Planning and Quality Assurance Affairs

Form (A)

Course Specifications

General Information

Course name	GIS (Globlal Information system)
Course number	GEOL3339
Faculty	
Department	
Course type	Major Needs
Course level	3
Credit hours (theoretical)	2
Credit hours (practical)	1
Course Prerequisites	

Course Objectives

1 - 1. Understand the purposes of GIS and the kinds of problems to which GIS is applied. 2. Understand the fundamental types of GIS data, including raster and vector data

Intended Learning Outcomes

Knowledge and Understanding	* Students successfully completing this course should be able to: 1. Be proficient with a commercially available GIS software package. 2. Be able to explain and perform spatial data retrieval tasks. 3. Use GIS operators to perform a number of kinds of analyses. 4. Be prepared to use GIS to support personal and professional decision making

Course Contents

1 - This course introduces the software components of a Geographic Information Systems and reviews GIS applications. Topics include data structures and basic functions, methods of data capture and sources of data, and the nature and characteristics of spatial data and objects. Upon completion, students should be able to identify GIS hardware components, typical operations, products/applications, and differences between database models and between raster and vector systems

Teaching and Learning Methods

1 - Lectures

2 - Sofwares

3 - Exercises

4 - Assiments

5 - LCD

Students Assessment

Assessment Method	TIME	MARKS
Assiments		20
Midterm exam		30
Practical Final Exam		20
Final Exam		30

Books and References

Recommended books	Mastering ArcGIS, 5th ed., Maribeth Price, McGraw-Hill, 2012, ISBN: 978-0-07-336932-7

Knowledge and Skills Matrix

Main Course Contents	Study Week	Knowledge and Understanding	Intellectual Skills	Professional Skills	General Skill
This course introduces the software components of a Geographic Information Systems and reviews GIS applications					
	15 weeks				
		Geology , Geodesy, Maping, Cartography, Water Resources			
			Computer Skills		
				Computer Skills	
					Computer Skills