

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



IIC, DIC & SSIP 2.0 CELL

REPORT

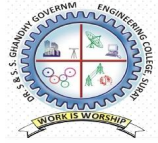
“Startup Garage: Arduino- Based product Development”

A workshop on “Startup Garage: Arduino- Based product Development” was organized on 8th February, 2026 (Sunday), from 10.30 AM to 5.00 PM under the aegis of IIC, DIC & SSIP 2.0 Cell of Dr. S. & S. S. Ghandhy Government Engineering College Surat. Total 40 students of 1st year of Electrical Engineering department have participated in the event.

The session was started by welcoming all the participants by the student anchors and the guests have been facilitated with flowers by event coordinator. The session was started by Mr. Faizan Chunavala. This program focuses on transforming innovative ideas into working prototypes using Arduino. It bridges the gap between theoretical knowledge and real-world product development by integrating electronics, programming, and entrepreneurship.

The program was structured into well-defined modules to provide both theoretical knowledge and practical exposure to participants. Module 1: Basics of Arduino focused on introducing various Arduino boards such as UNO, Nano, and Mega, along with the installation and setup of the Arduino IDE. It also covered the fundamentals of C/C++ programming required for Arduino, including writing, compiling, and uploading basic programs, as well as understanding input and output operations. Module 2: Electronics Fundamentals provided an overview of essential electronic components such as resistors, capacitors, LEDs, and sensors. Participants learned the principles of circuit design, breadboard techniques, power supply concepts, and safe interfacing of components with Arduino systems. Module 3: Sensor and Actuator Interfacing emphasized practical implementation by covering the interfacing of various sensors, including temperature, humidity, and motion sensors, along with actuators such as motors and relays. It also included working with display units like LCD and OLED, enabling real-time data acquisition, monitoring, and basic troubleshooting techniques. Together, these modules ensured a comprehensive understanding of Arduino-based system development. The event was concluded by Dr. D. M. Patel by thanking all the faculties and student participants for attending the event enthusiastically. The event was ended by the national anthem.

The photographs of the event are attached here for reference.



**Dr. S. & S. S. GHANDHY GOVERNMENT ENGINEERING
COLLEGE, SURAT**

**ELECTRICAL ENGINEERING DEPARTMENT
Under SSIP 2.0, IIC & DIC**



Organizes



STARTUP GARAGE: ARDUINO- BASED PRODUCT DEVELOPMENT

**By,
Rohit Yadav & Faizan ChunaVala
Industrial Expert**

Registration Link: <https://forms.gle/KhPV8jXxe1WxzBoi9>
8/02/2026, 10:30 AM-5:00 PM
(ELE-102), Electrical Engineering Department

Date & Time

Patron	Convener	Event Coordinator
Dr. S. R. Joshi Principal DGSEC, Surat	Prof. R. R. Kapadia HOD, Asso. Prof. EED DGSEC, Surat	Dr. D. M. Patel Asst. Prof. EED DGSEC, Surat



