

COMPUTERS SECURITY COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the program specification.

1. Teaching Institution	University of Baghdad/ college of Science for Women
2. University Department/Centre	Computer Science department
3. Course title/code	Computers security/ CCS 403
4. Program(s) to which it contributes	
5. Modes of Attendance offered	Class and Lab attendance is required
6. Semester/Year	4 th year/ 1 st Semester

7. Number of hours tuition (total)	30 hours theoretical
8. Date of production/revision of this specification	11/4/2016
9. Aims of the Course	
<p>Providing students with skills that provide security protection for the components of computer systems (hardware, software, data and people in this field) from various types of attacks on computer systems.</p>	

10. Learning Outcomes, Teaching ,Learning and Assessment Method
<p>C- Knowledge and Understanding</p> <p>A1. Identify the concepts of computers security.</p> <p>A2. Identify the hacking properties.</p> <p>A3. Identify the electronic threats and weaknesses in systems and methods of controlling them.</p> <p>A4. Identify the objectives of electronic security and how to achieve reliability and data integrity and availability over all computers systems' components.</p> <p>A5. Identify the types of the viruses and their impacts and methods of preventing and processing them.</p>
<p>B. Subject-specific skills</p> <p>B1. The ability to take the necessary actions to protect the computing system in the institution.</p> <p>B2. The ability to detect intrusions if it happened.</p> <p>B3. The ability to adopt the necessary actions to restore the situation to</p>

what it was before the intrusions (if it happened).

C. Thinking Skills

C1. Depending the discussion in presenting a subject and listen to different opinions to solve the problems.

C2. Making the student acting in building the programs in the laboratory without confining this a specific template

Teaching and Learning Methods

- Providing a printed chapters from a number of books (in English) for all the students before the start of the semester.
- Explain the subject in Arabic and answer students' questions.

Assessment methods

- Written exams

D. General and Transferable Skills (other skills relevant to employability and personal development)

D1. Focusing on building the mentality that depends on the analysis and conclusion in solving problems.

11. Course Structure					
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
1	2	Learning security principals	What does secure mean	As mentioned in 10	As mentioned in 10
2-3	4	Learning Characteristics of computer intrusion	Characteristics of computer intrusion		
4-5	4	Learning Attacks' types(Threats, Vulnerabilities, and Controls)	Attacks (Threats, Vulnerabilities, and Controls)		
6-7	4	Learning the Computer security goals	Computer security goals (Confidentiality, Integrity, and Availability)		
8-9	4	Learning Vulnerabilities in Hardware, Software, Data, and other Exposed Assets.	Vulnerabilities (Hardware, Software, Data, and other Exposed Assets)		
10	2	Learning Computer	Computer criminals		

		criminals			
11-12	4	Learning Methods of defense against the attacks against the computers	Method of defense		
13-15	6	Learning Viruses types	Viruses		

12. Infrastructure	
Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER	BOOK: Security in Computing, by Charles P. Pfleegers Fourth Edition, Prentic Hall,2006 reference : Computer organization
Special requirements (include for example workshops, periodicals, IT software, websites)	
Community-based facilities (include for example, guest Lectures , internship , field studies)	

13. Admissions	
Pre-requisites	No
Minimum number of students	10 students
Maximum number of students	30 students