

MSE 440 Composite Technology

Info for Exam

One question on each topic...

- A1 : Processing
- A2 : Mechanics
- A3 : Sandwich/ textiles
- A4 : Design/joining
- A5 : Biomed and Sports
- A6 : Smart composites
- A7 : Cost
- A8 : Towards Sustainable Composites

90 minutes for the exam.

The exam is open book, only the access to the slides of the lectures provided via Moodle and short manuscripts summarizing them are allowed. Slides can have your personal annotations. No internet connection during the exam.

Examples of key words in potential questions:

- Coupling effects in anisotropic composites
- Properties of natural fibres composites
- Distribution of stresses in lap shear joints
- Comparison between different types of smart composites, with SMA, piezoelectric fibers, etc
- What could be the processing methods and fiber types for making a boat, (or a violin, a bridge, a car door, etc)?
- Cost versus volume of production, dedicated versus utilisation based.
- What could be 3 approaches towards circular economy of composites?