Kingdom of Saudi Arabia

Ministry Of Higher Education

Majmaah University

Deanship of Quality assurance

and Human Development

Course Specification

Software Engineering

CIS 343-Z

(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**: Software Engineering - CIS 343-Z**
2. Credit hours: **3**
4. Name of faculty member responsible for the course : **Mohammad Al-Othman**
5. Level/year at which this course is offered**: 5 level / 3 year**
6. Co-requisites for this course (if any) : **CIS 214**
7. Location if not on main campus **: College of Science in AL-Zulfi**

B- Objectives

1. **The main objective of this course is to provide students with a broad perspective on Software Engineering, an overview of the software engineering discipline.**
2. **Present the differences between software engineering discipline and other discipline of engineering; introduce the ethical and professional responsibility of the software engineer.**
3. **Explain the project management and the role of management on the success of the project.**
4. **Explain the process of software engineering, feasibility study, collecting requirements, validation and verification. Introduce the system models.**
5. **Explain the architectural design and the effect of the environment on the type of design we choose for the system.**

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
• Course Introduction • What is software engineering	**1**	**3**
• Socio-technical systems, emergent system properties, and the system engineering process.	**2**	**6**
• Software Processes	**2**	**6**
• Project management • Software requirements	**2**	**6**
• Requirements engineering process. • System and context models	**2**	**6**
• Architectural design	**3**	**9**
• Project presentation	**2**	**6**

2. Course components (total contact hours per semester):

Lecture: **42**	Tutorial:	Laboratory:	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)

D- E-Learning Resources.

1. Required Text(s) : • **Software Engineering, Ian Summerville, Addison Wesley , 2006 , 8th**
2. Essential References : • **Software Engineering: A Practitioner's Approach by Roger S. Pressman ,(2009)**
3- Recommended Books and Reference Material (Journals, Reports, etc) (Attach List) • **Head First Software Development by Dan Pilone and Russ Miles (Paperback - Jan 11, 2008)** •
4-.Electronic Materials, Web Sites etc • www.pearsoned.co.uk/sommerville
5- Other learning material such as computer-based programs/CD, professional standards/regulations

E- Assessment

Assessment Policy		
Assessment Type	**Week**	**Weight**
First Exam	**6**	**15%**
Second Exam	**12**	**15%**
Homework and Project		**10%**
Final Exam		**60%**
Total		**100%**