

**Faculty of Computers & Information Technology**

**Software Project Management**

**Information :**

**Course Code :** CST 453

**Level :** Undergraduate

**Course Hours :** 3.00- Hours

**Department :** Department of Computer Science

**Instructor Information :**

Title	Name	Office hours
Lecturer	Amira Mohey El Din Mohamed El Mandouh	1
Lecturer	Amira Mohey El Din Mohamed El Mandouh	1
Teaching Assistant	Nada Emad Abdelsalam Hussien	2
Teaching Assistant	Yousef Samir Allam	
Teaching Assistant	Nada Emad Abdelsalam Hussien	2

**Area Of Study :**

Understand the various techniques for planning and managing a technology project.  
Examine basic methodologies for software design, development, testing and implementation.  
Examine various techniques for managing a software development team.  
Understand the need and techniques for managing users and user expectations.  
Learn project planning techniques through the use of Microsoft Project Management.

**Description :**

Evaluation, selection, and organization of technical projects. Concepts of the network-based project management methodology. Network development. Project planning, scheduling, and control. Project cost management. Resource constrained projects. A case study approach is adopted during the course. Commercial software packages will be used throughout the course. The course will also introduce some contemporary project management subjects such as: e-projects, and Intelligent project management.

**Course outcomes :**

**a.Knowledge and Understanding: :**

1 -	This course is an introduction to the basic principles of managing a software development or maintenance project
2 -	To help understand the steps involved in establishing and managing a software project, we will walk through creating key elements of a project plan.
3 -	Monitoring and controlling the software project throughout its life cycle will be presented
4 -	The course will cover both traditional project management, as well as more iterative methods (the Adaptive Project Framework, using the text's terminology).

**b.Intellectual Skills: :**

1 -	A combination of various teaching and learning methodologies will be implemented in order to maximize students' intellectual abilities and develop their learning capabilities.
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2 -	Up- to- date technology will be applied during the delivery of the course using handouts will be provided to disseminate knowledge among students about the different topics of the subject material.
3 -	Assignments that demand students to find up-to-date knowledge through the use of library, internet and directed supervision will be included to enhance students' skills in using library and other learning resources.

**c. Professional and Practical Skills: :**

1 -	Case studies, work experience, projects, demonstrations, group study, will be implemented through the course in order to develop students' capabilities to use ideas and information.
2 -	To develop students' abilities to generate ideas and evidence, students will be encouraged to participate in research projects to develop the capacity of the students to plan and manage their own learning.

**Course Topic And Contents :**

Topic	No. of hours	Lecture	Tutorial / Practical
Linear SDPM Strategy	3	2	2
Linear SDPM Strategy – Continue	3	2	2
The Linear SDPM Scoping Phase	3	2	2
The Linear SDPM Planning Phase	3	2	2
The Linear SDPM Launching Phase	3	2	2
The Linear SDPM Monitoring and Controlling Phase	3	2	2
Mid-Term I Exam	2	1	2
The Linear SDPM Closing Phase	3	2	2
The Linear SDPM Strategy Summary	3	2	2
Incremental SDPM Strategy	3	2	2
The Incremental SDPM Scoping Phase	3	2	2
Mid-Term II Exam	2	1	2
The Incremental SDPM Launching Phase	3	2	2
The Incremental SDPM Monitoring and Controlling Phase	3	2	2
Revision	3	2	2
Final Exam	3	2	2

**Teaching And Learning Methodologies :**

Lectures
Practical training
Presentation
Projects

**Course Assessment :**

Methods of assessment	Relative weight %	Week No	Assess What
Attendance & Participation	10.00	2	
Final Exam	40.00	15	

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Mid Term Exam I	10.00	7	
Mid Term Exam II	15.00	12	
Presentation	10.00	14	
Project	15.00	14	