



Institution's Innovation Council

An initiative by Ministry of Education, Govt. of India

Shri Guru Gobind Singhji Institute of Engineering and Technology

Vishnupuri, Nanded (MS) 431606

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#LetUsInnovate | Convenor: Prof. Yashwant Joshi, Director | President: Prof. Suhas Gajre, Dean (Incubation)

A report on Qtr-II IIC Calendar workshop Activity on “Internet of Things (IOT) using Arduino.”

by

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Student-SGGSIE&T

Date of the event

Tuesday, 21-March-2023

Venue

Government Polytechnic, Karad

Organized by

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Introduce the concept of IoT and its significance and explain the objectives and goals of your IoT project and provide an overview of the Arduino platform. Discuss existing literature and research related to IoT and Arduino-based projects and hardware components used (Arduino board, sensors, actuators, etc). Explain how your project builds upon or contributes to the existing knowledge, and explain the software and programming languages (Arduino IDE, C/C++) used in your project. Provide an overview of the circuit connections and the rationale behind your design.

Present the physical setup of your IoT system. Include schematics, diagrams, and photographs also explain the role and functionality of each hardware component in your project. Describe the software logic and algorithms used in your project, explain how data is collected, processed, and transmitted include relevant code snippets and explanations.

Topics covered during the session include:

- Introduction to Arduino and IoT
- Introduction to sensors
- Application of Arduino
- Arduino projects
- Arduino projects Ideas
- Arduino projects using sensors.

In the session live project of Arduino interfacing with various sensors was shown to the participants. Participants were also motivated to do such projects which leads to future innovations due to hands on experience in the session.

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Group photo of Department of Electrical Engineering, Government Polytechnic, Karad