

FACULTY OF ENGINEERING & COMPUTER TECHNOLOGY

About AIMST University

AIMST University is a premier private university catering to the needs of local and international students. It offers high-quality education globally recognised by the relevant professional bodies and industries. The University also emphasizes international exposure through a network of numerous international partners. In addition, student exchange programmes help our students to develop global perspectives and skill sets. As a result, AIMST's graduates enjoy 100% employability in leading national and international organizations within six months of graduation.



Dean's Message

Mr. Raman Raguraman Deputy Dean, Faculty of Engineering and Computer Technology

AIMST University's Faculty of Engineering and Computer Technology (FECT) plays a major role in producing all-rounded engineers in the field of electrical and electronics engineering. The faculty possess a highly integrated laboratory that is tailored for practical sessions for real-time industrial exposure. Among the major fields of expertise are VLSI Design & Testing and Printed Circuit Board (PCB) Design & Fabrication. FECT is moving towards Industrial Revolution 4.0 (IR4.0) by integrating numerous new technologies and emphasising the strict requirements of the Board of Engineers Malaysia (BEM) and Industrial Advisory Panel (IAP) to ensure 100% employability.

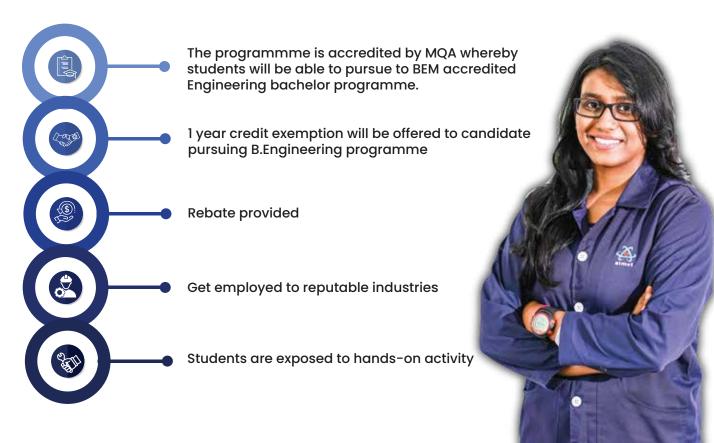




Diploma in Electrical & Electronic Engineering

Engineers have created modern technology and structures in which we live. Engineering is therefore challenging and creative. It requires hardwork but is fulfilling.

Uniqueness of the Programme



Course Structure

YEAR 1	YEAR 2	YEAR 3
Mathematics I Electronic Devices and Circuits Electrical Circuits Introduction to Computer Programming Engineering Science MPU 2 (Elective I) English I Mathematics II Electrical Machines I Principles of Communication Systems Digital Electronics MPU 1 (Compulsory) English II	Mathematics III Electrical Machines II Generation and Transmission Industrial Management Safety and Ethics CAD, Simulation and Drafting MPU 3 (Elective) Distribution and Utilisation Microprocessor and Microcontroller Power Electronics Instrumentation and Control Systems Estimation of Electrical Installations MPU 4 Industrial Training	 Power System Protection and Switchgears Electrical Drives and Control Final Year Project Robotics Troubleshooting of Electrical Machines Renewable Energy Resources VLSI Techniques PLCs and Applications

Entry Requirement

- SPM or its equivalent
 Pass with at least credits in THREE (3) subjects, including Mathematics and ONE (1) relevant science / technical / vocational subject AND a pass in English
- Sijil Tinggi Persekolahan Malaysia (STPM) or its equivalent
 Pass in Mathematics, English and ONE (1) relevant science / technical / vocational subject at the SPM level
- Recognised related Vocational and Technical / Skills Certificate or its equivalent
 Pass with ONE (1) year of relevant work experience or a minimum of ONE (1) semester of a bridging programme.
- Recognised Certificate in Engineering / Engineering Technology or its equivalent
- Other qualifications
 Will be assessed and referred for approval on case by case basis
 - For International students, TOEFL score of 500 or IELTS score of 5.0 OR its equivalent.

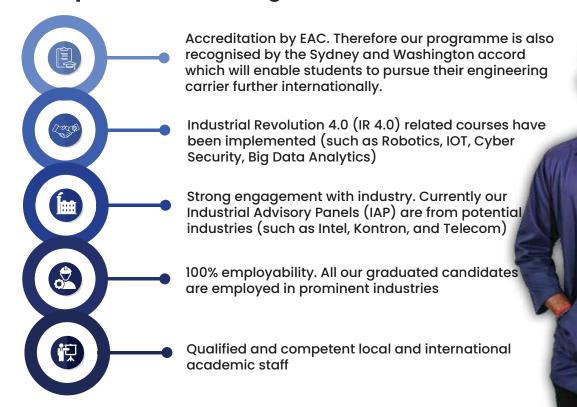




Bachelor of Engineering (Hons) in Electrical & Electronic Engineering (Ra/SZA/G/OZE) (MOA/FA ZZZA/G/OZE) (

Electrical and Electronic Engineering has rapidly penetrated into many diverse areas such as Power Generation and Distribution, Process Control and Automation, VLSI Design, Manufacturing and Computer Engineering.

Uniqueness of the Programme



Course Structure

YEAR I	YEAR 2
 Engineering Mathematics 1A Electronic Devices Programming Technique Electrical Circuits English for Specific Academic Purposes Engineering Mathematics 1B Engineering Materials Digital Circuits & System Design English for Professional Purposes MPU Compulsory MPU Elective 	 Engineering Mathematics 2A Electronic Circuits Electromagnetic Fields & Waves Electrical Machines 1 Measurements & Instrumentation MPU Elective Engineering Mathematics 2B Signals & Systems Communication Systems Electrical Machines 2 MPU Compulsory MPU Elective
YEAR 3	YEAR 4

Entry Requirement

- AIMST Foundation/ STPM/Matriculation/ Pre-University Programme or its equivalent Pass with minimum Grade C (CGPA 2.0) in Mathematics and ONE (1) relevant Science subject and Pass SPM or its equivalent with at least a pass in English
- Recognised Diploma in Engineering / Engineering Technology or its equivalent Pass with minimum CGPA 2.0
- Recognised related Vocational and Technical / Skills Diploma
 Pass with minimum CGPA 2.0 and a pass in English at SPM level.
- Other qualifications
 Will be assessed and referred for approval on case by case basis
 - -For Malaysian students MUET band 2 upon registration for Bachelor Engineering programme
 - -For international candidates pass IELTS with min band of 5.0 or TOEFL $\,$ with min 500 paper-based or equivalents



Bachelor of Computer Science

• Specialism in Artificial Intelligence

Machine Learning / Applications of Deep Learning / Natural Language Processing / Neural Networks / Statistical Modelling and Data Analysis / Internet of Things / E- Commerce / Robotics / Data Warehouse Manager / Digital Image Processing / Law in Intelligent System

Specialism in Data Analytics

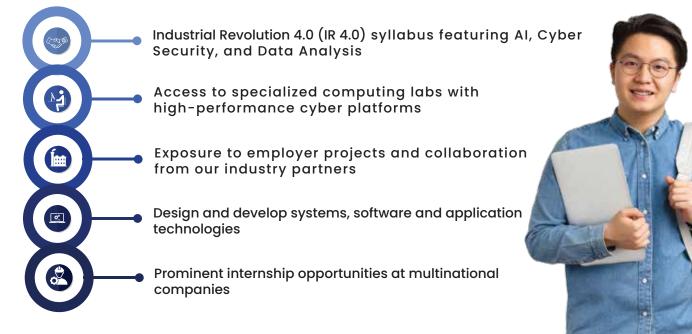
Data Mining / Introduction to Big Data / Statistical Modelling and Analysis / Applications of Deep Learning / Internet of Things / Database Management System / E-Commerce / Investigation in Data Analytics / Data Structures / Data Base Security / Data Warehouse Manager

Specialism in Cyber Security

Cryptography and Network Security / Internet of Things / Cloud Computing / Wireless Communication for 5G / Web Technology / Digital Forensic / Ethical Hacking / Security Audit and Assessment / Software Security Assurance / Firewall and Intrusion Detection / E-Commerce

Computer science is the study of computers and computing as well as their theoretical and practical applications. Computer science applies the principles of mathematics, engineering, and logic to a plethora of functions, including algorithm formulation, software and hardware development, and artificial intelligence.

Uniqueness of the Programme



Course Structure

Bachelor of Computer Science

YEAR 1	YEAR 2	YEAR 3
Computing Mathematics Computer Organization and Architecture Programming Technique Operating Systems Python Programming Object-Oriented Programming with C++ Discrete Structures	 Artificial Intelligence & Intelligent Agents Networking & Communications Software Development Fundamentals Project Management & Finance Social Issues and Professional Practice Information Management Software Engineering Methods Parallel and Distributed Computing Information Assurance and Security Elective- 1 Elective- 2 Elective- 3 	Human-Computer Interaction Algorithms and Complexity Elective- 4 Elective- 5 Elective- 6 Final Year Project Phase-I Embedded System Fundamentals Graphics and Visualization Elective- 7 Elective- 8 Elective- 9 Final Year Project Phase-II
		YEAR 4
		· Industrial Training - 6 months

Entry Requirement

AIMST Foundation/Matriculation/ Pre-University Programme or its equivalent
 A pass in Matriculation or Foundation studies with minimum CGPA of 2.0 and a credit in Additional Mathematics or its equivalent at SPM level.

STPM

- 2 Passes in STPM in Science stream with minimum Grade C (GPA 2.0) in Mathematics and one Science or ICT Subject.
- 2 Passes in STPM with minimum Grade C (GP 2.0) in any subject with a credit in Additional Mathematics at SPM
- 2 Passes in STPM with minimum Grade C (GP 2.0) in any subject with a credit in Mathematics and any one Science or ICT subjects at SPM.

A-level

- 2 Passes in A-Level in Science stream with a Pass in Mathematics and one Science or ICT subject.
- 2 Passes in A-Level with a Credit in Additional Mathematics at SPM/IGCSE/O-Level or equivalent.
- 2 Passes in A-Level with a Credit in Mathematics and Science or ICT subjects at SPM/O-Level/IGCSE or equivalent.
 Candidates need to do a Pre-Requisite module in Further Mathematics or equivalent in the first semester of Degree Programme.

• UEC

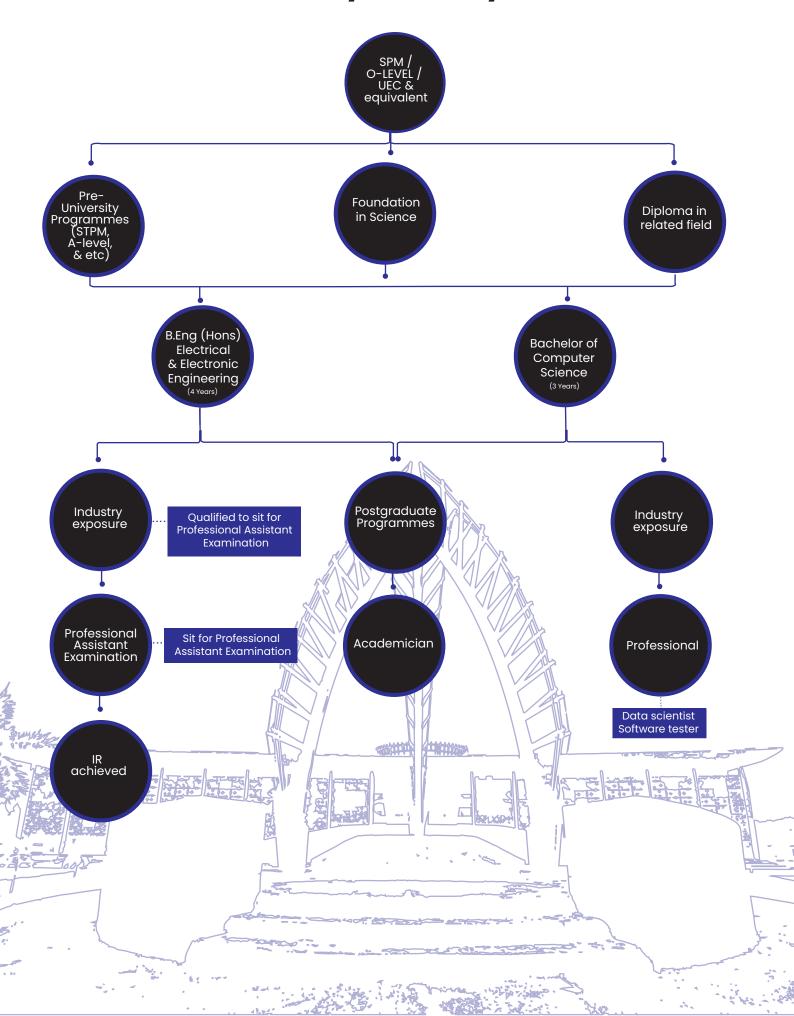
- 5 Grade B Passes in UEC in Science Stream in any subject including Mathematics and one Science or ICT subject.
- 5 Grade B Passes in UEC in any subject including Additional Mathematics.
- 5 Grade B Passes in UEC in any subjects with Credit in Mathematics and Science or ICT Subject at SPM or equivalent. Candidates need to do a Pre-Requisite module in Further Mathematics or equivalent in the first semester of Degree Programme.

· Other qualifications

Will be assessed and referred for approval on case by case basis



Study Pathway



What our Alumni say?



Huang Zen Yen
Engineering,
AIMST



Gopinath Marefeen Engineering, AIMST

Software Engineer, Greatech Sdn.Bhd, Penang

The engineering knowledge as well as learning experience I gained throughout my 4 years of degree studies in AIMST had well-prepared me for today's competitive job market in engineering field

Senior Engineer, INTEL Technology Sdn.Bhd

I really like the outcome based education process of our engineering faculty, everyone is working really hard for all students so that they could get easily placed in best multinational companies, I got placed in Intel as an engineer and now I got promoted to senior engineer within five years.



ThenugadeviEngineering,
AIMST



Namani Srilahari Engineering, AIMST

Validation Engineer, UST Global Sdn.Bhd

My experience at AIMST University Engineering faculty has lead to career advancement to a highly responsible and technically challenging position in a leading-edge Multi National Company

Pursuing Postgraduate, NUS, Singapore

My experience as an international student in AIMST was brilliant. AIMST has given me various opportunities to prove myself in my career path. With the lessons and experiences gained from AIMST, I believe that I can pave path to my success and create a positive impact in the society



PROGRAMMES

Foundation Studies

Foundation in Science... Foundation in Business

Diploma Studies

Diploma in Nursing Diploma in Physiotherapy... Diploma in Electrical and Electronic Engineering Diploma in Biotechnology Diploma in Finance... Diploma in Business Management

Undergraduate Studies

Bachelor of Medicine & Bachelor of Surgery (MBBS) Bachelor of Dental Surgery Bachelor of Dental Technology (Honours) Bachelor of Pharmacy (Hons) Bachelor of Science (Hons) Biomedical Sciences Bachelor of Physiotherapy (Hons)... Bachelor in Nursing Sciences (Honours) Bachelor of Science (Honours) Biotechnology.... Bachelor of Science (Hons) Bioinformatics Bachelor of Engineering (Hons) in Electrical and Electronic Engineering Bachelor of Computer Science Bachelor (Honours) in Business Marketing Bachelor of Science (Honours) Accounting & Finance Bachelor (Honours) in Finance & Management ... Bachelor of Science (Hons) Management Information Systems... Bachelor of Accountancy (Honours) Bachelor in Information Systems (Data Analytics) (Honours)

♦ Postgraduate Studies

Master in Science (Medical Biochemistry).... Master in Science (Medical Physiology) Master in Science (Medical Microbiology) Master in Science (Human Anatomy) Master in Science (Pharmacy)... Master of Pharmacy (Clinical Pharmacy) Master of Science Biotechnology... Master of Physiotherapy (Musculoskeletal) Master of Science in Management, Master of Business Administration (MBA) Doctor of Philosophy (Medical Microbiology) Doctor of Philosophy (Medical Physiology) Doctor of Philosophy (Pharmacy) Doctor of Philosophy (Biotechnology)

ACCREDITATION















RANKING





PARTNERS











































CONTACT US



+604 - 429 8000



+6012 - 649 8108



www.aimst.edu.my



AIMST University Campus Batu 3 1/2, Bukit Air Nasi, Jalan Bedong-Semeling 08100 Bedong, Kedah

Kuala Lumpur Office 1st Floor, Menara Manickavasagam No.1, Jalan Rahmat,50350 Kuala Lumpur