COURSE DETAIL

CERAMICS AND GLASSES
Country United Kingdom - England
Host Institution Imperial College London
Program(s) Imperial College London
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Materials Science
UCEAP Course Number 116
UCEAP Course Suffix
UCEAP Official Title CERAMICS AND GLASSES
UCEAP Transcript Title CERAMICS & GLASSES
UCEAP Quarter Units 5.00
UCEAP Semester Units 3.30

Course Description
This course introduces students to the main methods and fundamental principles used for the processing of the engineering ceramics (and, to a lesser degree, the glass and glass ceramics), and provides an understanding of the factors that influence their mechanical and functional properties. The course is split into three main topics. The first is processing of bulk and thin film ceramics where students learn various methods, compounds, and particles of ceramic powders. The second part examines mechanical properties of ceramics and glasses, including study of cracking, stress, and strengths on solids. The final part focuses on electrodynamic properties and high frequency applications of ceramics.

Language(s) of Instruction
English

Host Institution Course Number
MATE60008

Host Institution Course Title
CERAMICS AND GLASSES

Host Institution Course Details
https://acrobat.adobe.com/link/review?uri=urn%3Aaaid%3Ascds%3AUS%3A54267e2b-ebf...

Host Institution Campus
Imperial

Host Institution Faculty

Host Institution Degree

Host Institution Department
Material Science and Engineering

Course Last Reviewed
2023-2024

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