

## MODULE DESCRIPTION FORM

### DEPARTMENT OF MECHANICAL AND AEROSPACE ENGINEERING

## ME524 MENG GROUP PROJECT ABROAD

<b>Module Registrar:</b> Dr Andrew McLaren <a href="mailto:andrew.mclaren@strath.ac.uk">andrew.mclaren@strath.ac.uk</a>	<b>Taught To (Course):</b> Cohorts for whom class is compulsory / optional		
<b>Other Lecturers Involved:</b> Supervisors at host institutions	<b>Credit Weighting:</b> 60	<b>Semester:</b> 1 (exceptionally 2)	
<b>Assumed Prerequisites:</b> Years 1-4 of appropriate MAE programme.	<b>Compulsory / optional class</b>	<b>Academic Level:</b> 5	<b>Suitable for Exchange:</b> N

### Module Format and Delivery (HOURS i.e. 1 credit = 10hrs of study):

Lecture	Tutorial	Laboratory	Groupwork	External	Online	Project	Assignments	Private Study	Total
			600						600

### Educational Aim

This module aims to give students an authentic experience of managing and contributing to a complex group project. This will include an opportunity to demonstrate mastery of the technical aspects of the project, in addition to demonstrating competence in project management, technical risk management and safety risk assessment. In addition, students will have the experience of working in an institution in a foreign country.

### Learning Outcomes

On completion of the module the student is expected to be able to:

- LO1 Appreciate the principles of project management and planning
- LO2 Be able to reflect on their role in a team and their interaction with team members
- LO3 Appreciate the importance of technical risk and health and safety management

### Syllabus

Students may apply to spend the first semester of 5<sup>th</sup> year on exchange at one of our international partners. Students who are allocated a place abroad will complete this group project full time as their entire first semester curriculum. The project contains all the essential elements of the regular 5<sup>th</sup> year MEng Group Project, with the added element of taking the project abroad. Topics and supervisors at the host institution will be arranged by the students in consultation with the class registrar. During the first two weeks of the project, each group will write a statement of purpose detailing the deliverables and schedule for the project. This will be agreed with the supervisor, who will take on the role of client. The statement of purpose will form a contract between the group and the client.

Students will carry out the project, and will deliver an interim report to the assessment team at Strathclyde by 31<sup>st</sup> October. The group will produce a final technical report in a format to be agreed with the supervisor at the host institution. This should be uploaded to the class Myplace page by 13<sup>th</sup> January 2020. On return, each group will be assessed on the extent to which they have met the deliverables set out in the contract, as well as on the quality of reflection on the group process and project management experience. This will be assessed by a one hour group presentation/discussion/oral exam with Strathclyde staff and will be scheduled during the semester 2 development week in January. Students should ensure they are present in Glasgow to participate in this assessment session. A peer marking form will be completed by each student at the end of the project.

## Assessment of Learning Outcomes

### Criteria

For each of the Module Learning Outcomes the following criteria will be used to make judgements on student learning:

- LO1 Appreciate the principles of project management and planning  
C1 Show an ability to develop a detailed project plan  
C2 Be able to analyse the critical path of a project  
C3 Understand project estimating and project control
- LO2 Be able to reflect on their role in a team and their interaction with team members  
C1 Critically analyse their contribution to the project  
C2 Consider the interaction between team members  
C3 Reflect of the influence of team structure on team effectiveness
- LO3 Appreciate the importance of technical risk and health and safety management  
C1 Understand the need for technical risk management  
C2 Apply appropriate methods to support risk analysis  
C3 Appreciate the role of uncertainty and modelling  
C4 Appreciate the obligations of health and safety law

The standards set for each criterion per Module Learning Outcome to achieve a pass grade are indicated on the assessment sheet for all assessment.

### Principles of Assessment and Feedback

(within Assessment and Feedback Policy at: <https://www.strath.ac.uk/staff/policies/academic/> )

The following principles have been addressed in the design of the assessment.

#### **Deliver high quality feedback information that helps learners self-correct.**

The assessment is by oral presentations and dialogue, which provides instant feedback on group performance in a two-way communication process.

#### **Ensure that summative assessment has a positive impact on learning.**

The summative assessment is through oral presentations, after which feedback/mark sheets are completed by each assessor. These are returned to each group within a week of the assessment. Groups are encouraged to discuss any issues with the assessors.

#### **Give choice in the topic, method, criteria, weighting or timing of assessments.**

Project deliverables and deadlines will be defined by the group through a statement of purpose. Progress at each oral presentation is assessed against these criteria. Each group will define the detailed work on their project in negotiation with the supervisor (client).

### Assessment Method(s) Including Percentage Breakdown and Duration of Exams

Assessment is by project work, reports and oral examinations, as follows:

Interim report, 31 <sup>st</sup> October	10%
Final report/presentation, including website, January	90%
L/Outcomes	All learning outcomes are assessed by all assessments

*Indicate which learning outcomes (L01, L02 etc) are to be assessed by exam/coursework/project as required.*

### Coursework / Submissions deadlines:

Statement of purpose, within two weeks of arrival at host institution

Interim report, 31 October

Final report 13 January. Presentation/oral exam in semester 2 Development week (January).

### Resit Assessment Procedures:

A group that fails to meet the threshold level for a pass will be allowed to complete further work over the summer. This will be assessed for the September Board of Examiners.

**PLEASE NOTE:**

**Students must gain a summative mark of 50% to pass the module. Students who fail the module at the first attempt will be re-assessed during the August diet. This re-assessment will consist of oral examinations. No marks from previous attempts will be transferred to new attempts.**

**Recommended Reading**

**\*\*\*Purchase recommended    \*\*Highly recommended reading    \*For reference**

No specific recommendations. (students will be expected to research extensively in support of their project)

**Additional Student Feedback**

*(Please specify details of when additional feedback will be provided)*

Feedback is individually given to each group. Additional feedback is provided to each group after each assessment in the form of written feedback sheets. In addition, groups may discuss their feedback sheets with individual assessors.

Session: 2019/20

**Approved:**

**Course Director Signature:    Dr Stuart Grey**

**Date of Last Modifications:    06/09/2019**

(Updated July 2019)

