

MODULE DESCRIPTION FORM



DEPARTMENT OF MECHANICAL AND AEROSPACE ENGINEERING

ME521 ADVANCED RESEARCH PROJECT B

Module Registrar: Dr M Oliveira monica.oliveira@strath.ac.uk	Taught To (Course): Cohorts for whom module is optional	
Other Lecturers Involved: Supervisors	Credit Weighting: 20	Semester: 2
Optional module	Academic Level: 5	Suitable for Exchange: N

Required prerequisites

Note: It is the responsibility of ALL students to ensure that they satisfy the prerequisite knowledge for this module BEFORE adding as part of curriculum selection. If unsure, please contact the Module Registrar or discuss with your Programme/Year Adviser of Studies.

Successful completion of the part A of Advanced Research Project
Project dependent: please check with supervisors

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

The objective of the project is to expand and enlarge on work completed in the Year 4 individual project, in order to prepare a full paper for submission to a refereed engineering journal. This may involve further research and background study, further experimental and/or simulation work, more detailed analysis and discussion of results, or other activities, to be agreed by the individual supervisor. The full paper is to be prepared by the student, under supervision, in the correct format for submission to the chosen journal. In exceptional circumstances, work carried out during a university based summer research internship may be written up for submission of a journal paper.

Learning Outcomes

On completion of the module the student is expected to:

LO1 Have submitted a professional standard technical paper to a refereed engineering journal (or prepared a draft in a suitable format, ready for submission).

LO2 Have had the opportunity to deepen and broaden the knowledge gained in the 4th year individual project (or equivalent)

LO3 Have gained significant experience of the practice of engineering research, and been trained in the care and discipline required for publication of research in refereed journals

Syllabus

The student will carry out appropriate research and scholarship to prepare a paper submission.

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 The paper must have been submitted, or (in the opinion of the supervisor) be in a draft form in the appropriate format for submission in the near future.

C2 The quality of the paper must be such that the supervisor is willing to be a named co-author.

LO2

C1 The oral panel will interview the student to assess the degree of deepening and broadening of knowledge developed during the project.

LO3

C1 An assessment of the quality of the paper, and the amount of work carried out, over and above that completed in 4th year.

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/>)

Help clarify what good performance is.

Regular feedback will be obtained through meetings with the supervisor, to give clear guidance about performance and progress. This will tend to be informal in nature, but students should recognise this as feedback, and be encouraged to reflect on it.

Encourage 'time and effort' on challenging learning tasks.

Regular meetings with the supervisor will encourage the student to work steadily over the whole project to achieve a high quality end result.

Facilitate the development of self-assessment and reflection in training

Students will be encouraged to reflect on their progress towards the publication and plan their work effectively to meet the deadline.

Encourage positive motivational beliefs and self-esteem

Publication in a peer reviewed journal is a demanding exercise. Completion of this task is highly motivating and a source of satisfaction for the students.

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 (LO1, LO2, etc) are to be assessed by exam/coursework/practical/project as required.

Coursework / Submissions deadlines (*academic weeks*):

Copy of research paper to be handed in on the first day of the exam diet. Oral exam to be carried out during the exam diet.

Resit Assessment Procedures:

Alternate ^^submission prior to commencement of the July/August exam diet and new oral examination.

^^Students must contact the module Registrar for details as soon as results confirm that a resit is required.

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 July/August diet. This re-assessment will consist entirely of coursework and viva. No marks from any previous attempts will be transferred to a new attempt.

Recommended Reading

Reading appropriate to project topic.

Additional Student Feedback

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

Date	Time	Room No
		Check timetable webpages for details

Session: 2025/26

Approved:

Programme Lead/Director Signature: Dr Andrew McLaren

Date of Last Modifications: 12 August 2025

(MAE template updated June 2025)

MODULE TIMETABLE

Module Code:

ME521

Module Title:

Advanced Research Project B

Brief Description of Assessment:

Journal paper and oral examination.

Assessment Timing

Indicated on the table below are the start/submission dates for each assignment/project and the timing of each exam/assessment.

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. Choose an item.	Choose an item. Choose an item.	Choose an item. Choose an item.	Choose an item. Choose an item.	Choose an item. Choose an item.	Choose an item. Choose an item.	Choose an item. Choose an item.	Choose an item. Choose an item.	Choose an item. Choose an item.	Choose an item. Choose an item.	Choose an item. Choose an item.	Choose an item. Choose an item.	Choose an item.

Semester Two	C&D Wk	WK1	WK2	WK3	WK4	WK5	WK6	WK7	WK8	WK9	WK10	WK11	Exam Period
	Choose an item. Choose an item.	Choose an item. Choose an item.	Choose an item. Choose an item.	Choose an item. Choose an item.	Choose an item. Choose an item.	Choose an item. Choose an item.	Choose an item. Choose an item.	Choose an item. Choose an item.	Choose an item. Choose an item.	Choose an item. Choose an item.	Choose an item. Choose an item.	Choose an item. Choose an item.	Coursework Submit Oral Exam