Introduction to Finite Elements
0542.3242
Semester A 2014-15
url: http://www.eng.tau.ac.il/~harari/Courses/Intro/

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

Instructor Isaac Harari
Office: Wolfson 225, (640-)9439
Hours: Wednesday, 09-10 (or by appointment)
e-mail: harari@eng.tau.ac.il, url: http://www.eng.tau.ac.il/~harari/

Assistant Haim Ashkenazi
Office: The Neiman Library of Exact Sciences & Engineering
Hours: appointment by e-mail
e-mail: haimash1@post.tau.ac.il

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%, 15/12/15, 10:00)
Final 80% (05/02/15)