

## MODULE DESCRIPTION FORM

### DEPARTMENT OF MECHANICAL AND AEROSPACE ENGINEERING

## 16020 INDUSTRIAL STUDY

|  |  |                          |                                 |
|--|--|--------------------------|---------------------------------|
| <b>Module Registrar:</b> Prof D Nash<br><a href="mailto:d.nash@strath.ac.uk">d.nash@strath.ac.uk</a> | <b>Taught To (Course):</b> Cohorts for whom class is optional / elective |                          |                                 |
| <b>Other Lecturers Involved:</b>   | <b>Credit Weighting:</b> 20<br>(ECTS 10)                                 | <b>Semester:</b> Any     |                                 |
| <b>Assumed Prerequisites:</b>  | <b>Elective class</b>  | <b>Academic Level:</b> 4 | <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 |
|---------|----------|------------|-----------|----------|--------|---------|-------------|---------------|-------|
|         |          |            |           |          |        |         |             | 200           | 200   |

#### Educational Aim

This module aims to encourage students to obtain maximum long-term benefit from a period of monitored industrial experience (normally occupying at least one summer vacation period or equivalent). This may be achieved by ensuring that the experience is planned in advance and properly structured, that regular reviews are carried out by the industrial supervisor(s) and the whole experience and outcomes are documented in an appropriate manner. In addition to any technical report which may be required by the company, it is important for the purposes of this module that the student reflects on the learning experience and records the outcome of that reflection.

#### Learning Outcomes

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

- LO1 encourage reflection on periods of industrial experience undertaken
- LO2 provide practice in written communication
- LO3 encourage planned, structured and monitored industrial experience

#### Syllabus

The module will teach the following:

The dissertation, on which the assessment will be based, can follow a variety of formats. It should, however, provide a clear overview of the experience which includes coverage of the following aspects – the background of the company or other sponsor, where they are located, what they do and why; the nature of the project undertaken and how that relates to the business of the sponsor; what the student did in outline, discussion of the interaction of the student with others in the company or elsewhere while employed on the project and what was learned. If an extensive report has already been compiled for the industrial sponsors, this should be included in the dissertation but it should be properly introduced and referenced in the overview. Brochures or other descriptive material may be included in an appendix. As regards confidentiality of information, it is reasonable to exclude commercially sensitive data, but there should be sufficient description to permit proper assessment of the achievements on the project. The reports will not be released beyond a (usually) single academic assessor and will be returned to the authors after the Examination Board at which academic credit is awarded for the module.

The module is awarded 20 credits uniquely and therefore the dissertation should represent the equivalent of 20 credits of academic study or project effort (about 200 hours work). This might of course include time already spent completing a report for a sponsor.

## 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  
C1 Student will show evidence of reflection on industrial experience in dissertation.
- LO2  
C1 Student will provide evidence of reports provided for Industrial sponsors, where appropriate.  
C2 Thesis will be used to provide evidence of written skills of student.
- LO3  
C1 As part of the thesis, the student will reflect on project planning and of discussions with industrial sponsors relating to the project.

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/professionalservices/staff/policies/academic/> )

Students preparing the thesis and reflecting on their industrial experience directly involves the student in monitoring and regulating their own learning. The construction of a thesis or portfolio on the industrial sponsor requires students to reflect on their achievements and self-assess and select work that meets defined standards.

Feedback will be provided to students as they prepare their thesis, providing guidelines of how the document can be redrafted to include all the necessary aspects of the reflection on the industrial experience.

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

| Examination |          |          |           | Coursework |           | Practical |           | Project         |           |
|-------------|----------|----------|-----------|------------|-----------|-----------|-----------|-----------------|-----------|
| Number      | Month(s) | Duration | Weighting | Number     | Weighting | Number    | Weighting | Number          | Weighting |
|             |          |          |           |            |           |           |           | 1               | 100%      |
| *           |          |          |           | *          |           | *         |           | * LO1, LO2, LO3 |           |

\* **L/Os:** Indicate which Learning Outcomes (L01, L02, etc) are to be assessed by exam/coursework/practical/project as required.

### Coursework / Submissions deadlines (*academic weeks*):

Thesis submitted by end of semester 2 week 10.

### Resit Assessment Procedures:

Resubmission of a revised thesis prior to commencement of the August exam diet.

Students must contact the module Registrar for details as soon as they know that they are required to resit this class.

### PLEASE NOTE:

Module is only pass / fail – no summative mark is awarded. Students who fail the module at the first attempt will be re-assessed during the August diet. This re-assessment will consist entirely of coursework. No marks from any previous attempts will be transferred to a new resit attempt.

### Recommended Reading

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

**Additional Student Feedback**

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

| Date | Time | Room No |
|------|------|---------|
|      |      | n/a     |

Session: 2021/22

**Approved:**

|   |
|---|
| <b>Course Director Signature:</b> Dr E Henderson (SG) |
| <b>Date of Last Modifications:</b> September 3, 2021  |

(Updated July 2021)

## MODULE TIMETABLE

Module Code:

16020

Module Title:

Industrial Study

### Brief Description of Assessment:

Thesis – end of week 10 sem2

### Assessment Timing:-

Indicate on the table below the start/submission dates for each assignment/project and the timing of each exam/assessment using the dropdowns provided. Dropdowns can be left blank. Add extra notes below the dropdowns.

**Please note: Timings can and will change, this should only be used as a guide.**

| Semester One | W&D Wk                             | WK1                                | WK2                                | WK3                                | WK4                                | WK5                                | WK6                                | WK7                                | WK8                                | WK9                                | WK10                               | WK11                               | Exam Period                        |
|--------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
|              | Choose an item.<br>Choose an item. | Choose an item.<br>Choose an item. | Choose an item.<br>Choose an item. | Choose an item.<br>Choose an item. | Choose an item.<br>Choose an item. | Choose an item.<br>Choose an item. | Choose an item.<br>Choose an item. | Choose an item.<br>Choose an item. | Choose an item.<br>Choose an item. | Choose an item.<br>Choose an item. | Choose an item.<br>Choose an item. | Choose an item.<br>Choose an item. | Choose an item.<br>Choose an item. |

| Semester Two | C&D Wk                             | WK1                                | WK2                                | WK3                                | WK4                                | WK5                                | WK6                                | WK7                                | WK8                                | WK9                                | WK10                               | WK11              | Exam Period                        |
|--------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-------------------|------------------------------------|
|              | Choose an item.<br>Choose an item. | Choose an item.<br>Choose an item. | Choose an item.<br>Choose an item. | Choose an item.<br>Choose an item. | Choose an item.<br>Choose an item. | Choose an item.<br>Choose an item. | Choose an item.<br>Choose an item. | Choose an item.<br>Choose an item. | Choose an item.<br>Choose an item. | Choose an item.<br>Choose an item. | Choose an item.<br>Choose an item. | Thesis Submission | Choose an item.<br>Choose an item. |