

ADVANCED CHEMICAL ENGINEERING (MSc/PgDip/PgCert)

57H810B1/61H810VX/62H810VZ

Duration: MSc 12 months full-time; PgDip 9 months full-time; PgCert 4 months full-time

Content:

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

Stage 1

EG502Y Separation and Product Purification (15 credit points)

EX501U Air & Water Pollution Control (15 credits)

Plus two from the following:

EG501V Computational Fluid Dynamics (15 credit points)

EG5099 Upstream Oil and Gas Processing (15 credit points)

EG50S1 Safety & Risk Management (15 credit points)

EG50T4 Process Risk Identification and Management (15 credit points)

EG50T5 Loss of Containment (15 credit points)

Stage 2

EG552Q Catalyst and Reactor Design (15 credit points)

EG55P8 Process Design Layout and Materials (15 credit points)

Plus two from the following:

EG55P7 Process Plant, Equipment and Operations (15 credit points)

EG551T Mathematical Operations (15 credit points)

EG5558 Applied Risk Analysis and Management (15 credit points) (can only be selected if EG50T4 has been chosen)

EG55P9 Human factors Engineering (15 credit points)

Stage 3

EG5915 Individual Project in Advanced Chemical Engineering (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.