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



King Saud University			
	SE 315 Map Projections		
Credit and Contact hours	[3]; 2 (Lectures), 1 (Tutorials), 2 (Laboratory)		
Required, or Elective	Required for a BSCE degree		
Course Description	General theory of map projection; study of some famous map projections (Cylindrical; Conical and Azimuthal); map projections applied in KSA; map projections applications.		
Prerequisites or Corequisites	SE 314		
Course Learning	Students completing this course successfully will be able to		
Outcomes	Course Learning Outcomes	Related Student Outcomes (SO)	
	CLO1. Explain the process of representations of a curved earth on a flat map surface.	SO1	
	CLO2. Select an appropriate map projection in map design process	SO1	
	CLO3. Develop map using analysis skills	SO7	
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 [ABET 1]. SO 7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies		
Topics Covered	List of Topics	Related CLOs	
	Introduction	CL01	
	General theory of map projection	CL01	
	Cylindrical projections	CLO2	
	Conical projections	CLO2	
	Azimuthal projections	CLO2	
	Map projections applied in KSA	CLO2	
	Applications	CLO3	

Textbook(s) and Other Required Material	Textbook: Map Projections: A Reference Manual L M Bugayevskiy, John Snyder, 4th edition, 1995		
Grading System	Tutorials problems and attendance	10%	
	2 Field work reports	20%	
	2 Mid-Terms	30%	
	Final Exam	40%	
Instructors	Prof. Hasan M Bilani; email: hbilani@ksu.edu.sa		
Date of Review	Nov, 2020		