

Multidisciplinary Project

Module Information

2022.01, Approved

Summary Information

Module Code	5505ICBTCE
Formal Module Title	Multidisciplinary Project
Owning School	Civil Engineering and Built Environment
Career	Undergraduate
Credits	10
Academic level	FHEQ Level 5
Grading Schema	40

Teaching Responsibility

LJMU Schools involved in Delivery
LJMU Partner Taught

Partner Teaching Institution

Institution Name
International College of Business and Technology

Learning Methods

Learning Method Type	Hours
Lecture	30
Workshop	15

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
JAN-PAR	PAR	January	12 Weeks

Aims and Outcomes

Aims	This unit provides learners with an understanding of the principles and application of project management in civil engineering. Learners will also gain an understanding of tendering and procurement techniques applied to civil engineering projects.
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After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Practice of project management for complex civil engineering projects
MLO2	2	Demonstrate an understanding of the relationship between project managers and clients for civil engineering projects
MLO3	3	Demonstrate an understanding and apply tendering and procurement procedures for civil engineering projects
MLO4	4	Produce a site layout plan for a medium sized construction project.
MLO5	5	Prepare Health & Safety documentation for construction projects.
MLO6	6	Produce construction programmes and cash flow diagrams for a medium sized construction project.
MLO7	7	Work professionally in a team environment and Communicate orally in a professional manner.
MLO8	8	Communicate effectively and professionally through the written word.

Module Content

Outline Syllabus	<p>Project management: definition, historical developments, advantages and disadvantages in practice, review of current literature, research information</p> <p>Role of project manager: development of project plan, management of project, e.g. project stakeholders, project team, project risk, project schedule, project budget, any issues and conflicts that may arise. Higher quality, e.g. improving standards, achieving quality in building, getting it right first time, best practice</p> <p>Education training and standards: job requirements, person profile, occupational standards, continuing professional development</p> <p>Duties and responsibilities of project managers: understanding the client brief, appointing the design team, working with the production team, reports and recommendations</p> <p>Contractual relationships: coordination and control, project management, responsibilities, e.g. duties, authority, accountability, fees</p> <p>Client objectives: on time, within budget, high performance, quality outcome</p> <p>Clients: government, private and commercial</p> <p>Tender constraints: client objectives and constraints, financial, design influences</p> <p>Contract documentation: bills of quantities, drawings, specifications, conditions of contract, information provided (nature, source, validity), collection of additional data</p> <p>Tendering stages: decision to tender, considerations, tender preparation, strategy and arrangements, stages in open and select tendering, procedures</p> <p>Contractors invited to tender: 'select list' of contractors, factors involving placement on select list, e.g. quality of workmanship, capacity to carry out the work, ability to work to required deadlines, value for money, prior performance on similar projects</p> <p>Contractual arrangements: types of contract, e.g. forms and agreements, terms and conditions, schedule of rates, lump sum, design and build, legal responsibilities</p> <p>Pre-tender and Pre-contract planning including site layout planning. Method statements and sequencing studies. Health & Safety method statements and risk assessments. Production and analysis of precedence diagrams. Production of bar charts using contract programming computer software.</p> <p>Short term programming and monitoring of work progress. Use of the construction programme as a control mechanism for labour, materials, plant and subcontractors. Cashflow forecasting for construction projects. Manpower planning issues in construction.</p>
Module Overview	
Additional Information	

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Report	Investigative Report	30	0	MLO1, MLO2, MLO3, MLO4, MLO5, MLO7, MLO8
Report	Project Based Learning	70	0	MLO1, MLO2, MLO3, MLO4, MLO5, MLO6, MLO7, MLO8

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Alison Cotgrave	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings
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