

# Mechanics of Composite Materials

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Course Code:

ME 446

Course Type:

Area Elective

Credits:

3

Theoric:

3

Practice:

0

Laboratory Hour:

0

ECTS:

5

Prerequisite Courses:

Strength of Materials [1]

Course Language:

English

Course Content:

Fiber-reinforced composites. Micro and macromechanical lamina analyses. Stress strain relations for a lamina. Laminate constitutive equations. Lamina and laminate strength analysis, failure criteria. Buckling of laminated plates. Manufacturing methods.