

SE 473 Professional and Legal Aspects of Surveying

Credit and Contact hours	3 / 2(Lectures); 0(Tutorials); 2(Laboratory)													
Required, or Elective	Required for a BSCE degree													
Course Description	Introduction to real state registration & its systems; real state registration surveying; special law principals related to transfer & endorsing real state ownership procedures in the Kingdom of Saudi Arabia; managing of land information & its systems; needs & surveying practicing in the Kingdom of Saudi Arabia; planning & cost estimation for surveying projects; preparation of specifications & special technical conditions for carrying out surveying projects; managing surveying projects; advanced topics.													
Prerequisites or Co-requisites	SE 315													
Course Learning Outcomes	Students completing this course successfully will be able to <table border="1" style="width: 100%; margin-top: 10px;"> <thead> <tr> <th style="text-align: center;">Course Learning Outcomes</th> <th style="text-align: center;"><i>Related Student Outcomes (SO)</i></th> </tr> </thead> <tbody> <tr> <td>CLO1: Explain principles of practicing the profession of surveying engineering (in KSA)</td> <td style="text-align: center;">SO4</td> </tr> <tr> <td>CLO2: Conduct cadastral surveying, determine land parcel area, length and direction of division line</td> <td style="text-align: center;">SO1</td> </tr> <tr> <td>CLO3. Perform writing technical reports and presentation skills on topics related to execution of survey projects and legal aspects of surveying</td> <td style="text-align: center;">SO3</td> </tr> </tbody> </table>		Course Learning Outcomes	<i>Related Student Outcomes (SO)</i>	CLO1: Explain principles of practicing the profession of surveying engineering (in KSA)	SO4	CLO2: Conduct cadastral surveying, determine land parcel area, length and direction of division line	SO1	CLO3. Perform writing technical reports and presentation skills on topics related to execution of survey projects and legal aspects of surveying	SO3				
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Student Outcomes	SO4:..an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts. SO3: an ability to communicate effectively with a range of audiences. SO1: an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics, and using modern engineering tools													
Topics Covered	<table border="1" style="width: 100%; margin-top: 10px;"> <thead> <tr> <th style="text-align: center;">List of Topics</th> <th style="text-align: center;">Related CLOs</th> </tr> </thead> <tbody> <tr> <td>1. Introduction</td> <td style="text-align: center;">CLO1</td> </tr> <tr> <td>2. Surveying profession requirements</td> <td style="text-align: center;">CLO1</td> </tr> <tr> <td>3. Principles of real-estate registration</td> <td style="text-align: center;">CLO3</td> </tr> <tr> <td>4. Real-estate registration systems</td> <td style="text-align: center;">CLO3</td> </tr> <tr> <td>5. KSA real-estate registration system</td> <td style="text-align: center;">CLO3</td> </tr> </tbody> </table>		List of Topics	Related CLOs	1. Introduction	CLO1	2. Surveying profession requirements	CLO1	3. Principles of real-estate registration	CLO3	4. Real-estate registration systems	CLO3	5. KSA real-estate registration system	CLO3
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	6. Cadastral Surveying and Land Information System, LIS	CLO2
	7. Land Parcel borders and divisions & surveying instruments	CLO2
	8. Surveying plans, project management and project handover	CLO1
	9. General Safety requirements & preparing surveying plans	CLO1
	10. Quantity Surveying calculations & surveying plans distribution	CLO2
	11. Terms & conditions of surveying contracts	CLO3
Textbook(s) and Other Required Material	Textbook:	
Grading System	Tutorials problems and Essays 30% Mid-Term 1 15% Mid-Term 2 15% Final Exam 40%	
Instructors	Prof. Ismat El Hasan (2A44); email: ismat@ksu.edu.sa	
Date of Review	Nov, 2020	