

COURSE DETAIL

MATERIALS TECHNOLOGY

Country

Spain

Host Institution

Carlos III University of Madrid

Program(s)

Carlos III University of Madrid

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Materials Science Engineering

UCEAP Course Number

121

UCEAP Course Suffix**UCEAP Official Title**

MATERIALS TECHNOLOGY

UCEAP Transcript Title

MATERIALS TECH

UCEAP Quarter Units

5.00

UCEAP Semester Units

3.30

Course Description

This course offers an introduction to materials technology. Topics include: ferrous alloys; non-ferrous alloys; fundamentals of forming by casting; casting techniques; fundamentals of forming by plastic deformation; deformation techniques; powder technology; processing of ceramics; processing of polymers; processing of polymer matrix composites; fracture; fatigue; creep; friction and wear; corrosion of metals; welding; adhesives; surface treatments and coatings; non-destructive testing.

Language(s) of Instruction

Host Institution Course Number

15515

Host Institution Course Title

MATERIALS TECHNOLOGY

Host Institution Campus

LEGANÉS

Host Institution Faculty

Escuela Politécnica Superior

Host Institution Degree

Grado en Ingeniería en Tecnologías Industriales

Host Institution Department

Departamento de Ciencia e Ingeniería de Materiales e Ingeniería Química

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