

Faculty of Computers and Information Technology

Software Engineering 1

Information :

Course Code : CSC 251

Level : Undergraduate

Course Hours : 3.00- Hours

Department : Faculty of Computers and Information Technology

Instructor Information :

Title	Name	Office hours
Professor	Ramadan Moawad Mohamed Ahmed	6
Assistant Lecturer	Amr Mansour Mohsen Afifi	6

Area Of Study :

Overview of software engineering, software requirement: requirement engineering processes, system models, software prototyping. Design: architecture design, distributed system architecture, object oriented design, user interface design

Description :

Overview of software engineering, software requirement: requirement engineering processes, system models, software prototyping. Design: architecture design, distributed system architecture, object oriented design, user interface design

Course outcomes :

a. Knowledge and Understanding: :

- 1 - Understand that the engineering discipline is necessary for software development.
- 2 - Understand ethical and professional issues that are important for Software Engineers

b. Intellectual Skills: :

- 1 - Utilize critical thinking in analysis and evaluation of different models and techniques that are used in software development

c. Professional and Practical Skills: :

- 1 - Practice teamwork in developing software project
- 2 - Develop some standard documents used in each stage of the software life cycle.

d. General and Transferable Skills: :

- 1 - Use an effective way for oral and written communication

Course Topic And Contents :

Topic	No. of hours	Lecture	Tutorial / Practical
Professional software development	4	2	2
Software engineering ethics	4	2	2
Software process models	4	2	2

Course Topic And Contents :

Topic	No. of hours	Lecture	Tutorial / Practical
The rational unified process	4	2	2
Agile software development	4	2	2
Extreme programming	4	2	2
Requirement engineering process	4	2	2
Functional and non-functional requirements	4	2	2
The software requirement document	4	2	2
System structural models	4	2	2
System behavioral models	4	2	2
Architectural design views	4	2	2

Teaching And Learning Methodologies :

Lectures
Exercises
Presentation
Open Discussion
Projects
Case Study
Practical training

Course Assessment :

Methods of assessment	Relative weight %	Week No	Assess What
Final Exam	40.00	16	
MidTerm Exam.	20.00	7	
Open Discussion -1	5.00	3	
Open Discussion -2	5.00	10	
Presentation	10.00	14	
Project	20.00	12	