COURSE DETAIL

CONSTRUCTION MATERIALS
Country Australia
Host Institution University of New South Wales
Program(s) University of New South Wales
UCEAP Course Level Lower Division
UCEAP Subject Area(s) Architecture
UCEAP Course Number 17
UCEAP Course Suffix
UCEAP Official Title CONSTRUCTION MATERIALS
UCEAP Transcript Title CONSTRUCT MATERIALS
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description

This course examines the primary structural materials adopted in commercial and residential projects in Australia. It covers the composition of concrete, with a detailed analysis of the properties of its components, including cement, aggregates, and the most utilized admixtures. Students will learn how to design concrete mixes in accordance with Australian Standards. Additionally, the course presents a discussion on alternative sustainable materials that can be used in the concrete mix. The course also examines other structural construction materials, such as steel, masonry, and timber, with discussions presented on their physical and chemical properties, along with design and planning considerations that need to be accounted for. The final part of the course examines finishing material, including ceramics, claddings, curtain walls, painting, and glass.

Language(s) of Instruction
English

Host Institution Course Number
BLDG1012

Host Institution Course Title
CONSTRUCTION MATERIALS

Host Institution Course Details
https://www.handbook.unsw.edu.au/undergraduate/courses/2025/BLDG1012

Host Institution Campus

Host Institution Faculty
Built Environment

Host Institution Degree

Host Institution Department

Course Last Reviewed
2024-2025

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