



Institute of Engineering & Science

**IPS ACADEMY** ISO 9001-2008 Certified

Approved by AICTE New Delhi, M.P. Govt. & Affiliated to RGPV, Bhopal

Knowledge Village, Rajendra Nagar, A.B. Road, Indore-452012 (M.P.) Ph. : 0731-4014601-603  
TeleFax : 0731-4014602, Website: [www.ipsacademy.org](http://www.ipsacademy.org), Email: [director.ies@ipsacademy.org](mailto:director.ies@ipsacademy.org)

## Department of Electrical & Electronics Engineering

### Program Education Objective (PEOs)

- PEO 1:** Education in the fundamental sciences and mathematics that underlie Electrical and electronics engineering with a general breadth and depth in Electrical and electronics engineering analysis and design.
- PEO 2:** Awareness of current technology and the fundamental background to be able to stay informed and adept at new technologies in Electrical and electronics engineering and to pursue higher studies.
- PEO 3:** The ability to put ideas into practice through effective analysis & problem solving for various Electrical and electronics engineering applications.
- PEO 4:** A broad awareness of the world around them through general education so they are prepared to achieve their potential and make contributions in their Electrical and electronics engineering fields.
- PEO 5:** The foundation of communications and teamwork skills and professional attitudes and ethics.



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## Department of Electrical & Electronics Engineering

### Program Outcomes (POs)

- a) Ability to apply knowledge of mathematics, physics, chemistry and mechanics in electrical and electronics engineering.
- b) Ability to design and conduct experiments, as well as to analyze and interpret data in electrical and electronics engineering.
- c) Ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, health and safety, manufacturability, and sustainability.
- d) An ability to visualize on laboratory of electrical and electronics engineering & multidisciplinary tasks.
- e) Ability to identify, formulates, and solves electrical and electronics engineering problems
- f) Understanding of professional and ethical responsibility.
- g) Ability to communicate effectively.
- h) Broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.
- i) Recognition of the need for, and an ability to engage in life-long learning.
- j) Broadly educated and will have understanding of the impact of electrical & electronics engineering on society and demonstrate awareness of contemporary issues.
- k) Ability to utilize experimental, statistical and computational methods and tools necessary for electrical & electronics engineering practice.
- l) Graduates will demonstrate an ability to design electrical and electronic circuits, power electronics, power systems; electrical machines analyze and interpret data and also an ability to design digital and analog systems and programming them.



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## Department of Electrical & Electronics Engineering

### POs contribution in PEOs

PEOs ↓		POs											
		a	b	c	d	e	f	g	h	i	j	k	l
PEO1	Education in the fundamental sciences and mathematics that underlie engineering with a general breadth and depth in engineering analysis and design.	H	M			H	M		H	M	M		
PEO2	Awareness of current technology and the fundamental background to be able to stay informed and adept at new technologies.	M	M	H	M	M	M	M	H	M	M	H	
PEO3	The ability to put ideas into practice through effective analysis, problem solving, requirements development, design, and implementation.		H	M					M			H	H
PEO4	A broad awareness of the world around them through general education so they are prepared to achieve their potential and make contributions in their professional and personal life.			M	M	H	H	M	H	H	M		M
PEO5	The foundation of communications and teamwork skills and professional attitudes and ethics.			M	H	M				H		M	H

**H: High contribution, M: Medium contribution**