



# JADAVPUR UNIVERSITY

## Electrical Engineering Department

### Vision and Mission of the Department

#### *Vision of the Department:*

To impart quality and holistic education in the field of Electrical Engineering so as to cater to the prevalent and emerging needs of the society and the industry.

#### *Mission of the Department:*

**M1:** To impart rigorous knowledge of applied science and technology relevant to the Electrical Engineering discipline.

**M2:** To ensure engineering proficiencies amongst the students that is at par with the global standard.

**M3:** To adequately expose the students to the ethical and societal values for nation building.

**M4:** To impart state of the art academic perspective that would motivate the students to pursue quality research.

**M5:** To inculcate leadership qualities among the students in a collaborative and innovative environment while facing emerging challenges.

#### *Program Educational Objectives:*

The Electrical Engineering graduates should be able to

**PEO1:** Model, analyse and design industrial electrical systems and processes.

**PEO2:** Take active role in developing state-of-the-art electrical and allied system solutions and in maintaining the same at national and international levels.

**PEO3:** Identify the ethical aspects in managerial activities for technological advancement at national and international levels.

**PEO4:** Pursue higher studies in premier institutes world-wide in core and inter-disciplinary fields and contribute effectively in quality research.

**PEO5:** Indulge in life-long learning leading towards an enlightened society.

#### **Mission - PEO matrix:**

PEO Statements	M1	M2	M3	M4	M5
PEO1: Model, analyse and design industrial electrical systems and processes	3	2	1	1	1
PEO2: Take active role in developing state-of-the-art electrical and allied system solutions and in maintaining the same at national and international levels	2	3	1	1	1
PEO3: Identify the ethical aspects in managerial activities for technological advancement at national and international levels	2	2	3	2	2
PEO4: Pursue higher studies in premier institutes world-wide in core and inter-disciplinary fields and contribute effectively in quality research	2	2	2	3	2
PEO5: Indulge in life-long learning leading towards an enlightened society	1	1	2	2	3

(3 – Strong, 2 – Moderate and 1 – Weak)

### **Program Specific Outcomes (PSO)**

Electrical Engineering Graduates will be able to

**PSO1: Extensive Laboratory Exposure:** Conduct laboratory experiments independently as well as in group through involved exposure acquired in the specially designed laboratory set-ups.

**PSO2: Specialized Knowledge:** Deal with complex problems in advanced and specialized areas of electrical engineering, applying their expertise acquired through one of the six elective areas consisting of the state-of-the-art theoretical content, project design, computation and seminar presentation.

**PSO3: Multidisciplinary Capability:** Apply themselves in multidisciplinary fields of engineering and technology through the introduction to a variety of specially designed courses, both as compulsory and special papers