

Faculty of Engineering & Technology

Structural Dynamics & Earthquake Engineering

Information :

Course Code :	SCMx17	Level	:	Undergraduate	Course Hours :	3.00- Hours
Department : Structural Engineering & Construction Management						
Instructor Information :						
Title		Name				Office hours
Associate Professor		MOHAMED GALAL KHALIL IBRAHIM ELSHERBINI				
Assistant Lectur	MOHAMMED TAHER ABDELHAMID MOHAMMED					

Description :

Un-damped and damped free vibration analysis of SDOF systems, Response of SDOF system to harmonic loading, Free vibration analysis of MDOF systems, The nature of earthquake ground motion, Seismicity of the world and of Egypt, Causes of earthquakes, basic glossary and terminology, Seismic waves, Quantification of earthquakes, Damage mechanism, Characteristics of earthquake ground motions, Philosophy of design, Response spectrum analysis.