

Garden of Knowledge and Virtue

INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA

KULLIYYAH OF INFORMATION AND COMMUNICATION TECHNOLOGY (KICT)

UNDERGRADUATE PROGRAMS

2019 / 2020





INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA

COMMUNICATION TECHNOLOGY (KICT)

The Kulliyyah of Information and Communication Technology (KICT) was established in November 2001. From that moment, KICT has made necessary moves to realize its vision, which is to produce knowledge workers equipped with ICT skills and knowledge ('Ilm) and the Consciousness of God (Taqwa).

This Kulliyyah is the combination of the Department of Information Systems (DIS), Department of Computer Sciences (DCS), and Department of Library and Information Science (DLIS). All programmes in the Kulliyyah are designed for integration of Islamic knowledge and ICT.

The Kulliyyah has the mission to promote collaboration with other universities and industries, both nationally and internationally, in teaching, learning, research, and consultancy, to establish a center of excellence for each department in KICT, and to advance research and development in creating a value-based information system.

KICT also aspires to initiate and develop more rigorous programmes in the area of information and communication technology. It places a great emphasis on providing excellent programmes and teaching resources in order to enhance the quality of learning and research. It is expected that students will find a unique set of opportunities available to study for both undergraduate and postgraduate programmes.

KICT UNDERGRADUATE PROGRAMS

INFORMATION SYSTEMS DEPARTMENT BACHELOR OF INFORMATION TECHNOLOGY

The Bachelor of Information Technology (BIT) programme is offered by the Department of Information Systems (DIS) at Kulliyyah of Information & Communication Technology (KICT). The programme is focused on providing the foundation and up-to-date knowledge in the discipline of Information Technology. The overall aim of the programme is to nurture holistic, balanced and entrepreneurial ICT professionals with wisdom, anchored by the spirit of Tawhid and God consciousness in line with the needs of the nation, Ummah and all Mankind.

in the final year of the program, participants will be required to pick one of the four specialization courses, or taking a general specialization including courses from all four specializations listed below.

- 1. Digital Media Design.
- 2. Enterprise Technology Managment.
- 3. Information Assurance & Security.
- 4. Bussiness Inteligance & Analytics.

DIGITAL MEDIA DESIGN

WHY YOU SHOULD JOIN US? -

WHAT ARE YOU STUDYING?

WE UNDERSTAND THE MULTIMEDIA INDUSTRY WILL CONTINUE TO EXPAND AND EVOLVE, WITH EVER-EMERGING TECHNOLOGY. YOU WILL ACQUIRE INDUSTRY RELATED SKILLS IN ANIMATION, 3D MODELLING, DIGITAL VIDEO, AUDIO, MEDIA AND COMMUNICATION DESIGN FOR ELECTRONIC MEDIA.



OPPORTUNITY TO EXPLORE THE LATEST KNOWLEDGE AND SKILS NEEDED TO CREATE A WIDE RANGE OF ONLINE MEDIA WE PROVIDE YOU WITH AN UNDERSTANDING OF THE THEORIES, CREATIVE METHODS AND TECHNICAL SKILS USED IN THE MULTIMEDIA INDUSTRUES TODAY.

BY THE TIME YOU GRADUATE, YOU'LL HAVE THE CONFIDENCE AND SKILS TO APPLY YOUR KNOWLEDGE TO THE WORKPLACE, FUTURE CAREERS CAN BE FOUND IN ART DIRECTION, DESIGN, DEVELOPMENT, INTERNET AMRKETING AND MORE



GETTING THEIR JOB IN 6 MONTHS AFTER THEY GRADUATE



What do We Learn About?

MULTIMEDIA DESIGN WEBSITE DESIGN 2D/3D ANIMATION GAME DESIGN



Core Subjects NFO 4203 INFO 420

Job Prospects DESIGNING ANIMATION **GAMING INDUSTRIES**

Graph on DIN

Media Skills in Demand



Enterprise technology Management

SPECIALIZATION GUIDLINES

WHAT IS ENTERPRISE TECHNOLOGY?

TECHNOLOGIES THAT ARE DESIGNED TO INTEGRATE MULTIPLE FACETS OF A COMPANY'S BUSINESS THROUGH THE INTERCHANGE OF INFORMATION FROM VARIOUS BUSINESS PROCESS AREAS AND RELATED DATABASES. THESE SOLUTIONS ENABLE COMPANIES TO RETRIEVE AND DISSEMINATE MISSION-CRITICAL DATA THROUGHOUT THE ORGANIZATION, PROVIDING MANAGERS WITH REAL-TIME OPERATING INFORMATION (GARTHER)



PLANNING (ERP) SYSTEMS ARE CURRENTLY
IN HIGH DEMANDAMONG MALAYSIAN
COMPANIES ESPECIALLY THOSE IN
MANUFACTURING AND SERVICE BASED
INDUSTRIES BECAUSE IT PROVIDES AN
EFFECTIVE MANAGEMENT SYSTEM LEADING
TO SIGNICANT IMPROVEMENTS IN
PRODUCTIVITY



90% GRADUATES

GETTING THEIR JOB IN 6 MONTHS AFTER THEY GRADUATE



What do We Learn About?

SYSTEM APPLICATION AND PRODUCT ENTERPRISE RESOURCE PLANNING



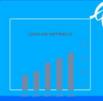
Core Subjects
NFO 3403
ONTROL AND AUDIT OF INFORMATION SYSTTEM
INFO 4503
INFORMATION RESOURCE & STRATERRY MANAGEMENT
NFO 4505
OWLEDGE MANAGEMENT PRACTICES AND APPLICATIONS
OWLEDGE MANAGEMENT PRACTICES AND APPLICATIONS
OWLEDGE MANAGEMENT PRACTICES AND APPLICATIONS

INFO 4506 INTEGRATED BUSINESS PROCESS AND ERP SYSTEMS

Popular Company

axiata

maxis



SOLUTION ACHITECT

Graph on ETM

TEAM LEAD

BY 2020, 50% REQUIRED TALENT RELATED TO ENTERPRISE





INFORMATION ASSURANCE & SECURITY

SPECIALIZATION GUIDLINES

WHAT ARE YOU STUDYING?

INFORMATION ASSURANCE & SECURITY (IAS) SPECIALIZATION AIMS TO EQUIP STUDENTS WITH THE KNOWLEDGE ON THE PROTECTION OF INFORMATION AND INFORMATION SYSTEMS (IS) THROUGH MANAGERIAL AND TECHNICAL COUNTERMEASURES THAT ARE DESIGNED TO BUSINET THEIR CONFIDENTIALITY, INTEGRITY, AVAILABILITY (CIA) RIN AND AUTHENTICITY.



About
KNOWLEDGE AND
APPLICATION OF
INFORMATION SECURITY
GOVERNANCE



O UNIVERSITY
O GRADUATES
IN CYBERSECURITY ARE NOT PREPARED
FOR THE JOB CHALLENGES THEY WILL FACE



What do We Learn Albout?

MANAGEMENT OF INFORMATION SECURITY (CORE)
BUSINESS CONTINUITY & DISASTER RECOVERY (CORE)
RISK MANAGEMENT (CORE)
CONTROL AND AUDIT OF INFORMATION SYSTEMS (CORE)
INFORMATION PRIVACY
PHYSICAL PROTECTIVE SECURITY
WEB APPLICATION SECURITY
WEB APPLICATION SECURITY

Cases of Data Breach

59%
NORTH AMERICA
36%
ASIA / PACIFIC
4%
EUROPE

Biggest Vata Breach 2018 MARRIOTT (500M)

2017 EQUIFAX (143M)

ADULT FRIEND FINDER (412.2M)



CYBER SECURITY SPECIALISTT

Graph on 195

 \bigwedge

BY 2020, 53% REQUIRED TALENT RELATED TO SECURITY

Security Skills in Demand



SECURITY MANAGER

Salary Range
2.5K 20.5K
/MONTH

Business inteligence & Analytics

SPECIALIZATION GUIDLINES

WHAT ARE YOU STUDYING?



THE OBJECTIVE OF THIS SPECIALIZATION IS TO PRODUCE GRADUATES THAT ABLE TO DEMONSTRATE CURIOSITY AND ANALYTICAL MINDSET. THESE GRADUATES SHOULD ALSO BE ABLE TO COMMUNICATE INSIGHTS THAT DELIVER BUSINESS VALUE BASED ON EXPLORATORY AND EXPLANATORY ANALYSIS.



About

KNOWLEDGE AND
APPLICATIONS OF DATA
ANALYSIS AND MODELLING
TO SUPPORT ALL FUNCTIONAL
AREAS OF THE BUSINESS.



90% GRADUATES

GETTING THEIR JOB IN 6 MONTHS AFTER THEY GRADUATE



What do We Learn Abouts

DATA WAREHOUSING
DATA MINING

DATA MINING
DATA VISUALAIZATION
BUSINESS DATA ANALYTICS













KICT UNDERGRADUATE PROGRAMS

COMPUTER SCIENCE DEPARTMENT BACHELOR OF COMPUTER SCIENCE

The Bachelor of Computer Science programme aims to develop graduates with strong and broad technical knowledge in computer science and technology, as well as to become a new breed of Muslim professionals or intellectuals in computer science field. The department offers the excitement of studying computer science, a field that studies the computers and how they can be used, which has become an integral part of our daily life. The programme is tailored to produce students who are competent to be the key players in the industry. The courses in the programmes will reflect the current development in Information and Communication Technology (ICT) area.

In the final year of the program, participants will be required to pick one of the three specialization courses, or taking a general specialization including courses from all three specializations listed below.

- 1. Software Engineering.
- 2. Network & Security.
- 3. Data Science & Computational Intelligence.

SOFTWARE ENGINEERING

COMPUTER SCIENCE SPECIALIZATION COURSE -

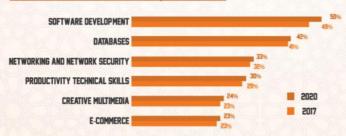


NETWORK AND SECURITY

- COMPUTER SCIENCE SPECIALIZATION COURSE -



Expected to have Vernand Grow Sectors



What Is HAbout?

THIS COURSE AIMS TO RESPOND TO THE DEMAND FOR DATA SCIENTISTS WITH THE SKILLS TO DEVELOP INNOVATIVE COMPUTATIONAL INTELLIGENCE APPLICATIONS, CAPABLE OF ANALYSING LARGE AMOUNTS OF COMPLEX DATA TO INFORM BUSINESSES DECISIONS AND MARKET STRATEGIES. BIG DATA PROCESSING AND INFORMATION RETRIEVAL DRIVES SOME OF THE WORLD MOST SUCCESSFUL AND HIGHTECH BUSINESSES; FROM WELL KNOWN COMPANIES LIKE GOOGLE AND TWITTER, TO SPECIALIST MEDICAL INFORMATICS PROVIDERS AND EVEN SPACE EXPLORATION. THE COURSE COVERS 4 MAIN TOPICS...







DATA SCIENCE BIG DATA ANALYTICS



NATURAL LANGUAGE PROCESSING

Computer-Science Related EmploymentAround Klang Valley

DATA SCIENCE AND COMPUTATIONAL INTELLIGENCE



NUMBER OF EMPLOYEE

KULLIYYAH OF INFORMATION AND COMMUNICATION TECHNOLOGY (KICT)

- Kulliyyah of Information & Communication
 Technology
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