

2021- 2021 ME Mechanical Engineering Syllabus

ME IN MECHANICAL ENGINEERING (one academic year, 60 ECTS)

Students must take:

20 ECTS Project/Thesis PLUS 20 ECTS Mandatory Advanced Modules PLUS 20 ECTS Optional modules, where at least 5 ECTS must be from Mechanical Systems Options, and 5 ECTS from Manufacturing Systems Options.

Students must abide by the grouping quotas below for optional modules. Note the student registration system does not define the groupings, thus the students are required to ensure compliance with the quotas.

Students cannot take a module where they have already completed coursework of a similar content and standard.

**BME402 must be chosen if it (or an equivalent) has not already been taken at undergraduate level. Discuss with Programme Director if you did not complete BME402 and believe you do not need to. Knowledge and software covered in BME402 is used in other mandatory modules in this programme.

Module availability is NOT guaranteed. Please consult with Mech Eng discipline office before registration. Selection of modules may depend upon:

- Availability of the module in the academic year of study.
- Timetabling constraints with respect to other modules chosen.
- Completion of pre-requisite or co-requisite modules, or other required modules as identified by the Programme Director.

<i>Requisite: Prereq Coreq Enreq</i>	<i>Module Code</i>	<i>Module Name</i>	<i>ECTS</i>	<i>Taught in Semester 1, 2, or Full Year</i>	<i>Examined/ Submitted in Semester(s)</i>	<i>Duration of exam (hours)</i>	<i>Lectures Shared with:</i>	<i>Bandings</i>	<i>Taken in BM NCI Galway</i>
Project Thesis									
	ME519	Mechanical Engineering Project Thesis*	20	1 & 2	2	Thesis			No
Mandatory Advanced Modules (20 ECTS):									
	ME516	Advanced Mechanics of Materials	5	1	1	1 + c/a	MEB, METS, MIRM		No
	ME521	Research Methods for Engineers	5	1	1	c/a	APE, MEB, METS		No
	ME5106	Advanced Manufacturing	5	2	2	2			No
BME402	BME501	Advanced Finite Element Methods	5	2	2	c/a	MEB, METS		No
Mechanical Systems Options (choose 5 - 15 ECTS)									
	CT4101	Machine Learning	5	1	1	2 +c/a	BCT		No
	EE5120	Digital Control	5	1	1	2	MEEE	EE410 0	No (Rotating)
	BME5100	Advanced Computational Biomechanics	5	1	1	c/a	MEB		No
	EG5101	Advanced Energy Systems Engineering	5	1	1	c/a	MEES	EG400	Not from 16-17

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Padhraic Smyth



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