Module Proforma

Approved, 2022.02

Summary Information

Module Code	4334BEUG
Formal Module Title	Professional and Digital Skills for Engineers
Owning School	Civil Engineering and Built Environment
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 4
Grading Schema	40

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Muhammad Ahmad	Yes	N/A

Module Team Member

Contact Name	Applies to all offerings	Offerings
Jeffrey Cullen	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings

Teaching Responsibility

LJMU Schools involved in Delivery
Civil Engineering and Built Environment

Learning Methods

Learning Method Type	Hours
Online	11
Workshop	33

Module Offering(s)

Offering Code	Location	Start Month	Duration
SEP-CTY	CTY	September	12 Weeks

Aims and Outcomes

Aims	1. Introduce software that can be used for professional engineering design and simulation. 2. Introduce professional behaviour requirements for engineers 3. Introduce academic and digital literacy skills necessary for further study

Learning Outcomes

After completing the module the student should be able to:

Code	Description
MLO1	Develop skills and knowledge in the use of professional software for design
MLO2	Generate simulation outputs based upon designed buildings/structures
MLO3	Apply professional and ethical conduct to design, demonstrating knowledge of the professional codes of conduct.
MLO4	Identify and reflect upon the following aspects of self-awareness in respect of personal development and career planning: strengths and weaknesses, motivations and values, ability to work with others.

Module Content

Outline Syllabus
Professional software packages for design, modelling and simulation of building services Coordination of Engineering Services and Construction Features Introduction to Professional bodies, Professional code of conduct and ethics Academic Support (report writing and referencing, research skills)

Module Overview
This module introduces the software used for professional engineering design, modelling and simulation in the building industry. It also introduces the professional behaviour requirements for engineers alongside the academic and digital literacy skills necessary for further study.

Additional Information
Workshops in a PC-Lab On the Building Services Engineering Degree Apprenticeship programme, the knowledge learning outcomes are K2, K3, the skills learning outcomes is S1 and the behaviours learning outcome is B2.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Learning Outcome Mapping
Centralised Exam	PORTFOLIO of software outputs	90	0	MLO4, MLO1, MLO2, MLO3
Future Focus e-learning task	Report	10	0	MLO4