

Faculty of Engineering & Technology

Civil Engineering Drawing 1

Information :

Course Code : SCM 231

Level : Undergraduate

Course Hours : 2.00- Hours

Department : Department of Structural Engineering & Construction Management

Instructor Information :

Title	Name	Office hours
Associate Professor	Yasser Mohamed Sadek Abdel Aziz El Saie	13
Associate Professor	Yasser Mohamed Sadek Abdel Aziz El Saie	13
Assistant Lecturer	MOHAMMED TAHER ABDELHAMID MOHAMMED YOUSSEF	2
Teaching Assistant	Mohamed Fathy Salem Mohamed	
Teaching Assistant	Ahmed Taher Abdelhamed Mohamed Yousef	

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 water way cross-sections crossing of Roads retaining walls arch bridges & regulator culvert & syphon aqueduct & weirs locks

Description :

Introduction: characteristics of civil engineering projects, legend, scales and sizes of drawings, types of projections, views, cross sections and details, Earthwork drawings: geometric surfaces, hatching, use of contour lines for irregular surfaces, applications related to canals, drains, roadways, earth reservoirs, landscape, Retaining walls and floors: shaping, projection, hatching, typical cross sections, Applications on drawing complete structures: half-earth-removed views, pitching and protection works.

Course outcomes :

a.Knowledge and Understanding: :

1 -	Describe the main concept of arch bridges & regulator
2 -	Describe the main concept of culvert & syphon
3 -	Describe the main concept of aqueduct & weirs

b.Intellectual Skills: :

1 -	Assess issues of water way cross-sections
2 -	Assess issues of crossing of Roads

c.Professional and Practical Skills: :

1 -	Draw neat details of water way cross-sections
2 -	Draw neat details of crossing of Roads
3 -	Draw neat details of retaining walls

4 -	Draw neat details of arch bridges & regulator
5 -	Draw neat details of culvert & syphon
6 -	Draw neat details of aqueduct & weirs
7 -	Draw neat details of locks
d.General and Transferable Skills: :	
1 -	Manage time, and resources effectively

Course Topic And Contents :			
Topic	No. of hours	Lecture	Tutorial / Practical
water way cross-sections	12	0	12
crossing of Roads	8	0	8
retaining walls	8	0	8
arch bridges & regulator	8	0	8
culvert & syphon	8	0	8
aqueduct & weirs	8	0	8
locks	4	0	4
Revision	4	0	4

Teaching And Learning Methodologies :
Interactive Lec
Discussion
Problem Solving

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		-

Course Notes :
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Recommended books :
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Periodicals :
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Web Sites :

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