Liverpool John Moores University

Title:	Offshore Engineering
Status:	Definitive
Code:	7119ENG (120102)
Version Start Date:	01-08-2019
Owning School/Faculty: Teaching School/Faculty:	Maritime and Mechanical Engineering Maritime and Mechanical Engineering

Team	Leader
Musa Bashir	Y

Academic Level:	FHEQ7	Credit Value:	20	Total Delivered Hours:	38
Total Learning Hours:	200	Private Study:	162		

Delivery Options

Course typically offered: Runs Twice - S1 & S2

Component	Contact Hours
Lecture	24
Tutorial	12

Grading Basis: 50 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	AS2	Exam	70	2
Portfolio	AS1	Portfolio	30	

Aims

To provide advanced understanding of offshore installation types and knowledge of offshore installations from an operational and safety aspect.

Learning Outcomes

After completing the module the student should be able to:

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

Learning Outcomes of Assessments

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

Exam	1	2
Portfolio	3	4

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.

Learning Activities

Formal lectures, Tutorials, Videotapes.

Notes

The module is designed to provide advanced understanding of various offshore installation types and the engineering plants required to operate these installations.