COURSE DETAIL

ELECTROMAGNETISM II

Country
Brazil

Host Institution
Pontifical Catholic University of Rio de Janeiro

Program(s)
Pontifical Catholic University of Rio de Janeiro

UCEAP Course Level
Upper Division

UCEAP Subject Area(s)
Physics

UCEAP Course Number
116

UCEAP Course Suffix

UCEAP Official Title
ELECTROMAGNETISM II

UCEAP Transcript Title
ELECTROMAGNETISM II

UCEAP Quarter Units
6.00

UCEAP Semester Units
4.00

Course Description

This course covers solutions to Maxwell’s equations and the wave equation, including plane waves, reflection, and refraction. Topics also include the Poynting vector, radiation–matter interactions, and models of conductivity and refractive index. The course further examines radiation from an oscillating dipole and from point charges.

Language(s) of Instruction
Portuguese

Host Institution Course Number
FIS1302

Host Institution Course Title
ELETROMAGNETISMO II

Host Institution Course Details
https://www.puc-rio.br/ferramentas/ementas/ementa.aspx?cd=FIS1302

Host Institution Campus
PUC-Rio

Host Institution Faculty

Host Institution Degree

Host Institution Department
PHYSICS

Course Last Reviewed
2025-2026

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