

FACULTY OF COMPUTING AND INFORMATICS

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Introduction

Faculty of Computing and Informatics (FCI) was formerly known as Labuan School of Informatics Science (LSIS) and established in May 1999 offering programmes in the field of Information Technology, which is characterised as 'soft science' and oriented towards the business environment. In October 2003 Universiti Malaysia Sabah was recognized by Multimedia Development Corporation (MDeC) for ICT and ICT-facilitated businesses that develop or use multimedia technologies to produce and enhance their products and services (quality graduates). Originally, LSIS offered two programmes during its establishment, however on the 1st of June 2014, LSIS was transformed into faculty and renamed Faculty of Computing and Informatics (FCI). Two programmes from School of Engineering and Information Technology (SEIT) were incorporated under FCI. This increases the programmes offered under FCI to four, namely:

- Bachelor of Science (Multimedia Technology) with Honours
- Bachelor of Information Technology (Business Computing) with Honours
- Bachelor of Computer Science (Software Engineering) with Honours
- Bachelor of Computer Science (Network Engineering) with Honours
- Bachelor of Computer Science (Data Science) with Honours

The growth of Information Technology and Computing has been tremendous and regarded as a pivotal element within everyday activities. Therefore the mastery of ICT knowledge produced through the advanced merger of Information Technology and Communications Technology will lead to the realisation of a borderless world, where knowledge and information delivery is not shackled by time and physical limitations. Thus, the completion of work can be achieved proficiently and dynamically.

Mission

Faculty of Computing and Informatics strives in achieving scholarly excellence in the field of Information Technology and attain international recognition through its teaching, learning, research, publication, social contribution and balance of specialised knowledge.

Vision

The Faculty of Computing and Informatics is determined to be the centre of excellence in innovative and creative information technology towards achieving global standards.

Objectives

- To enhance the environment for research, teaching and learning by extending knowledge in the ICT field especially in multimedia, computing and business computing disciplines.
- To provide a balance between theory and practice, this will form the basis for students' future careers as multimedia, computing and business computing professionals.
- To improve the national and international standing of the faculty in terms of research, teaching and learning.
- To provide the opportunity for students in professional career development through high quality education.
- To ensure quality courses that focus in current, up to date techniques and industrial practice.

PROGRAMMES OFFERED

HC12 MULTIMEDIA TECHNOLOGY

Bachelor of Science (BSc) with Honours (Multimedia Technology) is an undergraduate degree programme offered by Faculty of Computing and Informatics at Labuan International Campus. Besides teaching theories, this programme will provide students with skills in the areas of interactive media, graphics arts, audio technology, animation, video and publishing. Students will be exposed with the latest and widely utilised multimedia tools as well as programming languages. This will enhance students' techniques to design and develop multimedia application.

Career Prospects

Graduates specialized in Multimedia Technology Program have the opportunity to work as: computer animator, video specialist, computer graphic designer, web designer, programmer, interface designer, database designer and interactive multimedia application developer.

HC13 BUSINESS COMPUTING

Bachelor of Information Technology (BIT) with Honours (Business Computing) is an undergraduate degree programme offered by Faculty of Computing and Informatics at Labuan International Campus. The programme provides exposure and skills on web based system development as well as the knowledge on electronic commerce, covering both the business and technical topics. Students will be exposed with business computing operation through presentation tier, business tier and database access. This degree program will emphasise instruction in computer literacy, business computing, web development, programming and internet marketing. This career program follows the current environment on business computing technologies.

Career Prospects

Graduates specialized in Business Computing Program has the opportunity to work as: website developer, web applications developer, interactive web-based designer, instructional web-based designer, programmer, system analyst, database designer and network analyst.

HC00 SOFTWARE ENGINEERING

Bachelor of Computer Science with Honours (Software Engineering) is an undergraduate degree programme offered by Faculty of Computing and Informatics at Kota Kinabalu campus. The programme aims to produce graduates with knowledge and skills in computer science and software engineering. Students will be exposed to and trained in the fundamentals of computer systems as well as the advancement of technologies in the field of computer science. The courses offered include computer programming, object-oriented programming, software quality and testing, human computer interaction, theory of computation, operating system, artificial intelligence, final year project, to name a few. Apart from technical skills, students will be exposed to the soft skills through courses offered. In the final year, students will involve in a computer software development project under the supervision of academic personnel. Their also need to undergo industrial training during their final semester.

Career Prospects

Graduates specialized in Software Engineering Program has the opportunity to work as: Computer software engineer- application software, computer software engineer- systems software, database administrator, computer systems analyst, computer support specialist.

HC05 NETWORK ENGINEERING

Bachelor of Computer Science with Honours (Network Engineering) is an undergraduate degree programme offered by Faculty of Computing and Informatics at Kota Kinabalu campus. The programme aims to produce skilled graduates who are competent with strong computer science and networking fundamental and which will prepare them to compete in the job market. Student will be exposed and trained to the fundamental concepts and skills of computer science and majoring in system and computer network. Offered courses range from a foundation of computer programming, system analysis and design, data communication, computer networks, distributed system, system management, network management and parallel computing. In addition, some of the modules of the Cisco Network Academy are also integrated in the courses selected. Apart from technical skills, soft skills such as communication, teamwork and group management are also incorporated into the courses offered. Students will be exposed with range of applications that connect theory and skills learned in the class to real-world occurrences through the industrial training and demonstration of completing a project during their final year.

Career Prospects

Graduates specialized in System and Network Management Program has the opportunity to work as: Network administrator, LAN manager, planning, design, install and management of networking system.

Other Career Prospects

There are also strong demands in area such as: advertising and marketing, television and film, entertainment industry, freelance consultancy, public sector, ICT industry, marketing & E-Marketing, public education, software house, network operation, management in Information Technology.

HC14 SCIENCE DATA

Bachelor of Science (Data Science) with Honours is an undergraduate degree programme offered by the Faculty of Computer and Informatics at the Kota Kinabalu Campus. The programme aims to produce graduates skilled and capable in data science, in line with the growth of industries that require the expertise of data scientists. Students will be exposed and trained in the fundamentals of computer science, science and analytics primarily in data mining, visualization techniques, predictive models, and statistics. Students are also exposed to Data Science research and industrial training in their final year. The courses offered include computer programming, fundamental of data science, data visualization, data analysis, data mining, analysis and system design for data science, and other programming languages.

Career Prospects

Graduates specialized in Data Science Programme has the opportunity to work as: business data, web development, database development, mobile application design, as well as research-related career in machine learning and artificial intelligence.

ACADEMIC STAFFS

<http://www.ums.edu.my/fki/en>