

## M.Tech (PSE)

### PO and its Attributes:

S.No.	PO	Attributes
1.	Acquire technical competence, comprehensive knowledge and understanding the methodologies and technologies of power system operation and control, principles and practices of energy management	<b>Erudition of Knowledge</b>
2.	Ability to apply the knowledge of mathematics, science, engineering and technology. Understand in detail, analyse, formulate and solve the issues pertaining to the application of power system technologies.	<b>Critical Thinking</b>
3.	Acquiring the ability to identify, investigate, understand and analyse complex problems pertaining to power management in power industries and identify effective solution strategies for implementation.	<b>Problem Solving</b>
4.	Inculcate the role of research in developing and maintaining knowledge of the state-of-the-art in various power technologies. Acquire the skill to design, develop and modify systems in hardware and software platforms to meet desired needs within realistic constraints.	<b>Research Skill</b>
5.	Create, select and apply appropriate techniques, resources, modern engineering to complex engineering activities in the field of power system, control and energy management	<b>Usage of Modern tools</b>
6.	Acquire the capacity to understand and summarize complex information pertaining to various fields of engineering in industries. Function effectively as an individual, and as a member or leader in a team	<b>Collaborative and Multidisciplinary work</b>
7.	Acquire the skill to develop specifications, implement and critically assess projects and their outcomes. Demonstrate management, leadership and entrepreneurial skills, and apply these to one's own work, as a member and a leader in a team to manage projects in multidisciplinary environments	<b>Project Management and Finance</b>
8.	Ability to communicate effectively in both oral and written contexts in the form of technical papers, project reports, design documents and seminar presentations.	<b>Communication</b>
9.	Recognize the need for, and acquire the ability to engage in self-improvement through continuous professional development and life-long learning to maintain an up-to-date knowledge of contemporary issues in various fields of engineering.	<b>Life-long Learning</b>
10.	Apply and commit to professional ethics and responsibilities of engineering practice. Understand the importance of sustainability and cost effectiveness in design and development of engineering solutions for	<b>Ethical Practices and Social Responsibility</b>

	industries and their impacts in societal and environmental context. Demonstrate awareness of societal, safety, health, legal and cultural issues relevant to professional engineering practice.	
<b>11.</b>	Impart an eagerness to conduct investigation and research on chosen field of study and thus keep moving towards being adaptive, self-reliant and self evaluative.	<b>Independent and Reflective Learning</b>