

## 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:<br>Prereq<br>Coreq<br>Enreq                 | Module Code | Module Name                            | ECTS | Taught in<br>Semester 1, 2,<br>or Full Year | Examined/<br>Submitted in<br>Semester(s) | Duration of<br>exam (hours) | Lectures Shared<br>with: | Bandings   | Taken in<br>BME NCI<br>Galway |
|--------------------------------------------------------|-------------|----------------------------------------|------|---------------------------------------------|------------------------------------------|-----------------------------|--------------------------|------------|-------------------------------|
| <b>Project Thesis</b>                                  |             |                                        |      |                                             |                                          |                             |                          |            |                               |
|                                                        | ME519       | Mechanical Engineering Project Thesis* | 20   | 1 & 2                                       | 2                                        | Thesis                      |                          |            | No                            |
| <b>Mandatory Advanced Modules (20 ECTS):</b>           |             |                                        |      |                                             |                                          |                             |                          |            |                               |
|                                                        | ME516       | Advanced Mechanics of Materials        | 5    | 1                                           | 1                                        | 1 + c/a                     | MEB,<br>METS, MIRM       |            | No                            |
|                                                        | ME521       | Research Methods for Engineers         | 5    | 1                                           | 1                                        | c/a                         | APE, MEB,<br>METS        |            | No                            |
|                                                        | ME5106      | Advanced Manufacturing                 | 5    | 2                                           | 2                                        | 2                           |                          |            | No                            |
| BME402                                                 | BME501      | Advanced Finite Element Methods        | 5    | 2                                           | 2                                        | c/a                         | MEB, METS                |            | No                            |
| <b>Mechanical Systems Options (choose 5 - 15 ECTS)</b> |             |                                        |      |                                             |                                          |                             |                          |            |                               |
|                                                        | CT4101      | Machine Learning                       | 5    | 1                                           | 1                                        | 2 +c/a                      | BCT                      |            | No                            |
|                                                        | EE5120      | Digital Control                        | 5    | 1                                           | 1                                        | 2                           | MEEE                     | EE410<br>0 | No<br>(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<br>16-17             |

# Hsbte Syllabus 2015 Mech

**Yicheng Fang**



## **Hsbte Syllabus 2015 Mech:**

## Enjoying the Melody of Appearance: An Mental Symphony within **Hsbte Syllabus 2015 Mech**

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