

Modern Engineering Materials

Course Code:

ME 361

Course Type:

Area Elective

Credits:

3

Theoric:

3

Practice:

0

Laboratory Hour:

0

ECTS:

5

Prerequisite Courses:

Material Science for Mechanical Engineers [1]

Course Language:

English

Course Content:

Thermal processing of metal alloys. Reading the TT diagrams. Industrial alloys. Properties and processing of ceramics. Properties and processing of Polymers. Composite materials. Corrosion and environmental degradation. Electrical and magnetic properties of materials. Materials selections and design considerations.