



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

#### Course Information

Course Code and Name:	ME414 Processing of Polymer Materials
Credit Hours:	3 (3 Lecture + 1 Tutorial)
Prerequisites:	ME 211 Materials Science and Engineering; ME 363 Manufacturing Technology

#### Course Description

This course covers chemistry and classification of polymers, crystal structure and morphology of polymers, physical and chemical characterization of polymers, manufacturing methods of plastics/composites, and materials and properties of polymer composites.

#### Textbook

Title	Plastics: Product Design and Process Engineering		
Authors	Harold Belofsky		
Publisher	Hanser	Year and Edition	1995

#### Course Contents

Introduction
Chemistry and Classification of Polymers
Crystal Structure and Morphology
Physical and Chemical Characterization of Polymers
Extrusion Processes
Injection Molding Processes
Blow Molding Processes
Other Thermoplastic-Forming Processes
Materials and Properties of Polymer Composites

<b>Academic Coordinator</b>	<b>Signature</b>
Prof. Dr. Sabbah Ataya	<i>S. Ataya</i>

Official Stamp

