Surveying Engineering Program Department of Civil Engineering College of Engineering King Saud University



King Saud Universit	y			
SE 467 Web GIS				
Credit and Contact hours	3 / 3 (Lectures), 1 (Tutorials), 0 (Laboratory)			
Required, or Elective	Elective for a BSCE degree			
Course Description	Web based GIS concept, Fundamentals and Evolution. Instruction on the Web interface design, networking fundamentals, geographic mark-up language, service and security in Web based GIS, Web mapping software and Web based GIS applications including voluntary geographic information. Mobile GIS technology. Geoportals. Future trends.			
Prerequisites or Co- requisites	XXXX			
Course Learning Outcomes	Students completing this course successfully will be able to			
Outcomes	Course Learning Outcomes	Related Student Outcomes (SO)		
	CLO1: Discuss how to design Web GIS interface;	SO7		
	CLO2: Develop Web based GIS applications	SO2		
	CLO3: Solve problems in Mobile GIS technology	SO1		
Student Outcomes	 SO1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics, and using modern engineering tools. SO2: an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors. SO7: an ability to acquire and apply new knowledge as needed, using appropriate learning strategies 			
Topics Covered	List of Topics	Related CLOs		
	1. Web based GIS concept	CLO1		
	2. Instruction on the Web interface design	CLO1		
	3. networking fundamentals	CLO2		
	4. geographic mark-up language	CLO3		
	5. service and security in Web based GIS	CLO1		
	6. Web mapping software and Web based GIS applications	CLO2		

	7. Mobile GIS technology		CLO4
	8. Future trends		CLO4
Textbook(s) and	Textbook: Fu, P & Sun, J. 2010, Web GIS: principles and applications, ESRI Press,		
Other Required Material	Redlands, Calif.		
Grading System	Tutorials problems and attendance	20%	
	Mid-Term 1	20%	
	Mid-Term 2	20%	
	Final Exam	40%	
Instructors	Dr. Bashar Kamal Bashir (2A19); e-mail: bbashir@ksu.edu.sa - (2 nd Semester 20-21)		
Date of Review	Nov, 2020		