

2024 / 25

School of Science and Computing

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**SE
TU**

Ollscoil
Teicneolaíochta
an Oirdheiscirt

South East
Technological
University

Module Descriptor

Project and Change Management (Computing and Mathematics)

Project and Change Management (A13943)

Short Title: Project and Change Management
Department: Computing and Mathematics
Credits: 5

Level: Advanced

Description of Module / Aims

This module aims to provide students with an understanding of project management and change management concepts, tools and techniques. Furthermore, the module will develop students' ability to identify the inherent risks and change management associated with projects and to apply good project management skills.

Programmes

stage/semester/status		
PROJ-0150	Higher Diploma in Science in Business Systems Analysis (WD_KBUSY_G)	1 / 2 / M

Indicative Content

- Nature of projects, project lifecycles and project stages
- Development methodologies: Waterfall; Lean; Kaizen; Agile; Scrum
- Organisational influence on projects and project life cycles
- Role and skills of project managers: Leadership; Resource Allocation; HR Implications
- Project Planning and Estimation
- Project Execution: reporting and communication
- Project Completion and Handover: monitoring and control
- Change Management tools and techniques
- Strategic and Environmental drivers of change
- Understanding and overcoming resistance to change

Learning Outcomes

On successful completion of this module, a student will be able to:

1. Justify systems analysis and design project management skills.
2. Evaluate the risks, issues, and critical success factors associated with systems analysis & design and software development projects.
3. Create a project plan, informed by appropriate industry standards and including scope definition, risk assessment, task breakdown, team selection, estimates, communication mechanisms and progress evaluation and reporting using an appropriate project lifecycle.
4. Manage project planning, estimation, monitoring and control, communication and reporting by employing appropriate software.
5. Critique the role of change management in project management.

Learning and Teaching Methods

- The module will be delivered by lectures, practical computer lab lectures, class discussion, case studies and self-directed learning.

Learning Modes

Learning Type	F/T Hours	P/T Hours
Lecture	24	
Practical	24	
Independent Learning	87	

Assessment Methods

	Weighting	Outcomes Assessed
Continuous Assessment	100%	1,2,3,4,5

Assessment Criteria

<40%: Unable to interpret and describe key concepts that relate to Project and Change Management.

40%–49%: Be able to interpret and describe key concepts that relate to Project and Change Management.

50%–59%: Ability to discuss key concepts that relate to Project and Change Management and ability to discover and integrate related knowledge in other knowledge domains.

60%–69%: Be able to solve problems that relate to Project and Change Management by experimenting with the appropriate skills and tools.

70%–100%: All the above to an excellent level. Be able to analyse and design solutions that relate to Project and Change Management to a high standard for a range of both complex and unforeseen problems through the use and modification of appropriate skills and tools.

Essential Material(s)

- Kerzner, H. *Project Management: A Systems Approach to Planning, Scheduling, and Controlling*. New Jersey: Wiley, 2013.
- Pinto, J.K. *Project Management: Achieving Competitive Advantage*. 3rd ed. New York: Pearson, 2012.
- Project Management Institute. *Managing Change in Organizations: A Practice Guide* Pennsylvania. 2013.

Supplementary Material(s)

- Burke, R. *Project Management Planning and Control Techniques*. 4th ed. Chichester: Wiley, 2003.
- Cadle, J. and D. Yeates. *Project Management for Information Systems*. 5th ed. New York: Pearson, 2007.
- Olson, D. *Introduction to Information Systems: Project Management*. 2nd ed. New York: McGraw-Hill, 2003.
- Spector, B. *Implementing Organisational Change, Theory & Practice*. 3rd ed. New Jersey: Prentice Hall, 2012.

Requested Resources

- Room Type: Computer Lab