

UNIVERSITI TEKNOLOGI MARA BCM654: PROJECT PLANNING AND CONTROL

Course Name (English)	PROJECT PLANNING AND CONTROL APPROVED				
Course Code	BCM654				
MQF Credit	4				
Course Description	This course introduces to students the scientific approach to the planning, organizing and implementing of construction projects using the appropriate management techniques. Construction Management graduates are expected to carry out managerial roles and the course will be useful to assist them in carrying out their responsibilities diligently and efficiently. The course covers project planning and control, quality control and assurance and site management.				
Transferable Skills	Adaption of various techniques in construction management with appropriate techniques of project planning & control. Knowledgeable in site management planning and monitoring of resources. Managing projects according to by-laws and regulations.				
Teaching Methodologies	Lectures, Tutorial, Presentation, Computer Aided Learning, Project-based Learning				
CLO	 CLO1 Construct project work program through appropriate project planning tools to ensure success of construction projects CLO2 Apply appropriate project planning techniques for timely and cost-effective construction projects CLO3 Recommend solution for construction issues using appropriate project planning and monitoring technique CLO4 Organise information for a successful project management 				
Pre-Requisite Courses	No course recommendations				
Topics	*				
 1.1) The Construction 1.2) Construction Ind 1.3) Construction Pro 1.4) Project Developp 1.5) Project Manager 1.6) 1.7) The Concept of I 1.8) Planning Proces 1.9) Types of plannin 1.10) Planning Tools 1.11) Planning of Coi 1.12) Planning tasks 	ojects ment Process ment Planning is ig activities and Techniques				
2.1) Method Stateme2.2) Definition2.3) Types of Method2.4) Durations of acti	d Statement vities nd Scheduling Techniques				

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 3. Cost and Financial Control for Construction Firms 3.1) (Principles and Computer Application) 3.2) Classification of Construction Costs 3.3) Budgets 3.4) Forecasting Cost and Forecasting Income – Standard 'S' Curve 3.5) Contract Budget for Labour, Plant and Preliminaries Control 3.6) Cash Flow – Cash Flow Diagram, 'S' Curve Presentation of Cash 3.7) Flow requirement, Financial Requirements to Fund Cash Flow, Cash Flow Aggregation for Budgeting 3.8) The Effect of Delayed Payment on the Contractor's Cash Requirements 3.9) Monthly Cost Control Procedures 3.10) Weekly Cost Control system
 4. Resource Management 4.1) Types of Construction Resources 4.2) Distribution of Resources 4.3) Resource Levelling and allocations 4.4) Managing of Labour 4.5) Managing of Materials 4.6) Managing of Plant and Equipments 4.7) Resource Productivity Control
5. Quality Control and Assurance 5.1) Introduction 5.2) Definition of Quality 5.3) Importance of Quality 5.4) Quality of Conformance 5.5) Inspection 5.6) Quality Control Process
 6. Site Management 6.1) Project Award 6.2) Site Layout 6.3) Site establishment, preliminaries and mobilisation 6.4) Temporary buildings 6.5) Workers huts and welfares 6.6) Related By-Laws and other statutory requirements 6.7) Economics and efficiency of layouts 6.8) Manufacturing, handling and storage of materials 6.9) Approval of 'PMA' for lifting equipment 6.10) Short-term planning on site 6.11) Site Management & Administration 6.12) Site office routine, office procedures, clerical functions, storage and retrieval of information 6.13) Insurances, Bonds and Guarantees 6.14) Acquisition of materials and plant 6.15) Payment of wages and other expenses 6.16) Communication on site 6.17) Sub-Contractors and Nominated Sub-Contractors 6.18) Definitions of sub-contractors and procedures 6.20) Selection of gangers and workers 6.21) Administer sub-contract work in accordance with the relevant contractual arrangements 6.22) Coordination, supervision and control of sub-contractors and suppliers 6.23) Provide appropriate information to assist in the preparation of claims 6.24) Valuations and Claims 6.27) Progress claims 6.28) Format used for claims
 7. Site safety, By-Laws & Regulations 7.1) OSHA, By-Laws and other statutory requirements such as CIDB Greencard requirements 7.2) By-Laws and Regulations 7.3) The various statutory regulations, by-laws and local authority requirements affecting the site and its activities eg. Nuisances, 7.4) noise, cleanliness, safety, public rights, protection of property etc. 7.5) Procedures for obtaining licenses, permits or approval of works and activities. 7.6) Motivate and Develop Site Personnel 7.7) Personal conflicts 7.8) Trust and support of immediate superiors 7.9) Is money is the only motivator? 7.10) Relationships with colleagues and others who provide useful information 7.11) Organisational and personal development 7.12) Develop oneself within the job role

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Assessment Breakdown	%
Continuous Assessment	40.00%
Final Assessment	60.00%

Details of		1			
Continuous Assessment	Assessment Type	Assessment Description	% of Total Mark	CLO	
	Assignment	n/a	10%	CLO4	
	Simulation Evaluation	n/a	20%	CLO1	
	Test	n/a	10%	CLO2	
Reading List	Resources manag Richard Oxford Pilcher Edition Harris, Manag Tan, A. Oxley, Constr Calvert Edition	nayder, C. J. & Mayo, R. E. 20 ement fundamentals, Boston d, F. 2002, Construction mana : Blackwell Science ; R. 2000, Principles of Const , McGraw Hill F. & Mc Caffer, R. 2001, Mod ement 5th Edition, Oxford: Bl 1996, Project Management in K. 1996, Management Techni uction Industry 5th Edition, E t, R. E. 1993, Introduction to B , Butter-worth - Heinemann er, K. 1991, Critical Path Anal ck Techniques 5th Edition, Pit	, Mass.: McGraw-H agement in practice truction Manageme ern Construction ackwell Science n Malaysia, Synerg iques Applied to th Blackwell Science Building Manageme ysis & Other Projec	e, ent 3rd y Books e ent 6th	
Article/Paper List	This Course does not have any article/paper resources				
Other References	This Course does not have any other resources				