everything they need on campus.



MSU Gallery



U-Fitness



Library



Books & Gifts



Performing Arts Theatre



Dining



Books & Gifts



Medical Centre



Classroom



Bank

Transforming LIVES,  
ENRICHING *Future*

# FISE

## FACULTY OF INFORMATION SCIENCES AND ENGINEERING

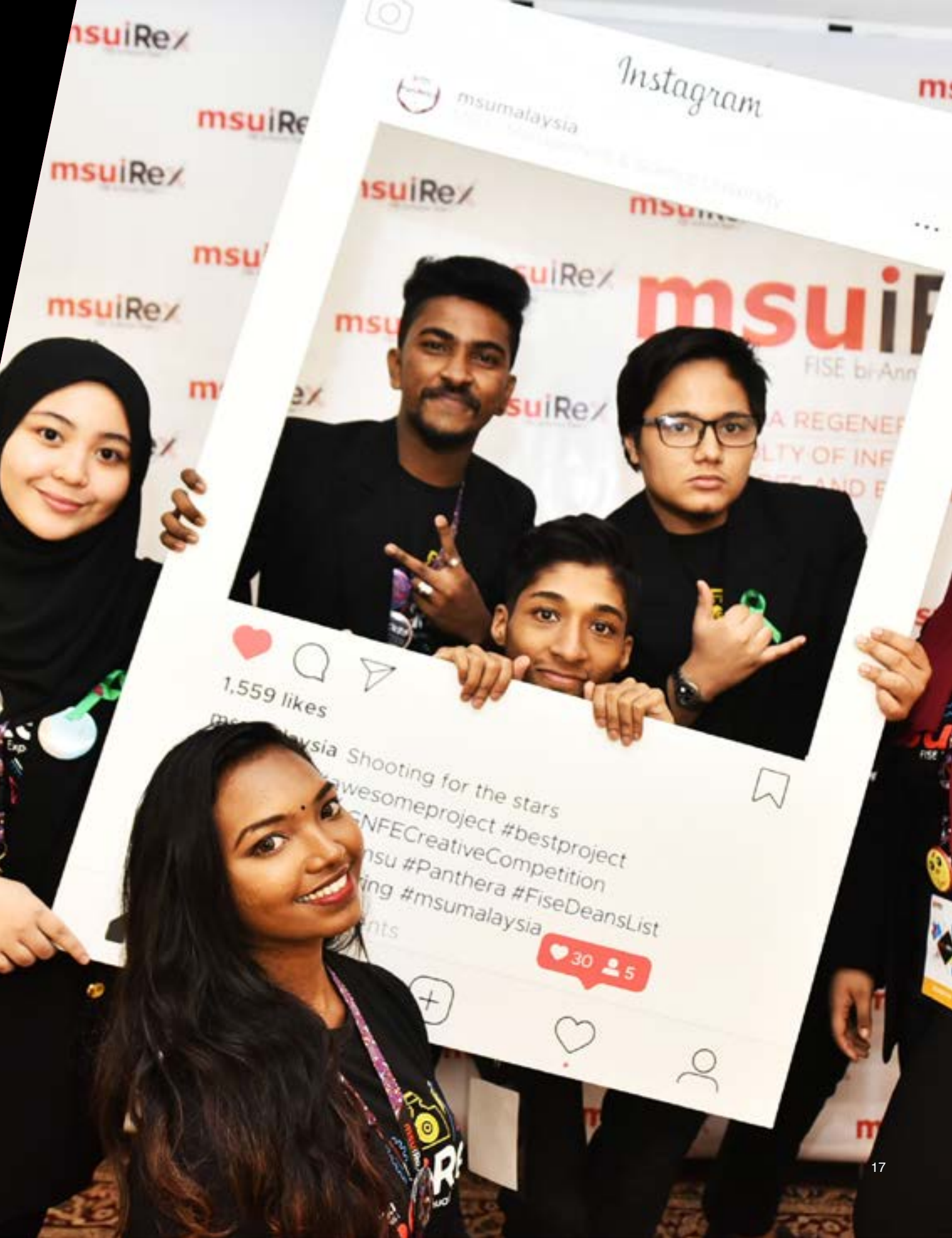


The Faculty of Information Sciences & Engineering (FISE) at Management & Science University (MSU) comprises the three departments of Media Science & Graphic, Engineering & Technology, and Information Sciences & Computing. Specialization is early and plenty, with close to 40 programmes offered. FISE aims to produce

technically competent and well-rounded professionals. Its curricula integrate knowledge of new technological marvels with diverse human values and global perspectives. Soft skills supplement core knowledge and technical skills, resulting in capable graduates enriched by their holistic learning experience.

Engineering and Technology  
Media Science and Graphic  
Information Sciences and Computing





Instagram

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FISE bi-Ann

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1,559 likes

Shooting for the stars  
awesomeproject #bestproject  
GNFECreativeCompetition  
msu #Panthera #FiseDeansList  
#msumalaysia

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FACULTY OF INFORMATION SCIENCES AND ENGINEERING

# ENGINEERING & TECHNOLOGY

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- |  |                                |
|--|--------------------------------|
| 1. Bachelor in Computer Engineering (Hons)                               | KPT/ JPS (R3/523/6/0004) 01/28 |
| 2. Bachelor of Engineering Technology (Electrical and Electronic) (Hons) | KPT/ JPS (R2/523/6/0024) 05/22 |
| 3. Bachelor of Science in Aviation Management & Piloting (Hons)          | KPT/ JPS (N/345/6/0933) 04/22  |
| 4. Bachelor of Science (Hons) in Mechanical Engineering                  | KPT/JPS (N/521/6/0137) 04/22   |
| 5. Diploma in Electrical and Electronic Engineering                      | KPT/ JPS (R2/522/4/0009) 07/22 |
| 6. Diploma in Computer Engineering                                       | KPT/ JPS (R2/523/4/0123) 04/24 |
| 7. Diploma in Aircraft Maintenance Technology                            | KPT/ JPS (R2/525/4/0008) 06/26 |
| 8. Diploma in Mechanical Engineering                                     | KPT/ JPS (R/521/4/0042) 03/23  |

**FOR MORE  
INFORMATION  
PLEASE VISIT**

[http://www.msu.edu.my/  
faculty-information-sciences-engineering/](http://www.msu.edu.my/faculty-information-sciences-engineering/)



# Bachelor in Computer Engineering (Hons)

KPT/ JPS (R3/523/6/0004) 01/28

## ABOUT THE PROGRAMME



The products of computer engineering are in every facet of our lives. They allow us to have web based chats, send e-mails from our smartphones and withdraw money from ATMs. Therefore, computer engineers must have detailed knowledge of both hardware and software to design, build and use complex information processing systems for a wide range of applications. Through computer engineering, engineers can initiate further developments in robotics, software applications for business and even medicine. That is the kind of innovation and entrepreneurial mind-set that we at MSU encourage in our students.

## AMONG THE COURSES OFFERED



### Year One

- Discrete Mathematics
- Problem Solving and Programming
- Data Communication and Network
- Circuit Theory

### Year Two

- Digital Logic Design
- Engineering Mathematics
- Statistics and Probabilities
- Object Oriented Programming

### Year Three

- Digital System Design
- Robotic Programming
- Industrial Training

**DURATION**  
4 YEARS

## FURTHER STUDY OPTIONS

Bachelor of Computer Engineering (Hons) provides a pathway to postgraduate programmes including the Master of Science in Engineering, the Master in Computer Science, and the Master in Information Technology offered by MSU's School of Graduate Studies.

## CAREER PROSPECTS

- Network & System Support Engineer
- Automation Engineer
- Equipment Engineer
- Analyst Programmer

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# Bachelor of Engineering Technology (Electrical & Electronic) (Hons)

KPT/ JPS (R2/523/6/0024) 05/22

## ABOUT THE PROGRAMME

Our Bachelor programme will aid you in developing a sound foundation in all aspects of Electrical and Electronic Engineering that are important in the medical, communications, environmental and energy areas. You will gain guidance from our lecturers who are industry professionals in the electronics field. The supportive and integrated learning environment at Management and Science University will enhance your theoretical and practical knowledge whilst giving you the opportunity to develop your management, entrepreneurial and leadership potential.

## AMONG THE COURSES OFFERED

### Year One

- Linear Algebra and Calculus
- Material Science
- Problem Solving and Programming
- Basic Circuit Theory

### Year Two

- Electronic Circuit Analysis
- Numerical Method
- Electromagnetic Field
- Solid State

### Year Three

- Power Electronics
- Electrical Machinery
- Industrial Training

DURATION  
4 YEARS

## FURTHER STUDY OPTIONS

Bachelor of Engineering Technology (Electrical and Electronic) (Hons) provides a pathway to postgraduate programmes including the Master of Science in Engineering.

## CAREER PROSPECTS

- Product Engineering Technologist
- Maintenance Engineer
- Software Engineering Technologist

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# Bachelor of Science in Aviation Management and Piloting (Hons)

KPT/ JPS (N/345/6/0933) 04/22

## ABOUT THE PROGRAMME



Aviation Management and Piloting at Management & Science University (MSU) will prepare you well for your future career in the world of aviation, equipping you with a solid foundation in the business management principles of the aviation industry. In your first year, you will be taught engineering physics, information technology, aircraft, aerodynamics, flight rules and air law, radio telephony, instrument and flight navigation, and aviation English, also receive your first flight training. You will be introduced to aircraft design, control systems, and Matlab programming in your second year, before taking on the PPL modules and continuing with your flight training. You will do two research projects in your third year and learn the management and business sides of aviation while continuing with technical and pilot trainings, and intern with industry at the end of the programme.

## AMONG THE COURSES OFFERED



### Year One

- Engineering Physics
- Instrument and Flight Navigation
- Radio Telephony
- Flight Training I

### Year Two

- Air Navigation
- Airport Management
- Aircraft System
- Flight Training II

### Year Three

- Aviation Business Strategies and Management
- Airport Passenger and Cargo Operations
- Multi-crew Coordination

### Year Four

- Aviation Management Training

**DURATION**  
3½ YEARS

## FURTHER STUDY OPTIONS

Bachelor of Science in Aviation Management and Piloting (Hons) provides a pathway to postgraduate programmes offered by MSU's School of Graduate Studies.

## CAREER PROSPECTS

- Airport Management
- Aviation Charter Firms
- Airport Operations
- Airline Management

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# Bachelor of Science in Mechanical Engineering (Hons)

KPT/JPS (N/521/6/0137) 04/22

## ABOUT THE PROGRAMME

Mechanical engineering is a discipline which employs the principles of engineering, physics, and materials science for the design, analysis, manufacturing and maintenance of mechanical systems. It is the branch of engineering that involves the design, operation and production of machinery. The Bachelor of Science in Mechanical Engineering programme at MSU provides you with the skills necessary for the field, with an applied focus on mechanical systems design.

Our lecturers and modern facilities will enhance your learning experiences at Management and Science University. Discussions and project-based assignments will help develop your teamwork skills and at the same time assist you in gaining solid engineering experience.

## AMONG THE COURSES OFFERED

### Year One

- Engineering Drawing and CAD
- Engineering Physics
- Instrumentation and Measurement

### Year Two

- Fluid Mechanic
- Introduction to Thermodynamics
- Industrial Safety and Organization
- Mechanics of Machine

### Year Three

- Mechatronics
- Process and Manufacturing Technology
- Industrial Training

**DURATION**  
3½ YEARS

## FURTHER STUDY OPTIONS

Bachelor of Science in Mechanical Engineering (Hons) is a pathway to a number of postgraduate study options including the Master of Science in Engineering offered by MSU's School of Graduate Studies.

## CAREER PROSPECTS

- Design Engineer
- Project Engineer

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# Diploma in Electrical and Electronic Engineering

KPT/ JPS (R2/522/4/0009) 07/22

## ABOUT THE PROGRAMME

Electrical and electronic principles are at the core concept of some of the world's largest industries. This programme will equip you with the knowledge and skills to work in a wide range of careers in the electrical and electronics, through a highly targeted curriculum that focuses on courses across the electronic engineering field. Your knowledge of mathematical and scientific principles will serve as the foundation for higher studies in electronic and electronic engineering, and your career competency enhanced through the innovative teaching and learning the ecosystem at Management and Science University.

## AMONG THE COURSES OFFERED

### Year One

- Circuit Theory
- Instrumentation and Measurement
- Material Science
- C Programming

### Year Two

- Digital Electronic
- Power System
- Analogue Electronic
- Industrial Training

### Year Three

- Introduction to Electromagnetic
- Industrial Control
- Engineering Tools and Simulation

**DURATION**  
2½ YEARS

## FURTHER STUDY OPTIONS

Diploma in Electrical and Electronic Engineering will assist you in your transition to university or employment and may give you guaranteed entry into MSU's Bachelor in Engineering Technology (Electrical and Electronic) programme.

## CAREER PROSPECTS

- Technical Assistant
- Plant Management Assistant
- Assistant Maintenance Engineer
- Technician

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# Diploma in Computer Engineering

KPT/ JPS (R2/523/4/0123) 04/24

## ABOUT THE PROGRAMME

If you have an interest in finding out how computer works, exploring the hardware and software, being a computer engineering technologist has extensive possibilities. The curriculum of the MSU Diploma in Computer Engineering will give you a firm foundation in computer engineering, computer communications, and computer architecture. Through the innovative teaching and learning delivery techniques employed at MSU, you will gain highly developed transferable skills such as the analytical skills to solve complex problems and the communication skills to present your results effectively. At the end of your programme, you will graduate with the adaptability needed to meet the challenges of the 21st century.

## AMONG THE COURSES OFFERED

### Year One

- Instrumentation and Measurement
- Computer Organisation and Architecture
- C Programming
- Circuit Theory

### Year Two

- Basic Discrete Mathematics
- Digital Electronic
- System Analysis and Design
- Industrial Training

### Year Three

- Microcontroller
- Analogue Electronic
- Engineering Tools and Simulation

**DURATION**  
2½ YEARS

## FURTHER STUDY OPTIONS

Diploma in Computer Engineering will assist you in your transition to university or employment and may give you guaranteed entry into MSU's Bachelor in Computer Engineering programme.

## CAREER PROSPECTS

- System Administrator
- Network Administrator
- IT Supervisor

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# Diploma in Aircraft Maintenance Technology

KPT/ JPS (R2/525/4/0008) 06/26

## ABOUT THE PROGRAMME

The growing aircraft industry requires professionally trained maintenance personnel. The Aircraft Maintenance Technology diploma programme at Management & Science University prepares you primarily for a career in aviation industry and also tertiary education. This programme is delivered using innovative and hands-on learning techniques and you will spend a large part of your programme engaged in collaborative group based learning.

You must also obtain an Aircraft Maintenance Licence (AML) from either Malaysia Airlines Engineering and Maintenance or Dilog Training and Services, the only two approved by the Department of Civil Aviation Malaysia (DCAM) to conduct AML training, examination, and assessment.

## AMONG THE COURSES OFFERED

### Year One

- Basic Aerodynamics
- Theory of Flight and Flight Control
- Aviation Legislation
- Materials and Hardware

### Year Two

- Air Conditioning, Cabin Pressurization and Oxygen Systems
- Airframe Structure
- Aircraft Landing Gear and Brakes
- Electronics Instrument and Avionics System

### Year Three

- Industrial Training

**DURATION**  
2½ YEARS

## FURTHER STUDY OPTIONS

Diploma in Aircraft Maintenance Technology will assist you in your transition to university or employment and may give you guaranteed entry into MSU's Bachelor in Aviation Management and Piloting programme.

## CAREER PROSPECTS

- Aircraft Maintenance technician
- Sheet Metal Repair Technician
- Overhaul Technician

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# Diploma in Mechanical Engineering

KPT/ JPS (R/521/4/0042) 03/23

## ABOUT THE PROGRAMME

Mechanical Engineering covers extensive fields which include manufacturing, mechanisms and design. The curriculum of the diploma programme in mechanical engineering at Management and Science University will give you a solid foundation in core engineering principles and practices of mechanical engineering.

Our lecturers are experienced practitioners and we collaborate closely with industry to ensure our mechanical engineering diploma programme meets the needs of the workplace.

## AMONG THE COURSES OFFERED

### Year One

- Technical Drawing
- Mechanic of Materials
- Engineering Mathematics
- Metrology and Instrumentation

### Year Two

- Thermodynamics
- Fluid Mechanics
- Workshop Technology and Practice
- Industrial Training

### Year Three

- Hydraulic and Pneumatics
- Mechanics of Machines
- Electronics and Digital Engineering

**DURATION**  
2½ YEARS

## FURTHER STUDY OPTIONS

Diploma in Mechanical Engineering will assist you in your transition to university or employment and may give you guaranteed entry into MSU's Bachelor in Mechanical Engineering programme.

## CAREER PROSPECTS

- Assistant Mechanical Engineer
- Mould Design Assistant
- Process Technician
- Maintenance Technician

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**BELANG**  
MALAYAN TIGER

hes

PIRIT  
ANIMAL

Button

SAVE OUR SPIRIT ANIMAL

**BELANG**  
MALAYAN TIGER

**BECAUSE  
THEY CAN'T  
SPEAK FOR  
THEMSELVES**

QR CODE

FACULTY OF INFORMATION SCIENCES AND ENGINEERING

# MEDIA SCIENCE AND GRAPHIC

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- |  |                                |
|--|--------------------------------|
| 1. Bachelor in Information and Communication Technology (Hons) | KPT/ JPS (R2/481/6/0092) 05/22 |
| 2. Bachelor in Graphic Design (Hons)                           | KPT/ JPS (R2/213/6/0261) 05/26 |
| 3. Bachelor in Games Design and Animation (Hons)               | KPT/ JPS (R3/213/6/0043) 07/26 |
| 4. Bachelor in Instructional Multimedia (Hons)                 | KPT/ JPS (R2/213/6/0082) 07/22 |
| 5. Bachelor in Visual Communication and Marketing (Hons)       | KPT/JPS (R2/342/6/0177) 05/23  |
| 6. Bachelor in Creative Multimedia (Hons)                      | KPT/ JPS (2/213/6/0085) 09/23  |
| 7. Bachelor of New Media (Hons)                                | KPT/JPS (R2/213/6/0293) 06/24  |
| 8. Bachelor in Creative Video and Photography (Hons)           | KPT/ JPS (R/213/6/0128) 05/23  |
| 9. Bachelor in Product Design (Hons)                           | KPT/ JPS (N/214/6/0180) 04/22  |
| 10. Diploma in Multimedia                                      | KPT/ JPS (R3/213/4/0013) 06/25 |
| 11. Diploma in Graphic Design                                  | KPT/ JPS (R2/214/4/0189) 07/22 |
| 12. Diploma in Games Design and Animation                      | KPT/ JPS (R2/213/4/0168) 01/23 |
| 13. Diploma in Creative Visual                                 | KPT/JPS (N/213/4/0282) 04/21   |
| 14. Diploma in Interior Design                                 | KPT/JPS (N/214/4/0192) 07/22   |

**FOR MORE  
INFORMATION  
PLEASE VISIT**

[http://www.msu.edu.my/  
faculty-information-sciences-engineering/](http://www.msu.edu.my/faculty-information-sciences-engineering/)



# Bachelor in Information and Communication Technology (Hons)

KPT/ JPS (R2/481/6/0092) 05/22

## ABOUT THE PROGRAMME

Bachelor in Information and Communication Technology programme will provide you with the theoretical knowledge and practical experience across a wide spectrum of disciplines and enhance your analytical skills. In the Management Information System major, you will learn web programming, information system auditing, network and data security, also information protection, while in the Multimedia major you will learn digital video technology, user interface design, multimedia application development, interactive media and mobile learning.

Expand your learning experiences by undergoing the MSU Global Mobility Programme where you spend a semester or more abroad at one of MSU's international partner universities. You may also have the option of completing your internship overseas through MSU Global Internship Programme. Both these mobility programmes will further enhance your future employability.

## AMONG THE COURSES OFFERED

### Year One

- System Analysis and Design
- Statistics and Probabilities
- Data Communication and Network
- Database System

### Year Two

- Object Oriented Programming
- User Interface Design
- Web Programming

### Year Three

- Operating System
- Interactive Media
- Industrial Training

**DURATION**  
3 YEARS

## FURTHER STUDY OPTIONS

Bachelor in Information and Communication Technology (Hons) provides a pathway into IT-related postgraduate programmes including Master in Computer Science and Master in Information Technology offered by MSU's School of Graduate Studies.

## CAREER PROSPECTS

- Systems Administrator
- Systems Analyst
- Commercial Web Designer
- Information Systems Manager

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# Bachelor in Graphic Design (Hons)

KPT/ JPS (R2/213/6/0261) 05/26

## ABOUT THE PROGRAMME

Bachelor of Graphic Design programme at Management and Science University educates, cultivates and motivates future creative designers. This programme is designed with the creative industry's latest technological advancements in mind. You will be intellectually stimulated with numerous challenging projects and assessments focused on comprehensive outcomes. Your creative voice will be enhanced by the support of our experienced academics, who will expose you to the latest industry trends and developments.

Broaden your learning experience by participating in the MSU Global Mobility Programme, through which you will have the chance of spending a semester abroad undertaking in similar course at one of MSU's international partner universities in Europe or Australia. You can also opt to undergo your industrial placement abroad through the MSU Global Internship Programme, which gives you the opportunity to work alongside like-minded individuals in a global setting.

## AMONG THE COURSES OFFERED

### Year One

- Creative Photography
- Colour Theory and Application
- Digital Imaging
- Typography

### Year Two

- Brand Identity Design
- Packaging Design
- Interactive Media
- Design Research

### Year Three

- Digital 3D Design
- Professional Practice
- Industrial Training

**DURATION**  
3 YEARS

## FURTHER STUDY OPTIONS

Bachelor of Graphic Design (Hons) is a foundation for entry to an extensive range of postgraduate programmes including Master of Design offered at MSU's School of Graduate Studies.

## CAREER PROSPECTS

- Technical Illustrator
- Advertising Designer
- Web Designer
- Packaging Designer

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# Bachelor in Games Design and Animation (Hons)

KPT/ JPS (R3/213/6/0043) 07/26

## ABOUT THE PROGRAMME

Games design development is innovative and exciting from technological and creative standpoints, with excellent career opportunities for creative and analytical individuals. Through this programme, you will learn the art and science of games design and animation, and receive training in the development of computer games and computer-graphic-related systems.

Our curriculum is devised with vital transferable management skills in mind. Be assured that you will gain the knowledge needed for you to hold managerial positions. The practical experience towards the end of your studies will ensure you are ready for a career in this field and this placement can also be carried out abroad through our Global Internship Programme, ideal for those contemplating working overseas upon completion of their degree.

## AMONG THE COURSES OFFERED

### Year One

- Fundamentals of Game Art and Animation
- System Analysis and Design
- Digital Imaging
- Illustration for Game Art

### Year Two

- Conceptual Storytelling
- Game Design and Game Play
- Human Computer Interaction
- Game Level Design

### Year Three

- Game Prototyping
- Digital Game Management
- Industrial Training

**DURATION**  
3 YEARS

## FURTHER STUDY OPTIONS

Bachelor in Games Design and Animation (Hons) is a foundation for entry to an extensive range of postgraduate IT programmes at MSU's School of Graduate Studies.

## CAREER PROSPECTS

- Games Designer
- Graphics Programmer
- Researcher in media and entertainment related technologies
- Systems Analyst and Design

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# Bachelor in Instructional Multimedia (Hons)

KPT/ JPS (R2/213/6/0082) 07/22

## ABOUT THE PROGRAMME

Instructional multimedia contents have become the latest needed addition to education. MSU's Bachelor in Instructional Multimedia will instruct you on the ways to utilise multimedia to aid learning. You will learn to translate content from curriculum into creative, contemporary tools of learning.

Your learning at Management and Science University will be guided and supported by lecturers who are experts in their fields, and incorporates the latest trends and innovations into teaching. The assessments given are always focused on the application of theories learnt. You will be involved in group projects ranging from entrepreneurial to public presentations. This will strengthen your transferable skills such as communication, leadership and teamwork-vital skills in the 21<sup>st</sup> century. Internship at the end of your studies amalgamates theory and practice.

## AMONG THE COURSES OFFERED

### Year One

- Curriculum and Instruction
- Basic Drawing
- System Analysis and Design
- Psychology in Education

### Year Two

- Instructional System Design
- Designing Computer-Based Instruction
- Digital Audio and Video
- Multimedia-Based Instructional Design

### Year Three

- Cognitive Science
- Digital Media Content Development
- Industrial Training

**DURATION**  
3 YEARS

## FURTHER STUDY OPTIONS

Bachelor in Instructional Multimedia (Hons) is an ideal pathway to an extensive range of postgraduate IT programmes at MSU's School of Graduate Studies.

## CAREER PROSPECTS

- Instructional Designer
- Application Developer
- Learning and Development Manager
- Digital Learning Manager

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# Bachelor in Visual Communication and Marketing (Hons)

KPT/JPS (R2/342/6/0177) 05/23

## ABOUT THE PROGRAMME

From eye catching websites or iconic logos to smart packaging design and ground breaking ad campaigns, we are constantly surrounded by graphics designed to transcend cultural and language barriers. MSU's Bachelor in Visual Communication and Marketing is a combination of multimedia knowledge, graphic design and business skills. You will learn how to manage the marketing side of business besides producing marketing communication, and be sufficiently equipped to venture into your own business.

Practical projects and real-world case studies will allow you to apply critical and creative thinking in responding to tangible issues, fostering your abilities in problem solving and decision making. Your lecturers are industry professionals, and the learning opportunities and experiences we provide you will add depth and breadth to your understanding and develop both your vocational and life skills.

You will also spend your final year on placement, to gain skills and experience that are distinct but complementary to the theory and academic skills obtained.

## AMONG THE COURSES OFFERED

### Year One

- Graphic Visualisation
- Design Research
- Integrated Marketing Communication
- Publication Design

### Year Two

- Advertising and Promotion
- Intellectual Property and Commercial
- E-Commerce for Global Market
- Contemporary Issues in Communication and Marketing

### Year Three

- Internet Marketing and Social Media
- Design Management
- Industrial Training

**DURATION**  
3 YEARS

## FURTHER STUDY OPTIONS

Bachelor in Visual Communication and Marketing (Hons) provides the ideal pathway to an extensive range of postgraduate IT programmes at MSU's School of Graduate Studies and also business-related programmes at MSU's Graduate School of Management.

## CAREER PROSPECTS

- Marketing Executive
- Marketing Research Specialist
- Visual Marketing Designer

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# Bachelor in Creative Multimedia (Hons)

KPT/ JPS (2/213/6/0085) 09/23

## ABOUT THE PROGRAMME

The curriculum of the MSU honours degree programme in creative multimedia combines content development with multimedia programming, with focuses on multimedia computing and interactive multimedia, and emphasis on practical problem-solving through current and emerging technologies. You will train to produce creative media including text, graphics, sound, animation, photo images, and video.

Broaden your learning experience by participating in the MSU Global Mobility Programme for a chance to spend a semester abroad undertaking a similar course at one of MSU's international partner universities in Europe or Australia. You can also opt to undergo your industrial placement abroad through the MSU Global Internship Programme for an opportunity to work alongside like-minded individuals in a global setting.

## AMONG THE COURSES OFFERED

### Year One

- Creative Photography
- Digital Audio and Video
- Database System
- Basic Drawing

### Year Two

- Visual Research
- Multimedia Authoring System
- Human Computer Interface
- Design Research

### Year Three

- Advertising Design
- Writing for Multimedia
- Industrial Training

**DURATION**  
3 YEARS

## FURTHER STUDY OPTIONS

Bachelor in Creative Multimedia (Hons) is a foundation for entry to an extensive range of postgraduate IT programmes at MSU's School of Graduate Studies.

## CAREER PROSPECTS

- Interface Designer
- Multimedia Designer
- Web Designer

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# Bachelor of New Media (Hons)

KPT/JPS (R2/213/6/0293) 06/24

## ABOUT THE PROGRAMME

New media such as online news outlets, social media and blogs are abundant in our increasingly visual and media-oriented society, and digital technologies and the Internet have led to exponential growth in products and services for information and entertainment. MSU's Bachelor of New Media programme will equip you with the knowledge and skills to design information presentation and create media content for systematic communication. You will be trained in an array of courses such as interactive media journalism, digital video production, and integrated advertising among others.

The innovative and constructive learning environment at Management and Science University will assist you to graduate with a host of skills that includes transferable communication, analytical and interpersonal skills. The industrial component of the programme may be conducted locally or abroad through the MSU Global Internship programme, which will further amplify your future employability.

## AMONG THE COURSES OFFERED

### Year One

- Information Design
- Digital Design Basic
- Media Culture
- Creative Photography

### Year Two

- Media Law
- Integrated Advertising and Marketing Communication
- Media Analysis
- Sound Design

### Year Three

- Digital Video Production
- Digital 3D Design
- Industrial Training

**DURATION**  
3 YEARS

## FURTHER STUDY OPTIONS

Bachelor of New Media (Hons) is a foundation for entry to an extensive range of postgraduate IT programmes at MSU's School of Graduate Studies.

## CAREER PROSPECTS

- Applications Designer
- Multimedia Specialist
- New Media Developer
- Web Content Designer

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# Bachelor in Creative Video and Photography (Hons)

KPT/ JPS (R/213/6/0128) 05/23

## ABOUT THE PROGRAMME

With the emergence of social networks, our lives have become so interconnected through photography, that a world without it is difficult to visualise. We utilise videos and photography as a means to capture and share the moments in our lives, advocating and expressing our ideas and views through images. The Bachelor in Creative Video and Photography programme, will let you gain hands-on skills in editing and post-production through production of short films, videos and commercials.

Experienced academics will guide and encourage you through a combination of lectures, practical workshops and demonstrations, gallery visits, and solo as well as collaborative projects. Professional practitioners and guest speakers providing industrial input and fieldwork with industry visits will enhance your skills and knowledge. Enrich your learning experience through the MSU Global Mobility Programme whereby you will spend a semester or more at MSU's international partner universities. Practical experience towards the end of your studies will ensure you are ready for a career in this field, and the placement can also be carried out abroad through our Global Internship Programme, ideal for those contemplating working overseas upon completion of their degree.

## AMONG THE COURSES OFFERED

### Year One

- Visual Research
- Fundamental to Television Studies
- Videography I: Pre-Production
- Principles of Lighting

### Year Two

- Photography Critique
- Motion Graphic
- Editorial Photography
- Genre Studies

### Year Three

- Contemporary Issues in Videography Photography
- Video and Photography Project
- Industrial Training

DURATION  
3 YEARS

## FURTHER STUDY OPTIONS

Bachelor in Creative Video and Photography (Hons) is an ideal pathway to an extensive range of postgraduate IT programmes at MSU's School of Graduate Studies.

## CAREER PROSPECTS

- Video Editor
- Motion Graphic Artist
- Videographer

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# Bachelor in Product Design (Hons)

KPT/ JPS (N/214/6/0180) 04/22

## ABOUT THE PROGRAMME

Product design is a combination of various of fields; from science and engineering to creative design and business studies. Through the Bachelor in Product Design at Management and Science University (MSU), you will explore crafting and developing products using a variety of materials and technologies for residential, business and industrial usage.

Lecturers who have extensive training in this area will guide you throughout the programme, sharing their expertise and introducing you to the latest developments in product design. You can further enhance your learning experiences by opting to study abroad for a semester or more through the MSU Global Mobility Programme (GMP) whereby you can experience different learning environments at one of MSU's international partner universities. Industrial placement at the end of the programme will ensure you receive the working exposure you need to excel in your future career.

## AMONG THE COURSES OFFERED

### Year One

- Principles of Form and Three-Dimensional Design
- Ergonomics and Anthropometrics
- Computerised Graphics
- Graphic Communication

### Year Two

- Model Making and Prototyping
- Design Studio I and II
- Product Aesthetics and Design Awareness
- Design Creativity

### Year Three

- Product Design Project I and II
- Design Experimentation
- Industrial Training

**DURATION**  
3 YEARS

## FURTHER STUDY OPTIONS

Bachelor in Product Design provides the pathway into design-related postgraduate programmes including the Master of Design offered by MSU's School of Graduate Studies.

## CAREER PROSPECTS

- Design Consultant
- Technical Illustrator
- Product Development Coordinator

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# Diploma in Multimedia

KPT/ JPS (R3/213/4/0013) 06/25

## ABOUT THE PROGRAMME

Technological advances have created a convergence of communications, computing and entertainment leading to completely new media possibilities and experiences. MSU's Diploma in Multimedia programme offers you the opportunity to develop in-depth knowledge in areas such as web development and interactive applications as well as a firm grounding in digital imaging, 3D modelling, cartooning and comic design.

Practical projects and real world case studies will allow you to apply critical and creative thinking in responding to tangible issues, fostering your abilities in problem solving and decision making. Your lecturers are industry professionals and the learning experiences we provide will add depth and breadth to your understanding and develop both your vocational and life skills. Industrial training at the end of your studies will equip you with the necessary experience for you to excel in the industry.

## AMONG THE COURSES OFFERED

### Year One

- Basic Graphic Design
- Fundamentals to Database
- Digital Illustration
- Photography

### Year Two

- 3D Modelling
- Multimedia Authoring in Web
- Digital Imaging
- Industrial Training

### Year Three

- Digital Video
- 3D Animation
- Cartooning and Comic Design

**DURATION**  
2½ YEARS

## FURTHER STUDY OPTIONS

Diploma in Multimedia will ease your transition to university or employment and may give you guaranteed entry into a broad range of multimedia and graphic related bachelor programmes at Faculty of Information Sciences and Engineering.

## CAREER PROSPECTS

- Props Designer & Animator
- Interface Designer
- Post Production Artist / Designer
- Digital Illustrator

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# Diploma in Graphic Design

KPT/ JPS (R2/214/4/0189) 07/22

## ABOUT THE PROGRAMME

The curriculum of the MSU diploma programme in graphic design teaches you how to attract audience perception and views. You will design text by digital technology, work with illustration software, also learn drawing techniques, image manipulation, interactive multimedia, and desktop publishing. Your learning experience at Management and Science University will be guided by our academics who are all experienced practitioners and educators in graphic design.

You will be involved in group projects ranging from entrepreneurial projects to public presentations. This will in turn strengthen your transferable skills such as communication, leadership and teamwork skills; vital skills in the 21st century. An industrial placement in the second year will give you the knowledge and skills to launch a career in this competitive and dynamic industry.

## AMONG THE COURSES OFFERED

### Year One

- Digital Illustration
- Introduction to Advertising
- Publication Design
- Typography

### Year Two

- Corporate Identity
- Packaging Design
- Illustration
- Industrial Training

### Year Three

- Advertising Design
- 3D Animation
- Cartooning and Comic Design

**DURATION**  
2½ YEARS

## FURTHER STUDY OPTIONS

Diploma in Graphic Design will assist you in your transition to university or employment and may give you guaranteed entry into the MSU bachelor programme in graphic design or other media graphic related programmes.

## CAREER PROSPECTS

- Technical Illustrator
- Layout Artist
- Graphic Designer

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# Diploma in Games Design and Animation

KPT/ JPS (R2/213/4/0168) 01/23

## ABOUT THE PROGRAMME

The curriculum of the MSU diploma programme in games design and animation has the specific needs of a professional game designer/developer in mind. You will learn in depth about the game development cycle; from pitching game ideas, creating concept art, coding, and animating, to testing and marketing your game. Your studies will expose you to current technologies utilised in digital media, complemented by 21st-century cultural influence.

The programme is delivered by experienced academics with wide experience in animation, as well as guest speakers from some of Malaysia's top design and animation companies. From the start of the programme, you will be engaged in academic activities to develop problem solving, teamwork and communication skills, establishing you as a highly competent graduate valued by employers.

## AMONG THE COURSES OFFERED

### Year One

- Fundamentals of Game Art and Animation
- Figure Drawing
- Introduction to Game Development I
- Visual Research

### Year Two

- Storyboarding
- Cartooning and Comic Design
- 3D Modelling
- Industrial Training

### Year Three

- Digital Video
- 3D Animation
- Project

**DURATION**  
2½ YEARS

## FURTHER STUDY OPTIONS

This programme will assist you in your transition to university or employment and may give you guaranteed entry into the Bachelor in Games Design and Animation or other graphic related programmes at Management and Science University.

## CAREER PROSPECTS

- Animator
- Junior Game Designer
- Graphic Designer

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# Diploma in Creative Visual

KPT/JPS (N/213/4/0282) 04/21

## ABOUT THE PROGRAMME

With its focus on experiential learning, MSU's Diploma in Creative Visual programme offers you an exciting and challenging opportunity to develop an enhanced skill set applicable to the video production industry. Through your time here at Management and Science University, you will experience hands-on skills in editing and post-production activities in producing short films, videos and commercials.

Learn from our lecturers, industry professionals who will share their expertise and ensure that you are in the know of the latest industry developments. Industrial training at the end of your studies will equip you with the necessary experience for you to excel in the industry.

## AMONG THE COURSES OFFERED

### Year One

- Visual Studies
- Scriptwriting
- Basic Lighting
- Television Studies

### Year Two

- Commercial Photography
- Sound Design
- Video Production
- Industrial Training

### Year Three

- Photojournalism
- Film Appreciation
- Digital Portfolio

**DURATION**  
2½ YEARS

## FURTHER STUDY OPTIONS

Diploma in Creative Visual will assist you in your transition to university or employment and may give you guaranteed entry into the Bachelor in Creative Visual and Photography or the Bachelor in Graphic Design offered by the Faculty of Information Sciences and Engineering.

## CAREER PROSPECTS

- Photographer
- Videographer
- Video Editor

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# Diploma in Interior Design

KPT/JPS (N/214/4/0192) 07/22

## ABOUT THE PROGRAMME

Interior design is all about creating functional spaces in residential and commercial buildings, and the interior design diploma programme at Management and Science University (MSU) will prepare you to be a designer's assistant. For those who have an eye for colour and a feel for space organisation and design, this programme will further enhance your natural abilities.

Our specially designed and innovative learning experiences will steer you to a successful career in interior design. An industrial stint at the end of your studies will provide you with a deep understanding of the design industry whilst cultivating your communicative and entrepreneurial skills.

## AMONG THE COURSES OFFERED

### Year One

- Furniture Design
- Design Studio 1: Interior Design Residential
- Presentation and Architectural Drawing
- 2D Computer Aided Design

### Year Two

- Design Studio 3: Gallery / Transportation Exhibition Gallery
- Drawing 3: Drawing and Measurement
- Industrial Training

### Year Three

- Professional Practice
- Final Design Project

**DURATION**  
2½ YEARS

## FURTHER STUDY OPTIONS

Diploma in Interior Design will assist you in your transition to university or employment and may give you guaranteed entry into the design-related bachelor programmes offered by the Faculty of Information Sciences and Engineering.

## CAREER PROSPECTS

- Design Assistant
- Draughts Person
- 3D Visualiser
- Set Designer

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FACULTY OF INFORMATION SCIENCES AND ENGINEERING

# INFORMATION SCIENCES AND COMPUTING

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- |  |                                |
|--|--------------------------------|
| 1. Bachelor in Computer Science (Hons)   | KPT/ JPS (R2/481/6/0091) 05/22 |
| 2. Bachelor in Business Computing (Hons)                                       | KPT/ JPS (R3/482/6/0041) 01/25 |
| 3. Bachelor in Information Systems Auditing (Hons)                             | KPT/ JPS (R4/481/6/0649) 07/26 |
| 4. Bachelor in Computer Forensic (Hons)  | KPT/ JPS (R2/481/6/0184) 09/22 |
| 5. Bachelor in Information Technology (Hons)<br>Mobile Wireless and Technology | KPT/ JPS (R2/481/6/0335) 01/23 |
| 6. Bachelor in Information Management (Honours)                                | KPT/ JPS (N/322/6/0025) 02/26  |
| 7. Diploma in Information Technology   | KPT/ JPS (R2/481/4/0090) 06/22 |
| 8. Diploma in Business Computing   | KPT/ JPS (R2/482/4/0061) 11/24 |
| 9. Diploma in Computer Forensic  | KPT/ JPS (R/2481/4/0116) 07/22 |
| 10. Diploma in Information Technology<br>(Mobile and Wireless Technology)      | KPT/ JPS (R2/481/4/0518) 06/24 |
| 11. Diploma in Information Management  | KPT/ JPS (R/322/4/0003) 06/22  |

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faculty-information-sciences-engineering/](http://www.msu.edu.my/faculty-information-sciences-engineering/)



# Bachelor in Computer Science (Hons)

KPT/ JPS (R2/481/6/0091) 05/22

## ABOUT THE PROGRAMME

Students of Bachelor in Computer Science at MSU will receive a detailed and rigorous treatment of the fundamental principles of the discipline. The theories learnt in the classroom are further strengthened by intensive practical sessions in MSU's labs. Experienced lecturers facilitate the learning process through formative and summative assessments. This programme is designed with your future career in mind and our collaboration with industry partners help to ensure you graduate industry ready and are kept abreast of all the latest breakthroughs in computer science.

## AMONG THE COURSES OFFERED

### Year One

- Computer Architecture
- System Analysis and Design
- Data Communication and Network
- Statistics and Probabilities

### Year Two

- Object Oriented Analysis and Design
- Network and Data Security
- Client Server Computing
- Web Programming

### Year Three

- Distributed System
- Data Mining
- Industrial Training

**DURATION**  
3 YEARS

## FURTHER STUDY OPTIONS

Bachelor in Computer Science (Hons) provides an ideal pathway to postgraduate programmes including the Master in Computer Science and the Master in Information Technology, both offered by MSU's School of Graduate Studies.

## CAREER PROSPECTS

- Software Engineer
- System Analyst
- Database Administrator
- Computer System Engineer

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# Bachelor in Business Computing (Hons)

KPT/ JPS (R3/482/6/0041) 01/25

## ABOUT THE PROGRAMME

The curriculum of the MSU honours degree programme in business computing will ground you in the fundamentals of the electronic computer, problem-solving skills, and business computing applications. You will learn about the specification, design, production, and testing of computer programs, also the development and use of information systems.

Broaden your learning experience by participating in the MSU Global Mobility Programme, through which you will have the chance of spending a few semesters undertaking similar courses in one of MSU's international partner universities in Europe or Australia. You can also opt to undergo your industrial placement abroad through the MSU Global Internship Programme and have the opportunity to work alongside like-minded individuals in a global setting.

## AMONG THE COURSES OFFERED

### Year One

- Computer Architecture
- Database System
- Data Communication and Network
- Data Structure and Algorithm

### Year Two

- Object Oriented Programming
- Human Computer Interaction
- Principles of Economics
- Software Project Management

### Year Three

- Accounting Information System
- E-Commerce
- Industrial Training

**DURATION**  
3 YEARS

## FURTHER STUDY OPTIONS

Bachelor in Business Computing (Hons) is an ideal pathway to an extensive range of business and IT-related programmes at MSU's School of Graduate Studies.

## CAREER PROSPECTS

- Analyst Programmer
- System Analyst
- Business Process Analyst

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# Bachelor in Information Systems Auditing (Hons)

KPT/ JPS (R4/481/6/0649) 07/26

## ABOUT THE PROGRAMME

MSU's Bachelor of Information System in Auditing programme aims to produce graduates capable of safeguarding information systems. You will learn ethics and law, control and governance, also management of information systems. Opportunities to engage with external organisations abound, and you will gain first-hand knowledge from expert guest speakers as part of the industrial component of the programme.

Practical projects and real-world case studies will allow you to apply critical and creative thinking in responding to tangible issues, fostering your abilities in problem-solving and decision-making. Your lecturers are industry professionals and the learning experiences we provide will add depth and breadth to your understanding and develop both your vocational and life skills. An internship at the end of your studies ensures that you graduate industry-ready for a career in information systems auditing.

## AMONG THE COURSES OFFERED

### Year One

- Computer Architecture
- Data Structure and Algorithm
- Statistics and Probabilities

### Year Two

- Object Oriented Programming
- Audit
- Web Programming
- Human Computer Interaction

### Year Three

- Accounting Information System
- Commercial Law
- Industrial Training

**DURATION**  
3 YEARS

## FURTHER STUDY OPTIONS

Bachelor in Information System Auditing (Hons) provides a pathway into IT-related postgraduate programmes including the Master in Computer Science and the Master in Information Technology, both offered by MSU's School of Graduate Studies.

## CAREER PROSPECTS

- System Auditor
- System and Methods Executive
- Software Tester

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# Bachelor in Computer Forensic (Hons)

KPT/ JPS (R2/481/6/0184) 09/22

## ABOUT THE PROGRAMME

MSU's Bachelor in Computer Forensic programme is designed to develop computer professionals able to track computer-based crimes. You will learn cyber security and applications besides support technologies, be exposed to current and developing principles and practices, and train by various tools and techniques of computer forensics.

Your learning experience at Management and Science University will be guided by accomplished academics who will provide support in the development of your analytical ability in resolving complex problems. They will also reinforce your problem-solving skills as well as your decision-making skills. An internship at the end of the programme will facilitate you in creating strong industry networking and will expose you to an array of real-world experiences.

## AMONG THE COURSES OFFERED

### Year One

- System Analysis and Design
- Database System
- Computer Forensic
- Data Structure and Algorithm

### Year Two

- Legal Procedure in Criminal Law
- Computer Crime and Investigation Technique
- Network and Data Security
- Linux Programming

### Year Three

- Legal Evidence in Criminal Law
- Cryptography
- Forensic Behavioral Science
- Industrial Training

**DURATION**  
3 YEARS

## FURTHER STUDY OPTIONS

Bachelor in Computer Forensic (Hons) provides a pathway into IT-related postgraduate programmes including the Master in Computer Science and the Master in Information Technology.

## CAREER PROSPECTS

- Forensic Computer Analyst
- Computer Research Engineer
- Information Security Analyst
- Mobile Forensics Expert

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# Bachelor in Information Technology (Mobile Wireless and Technology) (Hons)

KPT/ JPS (R2/481/6/0335) 01/23

## ABOUT THE PROGRAMME

The curriculum of the MSU Bachelor in Information Technology specialising in mobile and wireless technology will put you in the driving seat of an exciting future in this industry. The mobile and wireless technology is constantly evolving due to the rapidly changing technology, growing customer demands and the frequent introduction of new products and services. To meet the demands of the industry, you will learn a wide range of courses in the field, from mobile communication architectures to wireless technologies and services and also mobile IP architectures.

Your lecturers are industry professionals, and the learning opportunities and experiences we provide you will add depth and breadth to your understanding and develop both your vocational and life skills. An internship at the end of your studies ensures you graduate industry-ready for a career in mobile and wireless technology.

## AMONG THE COURSES OFFERED

### Year One

- Computer Architecture
- Digital Electronics
- System Analysis and Design
- Database System

### Year Two

- Wireless Technologies and Services
- Programming for Mobile Devices
- Network and Data Security
- Human Computer Interaction

### Year Three

- Mobile Communication Architectures
- Mobile Internet Protocol Architectures
- Industrial Training

DURATION  
3 YEARS

## FURTHER STUDY OPTIONS

This programme provides a pathway into IT-related postgraduate programmes including the Master in Computer Science and the Master in Information Technology.

## CAREER PROSPECTS

- Application Programmer
- Wired & Wireless Security Administrator
- Computer System and Server Administrator
- M-Commerce Developer

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# Bachelor in Information Management (Hons)

KPT/ JPS (N/322/6/0025) 02/26

## ABOUT THE PROGRAMME

This program aims to strengthen the professional knowledge and competencies needed for middle and higher-level positions in various libraries and information resource centres. The courses offered in this program range from the traditional library management courses to the application of related technologies for the provision of information and services in the libraries and information centres in both public and corporate sectors. This program enables graduates to enhance their knowledge and skills for the administration of information resource centres based on the current and future needs. The graduates will be equipped with analytical thinking skills needed for managerial and leadership roles in information management and information utilization for strategic planning and decision-making. These skills are crucial in enabling them to play a more dynamic role in the advancement of information resources development, whilst building an information rich society.

## AMONG THE COURSES OFFERED

### Year One

- System Analysis & Design
- Database System
- Introduction to Information Management
- Management of Information Sources and Services
- Organization of Information
- Reference and Information Service

### Year Two

- Introduction to Programming
- Descriptive Cataloging
- Statistics and Probabilities
- Abstracting and Indexing
- Information System for Management
- Management of Academic Library

### Year Three

- Evaluation of Information Sources
- Cataloging and Classification
- Computerized cataloging
- Educational Materials and Digitization Activities in Library
- Web Programming
- Human Computer Interaction

**DURATION**  
3½ YEARS

## FURTHER STUDY OPTIONS

This programme provides a pathway into IT-related postgraduate programmes including the Master in Computer Science and the Master in Information Technology.

## CAREER PROSPECTS

- Information Specialist, Information Officer, Knowledge Manager, Information Support Officer, Librarian, Library Executives, Abstractors and Indexers.

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# Diploma in Information Technology

KPT/ JPS (R2/481/4/0090) 06/22

## ABOUT THE PROGRAMME

Information technology is an integral part of our daily lives, and skilled professionals are needed to ensure the smooth running of systems and network. It has transformed the way we do business, recreation and social interactions. MSU's Diploma in Information Technology will prepare you for a range of careers in the IT world, or for progressing to higher levels of study. You will acquire knowledge in business, technical and relevant transferable skills needed in modern IT-engaged industries. This programme is a hands-on, work-related programme where you will learn by completing projects and assignments based on real-world workplace situations and demands.

## AMONG THE COURSES OFFERED

### Year One

- Basic Discrete Mathematics
- System Analysis and Design
- Computer Trouble Shooting
- Algorithm and Data Structure

### Year Two

- Network and Computer Security
- Web Programming
- Programming
- Industrial Training

### Year Three

- Mobile Programming using J2ME
- Fundamentals of Artificial Intelligence
- Operating System

**DURATION**  
2½ YEARS

## FURTHER STUDY OPTIONS

Diploma in Information Technology will assist you in your transition to university or employment and may give you guaranteed entry into a broad range of IT-related bachelor programmes at MSU's Faculty of Information Sciences & Engineering.

## CAREER PROSPECTS

- System Support Executive
- Programmer
- Network Support Executive

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# Diploma in Business Computing

KPT/ JPS (R2/482/4/0061) 11/24

## ABOUT THE PROGRAMME

To have a competitive advantage in the business world, business owners must be able to take advantage of the internet and the technologies related to it, and employees with up-to-date knowledge in e-business breakthroughs ensures a lead in the industry.

The Diploma in Business Computing programme is focused on core courses in business computing as well as the latest developments in the e-business industry, to give you an advantageous edge in the job market. You will spend a large part of your studies engaged in group-based learning and developing relevant transferable skills in communication, teamwork and leadership through the assessments given.

## AMONG THE COURSES OFFERED

### Year One

- Computer Organisation and Architecture
- Basic Discrete Mathematics
- Algorithm and Data Structure
- Practices of Management

### Year Two

- Object Oriented Programming
- Fundamentals to Database
- Statistics and Probabilities
- Industrial Training

### Year Three

- Visual Basic Programming
- Data Communication and Network
- Operating System

**DURATION**  
2½ YEARS

## FURTHER STUDY OPTIONS

This programme will assist you in your transition to university or employment and may give you guaranteed entry into the Bachelor in Business Computing or other related bachelor programmes at Management and Science University.

## CAREER PROSPECTS

- System Support
- Software Development
- Computer Networking

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# Diploma in Computer Forensic

KPT/ JPS (R/2481/4/0116) 07/22

## ABOUT THE PROGRAMME

Computer forensics is the investigation of illegal or unauthorized activities or transactions made through computers or other digital media. The services of individuals who are experts in computer forensics are engaged to uncover such activities; electronic fraud, cyber-attack, illegal use of company computers, or intellectual property theft. Skilled professionals with the capability to interpret digital data are thus in high demand, and this programme produces them. The curriculum of the Diploma in Computer Forensic will equip you with the most up-to-date skills to carry out comprehensive technical analysis of networks and computers.

## AMONG THE COURSES OFFERED

### Year One

- Basic Discrete Mathematics
- Introduction to Criminal Law
- Data Communication and Network
- System Analysis and Design

### Year Two

- Network and Computer Security
- Fundamentals to Database
- Industrial Training

### Year Three

- Operating System
- Computer Trouble Shooting
- Linux Programming

**DURATION**  
2½ YEARS

## FURTHER STUDY OPTIONS

This programme will assist you in your transition to university or employment and may give you guaranteed entry into MSU's Bachelor in Computer Forensic programme.

## CAREER PROSPECTS

- Digital Forensics
- Cyber Programmer
- You may also find employment in law-enforcement agencies and consulting companies.

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# Diploma in Information Technology (Mobile and Wireless Technology)

KPT/ JPS (R2/481/4/0518) 06/24

## ABOUT THE PROGRAMME

The diploma programme in information technology specialising in mobile and wireless technology prepares you to be well-versed in network and infrastructure management and also capable of developing mobile and wireless applications. You will train and learn from the most advanced technologies in the design, operation and management of wireless networks, with guidance from lecturers who are keen in exploring new trends and development in the industry. Your theoretical and practical skills will be enhanced in the collaborative learning environments at Management and Science University which will develop you into a resourceful learner, creative communicator and critical thinker. Industrial placement in the second year will enhance your understanding and knowledge in this field, preparing you for a successful career in the mobile and wireless technology industry.

## AMONG THE COURSES OFFERED

### Year One

- Introduction to Programming
- Analogue and Digital Electronic
- Algorithm and Data Structure
- Data Communication and Network

### Year Two

- Introduction to Human Computer Interaction
- Mobile Programming using J2ME
- Communication System
- Industrial Training

### Year Three

- Mobile System Development
- Operating System
- Antenna and Propagation

**DURATION**  
2½ YEARS

## FURTHER STUDY OPTIONS

This programme will assist you in your transition to university or employment and may give you guaranteed entry into MSU's Bachelor in Mobile Wireless and Technology programme.

## CAREER PROSPECTS

- Assistant Security Administrator
- Technical Support Technician
- Mobile Technician
- Junior Network Administrator

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# Diploma in Information Management

KPT/ JPS (R/322/4/0003) 06/22

## ABOUT THE PROGRAMME

The Diploma in Information Management programme is designed to produce professionals who are conversant in the delivery of knowledge services in organisations and have the skills to manage information in a digitised format. Your learning experiences will include among others, the organization of information, librarianship skills, database fundamentals, management of information resources including electronic and digital resources, and developing your information literacy.

Our experienced lecturers will guide you throughout your studies and the on-campus facilities will give you the training you need, whilst the holistic curriculum at Management and Science University will ensure you graduate with balanced proficiencies for a career in information management.

## AMONG THE COURSES OFFERED

### Year One

- Fundamentals to Database
- Information Literacy
- Principles of Information Science
- Information Resource Management

### Year Two

- Web Content Management and Design
- Electronic Publishing
- System Analysis and Design
- Planning and Conceptual Design of Library

### Year Three

- Industrial Training

**DURATION**  
2½ YEARS

## FURTHER STUDY OPTIONS

Diploma in Information Management will assist you in your transition to university or employment and may give you guaranteed entry into IT related bachelor programmes offered by the Faculty of Information Sciences and Engineering.

## CAREER PROSPECTS

- Knowledge Manager
- Assistant Information Designer
- Media Researcher
- Junior Information Content Developer

## FIND OUT MORE

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MSUmalaysiaFISE







# Studying at **msu**

## IMPROVING YOU

The learning experience at Management & Science University is not only about getting the theoretical knowledge of your chosen field. We are also committed to providing you with the skills required to excel in the workplace or for further studies. Skills such as communication, leadership and teamwork are some of the soft skills embedded in our course delivery.

**“As our continuous improvement system, we will actively seek your feedback and views on your programme and campus facilities so we can continue to develop and upgrade them.”**

Through our mentoring system, the lecturers are able to monitor your academic and personal progress so you are able to develop further. By the end of your studies, we expect you to be able to perform tasks independently, be resourceful, and have the entrepreneurial acumen with the right moral values. These are what employers will expect of a graduate you.







# Industrial Experience

## ADVANTAGES OF INDUSTRIAL EXPERIENCE

Through the industrial experience, you are able to display the skill of applying your academic knowledge into the working world.

Networking skills will be an added bonus for you as you are able to start on building your contacts earlier in your working life.



# Global Mobility Programme



@ Royal Brisbane and Women's Hospital, Australia



@ Kadir Has University, Istanbul, Turkey



@ASEAN Young Women Leadership Programme, Japan



'Imagine spending a portion of your studies in another country. The global mobility initiatives in MSU give you the option of spending a semester or more overseas depending on the programme you choose.'

The **Global Mobility Programme (GMP)** provides a platform for students to experience new countries and different cultures. You are able to study for one or more semesters at an international partner university.

Through the **Global Internship Programme (GIP)**, MSU students are able to experience real life working stint in an international setting. Students are able to immerse themselves in other cultures and at the same time gain an insight to their chosen fields.

MSU **Global Leadership Programme (GLP)** is focused on preparing students to become the leaders of tomorrow in their chosen profession and to further develop a global mind-set. It is structured to provide opportunities to students to enhance their learning experiences and develop important soft skills such as leadership, teamwork and communications skills.

# PARTNER INSTITUTIONS

## MIDDLE EAST

- . Emirates College for Management and Information Technology
- . Hadhramout Establishment for Human Development

## EURASIAN

- . Abdullah Gul University
- . Bilkent University
- . Gaziantep University
- . Kadir Has University
- . Yunus Emre Institute

## EUROPE

- . ICHEC Brussels Management School
- . Thomas More University of Applied Sciences
- . University of Southern Denmark
- . Bangor University
- . Coventry University
- . University of Derby
- . University of Northampton
- . Estonian Business School
- . SIGMA Clermont Graduate School of Engineering
- . ISM International School of Management
- . EBS Universitat Fur Wirtschaft Und Recht
- . Heilbronn University
- . Hochschule Hof ( Hof University of Applied Sciences)
- . Athlone Institute of Technology
- . University of Limerick
- . Islamic Community of Kosovo
- . Avans University of Applied Sciences
- . Hanze University of Applied Sciences Groningen
- . Adam Mickiewicz University in Poznan
- . NOVA School of Business and Economics
- . Porto Business School
- . University of Maribor

## CENTRAL ASIA

- . Suleyman Demirel University
- . Turan University
- . University of Almaty
- . University of International Business

## EAST ASIA

- . Josai International University
- . Josai University Educational Corporation
- . Josai University
- . Kansai University of International Studies
- . Nagoya City University
- . The University Of Tsukuba
- . Tokyo University of Technology
- . UEDA College of Fashion





## CHINA

- . Anyang Normal University
- . Beijing Open University
- . Guangzhou University of Chinese Medicine
- . Henan Polytechnic University
- . Henan University of Chinese Medicine
- . Luohe Medical College
- . Nanjing University of Chinese Medicine
- . Shanghai University Of Traditional Chinese Medicine
- . Wuxi Institute of Technology
- . The Education University of Hong Kong
- . The Hong Kong Polytechnic University

## WESTERN ASIA

- . Institute of Aeronautical Engineering Hydrebad
- . Institute of Management Education Sahibabad
- . Cyryx College
- . Maldives National University
- . University of Colombo
- . Eastern University Dhaka

## ASEAN

- . Universitas Airlangga (UA)
- . University of The Immaculate Conception
- . University of The Philippines
- . University of Santo Tomas
- . Burapha University
- . Chulalongkorn University

## AUSTRALIA

- . Box Hill Institute
- . The University of Newcastle
- . Western Sydney University





**SUPPORT**  
to Meet Your Needs

# 1

## Student Career Development

The Student Career Development department complements the faculties, schools and centres of learning of the university in areas of students' personal and professional developments. Its role is seen as an enhancer of students' character building through the activities that it organizes. Career based activities which are aimed at sharpening students' organizational skills and personal competencies are a common feature throughout any academic year.

Opportunities for entrepreneurial ventures are assimilated in various activities to provide the foundation and experience for students to embark into the world of business. Students are also given guidance in the areas of employment development whereby the department offers individualized assistance for students with all of their career-related needs.


Student Career Department also serves as a hub for campus life as a variety of students based events are jointly organized between the department and the various clubs and association under its care. The department also provides counseling and assistance on general welfare of students, housing and alumni networking.





📍 Support to Meet Your Needs 📍 Accommodation

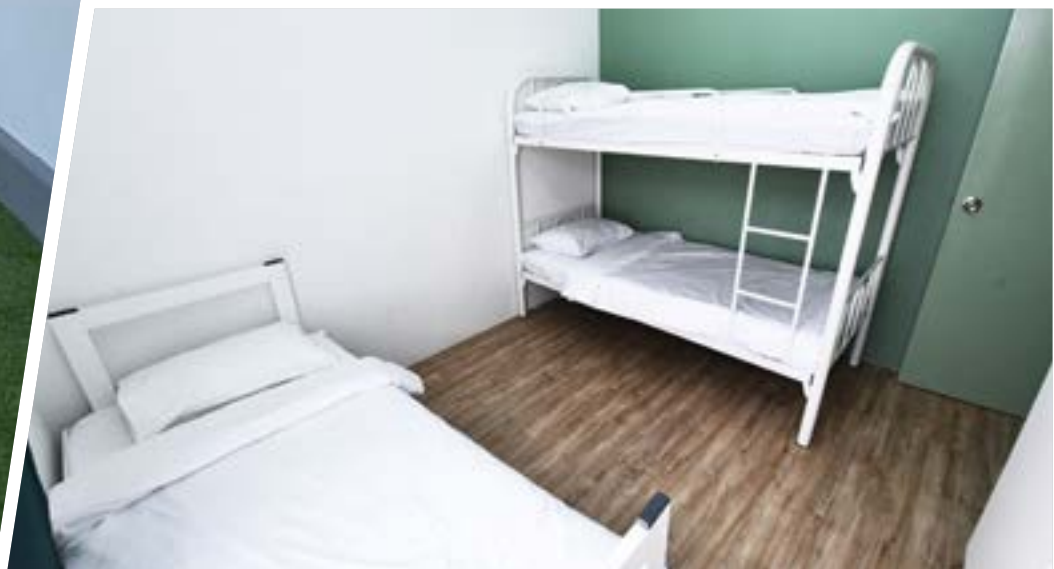


For more information, please visit [www.msu.edu.my](http://www.msu.edu.my) 

## Accommodation

One of the biggest concerns of any university student is finding the right accommodation. Since it is an integral part of your student life, here at MSU we are dedicated to helping you find the accommodation that fits your needs and provides you with a supportive learning environment right on the University's grounds. Through the Residence, MSU's very own on-campus student housing with 260 apartments and studio-styled accommodation, students have easy access to all the University's amenities. Your future residence comes with the basic necessities.

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# 3

## Library and Resource Centre

The resource centre services are geared to meet the needs of all students and staff. Extensive collections of learning and reference materials are available, including monographs, books, magazines, journals, theses, students' projects, mainstream English and Malay newspapers and past year exam questions.

In line with the connected world that we live in, MSU library provides on-line access to thousands of journals and electronic books. Users can access, download or print the journal articles or books via the MSU Student Portal. Through our online facility, users will be able to retrieve more than 130,000 e-books and thousands of journal articles in various disciplines or subjects. For those who prefer to peruse through traditional books, the MSU library currently holds more than 30,000 books.

MSU library is fully automated and our computerized Library Management Utility, will provide users with information about what is held in the collections and what has been borrowed, and also allow self-reservations and renewal of borrowings. Users can also do their own searching and status checking via the OPAC (Online Public Access Catalog).



“the MSU library currently holds more than 30,000 books”





# 4

## Financial Assistance and MSU Scholarship

As part of promoting the culture of giving and being grateful, MSU allocates RM3 million yearly as financial assistance to deserving students. The funds are dispensed through various means including collaborative efforts between MSU and several public and private institutional partners. All scholarship and financial assistances are provided through the MSU Foundation and the following schemes:

### PRESIDENT SCHOLARSHIP

MSU's very own scholarship is one such scheme that has over the years benefited many students. This is an award given to students who exhibit exemplary academic achievements and come from an economically challenged background.

### JOINT SCHOLARSHIPS

Joint scholarship schemes such as SKOR Berita Harian and The Star Education Fund are some examples of MSU's involvement in ensuring the less fortunate gets to continue their tertiary education at MSU. The scholarship is opened to all Malaysians and the financial assistance awarded ranges from a full to a partial

scholarship. Details of the scholarship and application forms are available at the Registrar's office.

### FELLOWSHIP & SLAB SCHEMES

In its effort to train qualified academics to manage the university's human capital needs and to further enhance its research and innovation activities, MSU offers fellowship awards to local and foreign candidates for graduate studies leading to Phd at MSU. The SLAB scheme, a fully funded internal programme aimed at developing academic staff in their pursuit of higher education, is another effort of the university among its staff-development initiatives.



# 5

## MSU Foundation

'Yayasan MSU' or the MSU Foundation is a foundation for building excellence. The foundation is an embodiment of the aspirations of the Founder and President of MSU, Professor Tan Sri Dato' Wira Dr Mohd Shukri, who is passionate about helping those in need and driven towards excellence as well as scholarly success. The foundation itself is an extension of the university's commitment to education, lifelong learning and community engagement work, a reflection of MSU being a caring and giving institution. It is committed towards providing financial assistance and scholarships for research or academic pursuits to eligible recipients with the hope that the contribution will spark opportunities for social and economic improvements in the beneficiaries and the society at large.

Underlying this benevolent effort is the commitment to instill the values of excellence in the creation of quality human capital. This noble and charitable cause rests on the belief that the spirit of giving will eventually spur compassion, understanding and tolerance, essential ingredients in the creation of an integrated society.

Community engagement is also an area in which the Foundation its aims these are the uplifting of living standards in the urban poor and the provision of financial assistance to orphans. Various community engagement activities are targeted towards these groups annually. The Foundation's involvement also encompasses the poor in Indonesia, Thailand, Cambodia, Vietnam, Sri Lanka and India.





# 6

## International Office

Welcoming international students from 37 countries is part and parcel of MSU's vision to become a global university of choice. The cultural diversity on campus brings exciting opportunities for all students to develop their globally mindedness, and social responsibility, and bolster their value to future employers.

### SUPPORTING INTERNATIONAL STUDENTS

The International Office is committed to provide necessary assistance to all international students to make them feel at home from their moment of arrival.

If you are an international student, you can expect assistance by way of:

- a dedicated orientation programme upon your arrival,
- on-campus housing,
- professional consultations in matters such as immigration and visas, and
- friendly support from our International Student Society.

“on campus housing and friendly support from our International Student Society”

 Residence Lounge



# Applying to **msu**

We welcome you to join our vibrant MSU community. Come visit us during our open days and get a feel for the programme of your choice before you apply.

During the visit, there will be numerous activities lined up for you. Take a tour of the campus and faculties to look at the teaching and learning facilities. Meet with our friendly counsellors to get detailed information on the programmes at MSU. Talk to your future lecturers at their faculty demonstrations and to our students for an idea of your future university life here.

## FIND OUT MORE

[facebook.com/  
MSUmalaysia.CnC](https://facebook.com/MSUmalaysia.CnC)



## FOLLOW US ON

[twitter.com/  
MSUenquiry](https://twitter.com/MSUenquiry)





# How to Apply

## Local Students

Log on to <http://www.msu.edu.my> for further information. You can also drop by our Counselling and Communication Office for a one-to-one session with our counsellors.

## International Students

Log on to <http://www.msu.edu.my> to discover more about MSU

## English Language Requirements

At MSU, our medium of instruction is English. Therefore, all MSU students are required to be proficient in spoken and written English to the standard that we require and to the specific entry requirements of the programme you enrolled for.

As a general admission to most of our programmes, you will require a minimum of an

International English Language Testing (IELTS) average score of 5.5 or a Test of English as a Foreign Language (TOEFL) score of 500 or any English course recognized by the University. We offer English courses for those who do not fulfill these conditions.



For more information, please visit [www.msu.edu.my](http://www.msu.edu.my) 

**FOUNDATION**

**Local Students**

- Malaysian Studies I
- Thinking Skills / National Language A (applicable to students who did not obtain a credit in SPM Bahasa Melayu)
- Islamic Studies / Moral Education

**International Students**

- Malay Language Communication I
- Thinking Skills
- Constitution and the Malaysian Society\*

**Additional INFORMATION**

The following subjects are compulsory under the Ministry of Higher Education (MOHE), Malaysia, General Studies subjects. Applicable for both local and international students at the undergraduate level.

**DIPLOMA**

**Local Students**

- Malaysian Studies II
- Thinking Skills / National Language A (applicable to students who did not obtain a credit in SPM Bahasa Melayu)
- Islamic Studies / Moral Education
- Community service\*

**International Students**

- Malay Language Communication II
- Thinking Skills \*
- Constitution and the Malaysian Society\*
- Community service\*

*\* Or any other subject that is assigned by the faculty*

**BACHELOR**

**Local Students**

- Islamic Civilization and Civilization Asia
- Ethnic Relations
- Entrepreneurial Skills \*
- Malaysian Economy\*
- Community service\*

**International Students**

- Malay Language Communication II
- Malaysian Studies III
- Entrepreneurial Skills\*
- Malaysian Economy\*
- Community service\*

*\* Or any other subject that is assigned by the faculty*

# CONNECT WITH **MSU**

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[www.msu.edu.my](http://www.msu.edu.my)



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[www.pinterest.com/msumalaysia](http://www.pinterest.com/msumalaysia)



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## DISCLAIMER

The University endeavours to ensure that all the information listed in this prospectus are current and accurate at the time of printing. However, the University reserves the right to make changes where required without notice. You should contact the University to verify the information given.



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MUSLIM UNIVERSITY  
SINGAPORE

**msu**


**Thank you  
all frontliners.**  
We are in this  
together  
msu



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# #beMSUrians

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