



SAMARTH EDUCATIONAL TRUST

ARVIND GAVALI COLLEGE OF ENGINEERING

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■ AICTE ID: 1-4210711 ■ AISHE Code: C-11245 ■ DTE Code: EN-6545 ■ DBATU Code: 6545 ■ MSBTE Code: 1617

■ NBA Accredited

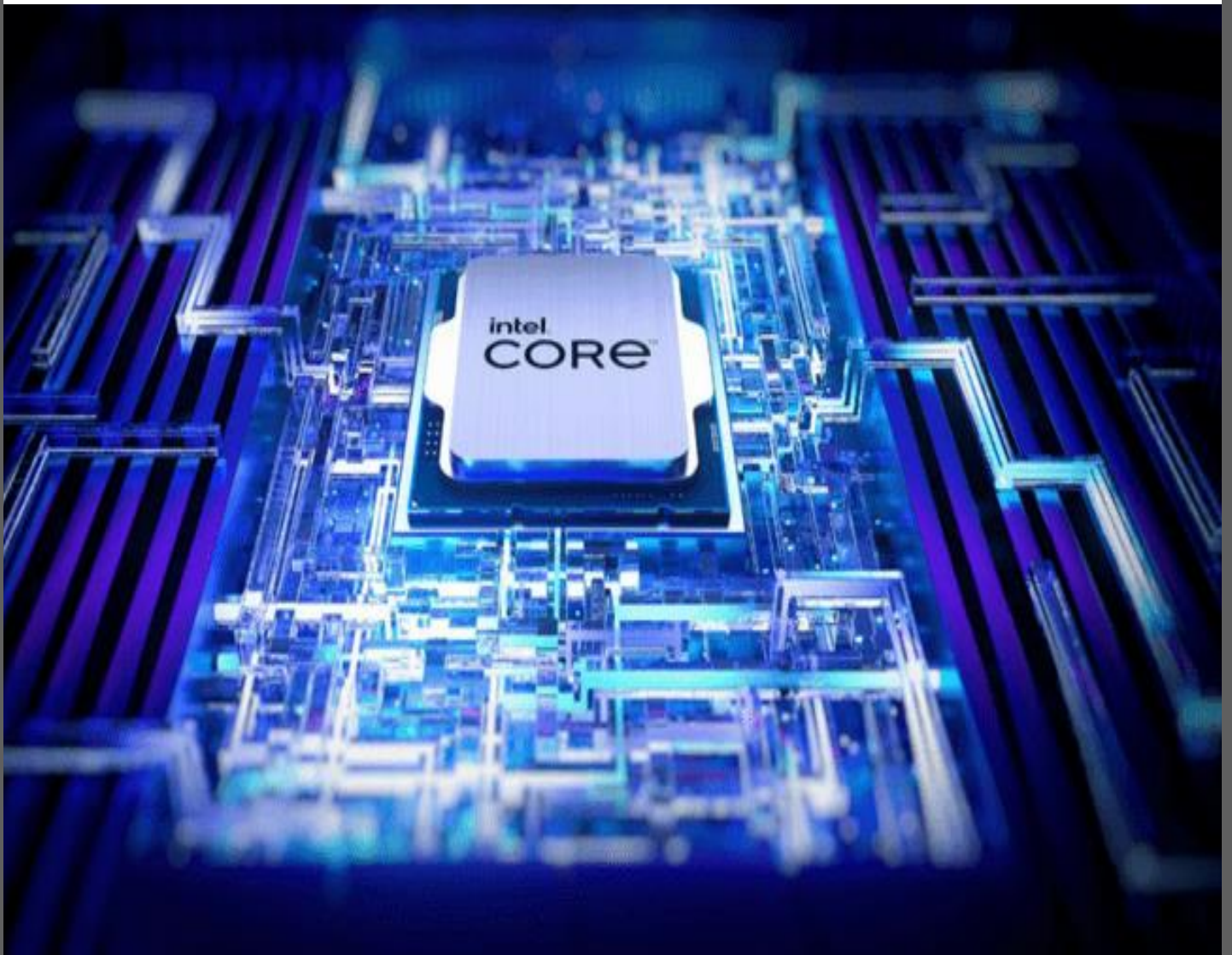
■ NAAC Accredited

- Address : Gat No.247, At.Panmalewadi, Post.-Varye,Tal.& Dist.-Satara, Pin.- 415 015
- Mob.: 9957100100, 9069700100
- Email : agcenggsatara@gmail.com
- Website: www.agce.edu.in

Ref. No.: AGCE/

Date:

ELECTRONIKA - ACADEMIC YEAR 2024-2025



***Department of Electronics and Telecommunication
Engineering, Satara.***

Sawkar Institutes

Address: 427, Shanivar Peth, Behind Sawkar Transport, Satara



9957100100



9069700100



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INSTITUTIONAL VISION, MISSION, CORE VALUES & PO'S

Our Vision

- *To be an institute of excellence, developing skilled engineers to serve the industry and society.*

Our Mission

- *M1. To provide quality education through effective teaching learning process.*
- *M2. To develop professional skills and promote innovation among students by providing a conducive Atmosphere.*
- *M3. To inculcate ethical values, respect for the environment, and social responsibility.*

Institute Core Values:

- *Professional Ethics*
- *Excellence*
- *Social Responsibility*
- *Accountability & Transparency*
- *Use of Technology*

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Program Outcomes (POs)

PO1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2. Problem analysis: Identify, formulate, review research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations

PO4. Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions

PO5. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

PO6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

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PO7. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10. Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO11. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

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DEPARTMENTAL VISION, MISSION & PEO

Vision

- *To be one of the leading electronics and telecommunication engineering department engage in quality education to solve industrial and social problems.*

Mission

The department is committed to imbibe and empower its faculty and aspiring engineers with:

- *M1: To enrich academic competency by imparting quality education.*
- *M2: To nurture skills among the students helping them succeed and progress in their personal and professional career.*
- *M3: To instil sensitivity towards society and respect for the environment.*

Program Educational Objectives (PEOs)

- **PEO1:** *The graduates will be able to apply the basic concepts of mathematics, sciences, engineering to solve industrial and societal problems.*
- **PEO2:** *The graduates will be able to deal with complex real time problems by applying technical and soft skills.*
- **PEO3:** *The graduates will be able to develop awareness towards ethical, societal & environmental issues.*

Program Specific Outcomes (PSOs)

- **PSO1:** *Students will be able to analyze and design the electronics and telecommunication systems by understanding and applying the fundamental knowledge.*
- **PSO2:** *Electronics and telecommunication students will be able to contribute to projects in the core and associated domain by using modern tools like PCB design, embedded programming, etc.*

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Kudos



- **Name:** Dr. Vishal Sharad Hingmire
- **Designation:** HOD & Dean, Associate Professor
- **Qualification:** Ph. D (Electronics Engg.)
- **Area of Expertise:** Wireless sensor Network
- **Experience:** 14 years
- **Phone:** 8482875175
- **Email ID:** vs.hingmire@gmail.com

We are immensely proud to share the accomplishments of Dr. Vishal Sharad Hingmire, a dedicated academician and contributor to the field of Electronics & Telecommunication.

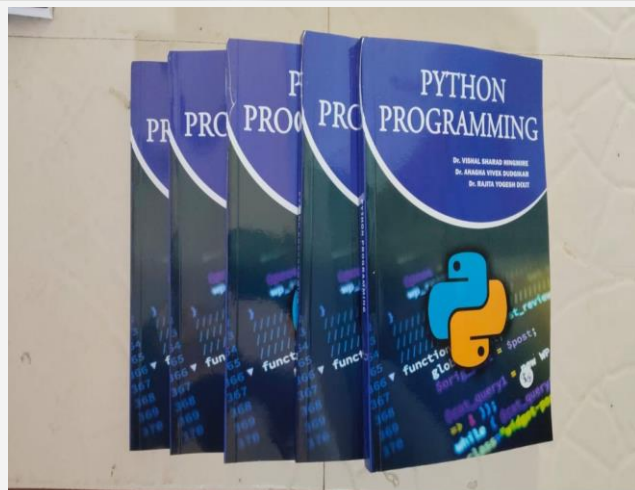
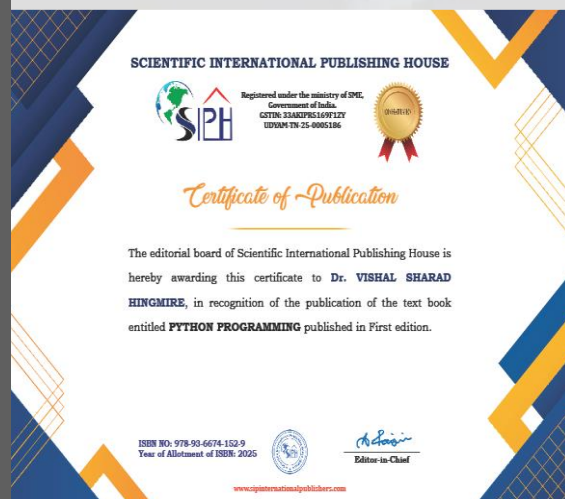
Book Publication Achievement:

Dr. Vishal Sharad Hingmire has recently authored and published a textbook titled **Python Programming**. This publication has been officially recognized and awarded a Certificate of Publication by the Scientific International Publishing House, a body registered under the Ministry of SME, Government of India.

ISBN: 978-93-6674-152-9

Edition: First Edition

Year of Allotment: 2025





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NPTEL Certification:

In addition to his literary contribution, Dr. Hingmire has successfully completed the prestigious NPTEL Online Certification course titled **Introduction to Internet of Things** conducted by the Indian Institute of Technology, Kharagpur. He secured an impressive 75% score, earning the Elite + silver certificate with distinction.

Course Duration: Jan-Apr 2025 (12-week course)



Elite

NPTEL ONLINE CERTIFICATION
(Funded by the MoE, Govt. of India)

This certificate is awarded to
DR VISHAL SHARAD HINGMIRE
for successfully completing the course

Introduction To Internet Of Things

with a consolidated score of **75** %

Online Assignments	24.35/25	Proctored Exam	50.5/75
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Total number of candidates certified in this course: **38143**

Jan-Apr 2025
(12 week course)

 Indian Institute of Technology Kharagpur

Roll No: NPTEL25CS44S356400207 To verify the certificate  No. of credits recommended: 3 or 4



swayam
FREE ONLINE EDUCATION
विश्वविद्यालय, सत्यमेव जयते


Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur

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Best Practices of the Department

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 Panmalewadi, Varve, Satara, Pin.- 415 015
 NBA Accredited (Mech & CSE, 2023-2026) NAAC Accredited (2023-2028)

Training & Placement Cell
organized
Guest Lecture

Topic
“Exclusive Strategies for Job Hunting”

Speaker

Mr. Rajendra Kore
 (CEO & Founder) Chrysalis

Schedule : 25th March 2025 (01.00 pm) @ Seminar Hall (AGCE)

9957 100 100 , 9069 700 100 /agcesatara6545 agce.edu.in

*Inhale the future,
 exhale the past*

YOGA CLUB
WORKSHOP ON BREATHING TECHNIQUES

21st May 2025
3:00 PM - 5:00 PM
Reading Hall

JOIN US FOR A REJUVENATING SESSIONS ON POWERFUL BREATHING TECHNIQUES

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 SATARA

37 YEARS OF ACADEMIC EXCELLENCE

CHES
 24 Feb. 2025
 Student Co-Ordinator : Disha Nanaware, Mob : 822985463
 Yash Baramatkar, Mob : 9404410030

KABADDI
 25 Feb. 2025
 Student Co-Ordinator : Prathmesh Pawar, Mob : 866078496
 Haris Ugare, Mob : 8080150601

VOLLEY BALL
 26 Feb. 2025
 Student Co-Ordinator : Shreya Shinde, Mob : 922860405
 Sourav Salunkhe, Mob : 932955986

SAWKAR TROPHY 2025
 24 to 27 FEBRUARY 2025
 LAST REGISTRATION DATE: 22/02/2025
 VENUE: AGCE GROUND

BOX CRICKET LEAGUE (Girls)
 26 Feb. 2025
 Student Co-Ordinator : Yash Thorat, Mob : 9960997218
 Bhagyashri Jadhav, Mob : 8603297766

CRICKET (BOYS)
 26 Feb. 2025
 Student Co-Ordinator : Karan Sanas, Mob : 9325451929
 Shrikant Salunkhe, Mob : 8530790920

KHO-KHO
 24 Feb. 2025
 Student Co-Ordinator : Aniket Malvekar, Mob : 909796804
 Rohan Salunkhe, Mob : 8180071824

CARROM
 25 Feb. 2025
 Student Co-Ordinator : Gauri Jadhav, Mob : 9561827330
 Sharmil Sayyed, Mob : 9096530829

TUG-OF-WAR
 27 Feb. 2025
 Student Co-Ordinator : Vishal Dhane, Mob : 7264800090
 Sakshi Mulik, Mob : 9021294866

Mr. Nikhil Ghadge Faculty Co-ordinator | Dr. Sharad Mulik Principal | Hon. Mr. Arjun Gavali Secretary | Hon. Mr. Nishant Gavali Secretary | Hon. Mr. Arvind Gavali Chairman

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 SATARA

37 YEARS OF ACADEMIC EXCELLENCE

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION
 Presents
TECHNO FEST 2K25
 "Connect Create Conquer"
1st March 2025

Seminar on 5G-6G
 Coordinators: Sruthika Shinde : 8438700903, Shrawani Mahy : 8706071918

Workshop on Arduino
 Coordinators: Pratik Salade : 9404319375, Sahil Raju : 7408814893

E-game
 Coordinators: Pruthviraj Rajgure : 7249837323, Rajashri Bisale : 885628806

Techno quiz : Technical Quiz
 Coordinators: Dhruv Joshi : 9148212211, Siddhi Wadkar : 7796710870

Chill zone : Photography competition
 Coordinators: Yashika Yadav : 9828184025, Gunjan Todankar : 7028001324

ENROLL
<https://docs.google.com/forms/d/e/1FpQUS6YrE1XVmq0krtV2dU8g7mJHkKqG9eGtRfDnKwUS5hrag/viewform>

Mr. Dhanshri Gokwad Faculty Coordinator | Dr. Vishal Hingmire HOD (E&TC) | Dr. Sharad Mulik Principal | Hon. Mr. Arjun Gavali Secretary | Hon. Mr. Nishant Gavali Secretary | Hon. Mr. Arvind Gavali Chairman



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Industrial Visit

Industrial Visit to Filtrum Autocomp Pvt. Ltd., Wai, Satara

The Department of Electronics and Telecommunication Engineering organized an **Industrial Visit to Filtrum Autocomp Pvt. Ltd., Wai, Satara** on **28/03/25**. The visit was arranged as part of the department's continuous efforts to bridge the gap between academic learning and industrial practices.

Event Highlights:

- **Company Visited:** Filtrum Autocomp Pvt. Ltd., Wai, Satara
- **Organized by:** Department of Electronics and Telecommunication Engineering
- **Objective:** Industrial Exposure to Manufacturing Processes
- **Participants:** E&TC Student





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Industrial Visit

An industrial visit to Cooper Corporation Pvt. Ltd.

On 12th May 2025, the students of the Electronics and Telecommunication (E&TC) Department undertook an industrial visit to **Cooper Corporation Pvt. Ltd.** This educational trip was organized as a part of the department's ongoing efforts to provide students with practical exposure to real-world industrial applications.

Event Highlights:

- **Company Visited:** Cooper Corporation Pvt. Ltd.
- **Organized by:** Department of Electronics and Telecommunication Engineering
- **Objective:** Industrial Exposure to Manufacturing Processes
- **Participants:** E&TC Student





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Glimpses of Alumni Meet



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SAWKAR INSTITUTES
 SATARA

37 YEARS
 OF ACADEMIC EXCELLENCE

INVITATION

ALUMNI MEET
2025

Presided by
Alumni Association
ARVIND GAVALI
COLLEGE OF ENGINEERING, SATARA

Venue :

18th May 2025	ARVIND GAVALI COLLEGE OF ENGINEERING Panmalewadi, Varye, Satara.-415 015	Time 10 a.m Onwards
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• HOMOEOPATHIC • PHARMACY • ENGINEERING • POLYTECHNIC
 • B.VOC • AYURVEDIC • BCA & MCA
 • SAWKAR SCIENCE COLLEGE • SAWKAR NDA INSTITUTE





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37 YEARS
 OF ACADEMIC EXCELLENCE

Alumni Meet
2025



ARVIND GAVALI
COLLEGE OF ENGINEERING
 POLYTECHNIC B.Tech M.Tech

+91 9957100100 +91 9069700100
 GAT NO. 247, PANMALEWADI, VARYE, SATARA, MAHARASHTRA ,415015



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GUEST LECTURE BY ALUMNI

Distinguished alumnus, Mr. Nilesh Shrotri, 2014-15 Batch graced our campus with his presence and delivered an insightful guest lecture, offering valuable career guidance to our students."





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Guest Lecture on "Network Theory"

The Department of Electronics and Telecommunication Engineering successfully organized a **Guest Lecture on "Network Theory"** on **25th April 2025**. The session was conducted with the aim of enhancing students' understanding of fundamental and advanced concepts in electrical network analysis, which are crucial for their academic and professional development.

The guest speaker for the event was **Dr. Mulla sir Principal of Doulatrao aher College of Engineering, Karad**, a distinguished expert in the field of electrical and electronics engineering. With years of experience in industry and academia, the speaker delivered an insightful session covering key topics such as circuit theorems, resonance, transient response, and practical applications of network analysis.

Students from second E&TC actively participated in the session, engaging in interactive discussions and clearing their doubts. The lecture not only strengthened their theoretical knowledge but also provided real-world perspectives on the subject.

The department extends its gratitude to the speaker for sharing valuable knowledge and to all faculty and students who contributed to the successful conduct of the event.



Event Details:

- **Topic:** Network Theory
- **Date:** 25th April 2025
- **Organized by:** Department of Electronics and Telecommunication Engineering



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One-Day Workshop on "Robotics and Automation" and "Research Paper Writing"

The Department of Electronics and Telecommunication Engineering organized a **One-Day Workshop on "Robotics and Automation" and "Research Paper Writing"** on 7th June 2025. The workshop was aimed at enhancing students' technical knowledge in the field of robotics as well as improving their research and academic writing skills.

Workshop Highlights:

- **Topics Covered:** Robotics and Automation, Research Paper Writing
- **Date:** 7th June 2025
- **Organized by:** Department of Electronics and Telecommunication Engineering
- **Participants:** E&TC Students
- **Objectives:** To provide practical exposure in robotics and enhance research skill.

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SATARA

Mr. Chandan M. N.
 Asst. Professor
 Department Automation &
 Robotics
 JSPM's Rajarshi Shahu
 College
 of Engineering, Pune

Robotics and Automation Club

Workshop on "Industrial Automation and Research Paper Writing"

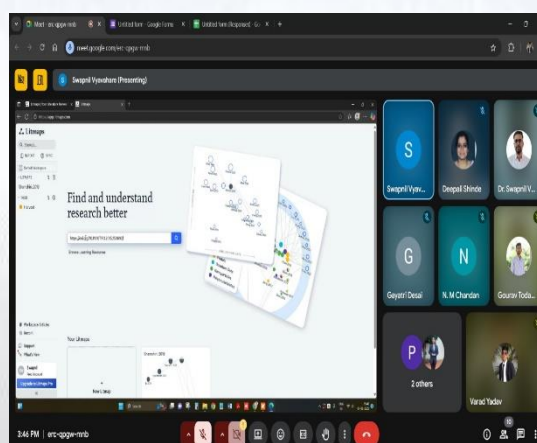
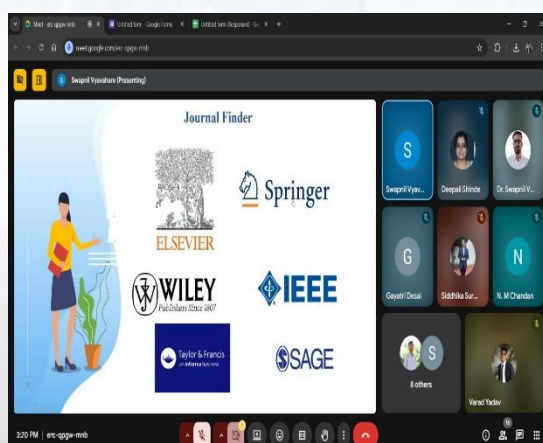
• Day & Date: Saturday, 7th June 2025

• Time : 10:00 am to 05:00 pm

• Mode : Online

Dr. Vyavahare S. S.
 Asst. Professor
 Department Automation &
 Robotics
 JSPM's Rajarshi Shahu
 College
 of Engineering, Pune

"Robotics and automation are not about replacing humans, they're about amplifying human potential."



Best Practices of the Department

Techno Fest 2K25 – A Technical Extravaganza by E&TC Department

The Department of Electronics and Telecommunication Engineering proudly organized **Techno Fest 2K25**, a one-day technical fest designed to showcase student talent and foster a culture of innovation and technical excellence. The event was held on **1st March**, bringing together budding engineers to participate in a range of competitive and engaging activities.

Glimpses of Techno Fest 2k25



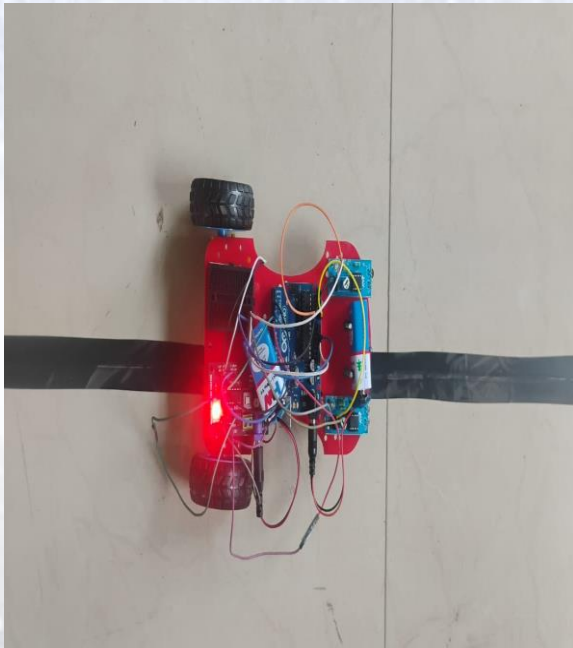
The poster for Techno Fest 2K25 is a vibrant red and white design. At the top, it features the logos of Samarth Educational Trust and Arvind Gavali College of Engineering, along with accreditation marks from NAAC and NBA. The central text reads 'DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION Presents TECHNO FEST 2K25' with the tagline 'Connect. Create. Conquer.' and the date '1st March 2025'. To the left, there are three boxes for 'Seminar on 5G, 6G', 'Workshop on Arduino', and 'E-game', each listing coordinators and contact numbers. To the right, there are boxes for 'Quiz', 'Chill zone: Photography competition', and an 'ENROLL' button with a Google Forms link. At the bottom, a 'Key Highlights' section lists: 'Maximum participants: 02 per group', 'All engineering students can participate in any competitions.', and 'Attractive trophies & certificates'. The footer lists the names and roles of the organizing committee members.

Key Highlights

- Maximum participants: 02 per group
- All engineering students can participate in any competitions.
- Attractive trophies & certificates

1. Line following robot competition





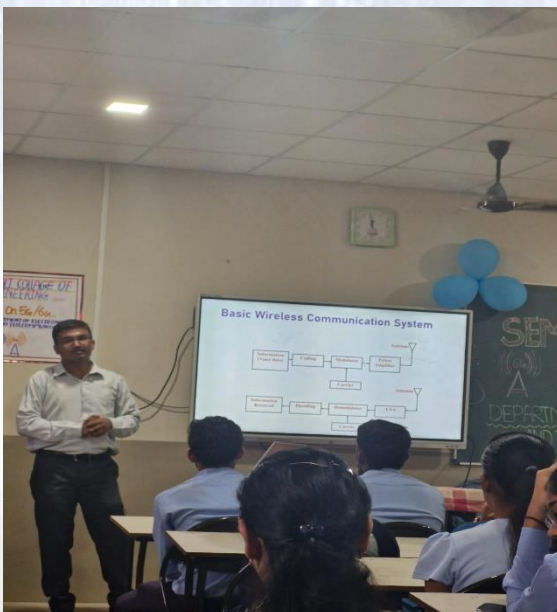
2. Techno Quiz



3. Workshop On Ardunio



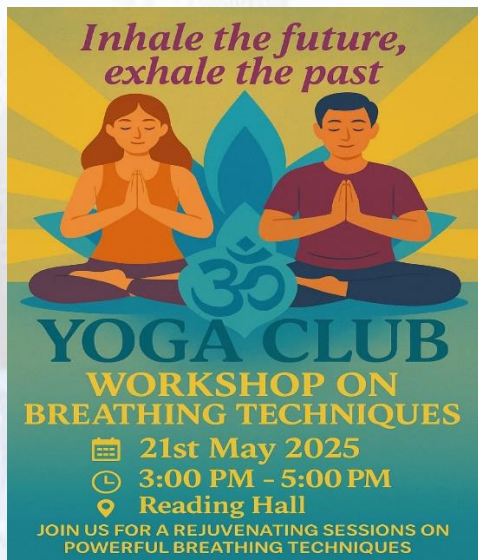
4. Seminar on 6G/5G



5. E-Game



Yoga Club



The first part of the paper discusses the importance of the research and the objectives of the study. It highlights the need for a comprehensive understanding of the research topic and the role of the research in advancing knowledge in the field. The second part of the paper presents the methodology used in the study, including the data collection methods and the analytical techniques employed. The third part of the paper discusses the results of the study and the conclusions drawn from the findings. The final part of the paper provides a summary of the key points and offers suggestions for future research.

The research was conducted using a combination of qualitative and quantitative methods. Data was collected through interviews, surveys, and archival research. The data was then analyzed using statistical software and thematic analysis. The results of the study indicate that there is a significant relationship between the variables studied. The findings suggest that the research topic is a complex and multifaceted issue that requires further investigation.

The study has several limitations, including a small sample size and a lack of control over the variables. Despite these limitations, the study provides valuable insights into the research topic. The findings have implications for both theory and practice. The study also identifies areas for future research, including the need for larger samples and more controlled experiments.

In conclusion, the study provides a comprehensive overview of the research topic and the findings of the study. The results suggest that the research topic is a complex and multifaceted issue that requires further investigation. The study also identifies areas for future research, including the need for larger samples and more controlled experiments. The findings have implications for both theory and practice.

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