FUTURE UNIVERSITY IN EGYPT
جامعة المستقبل

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	8
Assistant Lecturer	MOHAMMED TAHER ABDELHAMID MOHAMMED YOUSSEF	2

Area Of Study :

ÅDemonstrate knowledge and understanding of Civil Drawing (Earth works and Irrigation structures).
ÅRecognize the different types of Irrigation Structures.
ÅDraw 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

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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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