

Faculty of Engineering & Technology

Geo-informatics 2

Information :

Course Code : SCM 322	Level	:	Undergraduate	Course Hours :	2.00- Hours

Department : Department of Structural Engineering & Construction Management

Instructor Information :

Title	Name	Office hours
Professor	Ayman Fouad Mohammed Ragab	13
Professor	Ayman Fouad Mohammed Ragab	13
Teaching Assistant	Ahmed Taher Abdelhamed Mohamed Yousef	
Teaching Assistant	Ahmed Salah Rashad Ahmed Abdelhakk	4
Teaching Assistant	Sarah Salah Sayed Hussein Aly Elsheshtawy	

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
- Carry out the related tests

Regarding geographic information system Data formats & topology electromagnetic distance measurements figure of earth geodetic coordinate global positioning system map projection

Description :

Earth surface, Geodetic coordinate Systems, Geodetic networks, Fundamentals of satellite geodesy, Global positioning system GPS, Map projections, Fundamentals and structure of Geographic information systems GIS.

Course ou	itcomes :	
a.Knowledge and Understanding: :		
1 -	Define the main terms of geographic information system	
2 -	List the main items of Data formats & topology	
3 -	Explain the principals of electromagnetic distance measurements	
4 -	Describe the main concept of global positioning system	
5 -	Define the main terms of map projection	
b.Intellect	ual Skills: :	
1 -	Calculate the values of electromagnetic distance measurements	
2 -	Calculate the values of geodetic coordinate	
3 -	Assess issues of global positioning system	
4 -	Solve problems regarding map projection	



5 -Solve problems regarding figure of earth c.Professional and Practical Skills: : Prepare technical reports for Data formats & topology 1 -2 -Prepare technical reports for map projection d.General and Transferable Skills: : Cooperate and communicate effectively 1 -

Course Topic And Contents :

Торіс	No. of hours	Lecture	Tutorial / Practical
geographic information system	4	2	2
Data formats & topology	8	4	4
electromagnetic distance measurements	8	4	4
figure of earth	8	4	4
geodetic coordinate	12	6	6
global positioning system	8	4	4
map projection	8	4	4
Revision	4	2	2

Teaching And Learning Methodologies :	
Interactive Lec.	
Discussion	
Problem Solving	
Report / Present.	

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 :

Recommended books :

Periodicals :



Web Sites :

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