

**VNR VIGNANA JYOTHI INSTITUTE OF ENGINEERING &  
TECHNOLOGY**

**M. TECH - POWER SYSTEM (PS)**

**PROGRAM EDUCATIONAL OBJECTIVES (PEO) FOR M.TECH POWER SYSTEMS (PS) PROGRAM:**

The Post Graduates of Power Systems program will

- I. Be eminent power engineers capable of playing significant role in the private and public power sectors or carrying out related research activities at academic and research institutions.
- II. Apply their knowledge and skills of power system engineering with an understanding of realistic constraints for the overall benefit of the society.
- III. Work and communicate effectively in inter-disciplinary environment, either independently or in a team and demonstrate leadership qualities.
- IV. Engage in life - long learning and professional development through self-study, continuing education or professional and doctoral level studies.

**PROGRAM SPECIFIC OUTCOMES (PSOS):**

- a. Apply advanced level knowledge, techniques, skills and modern tools of power system engineering. **(PSO1)**
- b. Design advanced level power system, components, or processes to meet identified needs within economic, environmental and social constraints. **(PSO2)**
- c. Demonstrate knowledge of contemporary issues in the area of power system engineering. **(PSO3)**
- d. Manage projects related to power systems in multidisciplinary environments.

## **Program Outcomes for M.Tech Power System (PS) Program:**

Upon completion of the M.Tech Power System (PS) programme, students will be able to

- a. Apply advanced level knowledge, techniques, skills and modern tools of power system engineering.
- b. Design advanced level power system, components, or processes to meet identified needs within economic, environmental and social constraints.
- c. Function on multidisciplinary teams, working cooperatively, respectfully, creatively and responsibly as a member of a team.
- d. Identify, formulate and solve power system related problems using advanced level computing techniques.
- e. Communicate effectively by oral, written, computing and graphical means.
- f. Acquire and demonstrate the professional, social, moral and ethical responsibility
- g. Understand the impact of power engineering solutions in a global, economic, environmental and societal context.
- h. Recognize the needs to engage in lifelong learning through continuing education and research.
- i. Demonstrate knowledge of contemporary issues in the area of power system engineering.
- j. Manage projects related to power systems in multidisciplinary environments.
- k. Propose, plan and execute projects subjected to financial, personnel and time constraints in allied fields assimilating power systems advancements.