



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, Email: director.ies@ipsacademy.org

Department of Electronics and Communication Engineering

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.



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, Email: director.ies@ipsacademy.org

Department of Electronics and Communication Engineering

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.



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, Email: director.ies@ipsacademy.org

Department of Electronics and Communication Engineering

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.



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, Email: director.ies@ipsacademy.org

Department of Electronics and Communication Engineering

M.E. – Graduate Attributes

1. **Scholarship of Knowledge:** Acquire in-depth knowledge of specific discipline or professional area, including wider and global perspective, with an ability to discriminate, evaluate, analyze and synthesize existing and new knowledge, and integration of the same for enhancement of knowledge.
2. **Critical Thinking:** Analyze complex engineering problems critically; apply independent judgment for synthesizing information to make intellectual and/or creative advances for conducting research in a wider theoretical, practical and policy context.
3. **Problem Solving:** Think laterally and originally, conceptualize and solve engineering problems, evaluate a wide range of potential solutions for those problems and arrive at feasible, optimal solutions after considering public health and safety, cultural, societal and environmental factors in the core areas of expertise.
4. **Research Skill:** Extract information pertinent to unfamiliar problems through literature survey and experiments, apply appropriate research methodologies, techniques and tools, design, conduct experiments, analyze and interpret data, demonstrate higher order skill and view things in a broader perspective, contribute individually/in group(s) to the development of scientific/technological knowledge in one or more domains of engineering.
5. **Usage of modern tools:** Create, select, learn and apply appropriate techniques, resources, and modern engineering and IT tools, including prediction and modeling, to complex engineering activities with an understanding of the limitations.
6. **Collaborative and Multidisciplinary work:** Possess knowledge and understanding of group dynamics, recognize opportunities and contribute positively to collaborative-multidisciplinary scientific research, demonstrate a



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, Email: director.ies@ipsacademy.org

Department of Electronics and Communication Engineering

capacity for self-management and teamwork, decision-making based on open-mindedness, objectivity and rational analysis in order to achieve common goals and further the learning of themselves as well as others.

7. **Project Management and Finance:** Demonstrate knowledge and understanding of engineering and management principles and apply the same to one's own work, as a member and leader in a team, manage projects efficiently in respective disciplines and multidisciplinary environments after considering of economical and financial factors.
8. **Communication:** Communicate with the engineering community, and with society at large, regarding complex engineering activities confidently and effectively, such as, being able to comprehend and write effective reports and design documentation by adhering to appropriate standards, make effective presentations, and give and receive clear instructions.
9. **Life-long Learning:** Recognize the need for, and have the preparation and ability to engage in life-long learning independently, with a high level of enthusiasm and commitment to improve and competence continuously.
10. **Ethical Practices and Social Responsibility:** Acquire professional and intellectual integrity, professional code of conduct, ethics of research and scholarship, consideration of the impact of research outcomes on professional practices and an understanding of responsibility to contribute to the community for sustainable development of society.
11. **Independent and Reflective Learning:** Observe and examine critically the outcomes of one's actions and make corrective measures subsequently, and learn from mistakes without depending on external feedback.



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, Email: director.ies@ipsacademy.org

Department of Electronics and Communication Engineering

M.E. – Programme Educational Objectives

- 1. Integration:** Graduates will be able to integrate fundamental and advanced knowledge to solve complex Electronics and Communication Engineering problems.
- 2. Problem Analysis:** Graduate will identify, formulate and analyze engineering problems for conducting research in the field of Electronics and Communication.
- 3. Literature Survey:** Graduate will make thorough literature survey, select appropriate research methodologies, employ technologies and tools to analyze data and interpret results in various domains.
- 4. Research:** Graduate will have ability to perform research work and apply the results in solving economical, social, professional and other engineering problems, considering ethical responsibilities and communicate results in clear, rational oral and written forms.
- 5. Professionalism:** To develop sense of commitment in attitude so as to face global challenges and enhance the understanding of academic comprehension.



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, Email: director.ies@ipsacademy.org

Department of Electronics and Communication Engineering

M.E. - Programme Outcomes

1. To have profound knowledge in Electronics and Communication Engineering stream and possess ability to correlate new technologies with the existing ones.
2. Ability to identify, formulate and analyze engineering problems for conducting research in the field of Electronics and Communication Engineering.
3. Ability to solve engineering problems considering public health and safety, cultural, social and environmental factors.
4. Explore existing literature, perform experiments and select research methodologies. Employ technologies and tools to analyze data and interpret results in various domains of Electronics and Communication Engineering.
5. Acquire knowledge of various tools of Electronics and Communication and to be able to model, simulate and analyze systems related to Electronics and Communication Engineering.
6. Demonstrate ability to collaborate with various streams of Electronics and Communication branch and engineering as a whole. Acquire traits of self motivation, team work, decision making, etc.
7. Familiarize with fundamentals of managing research projects and scientific events with due economic constraints.
8. Communicate effectively to specialized and non specialized audience. Develop skills to correspond through research papers in established journals.
9. Develop skills to identify sustainable objectives for improving knowledge with enthusiasm, perseverance and determination.
10. Understand and acquire professional, ethical and intellectual responsibilities for the development of society and nation at large.
11. Observe, correct and learn from the outcomes of one's own actions.



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, Email: director.ies@ipsacademy.org

Department of Electronics and Communication Engineering

M.E. – PEO contribution in Mission

PEO	Dept. of EC- Mission			
	1	2	3	4
1	S			
2	S	M	M	S
3	M	M	M	S
4	S	S	S	S
5	S	M	M	W

S- strong contribution, M- medium contribution, W- weak contribution



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, Email: director.ies@ipsacademy.org

Department of Electronics and Communication Engineering

M.E. – PO contribution in GA

PO	GA										
	1	2	3	4	5	6	7	8	9	10	11
1	S			S	M				M		W
2	M	S	W	S	S	M					M
3	M		S			W				S	
4		S	M	S	S	M					S
5		S	M	S	S	M					S
6				M		S	M	S		S	S
7							S				
8							M	S	M		M
9	S	M					M		S		
10			S			M				S	
11											S

S- strong contribution, M- medium contribution, W- weak contribution



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, Email: director.ies@ipsacademy.org

Department of Electronics and Communication Engineering

M.E. – PO contribution in PEO

PEO	PO										
	1	2	3	4	5	6	7	8	9	10	11
1	S	S		M	W						
2	M	S	S	M		W	M			M	M
3	M	S	S	S	S	W	W		M	W	M
4	W		S	S	M	M	M	S		S	M
5		W				M			S	S	

S- strong contribution, M- medium contribution, W- weak contribution