



Title:	IT Project Management APPROVED
Long Title:	IT Project Management
Module Code:	COMP7012
Duration:	1 Semester
Credits:	5
NFQ Level:	Intermediate
Field of Study:	Computer Science
Valid From:	Semester 1 - 2017/18 (September 2017)
Module Delivered in	2 programme(s)
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Module Description:	Delivering an Information Technology (IT) solution-of-value to a customer requires the IT professional to employ a number of specific techniques and skills. This module will introduce the learner to essential delivery and control mechanisms typically involved, including: initiation, planning, estimating, scheduling, monitoring, risk management, and status-reporting.
Learning Outcomes	
<i>On successful completion of this module the learner will be able to:</i>	
LO1	Explain the process of project management and its application in delivering an IT solution.
LO2	Organise an IT project into executable and controllable phases and deliverables.
LO3	Develop IT project estimates and schedules.
LO4	Discuss common behaviours that contribute to the effective functioning of a team.
LO5	Describe the different categories, and potential impact of risks typically experienced during IT solutions development and delivery.
Pre-requisite learning	
Incompatible Modules	
<i>These are modules which have learning outcomes that are too similar to the learning outcomes of this module. You may not earn additional credit for the same learning and therefore you may not enrol in this module if you have successfully completed any modules in the incompatible list.</i>	
No incompatible modules listed	
Co-requisite Modules	
No Co-requisite modules listed	
Requirements	
<i>This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed. You may not enrol on this module if you have not acquired the learning specified in this section.</i>	
No requirements listed	
Co-requisites	
No Co Requisites listed	

Module Content & Assessment

Indicative Content

Introduction to Project Management

Examination of the roles played and associated responsibilities, processes employed, activities undertaken and deliverables typically involved in IT solution delivery.

Push and Pull project management frameworks

Strengths and weaknesses; Problem-space influencing factors. Evaluation and selection of appropriate approach, e.g. classical, incremental, agile (DSDM, Scrum).

Effort estimating for IT solutions

Product and work breakdown structures; Examination of a number of effort estimation approaches, e.g. By Analogy, Delphi/Planning Poker, Direct estimation based on breakdown structure, PERT.

IT solution scheduling

Task-set identification; milestone identification; network model representation; timeline modelling.

Risk management

Reactive versus proactive risk management; Risk identification, analysis, planning and monitoring.

Quality concepts

Quality factors; cost of quality, quality control, quality assurance.

Personnel and team issues

Recruitment; motivation; leadership; communication; facilitation.

Assessment Breakdown	%
Course Work	40.00%
End of Module Formal Examination	60.00%

Course Work				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Practical/Skills Evaluation	Lab Practical	3	10.0	Week 8
Written Report	Project Proposal	1,2,3,4,5	30.0	Sem End

End of Module Formal Examination				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Formal Exam	n/a	1,3,4,5	60.0	End-of-Semester

Reassessment Requirement
<p>Repeat examination <i>Reassessment of this module will consist of a repeat examination. It is possible that there will also be a requirement to be reassessed in a coursework element.</i></p>

The institute reserves the right to alter the nature and timings of assessment

Module Workload

Workload: Full Time				
<i>Workload Type</i>	<i>Workload Description</i>	<i>Hours</i>	<i>Frequency</i>	<i>Average Weekly Learner Workload</i>
Lecture	Lecture delivering theory underpinning learning outcomes.	2.0	Every Week	2.00
Lab	Lab to support learning outcomes.	2.0	Every Week	2.00
Independent & Directed Learning (Non-contact)	Independent Study.	3.0	Every Week	3.00
Total Hours				7.00
Total Weekly Learner Workload				7.00
Total Weekly Contact Hours				4.00

Workload: Part Time				
<i>Workload Type</i>	<i>Workload Description</i>	<i>Hours</i>	<i>Frequency</i>	<i>Average Weekly Learner Workload</i>
Lab	Lab to support learning outcomes.	2.0	Every Second Week	1.00
Lecture	Lecture delivering theory underpinning learning outcomes.	2.0	Every Week	2.00
Independent & Directed Learning (Non-contact)	Independent Study	4.0	Every Week	4.00
Total Hours				8.00
Total Weekly Learner Workload				7.00
Total Weekly Contact Hours				3.00

Module Resources

Recommended Book Resources

- Ed Stark 2014, *Agile Project Management QuickStart Guide: A Simplified Beginner's Guide to Agile Project Management*, CreateSpace Independent Publishing Platform [ISBN: 9781502393463]

Supplementary Book Resources

- Sondra Ashmore, Runyan 2014, *Introduction to agile methods*, 1 Ed., Addison-Wesley Professional [ISBN: 9780321929563]
- Chris Sims, Hillary Louise Johnson 2012, *Scrum: A Breathtakingly Brief and Agile Introduction*, Dymaxicon [ISBN: 9781937965044]
- Eric Brechner 2015, *Agile Project Management with Kanban*, Microsoft Press [ISBN: 9780735698956]
- Tom DeMarco, Timothy Lister 2013, *Peopleware: productive projects and teams*, 3 Ed., Addison-Wesley Professional [ISBN: 9780321934116]
- Frederick P. Brooks 1995, *The mythical man-month*, 2 Ed., Addison-Wesley Professional [ISBN: 9780201835953]
- Scott Berkun 2008, *Making things happen*, 1 Ed., O'Reilly Media [ISBN: 9780596517717]
- Andreas Scherer 2011, *Be fast or be gone: Racing the clock with critical chain project management* 1 Ed., Prochain Solutions Inc. [ISBN: 9781934979129]
- Vijay Govindarajan, Chris Trimble 2013, *How Stella saved the farm: A tale about making innovation happen*, 1 Ed., Macmillan [ISBN: 9780230761360]

This module does not have any article/paper resources

Other Resources

- Website: Scrum Alliance *The Scrum Guide*
<http://scrumalliance.org>

Module Delivered in

Programme Code	Programme	Semester	Delivery
CR_KITMN_8	<u>Bachelor of Science (Honours) in IT Management</u>	5	Mandatory
CR_KITSP_7	<u>Bachelor of Science in Information Technology</u>	5	Mandatory