

KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS
Department of Electrical Engineering

EE-463 Power System Analysis
Course syllabus 161

Dr. Ibrahim Omar Habiballah

OFFICE	PHONE	OFFICE HOURS	E-MAIL
59-2080	4985	MTW 11:00-11:50 am	ibrahimh@kfupm.edu.sa

Course Timing: MW 12:45 - 2:00 pm

Course Location: 59-1011

Textbook: Power System Analysis, by **Hadi Saadat**, McGraw Hill WCB, 3rd ed., 2010

Chapters	No. of Weekes	Topics	Home Work Problems (Plus Extra Assignments)
2-3, 5	2	Basic Concepts; (Chapter 2, 3.2, 3.6, 5.2, 5.3) Per-Unit System (3.13,3.14)	2.3,2.5,2.15 3.11,3.13,3.15
6	4	Power Flow Analysis (6.1-6.10)	6.1(a), 6.7(a,b), 6.12
9	2	Balanced Fault (9.1-9.5)	9.2, 9.4, 9.6
10	4	Symmetrical Components and Unbalanced Fault (10.1-10.9)	10.1, 10.9, 10.13, 10.16
11	2	Stability (11.1-11.6)	11.5, 11.7
	1	Project Presentations	

Grading:

Quizzes, and Attendance	:	20 (18, 2)
Midterm-Exam 4th Dec, 2016 (5:00-7:00 pm)	:	25
Project	:	25
Final Exam 19th Jan, 2017 (8:00-11:00am)	:	30

You are strongly encouraged to work out all homework problems. You are also encouraged to discuss the homework with your colleagues. However, homework solutions won't be collected. The solution will be posted after the end of each module. A quiz will be given afterwards.

Project:

The term project is to simulate analysis and planning cases for a practical power system. The details of the project will be elaborated by the instructor. Each student will be asked to defend his work individually.