

**ADVANCED MECHANICAL ENGINEERING (ON-CAMPUS) (SEPTEMBER START)
(MSc/PgDip/PgCert)**

57H300B1/61H300VX/62H300VZ

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

The course can be studied full-time on campus

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 mechanical engineering disciplines in order to work in various industrial sector

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

Stage 1

PD5006 Getting Started at the University of Aberdeen (0 credit points)
EM501Q Advanced Composite Materials (15 credit points)
EG501V Computational Fluid Dynamics (15 credit points)

Plus two from the following:

EG5067 Project Management (15 credit points)
EG5071 Fire and Explosion (15 credit points)
EG50T9 Structural Vibrations (15 credit points)

Stage 2

EG551T Mathematical Optimisation (15 credit points)
EG55M1 Finite Element Methods (15 credit points)
EG55P6 Engineering Risk and Reliability Analysis (15 credit points)

Plus one from the following:

EG55F9 Riser Systems and Hydrodynamics (15 credit points)
EG552U Marine and Wind Energy (15 credit points)

Stage 3

EG59F1 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.