COURSE DETAIL

LINEAR FINITE ELEMENT ANALYSIS
Country Singapore
Host Institution National University of Singapore
Program(s) National University of Singapore
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Civil Engineering
UCEAP Course Number 157
UCEAP Course Suffix
UCEAP Official Title LINEAR FINITE ELEMENT ANALYSIS
UCEAP Transcript Title LINEAR FINITE ELEM
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description
This course introduces the fundamentals of finite element principles to understand the behavior of various finite elements and to be able to select appropriate elements to solve physical and engineering problems with emphasis on structural and geotechnical engineering applications. It covers weak formulation, element shape function, isoparametric concepts, 1-D, 2-D, 3-D and axisymmetric elements, field problems, modelling and practical considerations, and special topics. The course is targeted at undergraduate and graduate students involved in research or application of the finite element method in civil engineering problems.

Language(s) of Instruction
English

Host Institution Course Number
CE4257

Host Institution Course Title
LINEAR FINITE ELEMENT ANALYSIS

Host Institution Course Details

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department
Civil & Environmental Engineering

Course Last Reviewed

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