

NAME OF PROGRAMME

Bachelor Information Technology (Hons) in Computer System Security (BCSS)

SHORT DESCRIPTION

With embedded curriculum of professional bodies such EC-Council and COMPTIA to equip students with knowledge of computer security and offers professional certification such as CEH, CHFI, CompTIA, Security +

DESCRIPTION

Designed to prepare students for careers in the field of Information Technology and Computer Security. To produce professionals with leadership skills who are knowledgeable and competent in IT and Computer Security.

CAREER OPPORTUNITIES FOR STUDENTS

- Computer Security Analyst
- Computer Forensic Analyst
- Computer Security Officer
- Security Architect
- Security Auditor
- Incident Response / Handler
- Vulnerability Assessment Analyst

OBJECTIVES

This programme is designed to produce:

- Students who are knowledgeable, competent and innovative in computer security industry;
- Students with effective leadership and team work skills as well as verbal, non-verbal and interpersonal communication skills to support their role in computer security industry;
- Students who are committed to the importance of lifelong learning and continuous improvement in IT industry;
- Students who practice professionalism with ethics and social responsibility; and
- Students who are capable of embarking on security and technopreneurial activities.

MODULES

SEMESTER	SUBJECTS
<p>Semester 1 In this semester, students will be introduced to principle of computer programming, information systems, language, communication and technopreneurial courses. These skills will ensure the students conception of computer systems and communication to equip then for a smooth transition to the subsequent semesters.</p>	<ul style="list-style-type: none"> • Principles of Computer Programming • Introduction to Computing and Information Systems • Tamadun Islam dan Asia • Fundamental English • Technopreneurship
<p>Semester 2 In ensuring strong fundamental skills, this semester will introduce students to the basic requirements of computer system security. The knowledge gained through this semester will provide them with a better understanding of the components involved in computer security.</p>	<ul style="list-style-type: none"> • Computer Organization • Object Oriented Programming • Network Fundamentals • Information Security • Cyber Law
<p>Semester 3 This semester will provide a deeper comprehension of computer application and design. Besides, it also offers the students an advanced knowledge in network which will expand their understanding of computer security. Creativity and innovativeness will be instilled to improve the way of thinking.</p>	<ul style="list-style-type: none"> • Data Structure and Algorithm • Database Management Systems • Advanced Networking • Professional English • Innovation Management
<p>Semester 4 Advanced construction of computer security is further imparted through the understanding of computer operability and the world of cryptography will be explored. Students will be exposed to electives that are vital in computer security such as incident handling and response or IT security audit and assessment.</p>	<ul style="list-style-type: none"> • Operating System • System Administration • Cryptography • Pengajian Malaysia • Incident Handling • Response/ IT Security Audit • Assessment
<p>Semester 5 Students are now ready to move to the critical aspects of security for network and software development. This semester will also help the students to develop their research skills through Research Methodology module.</p>	<ul style="list-style-type: none"> • Network Security • Internet Programming • Secure Software Development • Research Methodology

<p>Semester 6 In this semester students are exposed to the skills central in computer security such as identifying and penetrating vulnerabilities of issues in an information system. They will be exposed to the skills needed in managing a project and begin to identify their own projects.</p>	<ul style="list-style-type: none"> • Operating System Security • Software and System Vulnerabilites • Project Management • Final Year Project 1
<p>Semester 7 In the final semester, the students are provided more advanced skills of computer security of cyber forensic, advanced network security and business continuity planning. Students will also conclude their project through Final Year Project 2.</p>	<ul style="list-style-type: none"> • Cyber Forensics • Advanced Network Security • Final Year Project 2
<p>Semester 8 This semester is an industrial exposure through the Industrial Training / Internship program which is a part of the curriculum to increase employability amongst BCSS students. The industrial training will provide them with invaluable insights of computer security industry. In many occasions, the placements offer opportunities for employment.</p>	<ul style="list-style-type: none"> • Industrial Training

PHOTOS OF FACILITIES

Strong relationship with Alumni with many workshops and sharing session conducted.



Collaboration with well known certification body and industries such EC-Council, CISCO, CompTIA, OWASP and Cyber Security Malaysia.



INDUSTRY COLLABORATION

EC-Council, CISCO, CompTIA, OWASP and Cyber Security Malaysia.

AWARDS WON

- First runner up for IT Security Competition Malaysia 2016 organized by F-Secure on 14 April 2016
- First runner up for Hack and Defense Category in iHACK 2016 at UiTM on 23-24 April 2016
- Second runner up for Forensic Challenge Category in iHACK 2016 at UiTM on 23-24 April 2016
- First Prize Winner for Pre-UTPHax Mobile Version Competition on September 2015