

**Kingdom of Saudi Arabia**  
**The National Commission for Academic Accreditation & Assessment**

**324CIS-3**  
**Modern Applications Development**

**Course Specification**  
**Second Semester 2016-2017**



## B. Objectives

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## C. Course Description (Note: General description in the form to be used for the Bulletin or handbook should

1. Topics to be Covered		
List of Topics	No. of Weeks	Contact Hours
1. Overview of Modern Software Development, The software Life Cycle.	1	
2. Overview of Modern Software Development, The software Life Cycle.	1	
3. Overview of Modern Software Development, The software Life Cycle.	1	
4. Overview of Modern Software Development, The software Life Cycle.	1	
5. Understanding requirements: Identifying stakeholders,	1	
6. Functional Requirement, Elements of Requirement models, Analysis Patterns.	1	
7. Software Requirement Specification, Class Based Modeling	1	
8. Pattern Based Design, User Interface Design	1	
9. Software Design Concept.	1	
10. Software Architecture	1	
11. Testing and Inspection	1	
12. Quality attributes: Software Design	1	
13. Software Process Trends; Process Data Model	1	
14. Revision	1	

2. Course components (total contact hours and credits per semester):						
	Lecture	Tutorial	Laboratory	Practical	Other	Total
Contact Hours						0
Credits						0

3. Additional private study/learning hours expected for students per week.	<input type="text"/>
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4. Course Learning Outcomes in NQF Domains of Learning and Alignment with Assessment Methods and Teaching Strategy
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	NQF Learning Domains And Course Learning Outcomes	Course Teaching Strategies	Course Assessment Method
<b>1.0</b>	<b>Knowledge</b>		
1.1	Not applicable to this course		
<b>2.0</b>	<b>Cognitive</b>		
2.1	Not applicable to this course		
<b>3.0</b>	<b>Interpersonal</b>		
3.1	Not applicable to this course		
<b>4.0</b>	<b>Communication</b>		
4.1	Not applicable to this course		
<b>5.0</b>	<b>Psychomotor</b>		
5.1	Not applicable to this course		

#### 5. Schedule of Assessment Tasks for Students During the Semester

	Assessment task	Week Due	Proportion of Total Assessment
1.	Quiz 1		2% %
2.	Quiz 2		3% %
3.	Assignment		5% %
4.	Midterm Exam 1		15% %
5.	Midterm Exam 2		15% %
6.	Project		10% %
7.	Lab Final Exam		10% %
8.	Final Exam		40% %

#### D. Student Academic Counseling and Support

1.

#### E. Learning Resources

1. List Required Textbooks
- Software Engineering, A Practitioner's Approach, (latest edition), Roger S. Pressman, McGraw-Hill.
- Modern Software Development using Java. P. T. Tymann, M. Schneider, Thomson Books. 2004
2. List Essential References Materials (Journals, Reports, etc.)
3. List Recommended Textbooks and Reference Material (Journals, Reports, etc.)
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4. List Electronic Materials (eg. Web Sites, Social Media, Blackboard, etc.)
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5. Other learning material such as computer-based programs/CD, professional standards or regulations and software.

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## F. Facilities Required

Indicate requirements for the course including size of classrooms and laboratories (i.e. number of seats in classrooms and laboratories, extent of computer access etc.)

1. Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)

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2. Computing resources (AV, data show, Smart Board, software, etc.)

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3. Other resources (specify, e.g. if specific laboratory equipment is required, list requirements or attach list)

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## G. Course Evaluation and Improvement Processes

1. Strategies for Obtaining Student Feedback on Effectiveness of Teaching

Methods	Ways	Plan of Action
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2. Other Strategies for Evaluation of Teaching by the Program/Department Instructor

3. Processes for Improvement of Teaching

4. Processes for Verifying Standards of Student Achievement (e.g. check marking by an independent member teaching staff of a sample of student work, periodic exchange and remarking of tests or a sample of assignments with staff at another institution)

5. Describe the planning arrangements for periodically reviewing course effectiveness and planning for improvement.

**Teaching Staff : saeed saad Abooleet**

Signature : \_\_\_\_\_

Date of Report Completed : 15-Jun-2017

Received by : \_\_\_\_\_

Dean/Department Head

Signature : \_\_\_\_\_

Date : \_\_\_\_\_

