

Electrical Power Engineering



By



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Course Code: EPE 223

Study Hours: 4 Lect. + 2 Tut





Assessment:

Final Exam: 67% .

Midterm: 20% .

Year Work & Quizzes: 13%.

Textbook:

Hadi Saadat, Power System Analysis



Syllabus

1

- Introduction.

2

- Fundamentals of electrical power engineering.

3

- A.C and D.C power transmission.

4

- A.C and D.C power distribution.

5

- Interconnections of power systems.

6

- Transmission and distribution system.

7

- Substations and circuit breakers.

Cont.

8

- Overhead lines.

9

- Cable Systems.

10

- Transformers.

11

- Connection of "green-energy" generation to power systems.

12

- Protection of individuals, equipment and power system installations.

13

- Protective devices and insulation co-ordination.

14

- Generation of high voltage systems.

Cont.

15

- Natural Causes for over voltages.

16

- Overvoltages and insulation coordination.

17

- Earthing system.

**Thank You
For Your Attention**



*Mohamed Ahmed
Ebrahim*