Introduction to Finite Elements
0542.3242
Semester A 2016-17
url: http://www.eng.tau.ac.il/~harari/Courses/Intro/

Classes
Monday, 10-12, Wolfson 120
Wednesday, 10-12, Wolfson 120

Instructor Isaac Harari
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Topics
Basic concepts, simple model
Variational principles
Formulation of finite element equations
Linear interpolation, isoparametric elements, element matrices
Computer implementation, data processing arrays
Using finite element software (Abaqus, NASTRAN)
Applications: membrane, elasticity, bending
Computational issues
Additional topics

References
Fish & Belytschko, A First Course in Finite Elements, Wiley, 2007

Grading
Homework 20%
(Midterm 15%, 14/12/16, 10:00)
Final 80% (06/02/17)