# Faculty of Computers and Information Technology

## Software Project Management

### Information :

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| **Course Code :** | CST 453 | **Level** : | Undergraduate | **Course Hours :** | 3.00- Hours |

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| **Department :** | Department of Computer Science |

### Instructor Information :

| Title | Name | Office hours |
|---|---|---|
| Lecturer | Amira Mohey El Din Mohamed El Mandouh | 1 |
| Teaching Assistant | Mayar Sayed Soliman Abdeldayem | |

### 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: :**

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| 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 texts terminology). |

**b.Intellectual Skills: :**

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| 1 - | A combination of various teaching and learning methodologies will be implemented in order to maximize students intellectual abilities and develop their learning capabilities. |
| 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: : | |
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| 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 :**

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

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