



University of Tehran
School of Electrical and Computer Engineering

Course:	8101156 – High Voltage Technology		
Course type:	Required for Power System and High voltage section and Elective for others	EE*	Credit: 3
Level:	Graduate		
Co-requisite(s):			
Prerequisite(s):			
Prerequisite by topic:	Fundamentals of high voltage engineering		
Textbook(s):	[1] M. Abdel-Salam, <i>High-Voltage Engineering, Theory and Practice</i> , Marcel Dekker, 2000.		
Coordinator:	Hossein Mohseni, Amir Abbas Shayegani Akmal		
Goals:	The goal of the course is to Students know the construction of high voltage apparatus and devices and the standard testing of them.		
Outcome:	Upon successful completion of the course, students will be able <ol style="list-style-type: none"> 1. To know the construction and manufacturing procedure of high voltage apparatus. 2. To perform the standard testing procedure for them 		
Topics:	<ol style="list-style-type: none"> 1- Ceramic, glass and composite insulators 2- Testing of ceramic and glass insulators 3- Testing of composite insulators 4- Bushings and its construction 5- Insulation of Instrumentation transformers and its testing 6- Cable termination 7- Insulation of electric machines 8- High voltage cable 9- High voltage capacitors 10- Insulation of power transformers windings 		
Computer usage:			
Assignments:			

Projects:	The new technologies around the high voltage
Grading:	Project: 10 % Quiz: 10 % Midterm exams: 30 % Final exam: 50 %
Further readings:	[1] H. M. Ryan, <i>High Voltage Engineering and Testing</i> , IEE, 2001.
Prepared by:	Amir Abbas Shayegani akmal
Date:	January 03, 2011

*EE: Electrical Engineering CE: Computer Engineering IT: Information Technology