



BACHELOR OF ENGINEERING IN COMPUTER SCIENCE AND TECHNOLOGY

KPT/JPS [N/481/6/0706] 11/20 [MQA/PA5711]

DURATION

4 years

INTAKE

February / April / September

MEDIUM OF INSTRUCTION

English

ABOUT THE PROGRAMME

The CST programme at Xiamen University (XMU) was introduced in 1982 and is currently offered through School of Information Science and Engineering (SISE). As one of the oldest engineering schools in China with a comprehensive range of academic programmes, SISE owns an exemplary national educational centre for electronic information, and hosts the Ministry of Education's "Key Laboratory for Underwater Acoustic Communication and Marine Information Engineering".

We have extensive ties with many world-renowned universities and enterprises through academic exchanges and collaboration, and have appointed more than 20 international and domestic scholars, including members of the engineering academies of the US and Canada, as adjunct, guest or honorary professors. We joined the Global Engineering Education Exchange (GE3) programme in 2011 as the first partner institute from mainland China.

Our programme at Xiamen University Malaysia focuses on equipping graduates with a comprehensive set of knowledge that permits them to adapt to the ever-changing computer technologies and the constantly evolving computer industry, with a strong foundation in mathematics and computing skills that enables them to pursue topics of interest among the many sub-disciplines in computing, and with an ability to manage computing infrastructure of an organisation.

PROGRAMME HIGHLIGHTS

- A strong curriculum which emphasises the theoretical algorithmic foundations with a wide range of elective courses covering various specialised areas in computing for students to choose from
- A broad-based education that nurtures interdisciplinary talents capable of meeting new challenges in a changing world through the incorporation of elements of humanities, social sciences, economics and business management into the curriculum
- A good balance between theories and practical applications
- A strong link with industry that ensures up-to-date appreciation of computer technology developments and research directions

CAREER OPPORTUNITIES

- Researchers
- System analysts
- Programmers
- Software Architects
- Project managers
- Data analysts
- Game developers



Note: The degree is not among the fields of engineering in the register of the Board of Engineers Malaysia.

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ENTRY REQUIREMENTS

STPM	A pass in STPM with at least a Grade C (GP 2.0) in any 2 subjects
A-LEVEL	A pass in A-Level with at least a Grade C in any 2 subjects
UEC	A pass in UEC with at least a Grade B in 5 subjects including Advanced Mathematics
Foundation/Matriculation (Science/in a relevant field)	A pass in Foundation/Matriculation with at least CGPA 2.0 out of 4.0
Diploma	A pass in Diploma in Computer Science/Information System/Information Technology/Software Engineering or equivalent with at least CGPA 2.5* out of 4.0
AND	Additional Mathematics - a credit in SPM or the equivalent

*Note: Applicant with CGPA of less than 2.5 but more than 2.0 may be accepted subject to a stringent internal evaluation process

*For other equivalent qualifications, please consult our programme counsellor.

MAIN COURSES

Introduction to Computer Science and Technology

Programming Practice

Discrete Mathematics

Data Structures

Digital Logic

Unix System Programming

Design and Analysis of Algorithms

Circuit Analysis

Principles of Computer Composition

Compiler Principles

Principles of Operating Systems

Software Architecture and Development Environment

Computer Architecture

Object-Oriented Programming -C++

Object-Oriented Programming -Java

Numerical Methods

Digital Signal Processing

Computer Graphics

Computer Networks and Communication

Multimedia Technology

Software Engineering

ARM Assembly Language

Principles of Database System

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The information in this brochure is correct at the time of publication. Xiamen University Malaysia (XMUM) reserves the right to change the information in line with updates from time to time. Please check the website (www.xmu.edu.my) for latest information.

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