

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.

Requisite: Prereq Coreq Enreq	Module Code	Module Name	ECTS	Taught in Semester 1, 2, or Full Year	Examined/ Submitted in Semester(s)	Duration of exam (hours)	Lectures Shared with:	Bandings	Taken in BME NCI Galway
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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Xiang Xie



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Table of Contents Hsbte Syllabus 2015 Mech

1. Understanding the eBook Hsbte Syllabus 2015 Mech
 - The Rise of Digital Reading Hsbte Syllabus 2015 Mech
 - Advantages of eBooks Over Traditional Books
2. Identifying Hsbte Syllabus 2015 Mech
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Hsbte Syllabus 2015 Mech
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hsbte Syllabus 2015 Mech
 - Personalized Recommendations
 - Hsbte Syllabus 2015 Mech User Reviews and Ratings
 - Hsbte Syllabus 2015 Mech and Bestseller Lists
5. Accessing Hsbte Syllabus 2015 Mech Free and Paid eBooks
 - Hsbte Syllabus 2015 Mech Public Domain eBooks
 - Hsbte Syllabus 2015 Mech eBook Subscription Services
 - Hsbte Syllabus 2015 Mech Budget-Friendly Options
6. Navigating Hsbte Syllabus 2015 Mech eBook Formats

- ePub, PDF, MOBI, and More
- Hsbte Syllabus 2015 Mech Compatibility with Devices
- Hsbte Syllabus 2015 Mech Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Hsbte Syllabus 2015 Mech
 - Highlighting and Note-Taking Hsbte Syllabus 2015 Mech
 - Interactive Elements Hsbte Syllabus 2015 Mech
- 8. Staying Engaged with Hsbte Syllabus 2015 Mech
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hsbte Syllabus 2015 Mech
- 9. Balancing eBooks and Physical Books Hsbte Syllabus 2015 Mech
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hsbte Syllabus 2015 Mech
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Hsbte Syllabus 2015 Mech
 - Setting Reading Goals Hsbte Syllabus 2015 Mech
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Hsbte Syllabus 2015 Mech
 - Fact-Checking eBook Content of Hsbte Syllabus 2015 Mech
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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to refine predictions of this seasonal variation.