



PARTNERS ACADEMIC SUMMER SCHOOL 2024

Syllabus for Maths for Engineering: Mechanical & Marine Engineering

Subject Area

This syllabus is for PARTNERS applicants seeking to progress to the degrees of:

- H300, BEng Hons Mechanical Eng
- H301, MEng Hons Mechanical Engineering
- H3H2, Mechanical Engineering with Energy
- H3H2, Mechanical Engineering with Energy
- H3H2, Mechanical Engineering with Energy
- H3H6, Mechanical Engineering with Mechatronics
- H3H6, Mechanical Engineering with Mechatronics
- H3H8, MEng Mech Eng with Biomedical Eng
- H502, BEng Mar Tech Hons Nav Arch
- H503, MEng Honours Marine Technology with Naval Architecture
- H504, BEng Mar Tech Hons Mar Eng
- H660, BEng Hons Automation and Control
- HH37, MEng Hons Mech Design & Manuf Eng
- HH73, BEng H Mech Design & Manuf Eng (New'le)
- H355, BEng Honours Marine Technology with Offshore Engineering
- H501, Marine Engineering
- H524, MEng Marine Technology with Small Craft Technology

Aims

To allow students to demonstrate their potential to succeed in specified degree programmes by showing a grasp of entry-level subject-specific knowledge, understanding, cognitive and subject-specific skills.

Learning Outcomes

Some knowledge and understanding of how to think through an engineering problem using basic engineering principles.

The ability to apply this knowledge and critical understanding to a practical problem.

Competence in team working.

Summer School Syllabus

- Monday 1st & Tuesday 2nd: Maths for Engineering
 - Wednesday 3rd - Friday 5th : Mechanical & Marine Engineering Sessions
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Activities for Personal Study

Online Teaching:

Monday 3rd , Tuesday 4th and Wednesday 5th (AM only) July

On-Campus Teaching:

Thursday 7th & Friday 8th July

Formative Assessment Details

Multiple Choice Quizzes

Hand-in Method

Digital

Assessment deadline

Friday 14th July – 5pm