

Professional Practice

Module Information

2022.01, Approved

Summary Information

Module Code	7401ELE
Formal Module Title	Professional Practice
Owning School	Engineering
Career	Postgraduate Taught
Credits	20
Academic level	FHEQ Level 7
Grading Schema	50

Teaching Responsibility

LJMU Schools involved in Delivery
Engineering

Learning Methods

Learning Method Type	Hours
Lecture	11
Seminar	33

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
SEP-CTY	CTY	September	12 Weeks

Aims and Outcomes

Aims	To develop research skills and technical communication skills and awareness of the legal and ethical framework surrounding the activities of a professional engineer, including: personnel, health, safety, and risk (including environmental risk) issues.
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After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Critically appraise research, information and evidence and effectively and logically communicate findings in written form
MLO2	2	Demonstrate awareness of the legal framework (UK and EU) within which professional engineers work
MLO3	3	Demonstrate awareness of the processes of risk assessment in engineering activities
MLO4	4	Demonstrate understanding of the professional, ethical and moral responsibilities of a professional engineer
MLO5	5	Demonstrate comprehensive of the importance of CPD

Module Content

Outline Syllabus	Introduction to literature search methods, technical writing and speaking.Literature critique.Project planning, Time management, Gantt charts.Legal framework: English and EU law, contract law, non-contractual law, intellectualproperty and patent law, and environmental law.Health and safety, assessment and management of risk in complex engineering systems.Professional ethics, codes of conduct and moral responsibility.Data security and appropriate handling of data.CPD, tracking systems and activity.
Module Overview	
Additional Information	General NotesThis M level module provides a valuable opportunity for engineering graduates to acquire the necessary skills and training to conduct research at postgraduate level, and to develop their professional conduct.UNESCO Sustainable Development Goals1. Quality Education2. Gender Equality3. Industry, Innovation and Infrastructure4. Peace, Justice and Strong Institutions5. Partnerships for the GoalsUK SPEC AHEP 4CEng. M9 Use a risk management process to identify, evaluate and mitigate risks (the effects of uncertainty) associated with a particular project or activity.M10 Adopt a holistic and proportionate approach to the mitigation of security risks.M11 Adopt an inclusive approach to engineering practice and recognise the responsibilities, benefits and importance of supporting equality, diversity and inclusion.M15 Apply knowledge of engineering management principles, commercial context, project and change management, and relevant legal matters including intellectual property rights.M18 Plan and record self-learning and development as the foundation for lifelong learning/CPD.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Report	Portfolio of work	100	0	MLO1, MLO2, MLO3, MLO4, MLO5

Module Contacts