

Liverpool John Moores University

Title: PROFESSIONAL PRACTICE
Status: Definitive
Code: **7021ENG** (105392)
Version Start Date: 01-08-2016

Owning School/Faculty: Electronics and Electrical Engineering
Teaching School/Faculty: Electronics and Electrical Engineering

Team	Leader
Karl Jones	Y

Academic Level: FHEQ7 **Credit Value:** 10 **Total Delivered Hours:** 24
Total Learning Hours: 100 **Private Study:** 76

Delivery Options

Course typically offered: Semester 1

Component	Contact Hours
Lecture	12
Seminar	12

Grading Basis: 50 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Essay	AS1	Literature search & Research critique	25	
Essay	AS2	Review of regulatory literature	25	
Essay	AS3	Case study	25	
Essay	AS4		25	

Aims

To develop research 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.

Learning Outcomes

After completing the module the student should be able to:

- 1 Critically appraise research, information and evidence and effectively and logically communicate findings in written form
- 2 Design experimental methods and undertake evaluative analysis of results
- 3 Demonstrate awareness of the legal framework (UK and EU) within which professional engineers work
- 4 Demonstrate awareness of the processes of risk assessment in engineering activities
- 5 Demonstrate understanding of the professional, ethical and moral responsibilities of a professional engineer

Learning Outcomes of Assessments

The assessment item list is assessed via the learning outcomes listed:

Literature search & Research	1	
Experimental Methods	2	
Review of regulatory lit.	3	4
Ethics case study(ies)	4	5

Outline Syllabus

Introduction to search methods, technical writing and speaking.

Project planning, Time management, Gantt charts.

Developments and trends in company organisations and management

Legal framework: English and EU law, contract law, non-contractual law, intellectual property 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. Corporate Social Responsibility

Learning Activities

Lectures supported by handouts. Seminar sessions will review and discuss a variety of ethical case studies. An individual student report is required for each coursework.

Notes

This level 7 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.