

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	Dina Yehia Zakaria Ewais	
Assistant Lecturer	MOHAMMED TAHER ABDELHAMID MOHAMMED YOUSSEF	2

Area Of Study :

- Demonstrate knowledge and understanding of Civil Drawing (Earth works and Irrigation structures).
- Recognize the different types of Irrigation Structures.
- Draw and illustrate the different views of the Structure

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 - Study the given Drawing (Isometric or views).
- 2 - - Drawing the main elements in plan, elevation and side views of the given drawing
- 3 - - Drawing the remaining elements.
- 4 - Drawing the Dimensions and finishing the Drawing

b.Intellectual Skills: :

- 1 - Analyze and compare between Structures
- 2 - Search for different Structures in Internet

c.Professional and Practical Skills: :

- 1 - Visiting local Structures
- 2 - Making model of a Structure.

d.General and Transferable Skills: :

- 1 - Preparing report containing pictures of all Structures
- 2 - Practice working in a team to make the report

Course Topic And Contents :

Topic	No. of hours	Lecture	Tutorial / Practical
Defintion of earth works	4	0	4
Channel cross section	4	0	4
Channel change in leveling and rotation	10	0	10
Different types of wing wall	10	0	10
Bridges	12	0	12
Culverts	8	0	8
Regulators & wiers	8	0	8

Teaching And Learning Methodologies :

Lectures
Tutorials
Internet search
Local visits

Course Assessment :

Methods of assessment	Relative weight %	Week No	Assess What
Assignments	5.00	10	-
Final-term Examination	40.00	14	-
Mid-Term Examination	40.00	6	-
Quiz	5.00	9	-
total	100.00	15	-

Course Notes :

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Recommended books :

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Periodicals :

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Web Sites :

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