Work Based Learning Structures

Module Information

2022.01, Approved

Summary Information

Module Code	6204CIV
Formal Module Title	Work Based Learning Structures
Owning School	Civil Engineering and Built Environment
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 6
Grading Schema	40

Teaching Responsibility

LJMU Schools involved in Delivery
Civil Engineering and Built Environment

Learning Methods

Learning Method Type	Hours
Lecture	5
Seminar	6

Module Offering(s)

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

Aims and Outcomes

Aims	This module develops student knowledge and understanding of the Civil Engineering Profession by making use of the opportunities available within the workplace. Structures and Risk Management are the major themes of this module.

After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Critically analyse the design process and apply it to complex structural elements using a variety of building materials and under different environmental and loading conditions.
MLO2	2	Produce and critically review safe and economical design in accordance with the current codes of practice.
MLO3	3	Design more advanced structural elements
MLO4	4	Apply knowledge and understanding of risk issues to engineering design, and critically evaluate current practices of risk management
MLO5	5	Exercise initiative, personal responsibility and leadership skills as a member of a design team, and critically evaluate the success of team working.

Module Content

Outline Syllabus	Reflection and report on learning through work in the Civil Engineering Profession. The work (supplemented by CPD) must include the following:• Design in a collaborative context • Reinforced concrete work to EC2: Frame analysis-design and detailing, design of; ribbed floor slabs. Pre-stressed concrete; Pre-tensioned and post-tensioned flexural members, losses of pre-stress force.•Use of Structural Design software•Health and safety management•Programming, resource implications, time cost applications and project acceleration, financial risks•Risk management strategy: hazard and risk, definitions and interpretation, strategic risks, political and business implications of risks, understanding the management strategy;•Current practices of risk management: what it is; why it is used; how it is applied; when it should be undertaken; and who should be responsible for it, including the deployment of appropriate practices and procedures for the effective management of risk in construction•Risk perception and identification, risk analysis and assessment, qualitative assessment, quantitative assessment, risk outcomes
Module Overview	
Additional Information	This module is links to direct work experience, gained on projects in the work place. In order to choose this option, a student will need the support of a Civil Engineer who will act as their work place mentor and sufficient time at their place of work to achieve the learning outcomes. Assuming that no more than half the time at work will support the learning outcomes, this would approximate to 10 weeks' work at level 6.All work based learning needs to be assessed and approved prior to commencement in line with the LJMU Placement Learning Code of Practice.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Report	REPORT (APPROX. 4500 WORDS)	100	0	MLO1, MLO2, MLO3, MLO4, MLO5

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings

Felicite Ruddock	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings