COURSE DETAIL

WATER RESOURCES ENGINEERING
Country Australia
Host Institution University of New South Wales
Program(s) University of New South Wales
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Civil Engineering
UCEAP Course Number 111
UCEAP Course Suffix
UCEAP Official Title WATER RESOURCES ENGINEERING
UCEAP Transcript Title WATER RESOURCES ENG
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description

This course examines engineering hydrology and its application in water resources management and flood estimation. Topics discussed include hydrological cycle, climatology, atmospheric circulation, meteorological measurements, precipitation, streamflow measurement, runoff components, hydrograph analysis, loss rates, IFD and design storm hyetographs, flood frequency analysis, unit hydrographs concepts and linear reservoir method, groundwater, hydraulic conductivity, Darcy's law, intrinsic permeability, water potential, hydraulic head, unsaturated zone, aquifers, aquicludes, aquitards, steady state flow, transient flow, effective stress, transmissitivity, storativity, pump test interpretation.

Language(s) of Instruction
English

Host Institution Course Number
CVEN3501

Host Institution Course Title
WATER RESOURCES ENGINEERING

Host Institution Course Details
https://www.unsw.edu.au/course-outlines/course-outline#year=2025&term=Term%201&...

Host Institution Campus

Host Institution Faculty
Civil and Environmental Engineering

Host Institution Degree

Host Institution Department

Course Last Reviewed
2024-2025

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