



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

Course Information	
Course Code and Name:	ME 443 Turbomachinery
Credit Hours:	3 (3 Lecture + 1 Tutorial)
Prerequisites:	ME 323 Thermodynamics II

Course Description
Applying energy, momentum, and continuity equations of thermo-fluids to turbo-machinery, Blade geometry and aerodynamics. Performance and design parameters. Turbo-machine design.

Textbook			
Title	Turbomachinery: Design and Machinery		
Authors	Rama S. R. Gorla and Aijaz A. Khan		
Publisher		Year and Edition	

Course Contents
Introduction
Hydraulic Pumps
Hydraulic Turbines
Centrifugal Compressors and Fans
Axial Flow compressors and Fans
Steam Turbine Design
Cavitation in hydraulic machinery

Academic Coordinator	Signature
Dr. Syed Muhammad Fakhir Hasani	



Official Stamp