

**Faculty of Engineering & Technology**  
**Building Construction and City Planning**

**Information :**

**Course Code :** SCM 316      **Level :** Undergraduate      **Course Hours :** 2.00- Hours

**Department :** Department of Structural Engineering & Construction Management

**Instructor Information :**

Title	Name	Office hours
Lecturer	BOTHAINA SAMIH ISMAIL ABOELKHIER BADR	1
Lecturer	Ahmed Mohamed Abdel Moniem Mohamed Soliman	
Assistant Lecturer	SARAH SALAH SAYED HUSSIEN ALI ELSHISHTAWY	

**Area Of Study :**

Upon successful completion of this course, the student should be able to:

- Understand the basic concepts and main principles
- Calculate the values of the essential terms

Regarding working drawings brick walls arrangement foundations & retaining walls lintels & arches Staircases joints streets & land use planning

**Description :**

Building construction techniques: buildings construction phases, wall bearing construction, skeleton construction (RC, Steel), Wall techniques: stone and brick, architectural finishing techniques: arches, stairs design, floorings and plastering, Water and heat proofing techniques, Architectural drawings and symbols techniques, City principals: regional planning, site planning, landscaping, housing development, planning levels and street planning, development schemes , land-use fundamentals, site analysis and distribution.

**Course outcomes :**

**a.Knowledge and Understanding: :**

1 -	List the main items of working drawings
2 -	Describe the main concept of streets & land use planning

**b.Intellectual Skills: :**

1 -	Solve problems regarding brick walls arrangement
2 -	Assess issues of foundations & retaining walls
3 -	Assess issues of Staircases

**c.Professional and Practical Skills: :**

1 -	Draw neat details of brick walls arrangement
2 -	Draw neat details of foundations & retaining walls
3 -	Draw neat details of lintels & arches

4 -	Draw neat details of Staircases
5 -	Draw neat details of joints
6 -	Prepare technical reports for streets & land use planning
<b>d.General and Transferable Skills: :</b>	
1 -	Cooperate and communicate effectively

**Course Topic And Contents :**

Topic	No. of hours	Lecture	Tutorial / Practical
working drawings	8	4	4
brick walls arrangement	8	4	4
foundations & retaining walls	8	4	4
lintels & arches	8	4	4
Staircases	8	4	4
joints	8	4	4
streets & land use planning	8	4	4
Revision	4	2	2

**Teaching And Learning Methodologies :**

Interactive Lec.
Discussion
Problem Solving
Report / Present.

**Course Assessment :**

Methods of assessment	Relative weight %	Week No	Assess What
Final Exam	40.00		
Mid- Exam I, II	30.00		
Quizzes / Assig.	15.00		
Report / Present.	15.00		

**Recommended books :**

- "Building Construction Handbook", 10th Ed., Routledge, 2014  
Additional References: - Handout notes on MOODLE