

AL IMAM MOHAMMAD IBN SAUD ISLAMIC UNIVERSITY COLLEGE OF ENGINEERING Department of Mechanical Engineering

Course Information		
Course Code and Name:	ME413 Corrosion Engineering	
Credit Hours:	3 (3 Lecture + 1 Tutorial)	
Prerequisites:	ME211 Materials Science and Engineering	

Course Description

This course is designed to introduce basic and modern concepts of corrosion engineering, including mixed potential theory, types of corrosion, cell potentials, factors influencing the corrosion rate of metals, and prevention techniques. The corrosion properties of materials and their applications are also discussed.

		Textbook	
Title	Corrosion Engineering		
Authors	Mars G. Fontana		
Publisher	McGraw-Hill,New York	Year and Edition	1986, 3 rd Edition

Course Contents	
Introduction to Corrosion Engineering	
Corrosion Principles	
Eight Forms of Corrosion	
Materials	
Corrosion Prevention	
Modern Theory - Principles	
Modern Theory - Applications	

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