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QUSU08011 2019 Construction Planning and Programming

Full Title Construction Planning and Programming						
Transcript Title	Transcript Title Construction Planning and Prog					
Status	IB - Uploaded to Banner	Module Code	QUSU08011			
NFQ Level	08	ECTS Credits	05			
Subject Area	QUSU - Quantity Surveying	Attendance	N/A %			
Grading Mode	Numeric/Percentage	Module Duration	Semester - (15 Weeks)			
Start Term	2019 - Full Academic Year 2019-20	End Term	9999 - The End of Time			
Module Leader	Gary McGinty	Department	CENG - Civil Eng. and Construction			

Module Description

This course introduces the learner to the processes and steps involved on the planning and programming of construction projects. The most common forms of programming/scheduling techniques are introduced and considered. Issues relating to resources, budgets and cash flows are discussed and critically analysed. The module will use a mix of theory, worked examples and case studies to illustrate the application of the key principles.

Indicative Syllabus

The Planning Process In Construction

Construction Programmes

Site Layout Planning

Productivity

Construction Method Statements

Estimation of time and cost

Planning/scheduling Techniques (Bar Charts, Linked Bar Charts, Network Analysis, CPM, Precedence Diagrams, Line of Balance, Time Chainage Diagrams, PERT)

Assessing Resources

Project Acceleration

Budgets and Costing

Working Capital and Cash Flow

Interim Valuations

≣	Learning Outcomes On completion of this module the learner will/should be able to;
1.	Demonstrate an understanding of the importance of planning and estimating to both the client and contractor for different construction project types.
2.	Critically analyse the importance of construction planning and demonstrate knowledge of the planning processes involved in construction and the typical programmes used.
3.	Demonstate an applied understanding and knowledge of construction scheduling techniques (Gant Charts, Network Diagrams, Precedence Diagrams, Line of balance, etc). Criticially assess the merits of each of the different methods of construction scheduling.
4.	Apply resource scheduling and allocation techniques to facilitate effective project control
5.	Apply and prepare budgetary and cash flow projections for the effective financial control of projects.

Teaching and Learning Strategies

This module will be delivered using blended learning techniques.

This will include full tme/online lectures (via adobe connect or similar) and work based learning where relevant along with guest lectures and augmented by independent learning and directed learning.

This approach is expected to address student learning needs.

Moodle will be used to upload educational material (i.e. presentations and recordings of online lectures plus supplementary reading material and additional resources).

Moodle will also be further used as a means of assessment, utilising online quizzes, for the uploading of assignments and reports.

This multi-faceted, blended approach of; lectures, workshops and online resources fosters collaborative student learning.

Module Assessment Strategies

Module will be assessed using a combination of end of semester final exam (70%), continuous assessment and course work (30%).

Repeat Assessment Strategies

Repeat Continuous Assessment and/or Final Exam.

Programme Membership
SG_CCONS_K08 201900 Level 8 Honours Degree Add-on in Construction Project Management SG_SCONS_H08 201900 Bachelor of Science (Honours) in Construction Project Management and Applied Technology

Coursework / Continuous Assessment Breakdown

Coursework & Continuous	Assessment	30 %	% End of Semester / Year Formal Exam 70 %				
Coursework Asse	ssment						
Title	Туре	Form	Failed Element	Percent	Week		Outcomes Assessed

		1				4
Continuous Assessment Problems, Case Study, Quiz, Presentation, CA Exam	Continuous Assessment	UNKNOWN	No	30 %	OnGoing	1,2,3,4,5

End of Semester / Year Assessment						
Title	Туре	Form	Failed Element	Percent	Week	Outcomes Assessed
Final Exam Written Exam	Final Exam	UNKNOWN	No	70 %	End of Term	1,2,3,4,5

Full Time Mode Workload						
Туре	Location	Description	Hours	Frequency	Avg Workload	
Lecture	Tiered Classroom	Lecture 3x1 hour	3	Weekly	3.00	
Independent Learning	UNKNOWN	Self Directed Learning	4	Weekly	4.00	

Total Full Time Average Weekly Learner Contact Time 3.00 Hours

Part Time Mode Workload						
Туре	Location	Description	Hours	Frequency	Avg Workload	
Independent Learning	UNKNOWN	Self Directed Learning	5	Weekly	5.00	
Lecture	Distance Learning Suite	Online Lecture	1	Weekly	1.00	
Tutorial	Distance Learning Suite	Tutorial	1	Weekly	1.00	

Total Part Time Average Weekly Learner Contact Time 2.00 Hours

Online Learning Mode Workload					
Туре	Location	Description	Hours	Frequency	Avg Workload
Lecture	Online	online lecture	1	Weekly	1.00
Tutorial	Not Specified	Tutorial	1	Weekly	1.00
Independent Learning	Not Specified	Self Directed Learning	5	Weekly	5.00

Total Online Learning Average Weekly Learner Contact Time 2.00 Hours

Module Resources

Non ISBN Literary Resources
See Booklist
Journal Resources
International Journal of Project Management

N/A

None

Other Resources		
Articles and Case Studies included on Subject Moodle Page		
Journals		
Additional Information		

Required Book List

Cover	Book Details
Modern Construction Internet Market M	Frank, R., (2013). Modern Construction Management Wiley-Blackwell. ISBN 047067217X ISBN-13 9780470672174
Contraction of the second seco	Neale, H., (2015). Construction Planning ICE Publishing. ISBN 0727760572 ISBN-13 9780727760579
Construction planning, programming- and control	Brian, P., (2009). Construction Planning, Programming and Control. Wiley-Blackwell. ISBN 1405183802 ISBN-13 9781405183802
Arctions to Concernent and Schedular Barbard	Andrew, D., (2014). Handbook for Construction Planning and Scheduling . John Wiley & Sons. ISBN 0470670320 ISBN-13 9780470670323

Recommended Book List

Cover	Book Details
	Allport, R., (2011). <i>Planning Major Projects.</i> . Inst of Civil Engineers Pub. ISBN 0727741101 ISBN-13 9780727741103
Planning major projects	
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Administratve Information			
Date Created	30-03-2019		
Module Owner	Gary McGinty		
Date School Approved	21-06-2019		
Module Approver	Trevor McSharry		
Date Academic Council Approved	12-07-2019		