

Approval: 1st Convocation Adhoc Meeting

Course Name: Power System

Course No.: EE 303

Credits: 3-0-0-3

Prerequisites

Students intended for: B.Tech.

Elective or Compulsory

Semester Odd/Even

Course contents:

Introduction to Power Systems and its structure, An overview of conventional and non-conventional energy sources, Representation of power system components, Transmission line parameters Performance of transmission lines, Over-head line insulators, Underground cables, An overview of distribution systems, Substation arrangement, Symmetrical components Fault Analysis, Economic dispatch, Basic concepts of load flow, Power system stability

References

1. D.P. Kothari and I.J. Nagrath, "Modern Power System Analysis", TataMcGraw Hill.
2. J.J. Grainger and W.D. Stevenson, "Power System Analysis", TataMcGraw Hill.
3. Hadi Saadat, "Power System Analysis", TataMcGraw Hill.
4. O.L. Elgerd, "Electric Energy Systems Theory: An Introduction", TataMcGraw Hill.
5. Syed A Nasar, "Electric Power Systems", TataMcGraw Hill.
6. NPTEL lecture notes