Multidisciplinary Project

Module Information

2022.01, Approved

Summary Information

Module Code	5510ICBTCE
Formal Module Title	Multidisciplinary Project
Owning School	Civil Engineering and Built Environment
Career	Undergraduate
Credits	15
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
APR-PAR	PAR	April	12 Weeks
JAN-PAR	PAR	January	12 Weeks

SEP_NS-PAR	PAR	September (Non-standard start date)	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.

After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Practice project management and understand the relationship between project managers and clients in complex civil engineering projects.
MLO2	2	Apply tendering and procurement procedures for civil engineering projects by producing construction programmes and cash flow diagrams for a medium sized construction project.
MLO3	3	Produce a site layout plan and prepare Health & Safety documentation for a medium sized construction project.
MLO4	4	Work professionally in a team environment and communicate effectively and professionally through written documentation and oral presentation.

Module Content

Outline Syllabus	Project management: definition, historical developments, advantages and disadvantages in practice, review of current literature, research informationRole 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 practiceEducation training and standards: job requirements, person profile, occupational standards, continuing professional developmentDuties and responsibilities of project managers: understanding the client brief, appointing the design team, working with the production team, reports and recommendationsContractual relationships: coordination and control, project management, responsibilities, e.g. duties, authority, accountability, feesClient objectives: on time, within budget, high performance, quality outcomeClients: government, private and commercialTender constraints: client objectives and constraints, financial, design influencesContract documentation: bills of quantities, drawings, specifications, conditions of contract, information provided (nature, source, validity), collection of additional dataTendering stages: decision to tender, considerations, tender preparation, strategy and arrangements, stages in open and select tendering, proceduresContractors 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 projectsContractual arrangements: types of contract, e.g. forms and agreements, terms and conditions, schedule of rates, lump sum, design and build, legal responsibilitiesPre-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.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.
Module Overview	
Additional Information	

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Portfolio	Portfolio of material	50	0	MLO2, MLO3
Portfolio	Report	40	0	MLO1, MLO3, MLO4
Presentation	Presentation	10	0	MLO1, MLO3, MLO4

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Karl Jones	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings