

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
Professor	Mohamed Saad Atwa Saad	12
Professor	Mohamed Saad Atwa Saad	12
Teaching Assistant	Mohamed Fathy Salem Mohamed	
Teaching Assistant	Sarah Salah Sayed Hussein Aly Elsheshtawy	
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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: :

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

b.Intellectual Skills: :

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

c.Professional and Practical Skills: :

- | | |
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| 1 - | Draw neat details of brick walls arrangement |
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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

d.General and Transferable Skills: :

1 -	Cooperate and communicate effectively
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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