COURSE DETAIL

STRUCTURAL ANALYSIS I
Country South Africa
Host Institution University of Cape Town
Program(s) University of Cape Town
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Civil Engineering
UCEAP Course Number 108
UCEAP Course Suffix
UCEAP Official Title STRUCTURAL ANALYSIS I
UCEAP Transcript Title STRUCT ANALYSIS I
UCEAP Quarter Units 5.00
UCEAP Semester Units 3.30

Course Description
This course analyzes structural systems, conditions of equilibrium, and external and internal structural indeterminacies. Topics include analysis of statically determinate structures: determination of actions in trusses, beams, and frames; axial force, shearing force, and bending moment diagrams; calculation of displacements by the method of successive integration, virtual work method, buckling of struts and geometric instability, and thermal stresses. Computer-based methods for analyses of statically determinate structures are introduced.

Language(s) of Instruction
English

Host Institution Course Number
CIV2041S

Host Institution Course Title
STRUCTURAL ANALYSIS I

Host Institution Course Details

Host Institution Campus
Engineering

Host Institution Faculty

Host Institution Degree

Host Institution Department
Engineering

Course Last Reviewed

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