COURSE DETAIL

BIOMECHANICS OF CONTINUUM MEDIA I (SOLIDS)
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) Bioengineering
UCEAP Course Number 107
UCEAP Course Suffix
UCEAP Official Title BIOMECHANICS OF CONTINUUM MEDIA I (SOLIDS)
UCEAP Transcript Title CONTINUUM MECHANICS
UCEAP Quarter Units 5.00
UCEAP Semester Units 3.30

Course Description
This course provides an introduction to basic concepts of continuum mechanics for the analysis of elastic and viscoelastic solids. Topics include: introduction to continuum mechanics applied to living and inert solids; stress, strain and compatibility conditions; derivation of field equations and boundary conditions; properties of common solids; elasticity; viscoelasticity. Students are expected to have completed coursework in calculus and linear algebra.

Language(s) of Instruction
English

Host Institution Course Number
15539,19894

Host Institution Course Title
BIOMECÁNICA DEL MEDIO CONTINUO I (SÓLIDOS)

Host Institution Course Details
https://aplicaciones.uc3m.es/cpa/generaFicha?est=257&anio=2024&plan=419&asig=15...

Host Institution Campus
LEGANÉS

Host Institution Faculty
Escuela Politécnica Superior.

Host Institution Degree
Grado en Ingeniería Biomédica

Host Institution Department
Mecánica de Medios Continuos y Teoría de Estructuras

Course Last Reviewed
2024-2025

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