

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 :

- 1) Draw structures related to civil engineering projects.
- 2) Use the techniques, skills, and appropriate engineering tools, necessary for engineering practice.
- 3) Demonstrate knowledge of contemporary engineering issues.

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 - Recall basics of engineering graphics and civil engineering drawings.
- 2 - List the main elements in plan, elevation and side view of the given drawing.

b.Intellectual Skills: :

- 1 - Analyze and compare between structures.

c.Professional and Practical Skills: :

- 1 - Draw neat detailed drawings.

d.General and Transferable Skills: :

- 1 - Manage time and meet deadlines.

Course Topic And Contents :

Topic	No. of hours	Lecture	Tutorial / Practical
Projection of water way cross-sections. Slope in Bed of Canal, and Slope in Berm, Bank, Types of changing of slopes and curves.	12	0	12

Course Topic And Contents :

Topic	No. of hours	Lecture	Tutorial / Practical
Crossing of Roads-Curve on slope, Curved Arches-Types of retaining walls.	8	0	8
Arch Bridges, Arch Regulator	12	0	12
Culvert, Syphon.	12	0	12
Aqueduct, Weirs	8	0	8
Locks	8	0	8

Teaching And Learning Methodologies :

Tutorials

Course Assessment :

Methods of assessment	Relative weight %	Week No	Assess What
Final Exam	40.00		-
Mid-term Exam	20.00		-
Performance	20.00		-
Quizzes	20.00		-

Course Notes :

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Recommended books :

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Periodicals :

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Web Sites :

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