



CASMaT International Summer School 2026: Advanced Structural and Material Testing



The course

The summer school takes place at the Technical University of Denmark (DTU) in the structural and material testing laboratories on Risø and Lyngby Campus from August 16 to August 21, 2026.

The summer school is organized in a collaboration between the Department of Wind and Energy Systems (<https://wind.dtu.dk/>) and the Department of Civil and Mechanical Engineering (<https://construct.dtu.dk/>) through their common research facility, the Villum Center for Advanced Structural and Material Testing (CASMaT, <https://casmata.dtu.dk/>).

The objectives of the summer school are to introduce the theory and concepts behind advanced multiscale testing of structures and materials – with composites materials and structures as a case – and to allow the students to get hands on experience with the most important, advanced measuring techniques and methodologies.

The course is designed for PhD students and final year graduate students with a basic understanding of material and structural mechanics, however both academic and industrial participation is encouraged.

Course outline

The general outline of the course is as follows: 1 week equivalent of preparatory reading (remote), 1 week of lab work and lectures (physical presence required) and 1 week equivalent of report writing (remote). The main body of the course consists of 4 days with a combination of lectures and hands-on experimental work:

- Day 1: Data acquisition and instrumentation.
- Day 2: Material scale: Advanced materials testing.
- Day 3: Full scale: Digital twinning
- Day 4: Subcomponent scale: Advanced substructural testing.

On the 5th day the physical presence on campus is concluded with guest lectures by international experts on selected topics (to be announced), assignment work and course evaluation.

The workload of the course corresponds to 5 ECTS points. Certificates are issued from DTU.

Social events include an icebreaker before the first course day and an evening out in Copenhagen downtown.



Practical information

Registration

Registration by conference manager:
[CASMaT International Summer School 2026](https://orbit.dtu.dk/en/persons/henrik-stang)

Registration deadline:

Registration will close July 3, 2026.
NB! There will be a maximum of 30 course participants.

Price

Student fee: EUR 450
Industrial participation: EUR 2000

Venue

There will be course days in both DTU Risø and DTU Lyngby campus. Bus transportation will be arranged to and from DTU Risø campus on relevant course days.

Accommodation

Participants can choose to make their own arrangements or choose to stay in one of the pre-reserved rooms.
NB! There is limited accommodation available.
NB! Accommodation is at the participants' own expense.

Contact

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