ADVANCED STRUCTURAL ENGINEERING (ONLINE - JANUARY START - PART TIME) (MSc/PgDip/PgCert)

63UH21B1/63UH21VX/63UH21VZ

Duration: MSc 27 months part-time; PgDip 24 months part-time; PgCert 12 months part-time

Content: Content: This programme emphasises the application of advanced techniques and packages to solve complex engineering problems. It offers students a broad range of subjects across the structural engineering disciplines in order to work in various industrial sectors.

Candidates shall be required to attend the following designated programme of courses:

Year 1

EG555T	Mathematical Optimisation (15 credit points)
EG556R	Lightweight Structures (15 credit points)
EG505F	Structural Vibrations (15 credit points)
EM501A	Advanced Composite Materials (15 credit points)

Year 2

Two from the following:

EG556E	Finite Element Methods (15 credit points)
EG55G9	Riser Systems and Hydrodynamics (15 credit points)
EG55Q2	Engineering Risk and Reliability Analysis (15 credit points)

Plus two from the following:

EG501G	Fire and Explosion Engineering (15 credit points)
EG503G	Computational Fluid Dynamics (15 credit points)
EA50JH	Offshore Structural Design (15 credit points)

Year 3

EG555N MSc Individual Project (60 credit points)

Assessment: By a combination of written examination and course work as prescribed for each course. In addition MSc candidates must submit a dissertation on their individual project, and may be required to undergo an oral examination. The Degree of MSc shall not be awarded to a candidate who fails to achieve a CGS Grade of D3 or above in the individual project, irrespective of their performance in other courses.