

APPROVED**ARCH8001: Prof. Practice – Management****Module Details**

Module Code:	ARCH8001
Title:	Prof. Practice – Management APPROVED
Long Title:	Prof. Practice – Management
NFQ Level:	Advanced
Valid From:	Semester 1 - 2019/20 (September 2019)
Duration:	1 Semester
Credits:	5
Field of Study:	5810 - Architecture & Urban Environment
Module Delivered in:	2 programme(s)
Module Description:	Practical and effective methods of project management practices for projects in the built environment from inception to completion. The learner will plan, schedule, estimate and produce cash flow projections for a project. Management and coordination of project teams.

Learning Outcomes	
<i>On successful completion of this module the learner will be able to:</i>	
#	Learning Outcome Description
LO1	Evaluate management theory, concepts and principles within a project management context.
LO2	Review organisation structures in a design and construction project environment.
LO3	Develop and analyse project schedules using computer-based software.
LO4	Evaluate appropriate cost planning and cost management techniques on construction projects.
LO5	Review Building Regulations & Control system
Dependencies	
Module Recommendations	
Incompatible Modules	
No incompatible modules listed	
Co-requisite Modules	
No Co-requisite modules listed	
Requirements	
No requirements listed	

Indicative Content	
Project Management theory and concepts The functions of project management, project controls, stakeholder management, scope definition, leadership, motivation and conflict management. Project life cycle; Typical work plan, project stages and industry standard practice for Project Management.	
Professional Practice and Project Organisation The project manager: roles and responsibilities. Professional practice and project organisation types: functional, pure project, and matrix organisation. Quality management within the organisation including ISO standards.	
Project Planning and Analysis Project life-cycle. Planning. Phasing. Resource allocation and leveling. Estimating duration of tasks. Project control: Performance analysis. Critical path analysis and construction logic.	
Fee Management and Project Cost Planning Professional practice fee management and Bid management. Estimating construction project budgets based on elemental cost plans using historical cost data.	
Legislation & Regulations Roles and responsibilities of all team members under Building Control Amendment Regulation (BCAR), Safety, Health and Welfare at Work (Construction) Regulations 2013, Design Risk Assessments (DRA's).	

Module Content & Assessment

Assessment Breakdown	%
Coursework	100.00%

Assessments

Coursework			
Assessment Type	Practical/Skills Evaluation	% of Total Mark	40
Timing	Week 8	Learning Outcomes	3,4
Assessment Description Computerised schedule, cost estimate and cash flow projection for a construction project			
Assessment Type	Written Report	% of Total Mark	60
Timing	Week 12	Learning Outcomes	1,2,4,5
Assessment Description Written report on construction project management			
No End of Module Formal Examination			
Reassessment Requirement			
Coursework Only <i>This module is reassessed solely on the basis of re-submitted coursework. There is no repeat written examination.</i>			

Module Workload

Workload: Full Time					
Workload Type	Contact Type	Workload Description	Frequency	Average Weekly Learner	Hours

				Workload	
Lecture	Contact	Management - lecture	Every Week	3.00	3
Lab	Contact	Project Management	Every Week	1.00	1
Independent & Directed Learning (Non-contact)	Non Contact	Research, development and completion of assignments.	Every Week	3.00	3
				Total Hours	7.00
				Total Weekly Learner Workload	7.00
				Total Weekly Contact Hours	4.00

Workload: Part Time					
Workload Type	Contact Type	Workload Description	Frequency	Average Weekly Learner Workload	Hours
Lecture	Contact	Lecture management	Every Week	2.00	2
Lab	Contact	Project Management	Every Week	1.00	1
Independent & Directed Learning (Non-contact)	Non Contact	Research, development and completion of assignments.	Every Week	4.00	4
				Total Hours	7.00
				Total Weekly Learner Workload	7.00
				Total Weekly Contact Hours	3.00

Module Resources

Recommended Book Resources

Chartered Institute of Building. (2014), Code of Practice for Project Management for Construction and Development (Construction Management), 5th. Wiley-Blackwell, [ISBN: 978-1405103091].

Walker, A. (2015), Project Management in Construction, 6th. Blackwell Science, United Kingdom, [ISBN: 9781118500408].

Samuel J. Jr., Mantel, Jack R. Meredith, Scott M. Shafer, Margaret M. Sutton. (2017), Project Management in Practice, 6th. Wiley, New Jersey, [ISBN: 978-1119385].

Project Management Institute (Corporate Author). (2013), A Guide to the Project Management Body of Knowledge: Pmbok Guide, Fifth. [ISBN: 9781935589679].

Supplementary Book Resources

Moore, D. (2002), Project Management, Blackwell Science, United Kingdom.

Ralph Keeling. (2000), Project Management: An International Perspective, Palgrave, New York, [ISBN: 978-03337776].

Moore, D & Hague, D. (1999), Building Production Management Techniques, Pearson Education Limited, United Kingdom.

Jonathan Sutherland, Diane Canwell. (2004), Key Concepts in Management, Palgrave Macmillan, [ISBN: 978-1-4039-1533-7].

Robbins, St. P., Judge, T.. (2011), Organizational Behavior, Fourteenth. Pearson Education Ltd., [ISBN: 9780138000400].

Supplementary Article/Paper Resources

María Jesús González, Justo García Navarro. (2006), Assessment of the decrease of CO2 emissions in the construction field through the selection of materials: Practical case study of three houses of low environmental impact, Building and Environment, vol. 41 (7), <http://www.sciencedirect.com/science/article/pii/S036013230500140X>

Sergey Lukichev, Marina Romanovich. (2016), The Quality Management System as a Key Factor for Sustainable Development of the Construction Companies, Procedia Engineering, vol. 165, <http://www.sciencedirect.com/science/article/pii/S1877705816342758>

B. Mattonia, C. Guattarib, L. Evangelistib, F. Bisegnaa, P. Gorib, F. Asdrubalib. (2018), Critical review and methodological approach to evaluate the differences among international green building rating tools, Renewable and Sustainable Energy Reviews, vol. 82 (1), <http://www.sciencedirect.com/science/article/pii/S1364032117313643>

Other Resources

Website, Dept. of Housing, Planning and Local Government. Building Regulations & Controls, <https://www.housing.gov.ie/housing/building-standards/building-regulations/building-regulations>

Website, Project Management Institute, <http://www.pmi.org>

Website, Association of Project Managers, <http://www.apm.org.uk>

Website, Health & Safety Authority. (2019), Safety, Health and Welfare at Work (Construction) Regulations 2013, https://www.hsa.ie/eng/Your_Industry/Construction/

Website, Department of Housing and Local Government. (2019), Building Control Amendment Regulations (BCAR), <https://www.housing.gov.ie/housing/building-standards/building-regulations/building-control>

Website, RIAI. The Project Stages, http://www.riai.ie/consumer_services/working_with_an_architect/the_project_stages

Module Delivered in

Programme Code	Programme	Semester	Delivery
CR_CARCT_8	Bachelor of Science (Honours) in Architectural Technology	-1	Mandatory
CR_DINAR_8	Bachelor of Science (Honours) in Interior Architecture	-1	Elective