Charotar University of Science and Technology (CHARUSAT)

Chandubhai S. Patel Institute of Technology (CSPIT)

V. T. Patel Department of Electronics and Communication Engineering

A Report

On

EXPLORE, LEARN, CREATE: THE ARDUINO HANDS-ON EXPERIENCE

Date & Time : 16/03/2024, 9:10 am onwards

Faculty Coordinator : Dr. Killol Pandya

Charotar University of Science and Technology (CHARUSAT)
Chandubhai S. Patel Institute of Technology (CSPIT)
V. T. Patel Department of Electronics and Communication Engineering

Faculty Co-ordinator

Sr. No.	Name	Designation	Contact Details
1	Dr. Killol V. Pandya	Associate Professor	7600004093

Student Co-ordinators

1	Kushal Shah	Student Coordinator
2	Priyanshu Talapara	Student Coordinator
3	Kashyap Vaghani	Student Coordinator
4	Saharsh Solanki	Student Coordinator

Name of Event: EXPLORE, LEARN, CREATE: THE ARDUINO HANDS-ON EXPERIENCE
Date: 16/03/2024
Targeted Audience: 2nd semester students
Total No of Participants: 50
Academic Year: 2024-25

Introduction:

The Arduino Workshop aimed to introduce participants to the fundamentals of Arduino, an open-source electronics platform. The workshop covered various aspects including understanding Arduino, basic projects, and interfacing with different sensors like ultrasonic, IR, 7 segment, pushbutton, onboard LED, designing and simulation of circuits in proteus software.

Outcomes:

- **Learning Experience:** Participants gained hands-on experience in coding, troubleshooting, and project execution with Arduino. They were introduced to the basics of programming and electronics through practical applications, enhancing their understanding of theoretical concepts.

- **Skill Development:** The workshop facilitated the development of essential skills such as coding, circuit designing, and sensor interfacing. Participants learned to write and upload code to Arduino boards, connect different components, and troubleshoot errors, thereby building their technical expertise.

- **Problem-Solving:** Through the implementation of various projects, participants learned to identify and solve problems encountered during the development process. They were encouraged to think & analyse issues thereby enhancing their problem-solving abilities.

- **Collaboration:** The workshop fostered a collaborative environment where participants worked together in teams to complete assigned tasks and projects.

- **Networking:** Participants had the opportunity to interact with faculty members and student coordinators during the workshop. Networking enabled them to exchange ideas, seek guidance, and explore potential opportunities within the technology community, thus expanding their professional network.

Conclusion:

The Arduino Workshop provided participants with a comprehensive understanding of Arduino and its applications in electronics and programming. Through practical exercises and hands-on experience, participants developed valuable skills in coding, circuit design, and problem-solving. The workshop fostered a collaborative learning environment, encouraging teamwork and knowledge sharing among participants.

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY
CHANDUBHAI S. PATEL INSTITUTE OF TECHNOLOGY
V.T PATEL DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

CODE FOR CAUSE

ORGANIZES

WORKSHOP ON

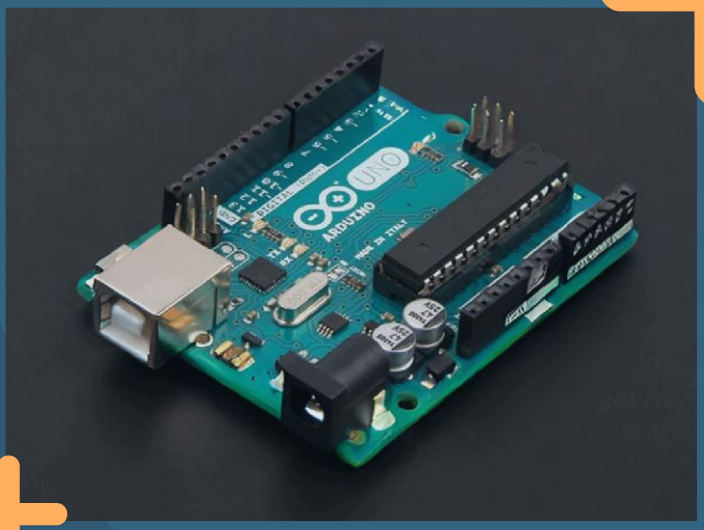
EXPLORE, LEARN, CREATE: THE ARDUINO HANDS-ON EXPERIENCE

TIME
9:30 AM ONWARDS

SATURDAY
16/03/2024

VENUE
PROJECT LAB-II

PARTICIPANTS
1ST YEAR STUDENTS



Register Now!

FACULTY COORDINATOR:
DR.KILLOL V. PANDYA

STUDENT COORDINATORS:
KUSHAL SHAH
PRIYANSHU TALAPARA
SAHARSH SOLANKI
KASHYAP VAGHANI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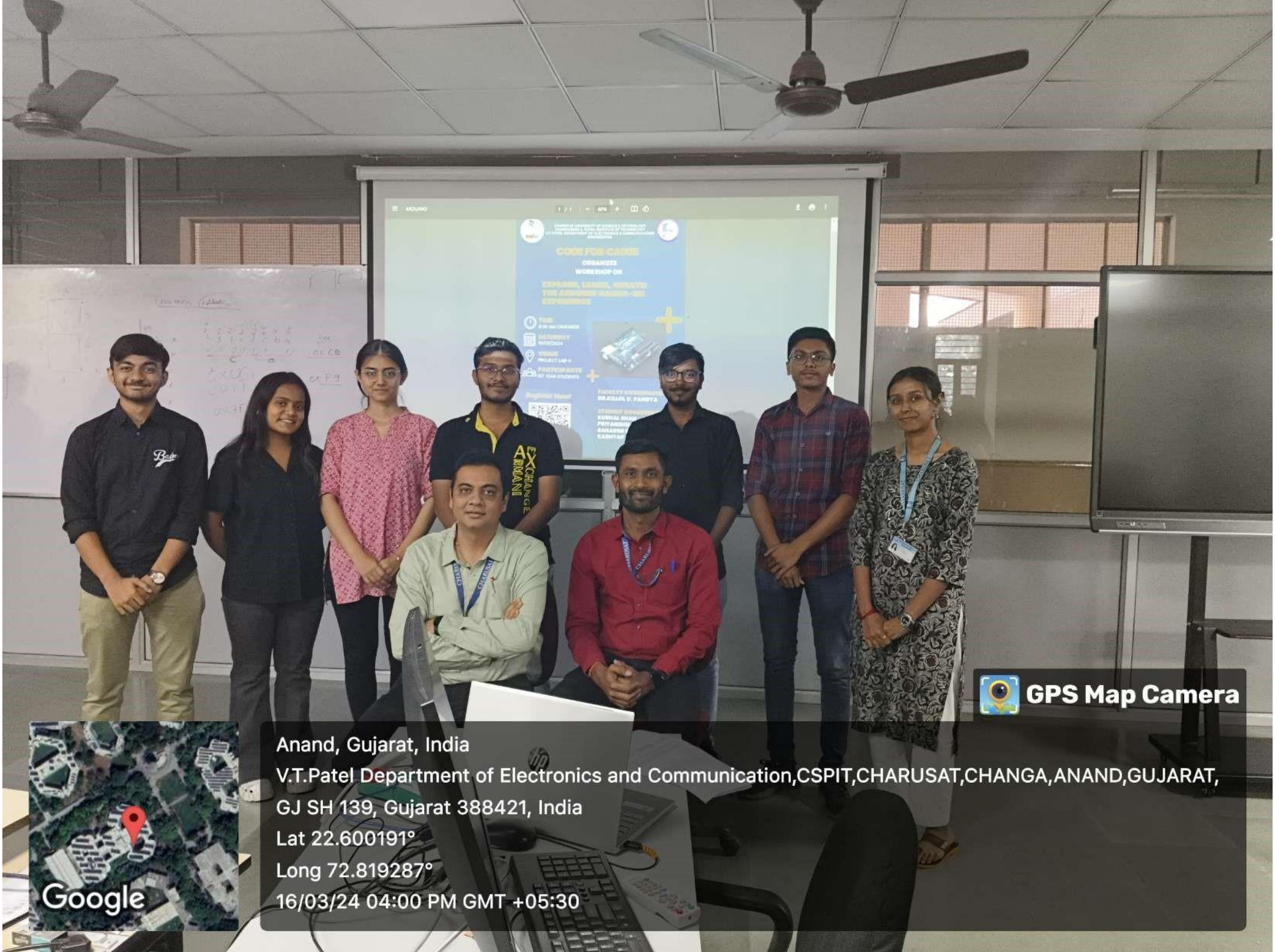
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