PARTNERS ACADEMIC SUMMER SCHOOL 2025
Syllabus for Civil Engineering & Geosciences

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

- H200 BEng Hons Civil Engineering
- H205 BEng Hons Civil Engineering with Year in Industry
- H206 BEng Hons Civil and Structural Engineering with Year in Industry
- H210 BEng Hons Civil and Structural Engineering
- H242 MEng Hons Civil and Structural Engineering
- H290 MEng Hons Civil Engineering
- H295 MEng Honours Civil Engineering with Year in Industry
- H296 MEng Hons Civil and Structural Engineering with Year in Industry

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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
A good knowledge and understanding of …

- Principles and practice of surveying
- Structural Design
- Decarbonising Transport
- Water and Soil Interactions
- Waste Water Treatment
- Climate Change and Flood Risk

The ability to apply this knowledge and critical understanding to…

- Practical civil engineering tasks set in the context of built and natural environment monitoring and measurement.
- Collect and record accurate, precise geospatial and laboratory data.
- Analyse and present data in a manner commensurable with undergraduate study and, by extension, the workplace.

- Describe and discuss the relevance of the skills and tasks to the civil and structural engineering industry and geomatics industries.

Competence in…

- Experimental design, data collection, interpretation, analysis and display
- Team working

Summer School Syllabus

Please refer to your subject timetable

Activities for Personal Study

Students will be provided with reading and post-Class activities to complete during the Summer School. Reading will be provided via the Library Reading List feature within Canvas; exercise will be posted on Canvas before the Summer School commences.

On-Campus Teaching:

Wednesday 2nd July (PM), Thursday 3rd & Friday 4th July

Online Teaching:

Monday 30th June & Tuesday 1st July

Formative Assessment Details

Water treatment design, short report produced in groups outlining laboratory results and how this guides the design of a water treatment system. It will involve data analysis, scale-up calculations and an assessment of the importance of different design criteria to influence engineering choices.

More details will be given during the event by your Academic Strand Lead.

Hand-in Method

Digital

Assessment deadline

Friday 11th July