Bharatiya Vidya Bhavan's

Sardar Patel College of Engineering

(Government Aided Autonomous Institute Under Mumbai University)

1938 1962

MECHANICAL ENGINEERING DEPARTMENT

Computer Programming

MINI PROJECT EXHIBITION REPORT 2024

Date: 26th June, 2024

Venue: Main Seminar Hall, Sardar Patel College of Engineering

Time: 2.00pm – 4.00pm

The First Year B. Tech Mechanical Engineering students successfully completed their mini-projects under the esteemed guidance of Prof. Sharad Valvi and exhibited them to the faculty of SPCE on June 26th, 2024.

The Mini Project Exhibition aimed to present innovative ideas related to sensors and Arduino projects, which are crucial in contemporary and future technological applications. The event was inaugurated by Dr. Rajesh Buktar, Head of the Mechanical Engineering Department at SPCE, who served as the chief guest. The exhibition commenced at 2:00 p.m. and was open to all faculty members and students of the college. Akhil Pillai, the FY Mechanical Class Representative, hosted the event. In his commencement speech, Dr. Buktar announced that all participants would receive certificates to encourage them in their academic journey. Additionally, cash prizes of ₹5000 for the winner, ₹3000 for the first runner-up, and ₹2000 for the second runner-up were announced.

During the exhibition, various students presented their projects to Dr. Rajesh Buktar, Dr. Santosh Rane, Dr. Anupa Sabnis (Dean Academics, EED), Prof. Vishal Dake (EED), Prof. Haseen Shaikh, Prof. Deepak Singh, and Prof. Don Plackal. These esteemed faculty members assessed the students' presentations and provided valuable feedback.

The students were given four months to complete their projects, working in groups of four and selecting their own topics. Throughout the project, Prof. Sharad Valvi offered extensive guidance and suggestions to enhance the effectiveness of their work. The students applied their knowledge of computer programming (CPP language) and Arduino Uno coding to complete practical tasks. Each group prepared a comprehensive report, including the code used for their projects, photographs of the components, and a group photo.

The seminar hall (Room no. 119) was utilized for the presentations, with appropriate arrangements made for the event. Prof. Sharad Valvi secured permission for the use of the seminar hall. Motivational speeches were delivered by Dr.Santosh Rane and Dr. Rajesh Buktar, which added significance to the event. The presence of all Mechanical Engineering faculty members made the event particularly special for the first-year students, providing them with valuable feedback and guidance for their future projects.

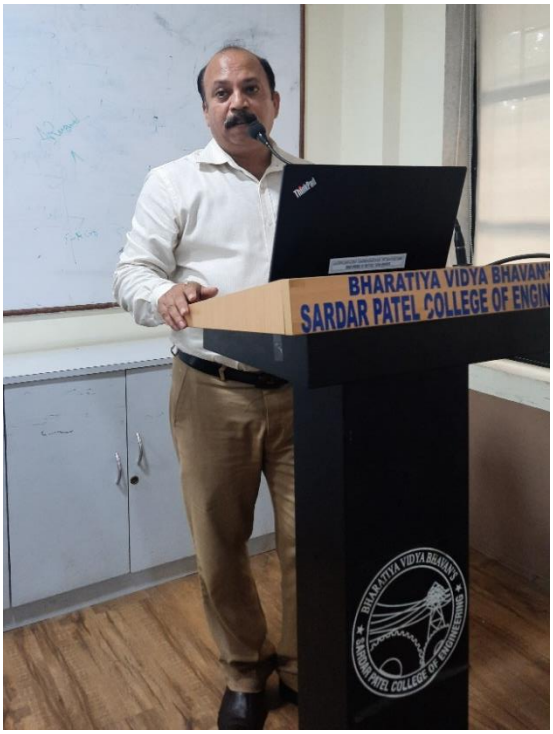
This initiative by Prof. Sharad Valvi was highly beneficial for the first-year students, as it enabled them to learn new concepts and gain practical experience in computer programming and artificial intelligence.

GROUP & PROJECT DETAILS

Sr. No.	Group Member 1	Group Member 2	Group Member 3	Group Member 4	Project Topic
1.	Akhil Pillai	Aditya Matkar	Neelanjana Mandal	Nevan Panchal	Arduino Water Filter
2.	Pratik Mane	Shubham Pawar	Shreyas Jadhav	Mitesh Bakalkar	Waste Water Segregation
3.	Branden Colaco	Laksh Sharma	Kevin Pooniwala	Rishit Pawar	Automated pipeline

					monitoring
4.	Rohan Morbale	Sairaj Killedar	Tejas Jadhav	Yash Patil	Bluetooth enabled Home Automation System
5.	Riya Shah	Nitika Chettri	Kruti Gujarathi	-	Laser Turret
6.	Siddhesh Gawade	Naman Bhatt	Harshad Ranjane	Ruturaj Sarakte	Train Obstacle Detection
7.	Gargi Varadkar	Sejal Sartape	Prachet walhe	-	Automatic switching device
8.	Ayush Khetale	Rohan Sukhasare	Atharva Patil	Gaurav Pandharpure	The Radar projector
9.	Riya Sutar	Aditya Shinde	Sakshi Pise	Urvi Yadav	Obstacle Avoiding All - Terrain Car
10.	Aryan Sawant	Parth Wadnerkar	Chaitanya Dhumada	Rajiv Shah	Earthquake Detector
11.	Yadnesh Burlikar	Pratik Pardeshi	Aashi Ghogare	Chirag Madavi	Sign Language to Text Glove Using Flex sensor
12.	Parikshit Ghatge	Samarth Rasane	Amruta Patil	-	Automatic water cooler
13.	Gaurav Nair	Stuti Athani	Darshith Bodkhe	Ashlesh Shelke	Automatic Pet Feeder
14.	Vaishnav Sarnobat	Raiyyan Bagwan	Shubham Revgade	Gurudutta Patil	Crowd Control
15.	Lokesh R Nehete	Rahul Chindarkar	Neeraj V Namboothiri	Guru Patil	Drowsiness Detector
16.	Vidhi Ahuja	Vaishnavi	Veshnavi	Sanjana Yadav	Captain cleaner-

		Kapure	Lonkar		garbage collecting robot
17.	Salik Shaikh	Vivek Bhaave	Shravan Salunkhe	Bhavesh Dhar	Color sorting Machine
18.	Rahul Bang	-	-	-	LPG detector



Speech by Dr. Rajesh Buktar

Speech by Prof. Sharad Valvi

Faculty present during the exhibition

Speech by Dr. Anupa Sabnis (Dean Academics, EED)

Speech by Dr. Santosh Rane

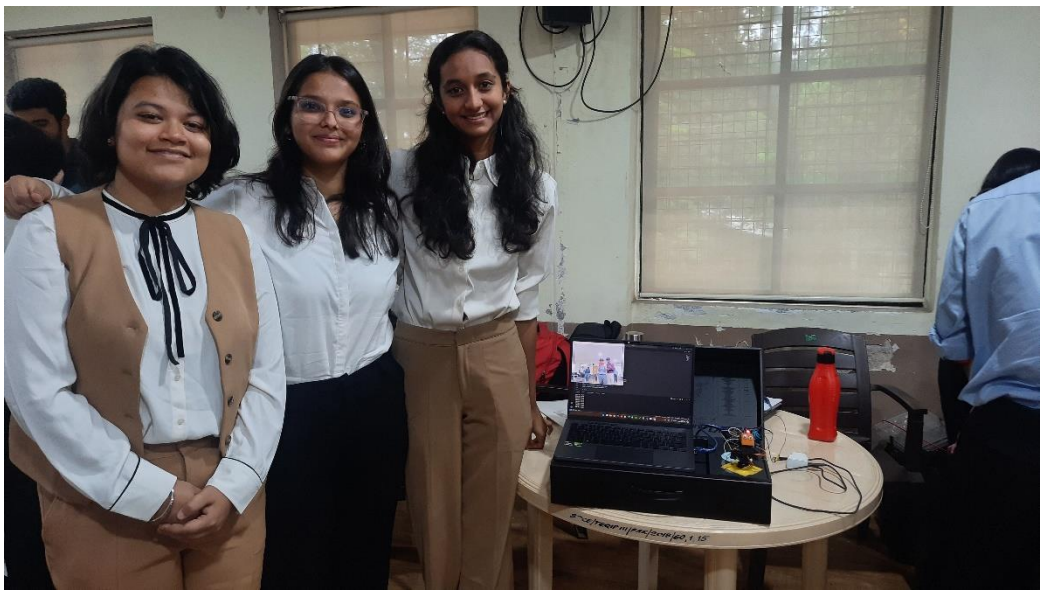
Entire first year mechanical batch and faculty members

Winner of the Exhibition

Topic: Bluetooth enabled Home Automation System

1st Runner-Ups

Topic: Drowsiness Detector



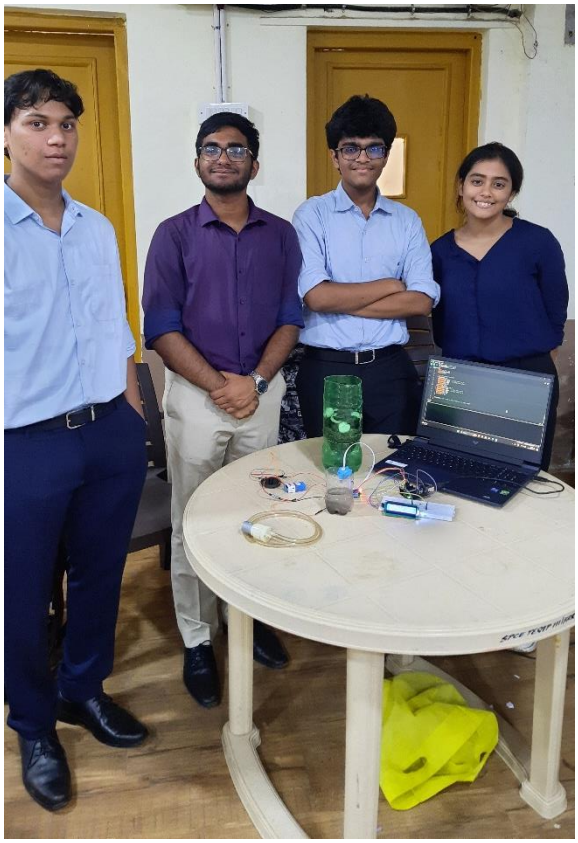
Topic: Laser Turret

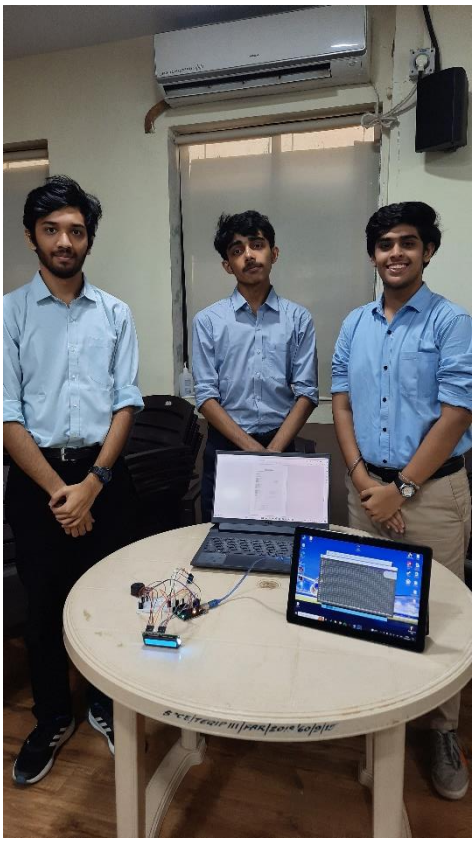
2nd Runner-Ups

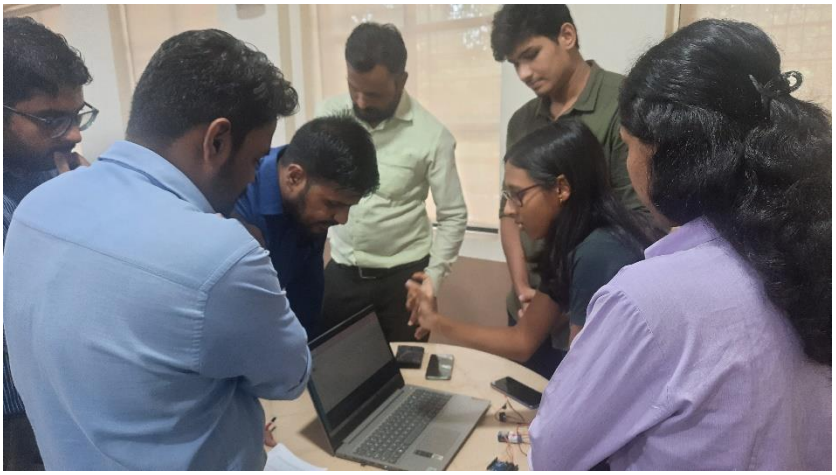
Topic: Waste Water Segregation

Topic: Sign Language to Text Glove Using Flex sensor

Glimpse into the Exhibition







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(Government Aided Autonomous Institution
under University of Mumbai)
Munshi Nagar, Andheri (W), Mumbai 400058.

MINI PROJECT EXHIBITION
ON
ARDUINO AND SENSOR PROJECT
FIRST YEAR 2023-2027

SPARKING CREATIVITY AND INNOVATION IN ENGINEERING

- 1st Prize - ₹ 5,000
- 2nd Prize - ₹ 3,000
- 3rd Prize - ₹ 2,000

Date : 26th June, 2024
Time : 2-4 pm
Venue : Room no. 119, SPCE
Coordinator - Shri Sharad Valvi

Organised by MECHANICAL and FIRST YEAR engineering department

Dr. Shyamlee Solanki
Head of First Year Department

Prof. Sharad Valvi
Faculty in charge Mechanical Engineering

Dr. R S Maurya
Head of Mechanical Department