

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
Lecturer	Moustafa Mokhtar Moustafa Mohamed	7
Assistant Lecturer	MOHAMMED TAHER ABDELHAMID MOHAMMED YOUSSEF	2

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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