# **COURSE DETAIL**

### **SOLID STATE FUNDAMENTALS FOR ENGINEERING**

## **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)**

**Physics Engineering** 

#### **UCEAP Course Number**

109

#### **UCEAP Course Suffix**

#### **UCEAP Official Title**

SOLID STATE FUNDAMENTALS FOR ENGINEERING

## **UCEAP Transcript Title**

SOLID STATE FUNDMTL

## **UCEAP Quarter Units**

5.00

#### **UCEAP Semester Units**

3.30

## **Course Description**

Topics in this Engineering Physics course include: bonding in solids; lattice vibrations, phonons, and heat capacity; theory of free electrons in metals; band theory of solids; semiconductors; dielectric materials; magnetic materials; optical properties of materials; superconductivity.

# Language(s) of Instruction

English

#### **Host Institution Course Number**

18311

#### **Host Institution Course Title**

FUNDAMENTOS DE ESTADO SÓLIDO PARA INGENIERÍA

## **Host Institution Campus**

LEGANÉS

## **Host Institution Faculty**

Escuela Politécnica Superior

# **Host Institution Degree**

Grado en Ingeniería Física

# **Host Institution Department**

Departamento de Física

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