

**Department of Electronics and Communication Engineering  
Institute of Engineering & Science  
IPS Academy Indore**

**Vision- IPS Academy**

IPS Academy aims to be a world-class global university, dedicated to creation, application, dissemination of Knowledge, skills, spirit of competitive excellence, building up a generation of global citizens & value driven professionals for the corporate world.

**Mission- IPS Academy**

To create technical man-power for meeting the current and future demands of industry. To recognize education and research in close interaction with industry, with emphasis on the development of leadership qualities in the young men and women entering the portals of the institute with sensitivity to social development and eye for opportunities for the growth in the international perspective.

**Quality Policy- IPS Academy**

IPS Academy is engaged in imparting Quality education and Training like in the field of Engineering, Technology, Management and fine arts. It aims to be the world class academy through continual improvements. It also cater to the industry and service sector needs by providing innovative solutions through FDPs, Projects & Consultancy and Teaching packages. The academy support faculty & staff to work as a cohesive team and update their skill & knowledge to match the need of global market.

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**Vision- IES**

To be the fountainhead of novel ideas & innovations in science & technology and persist to be a foundation of pride for all Indians.

**Mission- IES**

1. To provide value based broad education in Engineering, Technology and Science where students are urged to develop their professional skills.
2. To inculcate dedication, hard work, sincerity, integrity and ethics in building up overall professional personality of our student and faculty.
3. To inculcate a spirit of entrepreneurship and innovation in passing out students.
4. To instigate sponsored research and provide consultancy services in technical, educational and industrial areas.

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**Vision- Department of Electronics & Communication**

The vision of Department of Electronics and Communication Engineering is to provide higher education in the field of technology and reach status of a Nationally and Internationally reputed Institution which is based upon the culture and the values of universal science and contemporary education and a center of research which lay the groundwork in shaping the future in the field of Engineering.

**Mission- Department of Electronics & Communication**

1. To create professionals competent to design and implement systems in the field of Electronics and Communication.
2. To provide moral, ethical and value based education for social welfare.
3. To promote spirit of innovation and creativity among faculty members and students.
4. To create best facility and environment for human resource development capable of contribution towards research and development.

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**Programme Educational Objectives**

- 1. Preparation:** To prepare students to excel in undergraduate programs and to succeed in industry / technical profession through global, rigorous education.
- 2. Core Competence:** To provide students with a solid foundation in mathematical, scientific and engineering fundamentals required to solve engineering problems and also to pursue higher studies.
- 3. Breadth:** To train students with good scientific and engineering breadth so as to comprehend, analyze, design, and create novel products and solutions for the real life problems.
- 4. Professionalism:** To inculcate in students professional and ethical attitude, effective communication skills, teamwork skills, multidisciplinary approach, and an ability to relate engineering issues to broader social context, additional courses with regard to physical, psychological and career growth.
- 5. Learning Environment:** To provide student with an academic environment aware of excellence, outstanding leadership, written ethical codes and guidelines with moral values, and the life-long learning needed for a successful professional career.

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**Programme Outcomes**

1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex Electronics & Communication Engineering problems.
2. **Problem analysis:** Identify, formulate, review research literature, and analyze complex Electronics & Communication Engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. **Design/development of solutions:** Design solutions for complex Electronics & Communication Engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities relating to Electronics & Communication Engineering with an understanding of the limitations.
6. **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of and need for sustainable development.
8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

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**Programme Specific Objectives**

1. Graduate will be able to understand basic Principles of Advanced Technologies used in Communication and VLSI and understand procedures and design principles which include software and hardware.
2. Graduate will be able to simulate, analyze and design wired/wireless communication systems and networks.

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**PEO contribution in Mission**

<b>PEO</b>	<b>Dept. of EC- Mission</b>			
	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
<b>1</b>	<b>H</b>		<b>M</b>	<b>H</b>
<b>2</b>	<b>H</b>			<b>H</b>
<b>3</b>	<b>H</b>	<b>M</b>	<b>H</b>	<b>H</b>
<b>4</b>		<b>H</b>		<b>M</b>
<b>5</b>		<b>H</b>	<b>H</b>	<b>L</b>

**H- high contribution, M- medium contribution, L- low contribution**

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**PO contribution in PEO**

PEO	PO											
	1	2	3	4	5	6	7	8	9	10	11	12
1	H	H	H	H	H	H	H	L	H	L	H	M
2	H	H	M	M	-	-	-	-	-	L	-	M
3	M	H	H	H	H	M	M	M	M	M	H	H
4	M	M	M	M	L	H	H	H	H	H	-	M
5	-	-	-	-	-	H	H	H	H	M	-	H

**H- high contribution, M- medium contribution, L- low contribution**