

**Faculty of Engineering & Technology**  
**Reinforced Concrete & Foundations for Architects**

**Information :**

**Course Code :** SCM318

**Level :** Undergraduate

**Course Hours :** 3.00- Hours

**Department :** Architectural Engineering

**Instructor Information :**

Title	Name	Office hours
Lecturer	Ahmed Mohamed Abdel Moniem Mohamed Soliman	
Assistant Lecturer	Mohamed Ahmed Reda Abas Ahmed	

**Description :**

Design principles of concrete, Fundamentals of reinforced concrete structures, Analysis and design of sections subjected to bending, Loads and load distribution, Reinforcement details of beams, Solid slabs, Columns, Stairs, Statically determinate frames, Ribbed and hollow block slabs, Paneled Beam slabs, Flat slabs. Soil Characteristics and Mechanics, Stress in Soil and Soil Compressibility, Theory of Consolidation and Settlement, Shear Strength of Soil, Compaction of Soil, Lateral Earth Pressure and Retaining Walls, Site Investigation and Selection of Foundation, Bearing Capacity of Soil, Types of Foundation and Design Principles of Foundations.