

Report on Two Days Workshop

“Design of Single Board Computer”

1. Title of the Workshop

A Two Days Workshop on “Design of Single Board Computer”

2. Organizing Institute

Department of Electrical Engineering

Dr. D. Y. Patil Prathishthan's

College of Engineering, Salokhenagar

In association with: Go-Green Technologies, Mumbai

3. Dates of the Workshop :6th and 7th February 2026

4. Staff and Student Coordinator

Dr. Uttam Satpute,

Mr. Salamat Momin

Mr. Omkar Chodankar

Mr. Akhilesh More

Mr. Mahendra Kambar

5. Participants

Undergraduate students of Electrical Engineering (Second Year)

Objectives of the Workshop

The main objectives of the workshop were:

- To introduce students to the **concept and architecture of Single Board Computers (SBCs)**.
- To provide **hands-on exposure** to SBC-based system design.
- To understand the role of SBCs in **IoT and embedded system applications**.
- To enhance students' **practical skills** in hardware interfacing and basic system configuration.
- To bridge the gap between **theoretical knowledge and industrial applications**.

Description & Observations

- The workshop was conducted over **two days** with a balanced combination of **theory sessions and practical demonstrations**.
- Experts from **Go-Green Technologies** explained the fundamentals of Single Board Computers, their components, and real-world applications.
- Students observed the **hardware layout, GPIO interfacing, communication modules, and power management** of SBCs.
- Practical sessions enabled students to understand how SBCs are used in **IoT, automation, and smart systems**.
- Active participation and interaction were observed throughout the workshop.
- Students showed keen interest in **embedded systems and future career opportunities in IoT**.

Outcomes Achieved

After successful completion of the workshop, students were able to:

- Understand the **basic design and working principle of Single Board Computers**.
- Identify different **applications of SBCs in IoT and automation systems**.
- Gain confidence in handling **modern embedded hardware platforms**.
- Develop problem-solving and analytical skills related to **real-time engineering systems**.
- Recognize career opportunities in **embedded systems, IoT, and green technologies**.

NAAC Criteria Addressed

The workshop satisfies the following **NAAC Criteria**:

- **NAAC Criterion II – Teaching, Learning and Evaluation**
(Enhancing experiential learning through workshops)
- **NAAC Criterion III – Research, Innovations and Extension**
(Exposure to emerging technologies and industry collaboration)
- **NAAC Criterion I – Curricular Aspects**
(Supplementing curriculum with value-added programs)

NBA Program Outcomes (POs) Achieved

The workshop contributed to the attainment of the following **NBA POs**:

- **PO1: Engineering knowledge**
- **PO2: Problem analysis**

- **PO3:** Design/development of solutions
- **PO5:** Modern tool usage
- **PO6:** Environment and sustainability
- **PO11:** Life-long learning

Sustainable Development Goals (SDGs) Addressed

The workshop aligns with the following **UN Sustainable Development Goals**:

- **SDG 4 – Quality Education**
(Providing practical and industry-relevant technical education)
- **SDG 9 – Industry, Innovation and Infrastructure**
(Promoting innovation through SBC and IoT technologies)
- **SDG 12 – Responsible Consumption and Production**
(Awareness of efficient and sustainable technology solutions)

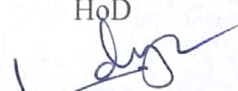
Conclusion

The two days workshop on “**Design of Single Board Computer**” was successfully conducted and proved to be highly beneficial for students. It enhanced their technical knowledge, practical skills, and awareness of emerging technologies in embedded systems and IoT. The workshop supported outcome-based education and contributed significantly to NAAC, NBA, and SDG objectives.

Event Coordinator


(Dr. Uttam S Satpute)

HoD


(Dr. Vidya N A)

Principal

(Dr. Suresh D Mane)

Glimpses of Workshop





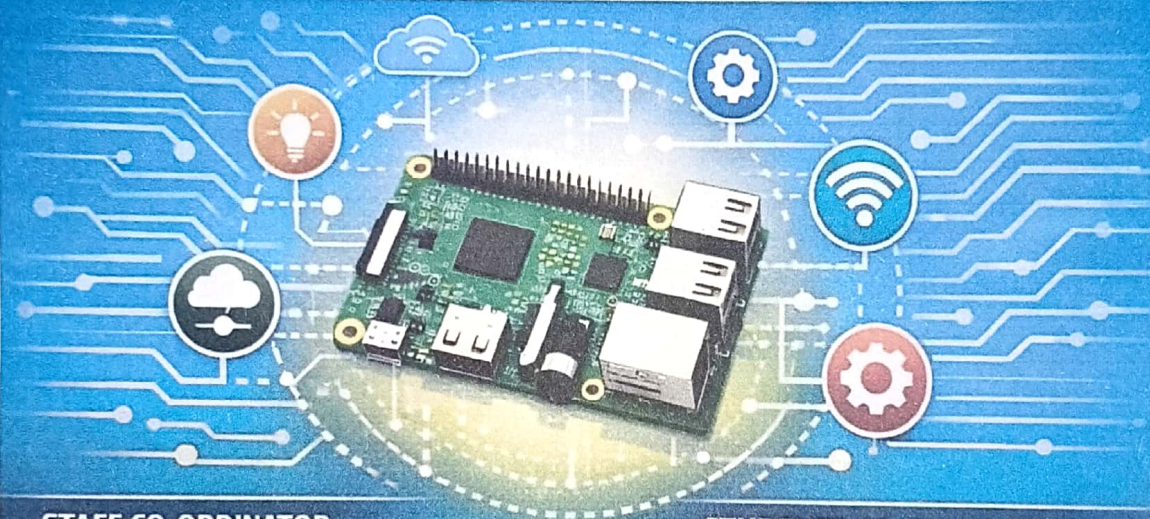
Dr. D.Y. PATIL PRATHISTHAN'S
COLLEGE OF ENGINEERING, SALOKHENAGAR



DEPARTMENT OF ELECTRICAL ENGINEERING
IN ASSOCIATION WITH GoGreen Technologies
ORGANISES

A TWO DAYS WORKSHOP ON
DESIGN of SINGLE BOARD COMPUTER

DATE: 6th and 7th FEBRUARY 2026



STAFF CO-ORDINATOR

Dr. UTTAM SATPUTE

SCAN QR TO REGISTER



**"THE FUTURE OF IOT HOLDS ENDLESS POSSIBILITIES.
EMBRACE THE TECHNOLOGY,
AND BUILD A REWARDING CAREER!"**

STUDENTS CO-ORDINATOR

LAST YEAR

**SALAMAT MOMIN
OMKAR CHODNKAR
AKHILESH MORE
MAHENDRA KAR**

THIRD YEAR

**JAYDEEP KUPWADE
ONKAR PATIL
SUMIT KHATKAR
SHASHIKANT DUDHAL**

HOD EE
Dr. VIDYA ABDULPUR

PRINCIPAL
Dr. S.D. MANE

CAMPUS DIRECTOR
Dr. A.M. MANE

Attendance Sheet

Date: 6, 7 Nov. 2025

Sr. No	Name	Sign.
1	Shailesh Umesh Sobane	<u>Shailesh</u>
2	Bagwan Musaif Nahed	<u>Musaif</u>
3	Trupti Dagadu Dhanawade	<u>D. Trupti</u>
4	ABIDALI NAJIR SHAIKH	<u>Abidali</u>
5	Aman Nasaruddin Mulani	<u>mulani</u>
6	Padmashri Subhash Patil	<u>Padmashri</u>
7	Shubhangi Sandip Kumbhar	<u>Shubhangi</u>
8	Shubhangi Sandip Kumbhar	<u>Shubhangi</u>
9	Shraddha Sandip Thanekar	<u>Shraddha</u>
10	Sabiya Babasaheb Pakhali	<u>Sabiya</u>
11	Dipti Dinkar Patil	<u>Patil</u>
12	Sanjana Chandan Nipanikar Vadd	<u>Sanjana</u>
13	Rajit rangrao patil	<u>Rajit</u>
14	Yash vitthal jawale	<u>Yash</u>
15	Samarth Namdev kadam	<u>Samarth</u>
16	Junaid Nisar Mullani	<u>Junaid</u>
17	Ajinkya Babasaheb Ambi	<u>A.B. Ambi</u>
18	Atharv Avinash Sutar	<u>Atharv</u>
19	Nikita Dinkar Chougale	<u>Nikita</u>
20	Sayali Kundlik Nandgavkar	<u>Sayali</u>
21	Bushra Altaf Kazi	<u>Bushra</u>
22	Shraddha Laxman Mane	<u>Mane</u>
23	Kolhal pruthviraj Dhanaraj	<u>P. Kolhal</u>

Event Coordinator

Dr. Uttam S Satpute

Sl. No.	Department	Post	How will you rate the candidate's file file	How will you rate the organization of the webpage	How will you rate the frequency of the service if you rate the one of the	Score
2/7/2026 20:42:58	Electrical engineering	Option 1	Shaleesh Umesh Sobane 3 (Good)	3 (Good)	3 (Good)	3 (Good)
2/7/2026 20:43:19	Electrical engineering	Option 1	Shaleesh Umesh Sobane 3 (Good)	3 (Good)	3 (Good)	3 (Good)
2/7/2026 20:44:08	Electrical Engineering	Option 1	Begwen Musaff Nahed 3 (Good)	3 (Good)	3 (Good)	3 (Good)
2/7/2026 20:44:14	Electrical engineering	Option 1	Samrudhi Chandrakant 3 (Good)	3 (Good)	3 (Good)	3 (Good)
2/7/2026 20:44:53	Electrical engineering	Option 1	Samrudhi Chandrakant 3 (Good)	3 (Good)	3 (Good)	3 (Good)
2/7/2026 20:52:58	Electrical engineering	Option 1	Trupti Dagadu Dhanewad 3 (Good)	3 (Good)	3 (Good)	3 (Good)
2/7/2026 20:54:25	Electrical SY	Option 1	ABDUL NAJIR SHAIKH 3 (Good)	3 (Good)	3 (Good)	3 (Good)
2/7/2026 20:54:58	Electrical	Option 1	Aman Nasaanuddin Muzani 3 (Good)	3 (Good)	3 (Good)	3 (Good)
2/7/2026 20:55:07	Electrical Engineering	Option 1	Padmashri Subhash Palli 3 (Good)	3 (Good)	3 (Good)	3 (Good)
2/7/2026 20:55:09	Electrical Engineering	Option 1	Shubhangi Sandip Kumbh 3 (Good)	3 (Good)	3 (Good)	3 (Good)
2/7/2026 20:59:40	Electrical Engineering	Option 1	Shubhangi Sandip Kumbh 3 (Good)	3 (Good)	3 (Good)	3 (Good)
2/7/2026 21:00:14	Electrical Engineering	Option 1	Shradha Sandip Thanek 3 (Good)	3 (Good)	3 (Good)	3 (Good)
2/7/2026 21:00:52	Electrical	Option 1	Sabiyha Babasaheb Palkh 3 (Good)	3 (Good)	3 (Good)	3 (Good)
2/7/2026 21:02:57	Electrical	Option 1	Dipti Dinkar Palli 3 (Good)	3 (Good)	3 (Good)	3 (Good)
2/7/2026 21:05:26	Electrical	Option 1	Sanjana Chandan Nipant 3 (Good)	3 (Good)	3 (Good)	3 (Good)
2/7/2026 21:05:42	Electrical	Option 1	Rajit rangrao patil 3 (Good)	3 (Good)	3 (Good)	3 (Good)
2/7/2026 21:06:13	Electrical SY	Option 1	Yash vithal Jawale 3 (Good)	3 (Good)	3 (Good)	3 (Good)
2/7/2026 21:10:05	Electrical engineering	Option 1	Samarth Namdev kadam 2 (Moderate)	3 (Good)	2 (Moderate)	3 (Good)
2/7/2026 21:27:01	Electrical	Option 1	Junaid Nisar Mullani 3 (Good)	3 (Good)	2 (Moderate)	3 (Good)
2/7/2026 21:29:25	Electrical Engineering	Option 1	Alpinkya Babasaheb Anbi 3 (Good)	3 (Good)	3 (Good)	3 (Good)
2/7/2026 21:33:08	Electrical Engineering	Option 1	Atharv Avinash Sutar 3 (Good)	3 (Good)	3 (Good)	3 (Good)
2/7/2026 21:53:58	Electrical engineering	Option 1	Nikita Dinkar Chougale 3 (Good)	3 (Good)	3 (Good)	3 (Good)
2/7/2026 22:00:49	Electrical Engineering, SY	Option 1	Sayali Kundlik Nandgavke 3 (Good)	3 (Good)	2 (Moderate)	3 (Good)
2/7/2026 22:45:02	Electrical engineering	Option 1	Bushra Aliaf Kazi 3 (Good)	3 (Good)	3 (Good)	3 (Good)
2/7/2026 23:54:12	Electrical	Option 1	Shradha Laxman Mane 3 (Good)	3 (Good)	3 (Good)	3 (Good)
2/8/2026 21:01:57	Electric engineering	Option 1	Kohal pruthvraj Dhanera 3 (Good)	3 (Good)	3 (Good)	3 (Good)