

#### Summary Information

Module Code	7109MECH
Formal Module Title	Offshore Engineering
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	22
Tutorial	22

#### Module Offering(s)

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

#### Aims and Outcomes

Aims	To provide advanced understanding of offshore installation types and knowledge of offshore installations from an operational and safety aspect.
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**After completing the module the student should be able to:**

## Learning Outcomes

Code	Number	Description
MLO1	1	Demonstrate the application of offshore installation and offshore installation types.
MLO2	2	Demonstrate the principles of engineering plants' application and requirements in offshore installations.
MLO3	3	Evaluate the changes in the global oil and gas markets and understand the impact on the industry.
MLO4	4	Understand the environmental loads experienced by an offshore structure.

## Module Content

Outline Syllabus	Introduction to the offshore oil and gas industry. General engineering knowledge of offshore installations and the application of installations. Engineering plant and systems required to support the activities of an offshore installation. Drilling Well structure, well drive mechanisms and injection methods. Oil production and processing. Gas production and processing. Environmental factors and environmental loading.
Module Overview	The aim of the module is to provide advanced understanding of offshore installation types and knowledge of offshore installations from an operational and safety aspect.
Additional Information	The module is designed to provide advanced understanding of various offshore installation types and the engineering plants required to operate these installations.

## Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Centralised Exam	Exam	70	2	MLO1, MLO2
Portfolio	Portfolio	30	0	MLO3, MLO4

## Module Contacts

### Module Leader

Contact Name	Applies to all offerings	Offerings
Milad Armin	Yes	N/A

### Partner Module Team

Contact Name	Applies to all offerings	Offerings
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