

## **OIL AND GAS STRUCTURAL ENGINEERING (ONLINE) (MSc/PgDip/PgCert)**

**63H210B1/63H210VX/63H210VZ**

*Duration:* The total study time for the complete programme shall be not less than three academic years and not more than six academic years. The programme is entirely studies by distance learning, with delivery by the internet, via the University's website.

*Content:* The aims of the programme are to provide education and training at postgraduate level for students employed, or who wish to be employed, in the Oil and Gas industry as Structural Engineers. It aims to improve the work performance of the students by increasing their knowledge and understanding of the many topics that make up Structural Engineering in this industrial sector.

There are no optional courses on the programme. Candidates shall be required to do the following courses:

### Year 1

- EG501N Design of Connections (15 credit points)
- EG501Z Structural Dynamics (15 credit points)
- EG551X Fatigue and Fracture Mechanics (15 credit points)
- EG551S Conceptual Design of Topsides Modules (15 credit points)

### Year 2

- EG502C Blast and Fire Resistant Structures (15 credit points)
- EG5098 Brownfield Structural Engineering (15 credit points)
- EG5595 Petrochemical Structural Engineering (15 credit points)
- EG5596 Finite Element Methods (15 credit points)

### Year 3

- EG501A Conceptual Design of Jackets and Subsea Structures (15 credit points)
- EG501B Design of Stiffened Plates (15 credit points)
- EG551A Re-assessment of Existing Structures by Structural Reliability Analysis (15 credit points)
- EG551B Design of Jacket Attachments (15 credit points)

*Assessment:* By a combination of written examination and course work, as prescribed for each course.

Three possible awards can be achieved on this programme. The Certificate in Oil and Gas Structural Engineering shall be awarded to those candidates who achieve at least 60 credit points but less than 120 credit points on the programme. The Diploma in Oil and Gas Structural Engineering shall be awarded to candidates who achieve at least 120 credit points but less than 180. The MSc in Oil and Gas Structural Engineering shall be awarded to candidates who achieve all 180 credit points of the Programme. The Certificate and Diploma will be awarded to students who meet who meet the credit point criteria in the following situations:

- (a) Students who have chosen to enrol on less than the full programme, perhaps as CPD training.
- (b) Students who may have embarked on the full programme but who wish to leave it before completing the MSc.
- (c) Students who are not permitted to progress from one year to the next.
- (d) Students who have reached the maximum 6 years of study allowed in the Regulations without completing all courses.