

Gyanmanjari Innovative University

Bridge Course Activity Report

Gyanmanjari Institute of Technology

A.Y. – 2025-26



The **Bridge Course** or **Student Induction Program** was conducted for 4 weeks at **Gyanmanjari Innovative University** from **June 25, 2025, to July 18, 2025**, for the students of **B.Tech in Electrical Engineering** and **B.Tech in Electronics and Communication Engineering**.

This program plays a vital role in helping students transition smoothly from school to a professional engineering college environment. While entering higher education is an exciting journey, it also brings new responsibilities and academic challenges. The Bridge Course is designed to introduce students to the world of engineering by reinforcing foundational knowledge in science and mathematics, along with an introduction to essential engineering concepts.

For students pursuing B.Tech in Electrical and Electronics & Communication Engineering, the course provides an insightful overview of their respective fields, including their scope, applications, and future career paths. It helps students develop an understanding of engineering principles while building the necessary skills to thrive in a technical education environment.

The course includes academic lectures, interactive sessions, technical workshops, and hands-on activities that encourage analytical thinking, teamwork, and problem-solving. These activities not only enhance technical knowledge but also build the confidence needed to adapt to college life and professional expectations.

The **Orientation Program** was held on **July 24, 2024**, where **Dr. H.M. Nimbark**, Provost and CEO of Gyanmanjari Innovative University, addressed both students and their parents. He shared guidance on academic life, career opportunities in engineering, and highlighted the essential role of parental support throughout the journey of higher education.

From **June 25, 2025, to July 18, 2025**, a wide range of creative activities, field visits, expert lectures, and technical sessions were conducted, a few highlights of which are mentioned below:

Following is the list of Major Bridge Course Activities.

Sr. No	List of Major Activities
1	Introduction to Digital Electronics
2	Robotics
3	Circuit making with component game
4	Introduction to Electrical and Electronic Components
5	Resistor Color Coding
6	Journey of Electricity: From Generation to Load
7	Electrical Vehicle
8	Digital circuit
9	Combinational Circuit Design
10	Industrial Visit
11	Explore Nature
12	Expert Talk
13	Village Visit
14	Sports
15	And Many more

Orientation Program

Photo of the Orientation Program



Photo of the Orientation Program



Photo of the Orientation Program



Photo of the Orientation Program



Bridge Course Activities:

Introduction to Digital Electronics

Digital electronics deals with circuits that operate using binary signals (0 and 1). It forms the basis of modern devices like computers and smartphones, using logic gates and digital circuits for fast, reliable data processing.



Robotics

Robotics is the branch of technology that deals with the design, construction, and operation of robots. It combines electronics, mechanics, and programming to create machines that can perform tasks automatically or with human guidance.



Circuit making with component game

This interactive game involves creating simple electronic circuits using real or virtual components like resistors, LEDs, batteries, and switches. It helps learners understand circuit design, component functions, and connectivity in a fun, hands-on way.



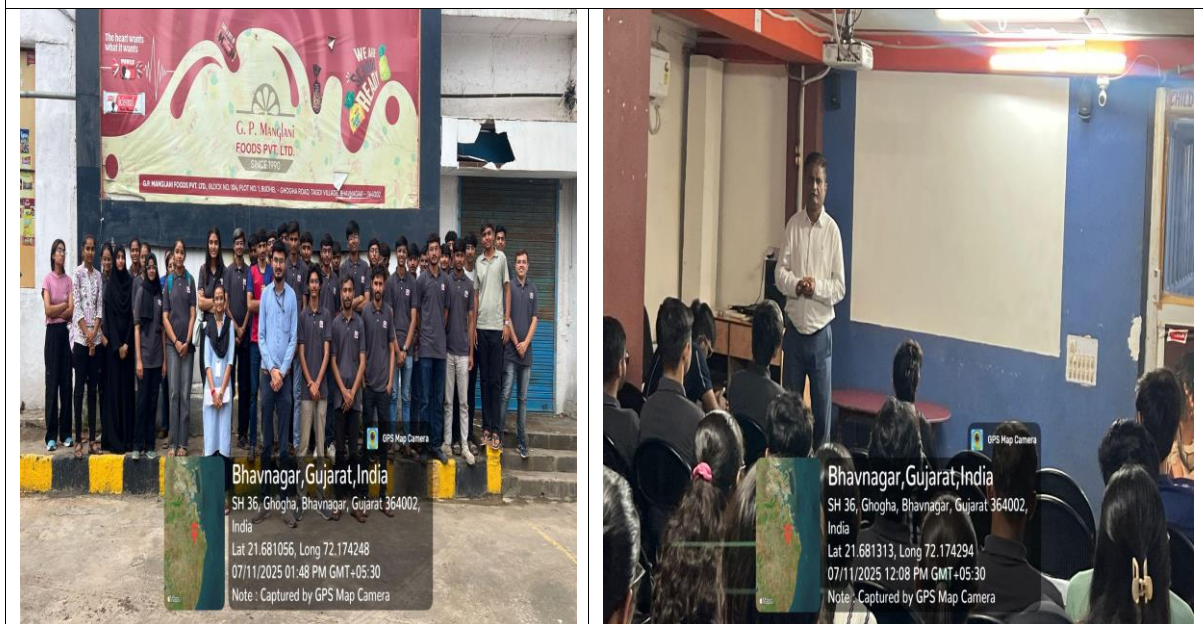
Introduction to Electrical and Electronic Components

This topic covers the basic components used in electrical and electronic circuits, such as resistors, capacitors, diodes, transistors, and switches. Understanding these components is essential for building, analyzing, and troubleshooting circuits in various applications.



Industrial Visit - G.P. Manglani Foods Pvt. Ltd.

This visit offers insight into the food processing industry, showcasing production, packaging, and quality control processes at G.P. Manglani Foods Pvt. Ltd., and helping participants understand real-world industrial operations and standards.



Explore Nature - Victoria Park

A nature visit to **Victoria Park** offered students an opportunity to explore local biodiversity, observe various plant and bird species, and understand the importance of environmental conservation. The visit encouraged awareness about ecological balance and provided a refreshing outdoor learning experience.

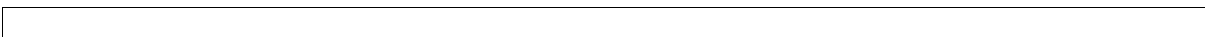


Village Visit

A village visit provides firsthand experience of rural life, culture, and infrastructure. It helps understand local livelihoods, resources, challenges, and community practices, fostering awareness and connection with grassroots realities.



Sports



Sports involve physical activities or games, played individually or in teams, that promote fitness, skill, teamwork, and enjoyment while often fostering discipline and healthy competition.



Expert Talk

An expert talk is a session where a specialist shares knowledge, experiences, and insights on a specific topic, helping the students to gain a deeper understanding and practical perspectives beyond textbooks.



Essential Details

Name of Activity: Bridge Course

Orientation Date: 24-07-2024

Duration: June 25, 2025, to July 18, 2025

Programs: B.Tech Engineering

Thank You