

Kingdom of Saudi Arabia
Ministry Of Higher Education
Majmaah University
Deanship of Quality assurance
and Human Development



Course Specification

Special Topics In computers and Systems Information

(Summary)

1431/1432

Course Specification

Institution : **Majmaah University**

College/Department : **College of Science in AL-Zulfi / Computer Science& Information**

A- Course Identification and General Information

1. Course title and code: **Special Topics In computers and Systems Information CIS 392-Z**

2. Credit hours: 3

4. Name of faculty member responsible for the course : : **College of Science in AL-Zulfi / Computer Science& Information**

5. Level/year at which this course is offered: **level 6 / 3 year**

6. Co-requisites for this course (if any) :

7. Location if not on main campus : **College of Science in AL-Zulfi**

B- Objectives

A special series in selected topics in Computer Science. Each course offering is specifically and originally designed by the instructor. In general, the special topics will focus on issues related to advanced undergraduate topics with a research component.

- To discover some of the currently active areas of Computer Science research and development;
- To learn how to make contributions to those areas;
- To become a computer professional by being a computer professional;
- To learn to present research results; and
- To learn to solve difficult problems involving computers.

C- Course Description (Note: General description in the form to be used for the Bulletin or Handbook should be attached)

1. Topics to be Covered		
Topics	No Of Week	Contact hours
Preliminaries	1	3
Introduction to Computer Networks	1	3
Network Security Essentials	2	6
Network Threats	2	6
Introduction to Botnet	2	6
Botnets and Proactive System Defense	2	6
A Taxonomy of Botnet Structures	2	6
Botnet Detection Techniques	2	6

2. Course components (total contact hours per semester):				
Lecture: 42	Tutorial:	Laboratory: 0	Practical/Field work/Internship	Other:

3. Additional private study/learning hours expected for students per week. (This should be an average: for the semester not a specific requirement in each week)

4. Schedule of Assessment Tasks for Students During the Semester

Assessment Policy		
Assessment Type	Week	Weight
First Exam	6	15%
Second Exam	12	15%
Final Exam	15	60%
Quizzes and Home works	Along The Term	10%
Total		100%

D- E-Learning Resources.

1. Required Text(s) : Botnet Detection, Countering the Largest Security Threat

1st Edition. Softcover version of original hardcover edition 2008, 2008, XII, 168 p. 20 illus., Softcover

ISBN: 978-1-4419-4330-9

2. Essential References :

<http://www.fortiguard.com/analysis/zeusanalysis.html>

<http://en.wikibooks.org/wiki/File:Botnet.svg>

3- Recommended Books and Reference Material (Journals, Reports, etc) (Attach List)

4-.Electronic Materials, Web Sites etc

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5- Other learning material such as computer-based programs/CD, professional standards/regulations

<http://www.springer.com/computer/security+and+cryptology/book/978-1-4419-4330-9>

<http://www.amazon.com/Virtual-Honeypots-Tracking-Intrusion-Detection/dp/0321336321>