

## Mechanical & Aerospace Engineering – Exchange Student Class Information

### Class Syllabuses 2022/23

(R) = Registrar in charge of class.

Past exams papers (hard and electronic copies) can be found in the University Library.

Module Description Forms contain comprehensive up-to-date information on all classes including assessment procedures and can be found on the Departmental website at [Module Descriptors](#) under “Further Information”.

### 1<sup>st</sup> YEAR CLASSES

#### **16110 Energy and the Environment – 5 ECTS**

Semester 1: Dr William Dempster (R)

[william.dempster@strath.ac.uk](mailto:william.dempster@strath.ac.uk)

### 2<sup>nd</sup> YEAR CLASSES

#### **16231 (\*ME207, ME213) Flight and Spaceflight – 5 ECTS**

Semester 1 and 2: TBC

[mae-y2-adviser@strath.ac.uk](mailto:mae-y2-adviser@strath.ac.uk)

\*NB: Alternative codes for exchange students: ME207 Sem 1, ME213 Sem 2 (2.5 ECTS)

#### **16232 Engineering Mechanics 2 - 10 ECTS**

Semester 1 and 2: Dr Robert Hamilton (R)

[r.hamilton@strath.ac.uk](mailto:r.hamilton@strath.ac.uk)

#### **16259 Aero-Design 1 - 5 ECTS**

Semester 2: TBC

[mae-y2-adviser@strath.ac.uk](mailto:mae-y2-adviser@strath.ac.uk)

#### **16263 (\*ME215, ME216) Automotive Systems 1 – 5 ECTS**

Semester 1 and 2: Mr Cameron Johnstone (R)

[cameron.johnstone@strath.ac.uk](mailto:cameron.johnstone@strath.ac.uk)

\*NB: Alternative codes for exchange students: ME215 Sem 1, ME216 Sem 2 (2.5 ECTS)

#### **16288 Professional Studies – 5 ECTS**

Semester 2: Dr Ross Minty (R)

[ross.f.minty@strath.ac.uk](mailto:ross.f.minty@strath.ac.uk)

#### **16293 Environmental Engineering Science 1 – 5 ECTS**

Semester 1: Dr Daniel Cóstola (R)

[daniel.costola@strath.ac.uk](mailto:daniel.costola@strath.ac.uk)

#### **16294 Energy Systems 1 – 5 ECTS**

Semester 1 and 2: Mr Cameron Johnstone (R)

[cameron.johnstone@strath.ac.uk](mailto:cameron.johnstone@strath.ac.uk)

\*NB: Alternative codes for exchange students: ME218 Sem 1, ME219 Sem 2 (2.5 ECTS)

#### **ME203 (\*ME204, ME205) Heat and Flow 2 - 10 ECTS**

Semester 1 and 2: Dr Monica Oliveira (R)

[monica.oliveira@strath.ac.uk](mailto:monica.oliveira@strath.ac.uk)

\*NB: Alternative codes for exchange students: ME204 Sem 2, ME205 Sem 1 (5 ECTS)

#### **ME209 Mathematical Modelling and Analysis - 10 ECTS**

Semester 1 and 2: Dr Haofeng Chen (R)

[haofeng.chen@strath.ac.uk](mailto:haofeng.chen@strath.ac.uk)

#### **ME212 Materials Engineering and Design – 5 ECTS**

Semester 1 and 2: Dr Andrew McLaren

[andrew.mclaren@strath.ac.uk](mailto:andrew.mclaren@strath.ac.uk)

### **3<sup>rd</sup> YEAR CLASSES**

#### **16327 Structural Mechanics – 5 ECTS**

Semester 1: Dr Marcus Wheel (R) [marcus.wheel@strath.ac.uk](mailto:marcus.wheel@strath.ac.uk)

#### **16361 (\*ME305, 16318) Dynamics & Control – 10 ECTS**

Semester 1 and 2: Dr Christie Maddock (R) [christie.maddock@strath.ac.uk](mailto:christie.maddock@strath.ac.uk)

\*NB: Alternative codes for exchange students: ME305 Sem 1, 16318 Sem 2 (5 ECTS)

#### **16363 (\*16366, 16367) Engineering Analysis 3 - 10 ECTS**

Semester 1 and 2: Dr Marco Fossati (R) [marco.fossati@strath.ac.uk](mailto:marco.fossati@strath.ac.uk)

\*NB: Alternative codes for exchange students: 16366 Sem 1, 16367 Sem 2 (5 ECTS)

#### **ME301 (\*ME302, ME303) Heat and Flow 3 - 10 ECTS**

Semester 1 and 2: Gemma Houston [gemma.houston@strath.ac.uk](mailto:gemma.houston@strath.ac.uk)

\*NB: Alternative codes for exchange students: ME302 Sem 1, ME303 Sem 2 (5 ECTS)

### **4<sup>th</sup> YEAR CLASSES**

#### **16402 Case Studies in Engineering – 5 ECTS**

Semester 1: Dr Olga Ganilova (R) [olga.ganilova@strath.ac.uk](mailto:olga.ganilova@strath.ac.uk)

#### **16429 Computer Aided Engineering Design - 10 ECTS**

Semester 1 and 2: Dr Stephen Connolly(R) [stephen.connolly@strath.ac.uk](mailto:stephen.connolly@strath.ac.uk)

#### **ME403 (\*ME406, ME418) Engineering Materials Selection – 5 ECTS**

Semester 1 and 2: Prof Bradley Wynne (R) [bradley.wynne@strath.ac.uk](mailto:bradley.wynne@strath.ac.uk)

\*NB: Alternative codes for exchange students: ME406 Sem 1, ME418 Sem 2 (2.5 ECTS)

#### **ME404 Energy Systems Modelling – 5 ECTS**

Semester 2: Dr Daniel Cóstola (R) [daniel.costola@strath.ac.uk](mailto:daniel.costola@strath.ac.uk)

#### **ME405 Heat and Flow 4 – 5 ECTS**

Semester 1 and 2: Dr Paulo Capobianchi [paolo.capobianchi@strath.ac.uk](mailto:paolo.capobianchi@strath.ac.uk)

#### **ME414 (\*16415) Advanced Mechanics & Dynamics - 10 ECTS**

Semester 1 and 2: Dr Marcus Wheel (R) [marcus.wheel@strath.ac.uk](mailto:marcus.wheel@strath.ac.uk)

\*NB: Alternative code for exchange students: 16415 Sem 1 (5 ECTS)

#### **ME415 Strategic Analysis of Engineering Business Case Studies – 5 ECTS**

Semester 1: Dr Emma Henderson (R) [emma.henderson@strath.ac.uk](mailto:emma.henderson@strath.ac.uk)

#### **ME416 Engineering Ethics – 5 ECTS**

Semester 2: Prof Donald Mackenzie (R) [d.mackenzie@strath.ac.uk](mailto:d.mackenzie@strath.ac.uk)

*(This class must be started in Week 1 – there will be no opportunity to join the class after this)*

### **5<sup>th</sup> YEAR CLASSES**

#### **16565 Engineering Composites – 5 ECTS**

Semester 2: Dr Stella Manoli (R) [stella.manoli@strath.ac.uk](mailto:stella.manoli@strath.ac.uk)

#### **16587 Pressurised Systems – 5 ECTS**

Semester 1: Prof David Nash (R) [d.nash@strath.ac.uk](mailto:d.nash@strath.ac.uk)

#### **16599 Aerodynamic Propulsion Systems – 5 ECTS**

Semester 2: Dr Jie Yuan [jie.yuan@strath.ac.uk](mailto:jie.yuan@strath.ac.uk)

**ME507 Machinery Diagnosis and Condition Monitoring – 5 ECTS**

Semester 2: Dr Olga Ganilova

[olga.ganilova@strath.ac.uk](mailto:olga.ganilova@strath.ac.uk)**ME512 Spaceflight Mechanics – 5 ECTS**

Semester 1: Prof Massimiliano Vasile (R)

[massimiliano.vasile@strath.ac.uk](mailto:massimiliano.vasile@strath.ac.uk)**ME514 Advanced Topics in Fluid Systems Engineering – 5 ECTS**

Semester 2: Dr Konstantinos Zografos (R)

[k.zografos@strath.ac.uk](mailto:k.zografos@strath.ac.uk)**ME517 Spaceflight Systems – 5 ECTS**

Semester 2: Prof Massimiliano Vasile (R)

[massimiliano.vasile@strath.ac.uk](mailto:massimiliano.vasile@strath.ac.uk)**ME526 Engineering Plasticity – 5 ECTS**

Semester 1: Prof Donald Mackenzie (R)

[d.mackenzie@strath.ac.uk](mailto:d.mackenzie@strath.ac.uk)**ME527 Introduction to Engineering Optimisation – 5 ECTS**

Semester 2: Dr Edmondo Minisci (R)

[edmondo.minisci@strath.ac.uk](mailto:edmondo.minisci@strath.ac.uk)**ME528 Control Systems Design – 5 ECTS**

Semester 1: Prof Matthew Cartmell (R)

[matthew.cartmell@strath.ac.uk](mailto:matthew.cartmell@strath.ac.uk)**POSTGRADUATE CLASSES**

These can be taken by students who are in their 4<sup>th</sup> or 5<sup>th</sup> year of studies

**ME923 Gas and Steam Turbines – Online Course – 5 ECTS**

Semester 2: Dr Paul Tuohy (R)

[paul.tuohy@strath.ac.uk](mailto:paul.tuohy@strath.ac.uk)**ME926 Nuclear Power Systems – Online Course – 5 ECTS**

Semester 2: Dr Paul Tuohy (R)

[paul.tuohy@strath.ac.uk](mailto:paul.tuohy@strath.ac.uk)**ME927 Energy Resources and Policy – 5 ECTS**

Semester 1: Dr Nicolas Kelly (R)

[nick@esru.strath.ac.uk](mailto:nick@esru.strath.ac.uk)**ME928 Energy Systems Analysis – 5 ECTS**

Semester 1: Dr Paul Tuohy (R)

[paul.tuohy@strath.ac.uk](mailto:paul.tuohy@strath.ac.uk)**ME929 Electrical Power Systems – 5 ECTS**

Semester 1: Dr Nicolas Kelly (R)

[nick@esru.strath.ac.uk](mailto:nick@esru.strath.ac.uk)**ME930 Energy Modelling and Monitoring – 5 ECTS**

Semester 1: Dr Daniel Cóstola (R)

[daniel.costola@strath.ac.uk](mailto:daniel.costola@strath.ac.uk)**ME953 Engineering Artificial Environments – 5 ECTS**

Semester 2: Dr Nicolas Kelly (R)

[nick@esru.strath.ac.uk](mailto:nick@esru.strath.ac.uk)

Module Descriptors for all of the above classes can be found at [Module Descriptors](#)  
under "Further Information"