

Faculty of Engineering & Technology**Advanced Structural Analysis****Information :****Course Code :** SCM 513**Level :** Undergraduate**Course Hours :** 3.00- Hours**Department :** Department of Structural Engineering & Construction Management**Instructor Information :**

Title	Name	Office hours
Associate Professor	MOHAMED GALAL KHALIL IBRAHIM ELSHERBINI	15
Assistant Lecturer	DINA HESHAM MOHAMED HELMY	6
Assistant Lecturer	MOHAMMED TAHER ABDELHAMID MOHAMMED YOUSSEF	8

Description :

Cases of stress and strain in plane and in space, Stress-strain relation, Energy and variational principles, Introduction to the finite element method (element stiffness matrix and force vector, general equations of equilibrium, desemesterination of stresses).