



# Bahauddin Government Science College Near Bhutnath Temple, Junagadh



(Re-Accredited "B" by NAAC)

## 30-Hour Practical Training Workshop on Coding Using Arduino (IDE)

Under the **Innovation SARTHI** activity, a 30-hour Practical Training Workshop on Coding Using Arduino (IDE) was successfully organized by the **Innovation Club** in association with the **Knowledge Consortium of Gujarat (KCG)** at **Bahauddin Science College, Junagadh**. The workshop was conducted over **five days, from 28th January to 2nd February**, at **Swami Vivekanand Hall** of the college.

The workshop was planned in alignment with the **Hon'ble Prime Minister Shri Narendra Modi's strong emphasis on Innovation**, and national initiatives such as *Make in India* and *Startup India*, with the objective of nurturing technical skills, creativity, and problem-solving ability among students.

The key learning objectives of the *30-Hour Practical Training Workshop on Coding Using Arduino (IDE)* under **Innovation Sarthi** activity were:

- To introduce students to the **fundamentals of Arduino microcontroller and IDE**
- To develop **basic coding skills** required for embedded systems
- To familiarize students with **sensor interfacing techniques**
- To encourage **hands-on learning** through real-time Arduino-based automation projects
- To inculcate **innovation, creativity, and problem-solving skills** among students
- To promote **teamwork and collaborative learning** through group project activities

A total of **31 students** actively participated in this hands-on training program. The sessions were conducted by **expert resource persons Shri Bhagirath Bhatt and Dr. Rashmin Tanna**, Lecturers in **Electronics & Communication Engineering** from **A. V. Parekh Technical Institute, Rajkot**. The experts provided in-depth practical exposure on **Arduino fundamentals, basics of coding**, and interfacing of various sensors such as **Ultrasonic Sensor, IR Sensor, Moisture Sensor**, and other commonly used sensors.

The workshop emphasized **learning by doing**, where students developed **Arduino-based automation projects** by integrating sensors with microcontrollers. Special focus was given to real-life applications and innovation-driven project development. On the **final day**, student teams presented their Arduino projects, followed by a **healthy competitive activity**, which encouraged teamwork, creativity, and innovation.

The program was successfully organized under the guidance and encouragement of the **Principal, Dr. R. P. Bhatt**. The event was coordinated through the **joint efforts of SSIP Coordinator Dr. P.**

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S. Vachhani and Innovation Coordinator Dr. Hardika Goswami, whose continuous support ensured smooth execution of the workshop.

**Outcomes of the Activity**

The workshop successfully achieved the following outcomes:

- Students gained **practical knowledge of Arduino programming and hardware interfacing**
- Participants learned to work with multiple sensors such as **Ultrasonic, IR, Moisture sensors**, etc.
- Students successfully designed and demonstrated **Arduino-based automation projects**
- The final-day project competition enhanced **confidence, presentation skills, and competitive spirit**
- The activity helped nurture an **innovation-oriented mindset**, aligning with *Make in India* and *Startup India* initiatives
- Students were motivated towards **further innovation, startups, and research-based projects**

The workshop under **Innovation SARTHI activity** proved to be highly beneficial in enhancing students' technical competence, innovation mindset, and readiness for future entrepreneurial and research-oriented activities.

Date: 05-02-2026

Place: Junagadh

PRR/Q

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