

Ministry of Higher Education and Scientific Research

Supervision and Scientific Evaluation Body

Quality Assurance and Academic Accreditation Office

Course Description Sample

Subject: software engineering

This course description provides a brief survey of the most important characteristics, expected learning output, showing whether students have made full use of the learning opportunities. These characteristics have to be matched with the description of the program.

1. Educational Institution	Shatt Al-Arab University College
2. Department / Center	Computer sciences
3. Course Title /Code	Software engineering
4. Lecturer Name	Abdulrahman Mnther
5. Type of Teaching	Attendance
6. Academic Year /Term	2022-2023
7. Total No. of Teaching Hours	32
8. Date of Preparing this Course Description	2\10\2022

9. Course Objectives

- a. Develop students' abilities and programming sense.
- b. Providing students with an information keep updated with technological development.
- c. Awareness of understanding the rules, ethics and processes of the software market.
- d. Helping to understand the basics of software engineering.
- e. Gain the ability to implement simple software.

f. Encourage them to think creatively.
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10. Course Output, Methodology and Evaluation

(A) Cognitive Objectives

a. Enabling students to acquire knowledge and the art of software engineering.
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b. Acquainting students with how to promote their personal knowledge.

c. Helping students to acquire knowledge in the art of software engineering.
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d. Enabling students to sharpen their skills in the dynamic work environment.

e. Enabling students to invest their scientific abilities in their working place in the scope of information technology.
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(B) Skill Objectives Related to the Program:

a. Scientific Skills

b. problem solving skills

c. Skills Related to Administrative Work Challenges

Methods of Teaching and Learning

a. Using already- prepared lectures.

b. Using up-to-date data shows.

c. Homework

Methods of Evaluation

a) Monthly tests

b) Daily quizzes

c) Students' Regular Attendance

(C) Sentimental and Value Objectives

a. Realizing ethical objectives.
b. Commitment to university traditions.
c. Compliance with the University Instructions and the Ministry Regulations.
d. Promoting students' personal abilities in educational scopes and how to behave well with others.

Methods of Teaching and Learning

a. Lectures on university instructions.
b. Educational guidance lectures.
c. Continuous directing.
d. Showing practical cases.

Methods of Evaluation

a. Daily quizzes.
b. Classroom discussions and commitment to ethics and sublime values.
c. Special marks for class activities.
d. Monthly and quarterly evaluation.

D) General and Qualitative Skills (other skills related to the ability of employment and personal development)

a. Enabling students to acquire the skill and art of application development
b. Enabling students to apply creative thinking in software engineering.

11. Course Structure

Week	No of Hours	Required Learning Output	Title of Subject	Teaching Method	Evaluation
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1.	2	understanding the material	FAQs about software engineering	- lectures - case study -discussions	- oral tests -questions
2.	2	understanding the material	Professional and ethical responsibility	- lectures - case study -discussions	- oral tests -questions
3.	2	understanding the material	Emergent system properties Systems and their environment	- lectures - case study -discussions	- oral tests -questions
4.	2	understanding the material	System modelling	- lectures - case study -discussions	- oral tests -questions
5.	2	understanding the material	The system engineering process	- lectures - case study -discussions	- oral tests -questions
6.	2	understanding the material	System procurement	- lectures - case study -discussions	- oral tests -questions
7.	2	understanding the material	Software process models Process iteration	- lectures - case study -discussions	oral tests -questions
8.	2	understanding the material	Software specification Software design and implementation	- lectures - case study -discussions	oral tests -questions
9.	2	understanding the material	Software evolution	- lectures - case study -discussions	oral tests -questions
10.	2	understanding the material	Automated process support	- lectures - case study -discussions	oral tests -questions
11.	2	understanding the material	Discussion session	- lectures - case study -discussions	oral tests -questions
12.	2	understanding the material	Test	- lectures - case study -discussions	

13.	2	understanding the material	Management activities	- lectures - case study -discussions	oral tests -questions
14.	2	understanding the material	Project planning	- lectures - case study -discussions	oral tests -questions
15.	2	understanding the material	Project scheduling	- lectures - case study -discussions	oral tests -questions
16.	2	understanding the material	Risk management	- lectures - case study -discussions	oral tests -questions
17.	2	understanding the material	Discussion session	- lectures - case study -discussions	oral tests -questions
18.	2	understanding the material	Functional and non-functional requirements	- lectures - case study -discussions	oral tests -questions
19.	2	understanding the material	User requirements	- lectures - case study -discussions	oral tests -questions
20.	2	understanding the material	System requirements	- lectures - case study -discussions	oral tests -questions
21.	2	understanding the material	The software requirements document	- lectures - case study -discussions	oral tests -questions
22.	2	understanding the material	Interface specification	- lectures - case study -discussions	oral tests -questions
23.	2	understanding the material	Risk management	- lectures - case study -discussions	oral tests -questions
24.	2	understanding the material	Risk management	- lectures - case study -discussions	oral tests -questions

25.	2	understanding the material	Discussion session	- lectures - case study - discussions	oral tests -questions
26.	2	understanding the material	Test		

12. Infrastructure

a. Textbooks	Software Engineering, 6th edition ©Ian Sommerville 2000
b. References	
c. Recommended books and periodicals (journals, reports, etc.)	
d. Electronic references, internet websites, etc	

13. The Plan of Improving the Course

a. Studying labor market needs.
b. Be informed of the experiences of other countries in the field of software engineering.
c. Be informed of research work published in national and international journals in the field of software engineering.