

DR. S. & S. S. GHANDHY GOVERNMENT ENGINEERING COLLEGE – SURAT



IIC, DIC & SSIP 2.0 CELL

REPORT

IoT and its Applications

Date: 30 January 2026

Introduction :

The Electronics Engineering Department organized an expert session on “IoT and its Applications” with the objective of introducing students to the concept of the Internet of Things and its real-world implementations. The session aimed to provide insights into how interconnected devices are transforming industries and everyday life.

Session Details :

Session I – Theory (1:10 PM to 3:10 PM):

The first session focused on the fundamentals of IoT, including architecture, sensors, actuators, communication protocols, and cloud integration. The speaker explained how IoT systems collect, process, and transmit data. Various applications such as smart homes, healthcare, agriculture, and industrial automation were discussed.

Session II – Practical / Demonstration (3:30 PM to 5:00 PM):

The second session included demonstrations of IoT-based systems such as smart devices, sensor-based monitoring systems, and real-time data visualization. Students gained an understanding of how IoT devices interact and how data is analyzed for decision-making.

Objectives of the Program :

- To introduce the concept and architecture of IoT
- To understand real-world applications of IoT
- To provide exposure to practical implementation of IoT systems

Outcomes of the Program :

- Improved understanding of IoT technologies and components
- Awareness of various applications across industries
- Enhanced interest in emerging technologies and innovation

Glimpses of Event :

