



JADAVPUR UNIVERSITY

Instrumentation and Electronics Engineering Department

Vision and Mission of the Department

Vision of the Department:

To grow as a diverse and socially responsible community promoting high quality learning in Instrumentation and Electronics Engineering.

Mission of the Department:

The mission of the Instrumentation and Electronics Engineering Department is

- To inculcate in its graduates the best of global learning and technology in the multidisciplinary aspects of Instrumentation and Electronics Engineering with a thrust on Basic Sciences and Humanities.
- To inspire its graduates to achieve excellence in education and research in order to extend the benefits of improved technology to both the rural and urban populations.
- To create leaders capable of self-reliant industrial development that enables a more humane and just world.
- To prepare employable graduates capable of continuous learning, team work and exhibiting ethical professionalism.

Program Educational Objectives:

Instrumentation and Electronics Engineering graduates will

- **PEO 1:** *Excel in their professional careers with proficiency in designing solutions to various engineering problems using multidisciplinary skills.*
- **PEO 2:** *Pursue higher education and research with sound knowledge in basic sciences, social sciences and the multidisciplinary aspects of engineering.*
- **PEO 3:** *Provide leadership in existing industries and/or start ups.*
- **PEO 4:** *Exhibit ethical professionalism with social and environmental values, team work and ability for continuous learning.*

Mission - PEO matrix:

PEO Statements	M1	M2	M3	M4
Excel in their professional careers with proficiency in designing solutions to various engineering problems using multidisciplinary skills	3	2	1	1
Pursue higher education and research with sound knowledge in basic sciences, social sciences and the multidisciplinary aspects of engineering	2	3	2	1
Provide leadership in existing industries and/or start ups	1	1	3	2
Exhibit ethical professionalism with social and environmental values, team work and ability for continuous learning	1	1	2	3

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

Program Specific Outcomes (PSO)

Instrumentation and Electronics Engineering graduates will be able to

PSO1: Acquire hands on training on electronic system design, process instrumentation and control systems.

PSO2: Solve real life industrial and research problems by applying domain knowledge and skills.

PSO3: Identify community specific problems and provide acceptable technical solutions to them using a multidisciplinary approach.