



**GOVERNMENT ENGINEERING COLLEGE, VALSAD**

**Report on**

**Workshop on Arduino Basics**

**by**

**Shri Rahul Shah**

**Junior Mentor,  
DSC, Dharampur**

**Venue: B -201, Seminar Hall, Government Engineering College, Valsad**

**Date: 28-06-2023**

**Coordinator: Dr. R. C. Malan**



**Introduction:**

The Arduino Basics workshop, organized by Government Engineering College (GEC), Valsad, was aimed at providing participants with fundamental knowledge and practical skills related to Arduino microcontrollers. The event was held under the banner of "RUSA" (Rashtriya Uchchatar Shiksha Abhiyan), "SSIP" (Student Startup and Innovation Policy), and "IIC" (Institution's Innovation Council). The workshop featured Mr. Rahul Shah, Junior Mentor at the District Science Center, Dharampur, as the guest speaker. Dr. Rajesh C. Malan coordinated the event, while Dr. K. L. Mokariya served as the SSIP coordinator.

**Objectives:**

- Introduce participants to Arduino microcontrollers and their applications.
- Provide hands-on training on basic Arduino programming and circuit design.
- Foster innovation and encourage participants to explore Arduino-based projects.
- Promote entrepreneurship and startup culture among students.

**Workshop Highlights:**

Opening Ceremony: The workshop commenced with an opening ceremony, where Dr. Rajesh C. Malan, the event coordinator, delivered a welcome address. He emphasized the importance of Arduino technology and its relevance in the modern era of rapid technological advancements. Dr. K. L. Mokariya, the SSIP coordinator, highlighted the significance of fostering innovation and entrepreneurship among students.

**Keynote Address:**

Mr. Rahul Shah, the esteemed guest speaker and Junior Mentor at the District Science Center, Dharampur, delivered a comprehensive keynote address on Arduino basics. He shared his expertise and insights on Arduino programming, components, and various applications. Mr. Shah's engaging presentation captivated the audience and set the tone for the subsequent sessions.

**Hands-on Training:**

The workshop included hands-on training sessions, where participants had the opportunity to work with Arduino microcontrollers. The practical sessions focused on the following areas:

Understanding Arduino hardware and software components.

Basic programming concepts and syntax using the Arduino IDE.

Building and testing simple Arduino circuits.

Interfacing Arduino with sensors, actuators, and other peripherals.

### **Project Demonstrations:**

To inspire creativity and innovation, several Arduino-based projects were showcased during the workshop at Electrical Engineering Department. Participants were able to witness the practical applications of Arduino technology across various domains, including home automation, robotics, and environmental monitoring. The project demonstrations encouraged participants to think beyond the workshop and explore their own project ideas.

The Arduino Basics workshop organized by Government Engineering College, Valsad, proved to be a resounding success. The event not only provided participants with a solid foundation in Arduino programming but also instilled a sense of curiosity and innovation. The valuable insights shared by Mr. Rahul Shah and the hands-on training sessions enabled participants to explore the vast possibilities of Arduino technology.

The workshop, organized under the banner of "RUSA," "SSIP," and "IIC," successfully achieved its objectives of promoting entrepreneurship, innovation, and startup culture among students. The efforts of Dr. Rajesh C. Malan as the event coordinator and Dr. K. L. Mokariya as the SSIP coordinator and Prof. Dhaval Patel as a RUSA coordinator were instrumental in making the event a grand.

### **Participation**

**Student: 61 Faculty: 05 Total : 66**

## Glimpse of the Event









