



University of Tehran
School of Electrical and Computer Engineering

Course:	Power System Analysis2		
Course type:	Required	EE*	Credit: 3
Level:	UnderGraduate		
Co-requisite(s):	-		
Prerequisite(s):	Power System Analysis I		
Prerequisite by topic:	Knowledge of fundamentals of Power Systems		
Textbook(s):	1. H. Saadat: <i>Power System Analysis – 2nd Edition</i> (McGraw Hill, 2004). 2. J.J. Grainger and W.D. Stevenson, Jr.: <i>Power System Analysis</i> (McGraw Hill, 1994).		
Coordinator:	Afsharnia, Saeed		
Goals:	The aim of the course is to provide students with a complete overview of interconnected power system analysis and design.		
Outcome:	At the completion of the course students should be able: -to develop appropriate models for an interconnected power system, -to perform short circuit and transient stability analysis. -to perform frequency and voltage regulation with a synchronous generator,		
Topics:	1- Symmetrical & Unsymmetrical Faults. 2- Transient Stability. 3- Frequency & Voltage Control. 4- Economic Generation Dispatching		
Computer usage:	Digsilent		
Assignments:	-		
Projects:			
Grading:	Midterm examination 30% Final examination 50% Homework & Quiz 20%		

Further readings:	-
Prepared by:	Afsharnia, Saeed
Date:	November 2017

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