COURSE DETAIL

MATHEMATICAL METHODS FOR PHYSICS II
Country Spain
Host Institution University of Barcelona
Program(s) University of Barcelona
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Physics
UCEAP Course Number 104
UCEAP Course Suffix B
UCEAP Official Title MATHEMATICAL METHODS FOR PHYSICS II
UCEAP Transcript Title MATH METHOD PHYS II
UCEAP Quarter Units 5.00
UCEAP Semester Units

3.30

Course Description

Know how to solve second-order ordinary linear differential equations using the series expansion method. Understand the utility of series developments of orthogonal functions and apply them to a series of partial differential equations of utility in physics. Understand the importance of contour conditions and their role in determining a discrete spectrum of eigenvalues and applying them to a series of partial differential equations useful in physics. Acquire ease in the use of Fourier and Laplace transforms in the resolution of differential and linear integral equations.

Language(s) of Instruction

Host Institution Course Number
360578

Host Institution Course Title
MÈTODES MATEMÀTICS PER A LA FÍSICA II

Host Institution Course Details
https://www.ub.edu/pladocent/?cod_giga=360578&curs=2025&idioma=CAT

Host Institution Campus
Campus Diagonal

Host Institution Faculty
Facultat de Física

Host Institution Degree
Física/Physics

Host Institution Department
Departament de Física de la Matèria Condensada

Course Last Reviewed
2025-2026

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