Module code: 23CSCI08I	**Title:** Software Project Management	
Level: 5	**Modular weight:** 10	**Programme:** Faculty of Informatics & Computer Science
Module Type: Compulsory		
Prerequisite modules: CSSE01C		
Reassessment: No restriction		
Module leader: Prof. Vladimir Geroimenko		
Semester taught: First Semester		
Language taught and assessed: English		
Date of latest revision: 28th August 2023		

Aims

The aim of the module is to provide an understanding of the methodologies, considerations and issues particular to software projects management. The module provides knowledge and hands-on experience of the techniques practiced and tools used to plan and manage software projects in its different stages. The module further aims to build basic project management skills by highlighting the concepts of team building, organizational behaviour, motivational theories, and of the role of good management in the successful and timely delivery of software projects.

Intended Learning Outcomes
On completion of this module students should be able to:

Knowledge and Understanding
1. Describe key concepts, explain issues particular to such projects, and demonstrate understanding of the role of good management in the success and quality of software projects. [A8].

Subject Specific Cognitive Skills
2. Analyse requirements for a range of systems using appropriate techniques and identify the resources required for a project to produce a work plan and resource activity schedule. [B8].

Subject Specific Practical Skills
3. Monitor and report project progress and assess the risk of slippage, revising targets and/or schedules. [C10].
4. Plan and control timely delivery of quality projects. [C3].
5. Use project management tools to construct, organise, monitor and manage timelines, critical paths and milestones for a project (e.g. MS Project). [C4].

Transferable Skills
6. Develop interpersonal skills through working, communicating, and collaborating in a team on assigned project as well as planning and managing personal time. [D4].

Employability
This module will provide opportunities for students to enhance/enable:

1. Adaptability and flexibility: Understand the importance of adaptability to ensure their ongoing effectiveness in an ever changing environment. [A1]
2. Planning and organisation: Demonstrate effective planning, prioritisation and organisation to plan activities and carry them through effectively. [C2.2]
3. Team working: Demonstrate effective team working by building and developing appropriate relationships with academic staff, peers, colleagues and people within the organisation. [C3.2]
4. Leadership: Demonstrate effective leadership by taking responsibility for the directions and actions of a team and to provide team members with motivation. [C3.3]

Indicative Content

- Part 1: Software Projects and Project Management - a) Distinguishing between software and other types of development projects b) Developing a system specification, and defining the scope of software project management.
- Part 2: Project Management Concepts and Methodologies - a) Project planning and control b) Software effort estimation & estimation techniques c) Activity planning, resource allocation & critical path analysis d) Software quality and control.

Methods of Learning, Teaching and Assessment

Total student effort for the module:100 hours on average over 1 semester/s.

Type of session	Typical Student Effort		
	Typical number in the semester/s	Typical hours per week	Total hours
Lecture	12	2	24
Laboratory	12	2	24
Private study			52

Assessment

Type	Weight %	ILOs Assessed	Exam Semester	Exam/Written Coursework Length	Assessment Nature
Group project	40 %	2-6	First Semester	2000 Words	A technical planning and development group project (4-5 students) assessed by report (90%) (report has group and individual components, with individual components worth 60%) and individual discussion (10%).
Unseen exam	60 %	1-4	First Semester	120 Minutes	

Methods of Feedback

In response to assessed work:

- Generic comments are posted on e-learning where appropriate.
- Written specific feedback is sent to each group and is discussed during sessions dedicate to submissions review.
- Generic feedback for unseen exam on e-learning.

Developmental feedback generated through teaching activities:

- Dialogue between students and staff in workshops and labs.

Indicative Reading List

Core

- Hughes, B. and Cotterell, M. Software Project Management, 5th Edition (2009) or 4th Edition (2006), McGraw Hill, ISBN: 0-07-710989-9.

Further

- The ITtoolbox Project Management Knowledge Base (http://projectmanagement.ittoolbox.com).
- Practical guide lines from the Software Program Manager's Network. (http://www.spmn.com).