

रहा अभ्यास छोडो, कौशल्यलक्षी शिक्षा से जुडो।



Gyanmanjari Innovative University (GMIU)

Our Moto

दिव्यम् ददामि ते चक्षुः

(But you cannot see my cosmic form with these physical eyes of yours. Therefore, I grant you divine vision. Behold my majestic opulence !)



Vision of University

Gyanmanjari Innovative University is dedicated to producing world-class professionals capable of converting global challenges into opportunities through "Value Embedded Education." It achieves this by providing a comprehensive range of academic programs, services, facilities, and technologies aligned with the university's curricula, offering diverse learning opportunities. The goal is to prepare professionals who are not only employable but also capable of becoming employers themselves. Additionally, the university focuses on cultivating critical thinking, effective communication, and learning skills in students while promoting the values of ethical behavior, responsibility, and commitment.



Mission of University

At Gyanmanjari Innovative University, our commitment lies in the relentless pursuit of academic excellence and research in science, engineering, and technology. We achieve this through a dedicated approach to our responsibilities, innovative teaching methods, and a firm belief in human values. Our overarching goal is to foster the development of our students into exceptional professionals with high ethical standards, preparing them to confront the challenges of the next millennium. By instilling a sense of social responsibility, we aim to fulfill the expectations of our society, ensuring that our graduates emerge as resourceful citizens poised to contribute significantly to making the world a better place.



Mission

The Mission of Electrical Engineering Department Is To Facilitate Highest Possible Standards of Quality In The Area of Teaching And Learning To Nurture Professionally Competent And Ideal Human Being.



VISION

To foster outstanding professionals in Electrical Engineering with high ethical standards by imparting knowledge, skill & values through core academic functions - teaching, learning, and research that would shape the future society



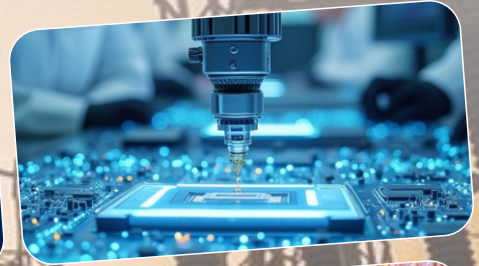


PROGRAM OUTCOME

- **PO 1: Engineering Knowledge** Apply the knowledge of Mathematics, Science, Engineering Fundamentals and an Engineering specialization for the solution of complex engineering problems
- **PO 2: Problem Analysis** Identify, formulate, research literature and analyze complex engineering problems reaching substantiated conclusions using first principle of Mathematics, Natural Science and Engineering Science
- **PO 3: Design/Development of Solutions** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for public health and safety, and cultural, societal and environmental consideration
- **PO 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
- **PO 5: Modern tool usage** Create, select and apply appropriate techniques and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations
- **PO 6: The Engineer & Society** Apply reasoning informed by the contextual knowledge to assess societal health, safety and legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice
- **PO 7: Environment & Sustainability** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and the need for sustainable development
- **PO 8 : Ethics** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice
- **PO 9: Individual & Teamwork** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings
- **PO 10: Communication** Communicate effectively on complex engineering activities with the engineering community and with the society at large, such as being able to comprehend and write effectively reports and design documentation, make effective presentations, and give and receive clear instructions
- **PO 11: Project Management & Finance** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's work, as a member and leader in team, to manage projects and in multidisciplinary environments
- **PO 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

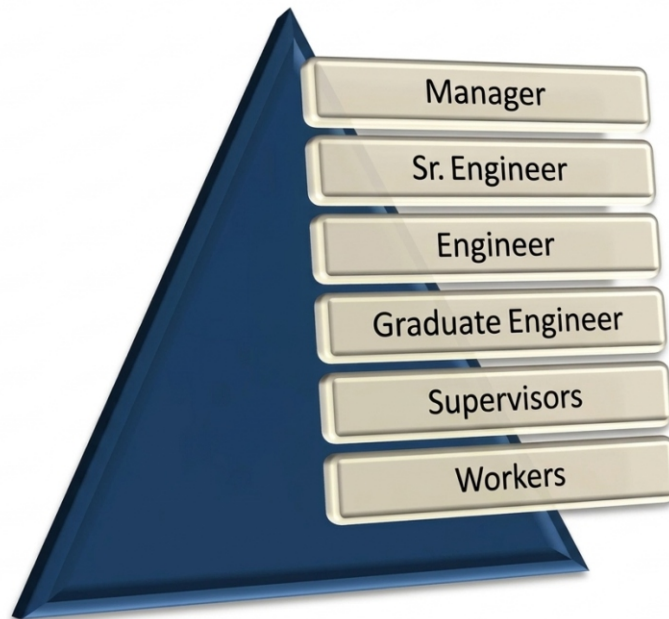
ROLE OF ELECTRICAL ENGINEERING

- To design, develop, and test electrical systems and components.
- To supervise technicians, review designs, and approve work.
- To conduct research on electrical system feasibility and innovation.
- To plan and manage projects, including material and time management.
- To oversee installation, modification, and commissioning of electrical systems.
- To ensure compliance with safety and quality standards.
- To develop maintenance schedules and troubleshooting procedures.
- To design power distribution, control panels, and automation solutions.
- To optimize energy efficiency and system reliability.
- To integrate renewable energy solutions like solar and wind power.
- To work on telecommunications, signal processing, and networking.
- To implement electrical management systems for efficiency.
- To check and approve electrical product quality and safety.



■ ROLE OF ELECTRICAL ENGINEERING

- Electrical engineers work long hours, often doing overtime to meet deadlines.
- They face challenging environments like power plants and factories with high voltage risks.
- Strong communication and leadership are needed to manage diverse teams.
- Staying updated with evolving technology is crucial for efficiency and safety.



■ CAREER PROGRESSION



LOCATION WHERE THIS CAREER IS GOOD

Globally, job opportunities for electrical engineers are significant in South Asia & South East Asia. In India, the following sectors offer promising careers:

Sector	Related company
Power Sector	BHEL, NTPC, Power Grid Corporation, Tata Power, Adani Power, Suzlon, General Electric, Siemens, ABB, Schneider Electric
Renewable Energy	ReNew Power, Tata Solar, Adani Green Energy, Vestas, Goldwind, Suzlon, First Solar
Telecommunications	BSNL, Airtel, Jio, Vodafone Idea, Nokia, Ericsson, Huawei, Cisco Systems
Automation & Control	Honeywell, Rockwell Automation, Siemens, ABB, Schneider Electric, Yokogawa
Electronics Industry	Intel, Samsung, Texas Instruments, Qualcomm, Nvidia, Bosch, Philips, LG Electronics
Railway & Metro	Indian Railways, Alstom, Bombardier, Siemens, BEML, L&T Metro Rail
Aerospace & Defense	HAL, DRDO, ISRO, Bharat Electronics Limited (BEL), Tata Advanced Systems
Manufacturing	Tata Motors, Mahindra Electric, Hero Electric, Bosch, Wipro Lighting, Havells
Construction & Infrastructure	Larsen & Toubro, Siemens, Schneider Electric, ABB, Tata Projects, BHEL
Oil & Gas Industry	ONGC, IOCL, BPCL, HPCL, GAIL, Reliance Industries, Shell, Essar Oil

List of Companies Near to Bhavnagar

Sr. No.	Company Name
1.	Synergy Transformers Pvt. Ltd, Rajkot
2.	Ocean Techno System, Rajkot
3.	Om Shanti Solar Group, Ahmedabad
4.	Embicon Techno Hub, Rajkot
5.	Sun Rise Solar Power, Bhavnagar
6.	Jet Machine Tools, Bhavnagar
7.	Tricks Robotics, Bhavnagar
8.	Het Miracle, Bhavnagar
9.	Sun Photovoltaic, Bhavnagar
10.	Chemitex Exports Pvt. Ltd., Bhavnagar

Sr. No.	Company Name
11.	ElectroEra Pvt. Ltd., Bhavnagar
12.	Sneha Foundation, Bhavnagar
13.	Rudrax Electrical, Bhavnagar
14.	Bapa Sitaram Energy
15.	Triveni Steel Industries Pvt. Ltd.
16.	RM Technocast
17.	Aditya Electric
18.	Autocon Instrument

■ SUCCESS MANTRA



LABORATORY FACILITY



Domain Awareness

In the bachelor program of Electrical Engineering branch around 40 subjects are to be learned by the students for the different domain. Now selection of specific domain is the most important factor for the professional development of the students. At GMIU in the beginning of 3rd semester, students are guided about various domains of respective fields. Then a counseling session of students along with the faculties and head of the department is organized regarding selection of domain.

Major Domain

Design

- Electrical Design Engineer
- Power Systems Engineer
- Product development engineer
- Control Systems Engineer
- Embedded Systems Engineer

Manufacturing

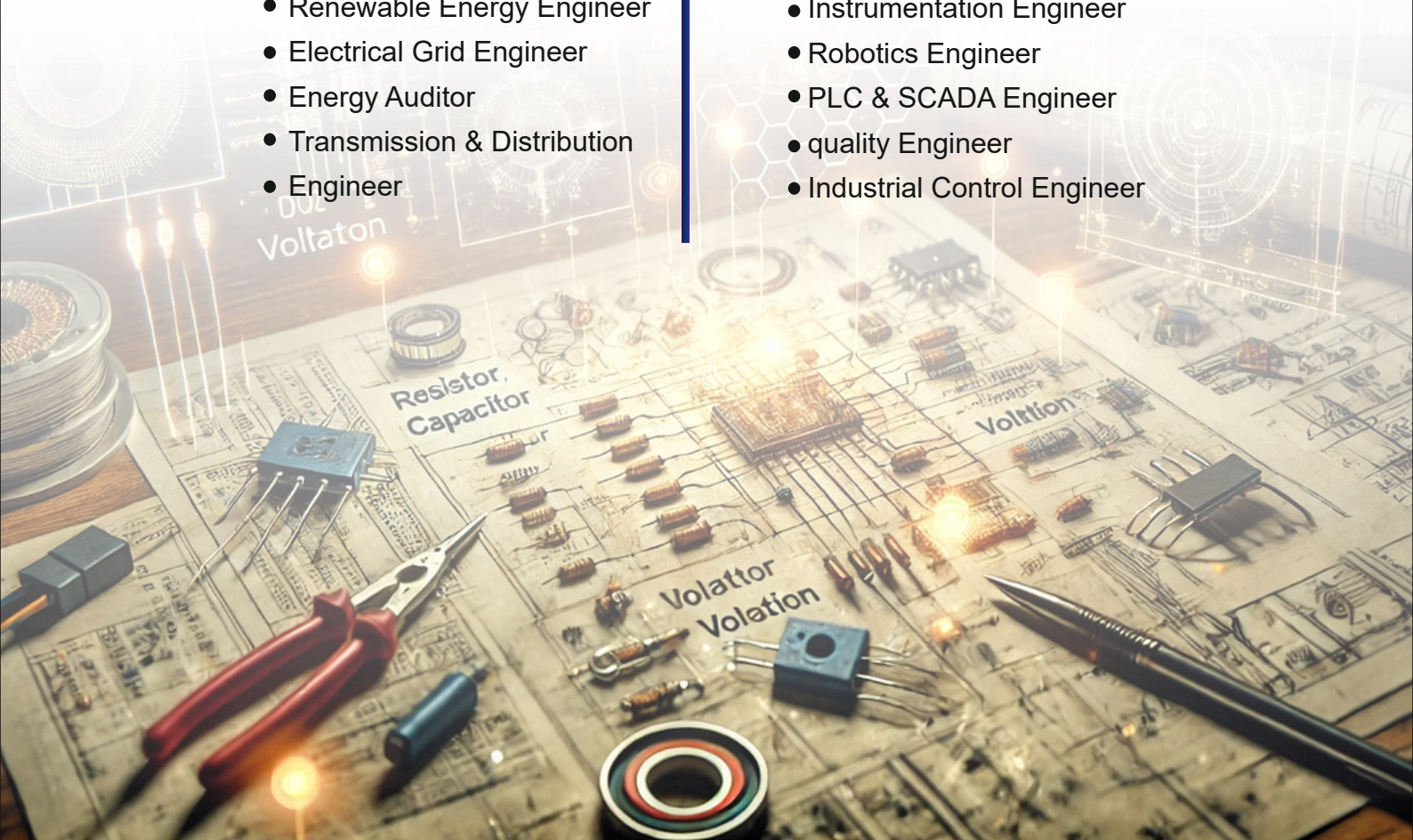
- Maintenance engineer
- Production engineer
- Workshop Supervisor
- Production Planning Engineer
- Quality Assurance (QA/QC)

Power & Energy

- Power Plant Engineer
- Renewable Energy Engineer
- Electrical Grid Engineer
- Energy Auditor
- Transmission & Distribution Engineer

Automation & Control

- Automation Engineer
- Instrumentation Engineer
- Robotics Engineer
- PLC & SCADA Engineer
- Quality Engineer
- Industrial Control Engineer



Mock Interview



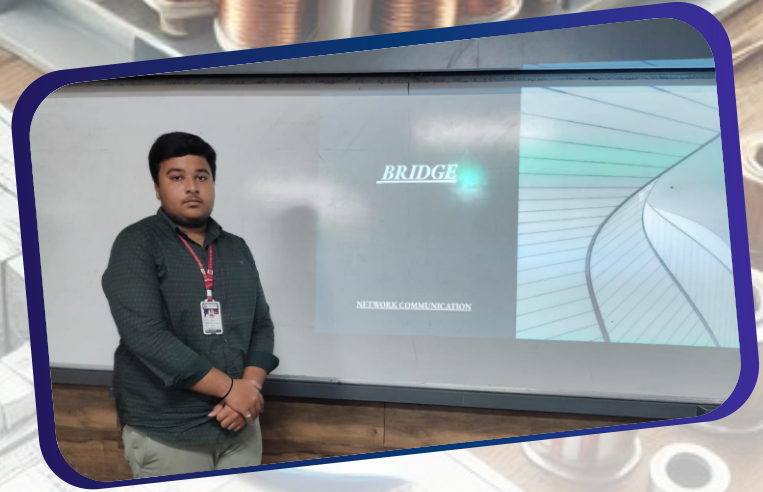
Creative Expression



Box Cricket



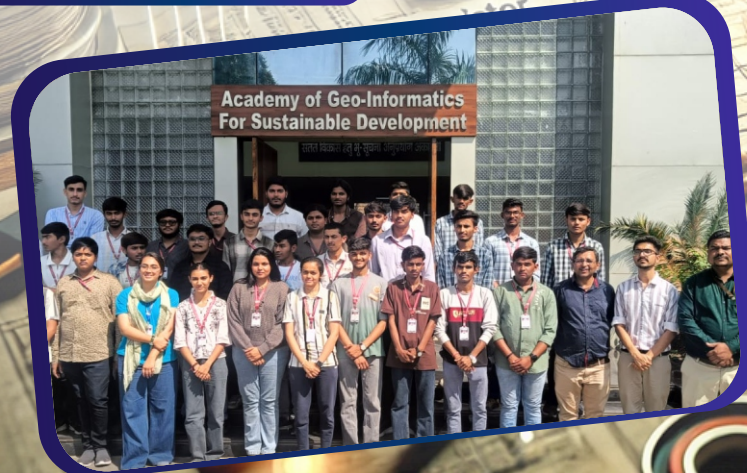
Flipped class



Pre placement Talk



Industry Visit



Joy of Giving



Parants Meeting



Robotics Workshop



S3OT Meeting



Student Development programme



IQ-EQ Test



Stress Relief



Vollyball





**PROFICIENT
LEARNING
METHODS**

रट्टा अडुडरस ऑडुडु, कुशुलुडलकुषुी शलकुषु डु से कुडुडु ।



Gyanmanjari[®]
Innovative University

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कुशुलुडलकुषुी शलकुषु डु से कुडुडु ।**

“ Shaping Mind with *Skills*
And *Innovation* ”



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