

## **SAFETY & RELIABILITY ENGINEERING (MSc/PgDip/PgCert)**

57H1SRB1/61H1SRVX /62H1SRVZ

*Duration:* 12 months full time (MSc) & 24 months part time (MSc)

*Content:* The aim of the programme is to provide an opportunity for graduate engineers to develop a career in the general area of safety and reliability engineering and risk management.

Full-time students will be required to undertake a project commencing in May and to submit their work in September. Students will, where possible, undertake this while on an industrial placement. The subject for a student's dissertation will be chosen following discussion between staff and the student and in the light of placement availability. Part-time students will carry out a project during their final year of study.

### **FULL TIME ROUTE**

#### Stage 1

EG50S2 Safety and Risk Management (15 credit points)  
EG5060 Statistics and Probability for Safety, Reliability & Quality (15 credit points)  
EG5071 Fire and Explosion Engineering (15 credit points)  
EG50F8 Subsea Integrity (15 credit points)

#### Stage 2

EG5511 Advanced Methods for Risk and Reliability Assessment (15 credit points)  
EG5558 Applied Risk Analysis and Management (15 credit points)  
EG55P8 Process Design, Layout & Materials (15 credit points)  
EG55P9 Human Factors Engineering (15 credit points)

#### Stage 3

EG5906 Safety Engineering Individual Project (60 credit points)

### **PART TIME ROUTE**

#### Year 1

EG50S2 Safety and Risk Management (15 credit points)  
EG50F8 Subsea Integrity (15 credit points)  
EG55P9 Human Factors Engineering (15 credit points)  
EG5558 Applied Risk Analysis and Management (15 credit points)

#### Year 2

EG5071 Fire and Explosion Engineering (15 credit points)  
EG5060 Statistics and Probability for Safety, Reliability & Quality (15 credit points)  
EG5511 Advanced Methods for Risk and Reliability Assessment (15 credit points)  
EG55P8 Process Design, Layout & Materials (15 credit points)  
EG5906 Safety Engineering Individual Project (60 credit points) (this course continues into Year 3)

#### Year 3

EG5906 Safety Engineering Individual Project (60 credit points)

*Assessment:* By written examination and course work as prescribed for each course. In addition, MSc candidates must submit a dissertation 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.