

	<b>MATRUSRI ENGINEERING COLLEGE</b>	Criteria No: 1
	<b>NBA Documentation</b>	Sheet No.: 1 of 1
	<b>Dept: EEE</b>	Rev. No.: 01
	<b>Title: PEOs, POs and PSOs</b>	Date: 18.08.2017

### **PROGRAM EDUCATIONAL OBJECTIVES:**

- To provide solution to the problems in modern technological society as responsible engineers to serve industry, scientific community, and society.
- To succeed in higher studies through lifelong learning.
- To perform leadership skills and communicate effectively with multi-disciplinary teams.
- To demonstrate professional skills with high ethical values.

### **PROGRAM OUTCOMES:**

Upon completion of the program, the student will be able

1. Apply the knowledge of basic sciences and fundamental engineering concepts in solving engineering problems.
2. Identify and define engineering problems, conduct experiments and investigate to analyze and interpret data to arrive at substantial conclusions.
3. Propose an appropriate solution for engineering problems complying with functional constraints such as economic, environmental, societal, ethical, safety and sustainability.
4. Perform investigations, design and conduct experiments, analyze and interpret the results to provide valid conclusions.
5. Select/develop and apply appropriate techniques and IT tools for the design & analysis of the systems.
6. Give reasoning and assess societal, health, legal and cultural issues with competency in professional engineering practice.
7. Demonstrate professional skills and contextual reasoning to assess environmental/societal issues for sustainable development.
8. Demonstrate Knowledge of professional and ethical practices.
9. Function effectively as an individual, and as a member or leader in diverse teams, and in multi-disciplinary situations.
10. Communicate effectively among engineering community, being able to comprehend and write effectively reports, presentation and give / receive clear instructions.
11. Demonstrate and apply engineering & management principles in their own / team projects in multidisciplinary environment.
12. Recognize the need for, and have the ability to engage in independent and lifelong learning.

### **PROGRAM SPECIFIC OUTCOMES:**

1. Apply appropriate techniques, hardware and software tools to design, analyze and test various systems in power electronics and power systems engineering adaptable to multi-disciplinary environments.
2. Identify the optimal solutions for industrial and societal electrical energy requirements by applying suitable design and control strategies.

Prepared by:	Reviewed & forwarded:	Reviewed & Approved by	Issue Date: 18.08.2017
HOD	NBA Coordinator	PRINCIPAL	