




N.E.S.G.I's  
Faculty of Engineering, Naigaon, Pune-412213  
Department of E&TC Engineering

Date: 26<sup>th</sup> Feb 2024

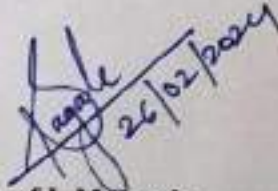
## NOTICE

All S.E. E&TC students are hereby informed that Department of E&TC of NESGI-FOE has scheduled an expert lectures on Signals and systems subject for students of S.E.(E&TC). All are informed to attend the same. Schedule for Expert Lectures session is arranged as follows.

Sr.No	Date and Time	Location	Description
1.	29 <sup>th</sup> feb 2024 10 am to 4 pm	SE Classroom 344	Fundamentals of Signals and Systems, Continuous Time (CT) Signals
2.	9 <sup>th</sup> march 2024 10 am to 4 pm	SE Classroom 344	Continuous Time (CT) Systems, Discrete Time (DT) Signals,
3.	29 <sup>th</sup> and 30 <sup>th</sup> march 2024 10 am to 4 pm	SE Classroom 344	Discrete Time (DT) Systems, Sampling and Reconstruction Z Transform of Signals
4.	12 <sup>th</sup> April , 10 am to 4 pm	SE Classroom 344	Laplace Transform and probability

  
Prof.S.R.Shinde  
Coordinator



  
26/02/2024  
Prof.L.M.Sagale  
Head of Department

Navsahyadri Education Society's  
Group of Institutions, Pune  
Department of ENTC Engineering  
Academic Year 2023-24



Date: 08/4/2024

To,  
The Principal  
NESGI, Pune.

Subject: Permission regarding arranging Guest Lecture.

Respected Sir,

We ENTC Engineering department of Navsahyadri Education Society's Group of Institutions, Nalgaoon want to arrange Guest lecture on "Signal And System" which is a Subject of academics for SE ENTC Engineering Students. I kindly request you to please sanction the Remuneration of 5000/- for 1 day.

The lecture will be conducted on 12<sup>th</sup> April 2024, Time - 10.00 AM to 4.00 PM.

Remuneration = 1000\* 5 hours =Rs 5000/ Day

Subject	Topics	Name of Guest	Class
Signal And System	UNIT-6	Prof. R A Barapate	S. E. ENTC

Experience-

- 30 years of experience in teaching field.

Qualification-

- Ph.D. (Pursuing), ME. (Microwave)

  
Prof. S. R. Shinde  
Co-Ordinator

  
Prof. U. M. Sagale  
HOD

  
Dr. M. V. Dalvi  
Principal

Approved  






Navsahyadri Education Society's  
Group of Institutions, Pune  
Department of ENT C Engineering  
Academic Year 2023-24



Date: 21/3/2024

To,  
The Principal  
NESGI, Pune.

Subject: Permission regarding arranging Guest Lecture.

Respected Sir,

We ENT C Engineering department of Navsahyadri Education Society's Group of Institutions, Naigaon want to arrange Guest lecture on "Signal And System" which is a Subject of academics for SE ENT C Engineering Students. I kindly request you to please sanction the Remuneration of 5000/- for 1 day.

The lecture will be conducted on 29<sup>th</sup> march 2024 and 30<sup>th</sup> march 2024, Time: - 09.00 AM to 4.00 PM.

Remuneration = 1000\* 10 hours =Rs 10000

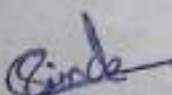
Subject	Topics	Name of Guest	Class
Signal And System	UNIT-3 & 4	Prof. R A Barapate	S. E. ENT C

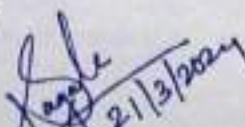
**Experience-**

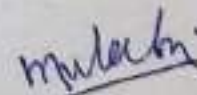
- 30 years of experience in teaching field.

**Qualification-**

- Ph.D. (Pursuing), ME. (Microwave)

  
Prof. S. R. Shinde  
Co-Ordinator

  
21/3/2024  
Prof. L. M. Sagale  
HOD

  
Dr. M. V. Dalvi  
Principal





**YADRI GROUP OF INSTITUTES, FACULTY OF ENGINEER**

Sr. No. 69,70,71, Naigaon (Nasarapur), Pune-Satara Highway, Pune-

412213



**Department of Electrical Engineering**

10/08/2023

## **ACTIVITY REPORT**

### **PLC SCADA and Industry 4.0 Seminar**

**Date** : 10 August 2023

**Time** : 11:30 AM – 02:00 PM

**Venue** : Electrical Engineering Department, Navsahyadri Group of Institutions.

**Attendee** : Departmental Staff and Students.

#### **Details :**

On August 10, 2023, the Electrical Engineering Department of Navsahyadri Group of Institutions organized a expert Lecture on Programmable Logic Controllers (PLC) and Supervisory Control and Data Acquisition (SCADA) systems. The guest speaker, Mr. Vaibhav Dasture and Mr. Shikant Pawar an expert in the field of industrial automation and control systems, delivered an insightful presentation that provided attendees with a comprehensive understanding of PLCs and SCADA systems and their role in modern industries.

Key Topics Covered:

#### **Introduction to PLC and SCADA:**

The lecture began with an overview of PLCs and SCADA systems, their history, and their significance in industrial automation. The speaker highlighted how PLCs serve as digital computers for controlling manufacturing processes, while SCADA systems provide real-time data visualization and control over large-scale processes.

#### **PLC Architecture and Programming:**

The guest speaker delved into the architecture of PLCs, discussing the various components such as the central processing unit, input/output modules, memory, and communication interfaces. The audience gained insights into ladder logic programming, which is commonly used to create

control logic for PLCs. Practical examples of ladder logic programming were shared to illustrate the concepts.

#### **SCADA Components and Functionality:**

Attendees were introduced to the components of a SCADA system, including human-machine interfaces (HMIs), remote terminal units (RTUs), communication protocols, and databases. The lecture emphasized the role of SCADA systems in real-time data acquisition, monitoring, and control of industrial processes.

#### **Integration of PLC and SCADA:**

The guest speaker highlighted the seamless integration of PLCs and SCADA systems in industrial settings. Examples of how PLCs control processes on the factory floor, while SCADA systems provide operators with a visual representation of the entire process, were presented.

#### **Industrial Applications and Case Studies:**

The lecture showcased several real-world industrial applications where PLCs and SCADA systems play a crucial role, such as manufacturing, power generation, water treatment, and oil and gas industries. Case studies were discussed to illustrate the efficiency and benefits brought about by these technologies.

#### **Advantages and Challenges:**

The guest speaker discussed the advantages of using PLCs and SCADA systems, including increased productivity, reduced human error, and enhanced process control. The lecture also touched on potential challenges, such as cyber security concerns and the need for regular maintenance and updates.

Photograph of the Event:





Prof. Akshay S. Kale  
(HOD Electrical)  
9921659594  
er.akshaykale@gmail.com

**Dr. M. V. Dalvi**  
**Principal**  
NESOI, Faculty of Engineering  
Gate No. 69, 70, 71, Hingon, Tal. Shor, Dist. Pune

Dr. Manojkumar Dalvi  
Principal, NGIFOE, Pune



# NAVSAHYADRI GROUP OF INSTITUTES, FACULTY OF ENGINEERING

Sr. No. 69,70,71, Naigaon (Nasarapur), Pune-Satara Highway, Pune-412213

Department of Computer Engineering

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## ACTIVITY REPORT

- 1. Title of Activity:** Seminar on Scope for Automated testing in Industry
- 2. Date & venue:** 23 August 2023 NESGI Campus.
- 3. Number of Students Participated:** 56
- 4. Outcomes of activity:**
  - **Increased Awareness:** Students were informed about the critical role of automated testing in modern software development and its advantages over manual testing.
  - **Practical Understanding:** Participants gained hands-on experience with industry-standard automated testing tools like Selenium and TestNG.
  - **Industry Readiness:** Students were made aware of the current trends and demands in the industry, preparing them for careers in automated testing.
  - **Motivation for Further Learning:** The session inspired students to pursue additional training and certifications in automated testing to enhance their career prospects.
- 5. Description of activity:**
  - The Computer Engineering Department of NAVSAHYADRI GROUP OF INSTITUTES, FACULTY OF ENGINEERING organized a Seminar titled "Scope for Automated Testing in Industry". This seminar is conducted by guest of honor Mr. Rajesh Shukla. Our respected Principal Dr. M.V. Dalvi was present and actively participated in the activity to motivate students. Guests provide students with a comprehensive understanding of automated testing, a crucial aspect of the software development process. The session started with a presentation on the basics of software testing, highlighting the limitations of manual testing and the growing need for automation in the industry.
  - Industry professionals were invited to share their experiences and insights, discussing the evolution of automated testing and the tools that are currently popular in the market. The speakers demonstrated how automated testing tools like Selenium and JUnit are used in real-world scenarios to ensure software quality and



reliability.

- The session included a live demonstration where students could observe the setup and execution of automated tests. This practical component allowed them to understand the workflow of automated testing and the benefits it offers in terms of efficiency and accuracy.

- The activity concluded with a Q&A session, where students engaged with the experts to clear their doubts and gain further insights into the practical challenges and solutions in automated testing.

## 6. Summary & conclusion

The activity was successful in meeting its goals of educating students about the importance and scope of automated testing in the industry. Participants left with a deeper understanding of the tools and techniques used in automated testing and were encouraged to further explore this field. The session emphasized the increasing demand for automated testing professionals and the career opportunities available in this domain. Overall, the event was highly beneficial for students aspiring to enter the software testing industry.

## 7. Feedback

The feedback from the participants was overwhelmingly positive. Students appreciated the depth of information provided and the practical demonstrations, which made the concepts more relatable. Many expressed a strong interest in pursuing further studies and certifications in automated testing. The session was praised for its relevance to the current industry needs and its ability to motivate students toward a career in this field.

## 8. Photos of activity.




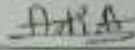


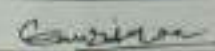
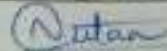


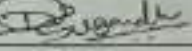



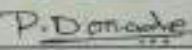
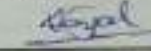
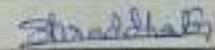




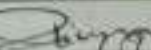
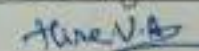
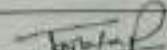
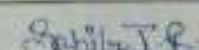



  
Nalgaon  
Tel. Bhor,  
Dist. Pune

*M. V. Dalvi*  
Dr. M. V. Dalvi  
Principal

## Attendance

BE Computer

Roll No.	Name of Students	Signature
1	AMATE ADITYA PRASHANT	
2	AMBLE ARTI MININATH	
3	ANJALI SANTOSH KOLHE	
4	AVINASH SHRIVANT VHANMANE	
5	BADADHE RAJGAURI SUNIL	
6	BHLARE NUTAN SANTOSH	
7	CHANDANE RAJ TANAJI	
8	CHAVAN DIGVIJAY SATISH	
9	DARJLU VIKAY KUMAR	
10	DESHMUKH SAUGANDH CHARUDATTA	
11	DHANAWADE ABHAY RAJENDRA	
12	DHAYGUDE RUTUJA DHONDIBA	
13	DHUMAL PRATIK SHIRAJI	
14	DONDOE PRACHI GAJANAN	
15	GAIKWAD KAJAL RAMDAS	
16	GAIKWAD SHRADDHA SURESH	
17	GANESH BHARAT VHANMANE	
18	GAVHANE SHUBHAM RAJENDRA	
19	GHADAGE AMIT DATTATRAY	
20	GUND SANJOG SHIRAJI	
21	GURAV DIVYA SATISH	
22	HIRE VINAY ASHOK	
23	INGLE VISHAL NAVANATH	
24	JAGTAP JANHAVI KRISHNARAO	
25	JAMDADE SHRUTIKA CHANDIRAKANT	
26	JHODGE SAHIL RAHUL	
27	KHARWALE SANIKA SURYAKANT	
28	KULKARNI ROHIT VASANT	
29	MENCHE UTKARSH GANESHI	
30	MISALE SANJANA JAGDISH	

31	MUNDANKAR SHRUTI RAJESH	M. Shruti
32	NANGARE HARSHAD DATTA TRAYA	N. Harshada
33	NAYAN DILIP BUDGUDE	Nayan Dilip
34	PAMANE SHWETA DEVIDAS	Shweta P.
35	PARIHAR SHLOK MANOJ SINGH	Shlok
36	PAWAR ADITYA DHANANJAY	Aditya
37	PAWAR AMAR BHALI	P. Amar.
38	PAWAR KARTIK SHIVAJI	Kartik Pawar
39	PAWAR SANKET SANTOSH	
40	PISAL AKSHAY SANJAY	Akshay
41	PISAL SHREYAS VIJAY	Shreyas
42	POL TANMAY SURYAKANT	
43	PRATIK SUNIL SHELKE	P. S. Shelke
44	REDDY LAKHAN NARAYAN	Lakhan
45	SADAFALE KUSHAL JAYANT	Kushal S.
46	SAKSHI PANDURANG BURLE	
47	SAKSHI SUNIL KADAM	
48	SALUNKHE AAKANKSHA AVINASH	Aakanksha
49	SALUNKHE ANISHA SANJAY	Anisha S.
50	SANKA MEGHRAJ ERANDE	SS
51	SANKA SANJAY MANDHARE	
52	SAURAV RANJEET KUMAR	Saurav
53	SAYANT AKASH AMANDARAO	Akash
54	SAYLI VITTAL VACHAKAL	Sayali
55	SHINDE PRATHAMESH VYANKAT	
56	SHINDE PRATHMESH SHIVAJI	Shinde
57	SHINDE ROHAN PRATAP	Rohan
58	SHIVAM ANAND GAIKWAD	Anand G.
59	SHRIMHARI VIJAY GAIKWAD	Vijay
60	SINGH ANKIT RAJESH	Ankit
61	SURWASE VAIBHAV DATTATRAY	Vaibhav
62	TAWARE KETAN RAVINDRA	Ketan
63	VAISHNAVI RAMCHANDRA KANBLE	V. Kanble

64	WADKAR ROSHAN SHIVAJI	
65	WADKAR VAISHNAVI RAJIRANG	<i>W. Vaishnavi</i>
66	WAGHMODE PRASANNA DADA	<i>Prasanna</i>
67	WAGHMODE SAMARTH DADA	
68	WANJALE AARTI NANDKUMAR	<i>Aarti Wanjale</i>
69	WANKHEDE SANKET RAJENDRA	
70	YADAV AADITI RAJARAM	<i>Aaditi</i>
71	YADAV YOGITA ANANT	
72	YEDAVE VALLABH SANJAY	
73	YEMUL SAIKRISHNA SHRIKANT	<i>Y. Saikrishna</i>



*M. V. Dalvi*  
Dr. M. V. Dalvi  
Principal



Navsahyadri Education Society's Group of Institutes

## FACULTY OF ENGINEERING

Pune-Satara Road, Naigaon, Pune-412213

*Electrical Engineering Department*

14/09/2023

### ACTIVITY REPORT

## **MATLAB WORKSHOP**

**Date** : 14 September 2023

**Venue** : Electrical Engineering Department, Navsahyadri Group of Institutions

**Attendee** : Departmental Staff and Students

#### **Details :**

On September 14<sup>th</sup>, 2023, the Electrical Engineering Department of Navsahyadri Group of Institutions organized a Workshop on MATLAB, on occasion Engineers day. The workshop commenced at 10:00 AM in the Class Room No. 311 of Electrical department.

Guest of today's program was Pratiksha Rachmale, working as trainer in ABC Training Institute. In this workshop following points are discussed.

**1. Workshop Topics:** MATLAB workshops can cover a wide range of topics, depending on the level and focus of the workshop.

Common topics include: Introduction to MATLAB basics: This covers the MATLAB environment, syntax, and basic operations.

Data visualization: Creating plots, charts, and graphs to visualize data.

Data analysis: Techniques for data manipulation, statistics, and data processing.

Numerical computation: Solving equations, performing mathematical operations, and working with matrices.

Simulink: Introduction to Simulink, MATLAB's tool for modeling and simulating dynamic systems.

Image processing and signal processing: MATLAB's capabilities in these domains.

Machine learning and deep learning: How to use MATLAB for building and training machine learning models.

Advanced topics: More specialized topics like optimization, control systems, and more.

**2. Workshop Format:** Workshops can be conducted in various formats, including: In-person

workshops: These are held at physical locations, typically universities, training centers, or conference venues.



Online workshops: Conducted over web conferencing platforms, allowing participants to join remotely.

Self-paced workshops: Participants are given access to pre-recorded video lectures and exercises to complete at their own pace.

**3. Instructors:** Workshops are typically led by experienced instructors who are proficient in MATLAB. Instructors may be MATLAB experts, academics, or industry professionals with relevant expertise.

**4. Workshop Materials:** Participants often receive workshop materials such as lecture notes, code examples, datasets, and exercises to work on during the workshop. These materials are valuable for learning and reference.

**Photograph of the Event :**





Prof. A. D. Pachghare  
Workshop Coordinator  
Electrical Engg. Dept.

Prof. Akshay S. Kale  
HOD, Electrical Engg. Dept.

**Dr. M. V. Dalvi**  
**Principal**  
NESGI, Faculty of Engineering  
Dist No.89,72,71,Nasikon, Tal. Bhor, Dist. Pune

Dr. Manojkumar Dalvi  
Principal, NGIFOE, Pune



# NAVSAHYADRI GROUP OF INSTITUTES, FACULTY OF ENGINEERING

Sr. No. 69,70,71, Naigaon (Nasarapur), Pune-Satara Highway, Pune-412213

Department of Computer Engineering



## ACTIVITY REPORT

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1. **Title of Activity:** Seminar on “AWS and Linux: Building Robust Cloud Infrastructures”
2. **Date & venue:** 26 September 2023 NESGI Campus.
3. **Number of Students Participated:** 61
4. **Outcomes of activity:**
  - **Deep Understanding:** Students gained a comprehensive understanding of how AWS and Linux work together to build and manage robust cloud infrastructures.
  - **Practical Skills:** Participants acquired hands-on experience in deploying and managing cloud resources using AWS with Linux environments.
  - **Industry Knowledge:** Insights were provided into current industry practices and the role of Linux in optimizing AWS cloud services.
  - **Career Enhancement:** The seminar equipped students with knowledge that enhances their qualifications for careers in cloud computing and system administration.
5. **Description of activity:**
  - The Computer Engineering Department of NAVSAHYADRI GROUP OF INSTITUTES, FACULTY OF ENGINEERING organized a Seminar titled "AWS and Linux: Building Robust Cloud Infrastructures". This seminar is conducted by guest of honor Mr. Sumit Agarwal and our respected Principal Dr. M.V. Dalvi was present and actively participated in the activity to motivate students. The seminar was designed to provide students with an in-depth exploration of how to leverage AWS and Linux to create and manage scalable, reliable cloud infrastructures.
  - The session began with an introduction to the fundamentals of AWS cloud services and the role of Linux in cloud environments. Experts from the industry discussed key AWS services such as EC2, S3, and RDS, and how these services can be effectively managed and optimized using Linux.
  - The seminar featured practical demonstrations where participants learned how to deploy Linux-based applications on AWS, configure virtual servers, and use AWS tools for monitoring and managing cloud resources. Key topics included setting up secure environments, automating tasks with scripts, and scaling applications to handle varying loads.
  - Interactive exercises allowed students to apply what they learned by working on real-world scenarios, such as setting up a web server on AWS using Linux, configuring load balancers, and implementing backup strategies.

## 6. Summary & conclusion

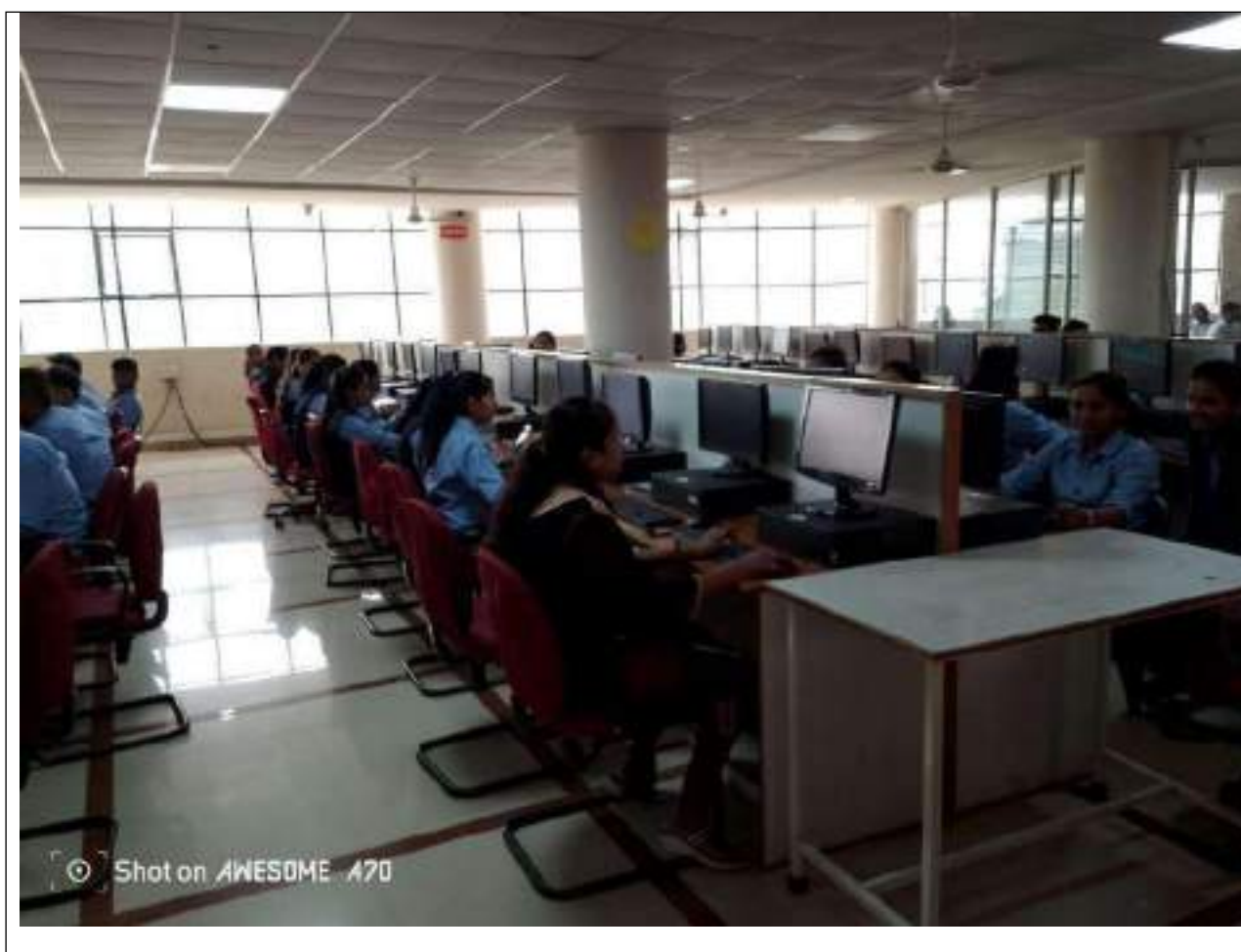
The seminar successfully met its objectives by providing students with valuable insights into building and managing cloud infrastructures using AWS and Linux. Participants left with a strong understanding of how to utilize these technologies to create scalable and efficient cloud solutions. The hands-on experience gained through practical exercises was particularly beneficial, allowing students to apply theoretical knowledge in a practical setting. The seminar highlighted the importance of AWS and Linux skills in the cloud computing industry and encouraged students to pursue further learning and certification in these areas.

## 7. Feedback

Students appreciated the detailed explanations and hands-on approach, which made complex concepts more accessible. The practical demonstrations and exercises were particularly well-received, providing a tangible understanding of how to use AWS and Linux together. Many students expressed a keen interest in future workshops on advanced cloud topics and requested additional resources for further study. The seminar was praised for its relevance and practical value, contributing significantly to students' career preparation in cloud computing.

## 8. Photos of activity.





*M.V. Dalvi*  
Dr.M.V. Dalvi  
Principal

Roll No.	Name of Students	Signature
1	ADAM NIRAJ VIJAY	<u>Niraj</u>
2	AWACHAR SHIREYASH SUNIL	<u>Shireyash</u>
3	BAMBOLE ANIRUDDHA RADHESHYAM	<u>Aniruddha</u>
4	BARKADE ASMITA YUVRAJ	<u>Asmita</u>
5	BHISE RAJNANDINI RAVINDRA	<u>Raj</u>
6	BHOITE NAMRATA SUNIL	<u>Namrata</u>
7	BHOSALE ASHWINI RAMCHANDRA	<u>Ashwini</u>
8	BIRAJDAR ABHISHEK SATISH	<u>AB</u>
9	BODAKE VIRAJ ANIL	<u>Viraj</u>
10	CHALEKAR TEJAS RAJENDRA	<u>Tejas</u>
11	CHAVAN AVINASH BHASKAR	<u>Chavan</u>
12	CHITAL VINAYAK VENKATESH	<u>Chital</u>
13	DAMODAR AJINKYA MAHENDRA	<u>Ajinkya</u>
14	DATIR ANIKET PANDURANG	<u>Aniket</u>
15	DHAS VIRAJ AMOL	
16	DHUMAL SAKSHI RAJENDRA	<u>Sakshi</u>
17	DOKE KIRAN SAWATA	<u>Kiran</u>
18	DOKE VISHAL DATTATRAY	<u>Vishal</u>
19	GAMBHIRE PATIL PRATIK VIJAYKUMAR	<u>Pratik</u>
20	GANGURDE DIKSHITA RAJENDRA	<u>Di</u>
21	GHORPADE ASMITA MAHESH	<u>Asmita</u>
22	GOLE YASH SUDHAKAR	<u>Yash</u>
23	HAKE PRATIK SANJAY	<u>H. Pratik</u>
24	HEDE AKASH RAJU	<u>Akash</u>
25	HOLKAR KARTIKESH SUNIL	<u>Kartikesh</u>
26	INGALE PIYALI HEMANT	<u>Piyali</u>
27	JADHAV ANUSHKA MOHAN	
28	JADHAV RITESH RAHUL	<u>Ritesh</u>
29	JAGTAP ABHIJIT GANESH	<u>Abhijit</u>
30	KADAM AADITI AJAY	<u>AADiti</u>



# NAVSAHYADRI GROUP OF INSTITUTES, FACULTY OF ENGINEERING

Sr. No. 69,70,71, Naigaon (Nasarapur), Pune-Satara Highway, Pune-412213

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## ACTIVITY REPORT

**1. Title of Activity:** Seminar on DESIGN OF STEEL STRUCTURES (DSS) as per SPPU pattern and structure by Dr. Atul Khatri

**2. Event Coordinator:** Prof. P.C.Shivtare

**3. No. of members participated : 10**

**4. Date & venue:** 12/11/2023, NGI, Naigaon, Pune

**5. Outcomes of activity:**

The lecture provides participants with a comprehensive overview of the principles and practices involved in designing steel structures, equipping them with the knowledge to apply these concepts in real-world projects.

**6. Description of activity:**

A seminar on DESIGN OF STEEL STRUCTURES (DSS) as per SPPU pattern by Dr. Atul Khatri was organised by the Department of Civil under the Flagship and Guidance of Dr.Dalvi, Principal, NGI, FOE. Lecture based on the design of steel structures introduces the fundamental principles and standards, discusses the types of steel sections and their applications, and covers design methods like ASD and LRFD. It includes case studies, recent advances in the field, and a Q&A session, providing a comprehensive overview for participants to enhance their understanding and practical skills in designing steel structures.

**7. Activity Experience:**

The participants felt that the delivery and presentation of the resource person was good and the seminar brought practical knowledge of the subject in them. They also felt that the seminar was coordinated very well and such seminar's should be arranged regularly.





**8. Photos of Activity:**



*M. V. Dalvi*

**Dr. M. V. Dalvi**

**Principal**

NESGI, Faculty of Engineering  
Get No.89,70,71,Nasgaon, Tal. Bhor, Dist. Pune

31	KADAM MAHISAGAR GANPATI	<u>Adhurya</u>
32	KAJAL KUMARI	
33	KAMBLE ATHARV BALU	<u>Kambale</u>
34	KARE PRAJAKTA KUNDLIK	<u>K. Prajakta</u>
35	KHAWALE PRASAD DILIP	
36	KONDE SAHIL SHARAD	<u>Konde</u>
37	KONDHALKAR TANAYA DATTATRAY	
38	KSHIRSAGAR LALITA DATTATRAY	<u>KLD</u>
39	LAHANE ARPITA ANGAD	<u>Vishwari</u>
40	MADGUDE VISHWARAJ VILAS	
41	MAGAR ABHIJEET SANTOSH	<u>S.M.</u>
42	MAHIMA BHARATI	<u>MB</u>
43	MALI SIDDHESH SATISH	<u>M. Siddhesh</u>
44	MANE PRAMOD ULHAS	<u>Mane P</u>
45	MUSKAN KUMARI	<u>Musk</u>
46	NAIK OMKAR SUMAN	<u>N. Omkar</u>
47	NANGARE SAKSHI SUNIL	
48	NIKAM RUCHIKA VIJAY	<u>N.R.V.</u>
49	NIMBALKAR SURAJ SAMBHAJI	<u>N.S.S.</u>
50	PALKHE AKSHATA SUNIL	<u>Palkhe Ash</u>
51	PARJANE PRATIK PARMESHWAR	<u>PPD</u>
52	PARTHE SURAJ SANTOSH	<u>PSS</u>
53	PASALKAR OM NAVNATH	<u>Om</u>
54	PATIL SAYALI BABURAO	<u>Patil</u>
55	PAWAR ADITYA GANGADHAR	
56	PAWAR PRAJWAL ASHOK	<u>P. Pawar</u>
57	PHADATARE ANKITA ANIL	<u>Anita P.</u>
58	RASAL SAKSHI SHRIKANT	<u>R.S.S.</u>
59	RASKAR SHRUTI MAHENDRA	<u>R.S.M.</u>
60	SAGVEKAR ANKITA ANANT	<u>Sagvekar</u>
61	SAKAT PRIYA MANIK	<u>Sankat P.</u>
62	SALUNKE CHAITANYA DATTATRAY	
63	SHAIKH SAHIL HUSEN	<u>Shai</u>

64	SHEVALE AMAR NAVNATH	<i>Amar</i>
65	SHINDE AVINASH ASHOK	<i>Avinash</i>
66	SHIRSALE MITESH BHASKAR	
67	SUBHEDAR LIYAKAT SALAUDDIN	<i>Subhedar</i>
68	TARADE SHIRADIYA SANTOSH	
69	TARATE PRASHANT DAPU	<i>Prashant</i>
70	TARATE RUTUJA RAJENDRA	<i>Rutuja</i>
71	VISHWANATHULAMAR ADITHYA	
72	WADAKR TUKARAJI BABAN	
73	ZAGADE TANUJA BANJAY	<i>Tanuja</i>
74	SHEWALE ADITYA MAHINDRA	<i>Aditya</i>



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Dr.M.V. Dalvi  
Principal



## NAVSAHYADRI GROUP OF INSTITUTES, FACULTY OF ENGINEERING

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Department of Computer Engineering



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### ACTIVITY REPORT

1. **Title of Activity:** Workshop on AWS Cloud Networking Security: Protecting Your Data and Applications
2. **Date & venue:** 11 December – 12 December 2023 NESGI Campus.
3. **Number of Students Participated:** 68
4. **Outcomes of activity:**
  - **Enhanced Security Knowledge:** Students gained a thorough understanding of AWS networking security practices and tools.
  - **Practical Skills:** Participants learned how to configure and manage AWS security features to protect cloud data and applications.
  - **Industry Insights:** Insights into current security threats and best practices in AWS cloud networking were provided.
  - **Career Advancement:** The seminar equipped students with valuable skills and knowledge that can enhance their career prospects in cloud security.
5. **Description of activity:**
  - The Computer Engineering Department of NAVSAHYADRI GROUP OF INSTITUTES, FACULTY OF ENGINEERING organized a workshop titled "AWS Cloud Networking Security: Protecting Your Data and Applications". This workshop is conducted by guest of honor Mr. Ravi Sharma. and Our respected Principal Dr. M.V. Dalvi were present and actively participated in the activity to motivate students. The workshop was designed to provide students with a comprehensive understanding of security practices for AWS cloud networking.
  - The session began with an overview of the importance of cloud security, highlighting common threats and vulnerabilities specific to AWS environments. Industry experts discussed key AWS security services such as AWS Identity and Access Management (IAM), AWS Security Groups, and AWS Network Access Control

Lists (NACLs).

- The seminar featured detailed demonstrations on configuring these security features to safeguard AWS resources. Topics covered included setting up security groups for controlling inbound and outbound traffic, configuring NACLs for additional network layer security, and using AWS Shield and AWS WAF (Web Application Firewall) to protect against DDoS attacks and web threats.

- Participants engaged in hands-on exercises to apply what they learned, including setting up secure network architectures, implementing encryption for data at rest and in transit, and monitoring network traffic for potential security issues.

## 6. Summary & conclusion

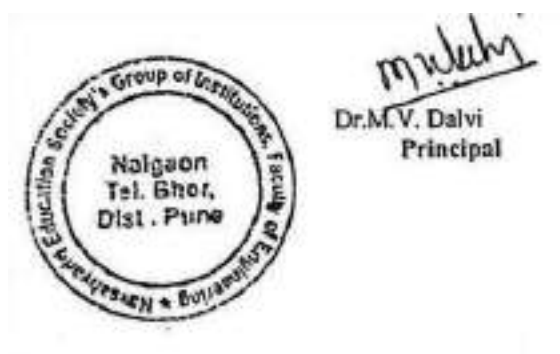
The seminar effectively achieved its objectives by providing students with valuable insights into AWS cloud networking security. Students left with a solid understanding of how to implement and manage security measures to protect their cloud data and applications. The hands-on demonstrations and practical exercises were particularly beneficial, allowing students to gain real-world experience in securing AWS environments. The seminar underscored the critical importance of robust security practices in cloud computing and prepared students for careers in cloud security.

## 7. Feedback

Feedback from participants was highly positive. Students appreciated the depth of the content and the practical approach of the seminar, which made complex security concepts more understandable and applicable. Many students expressed a strong interest in further exploring AWS security topics and requested additional workshops on related subjects. The seminar was praised for its relevance to current industry practices and its ability to provide actionable skills for future career development in cloud security.

## 8. Photos of activity.





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## ACTIVITY REPORT

1. **Title of Activity:** In-Depth Data Analysis with Python: Methods, Tools, and Best Practices
2. **Date & venue:** 22 February 2024 NESGI Campus.
3. **Number of Students Participated:** 70
4. **Outcomes of activity:**

**Enhanced Skills:** Students developed advanced skills in data analysis using Python, including data



cleaning, exploration, and visualization.

**Tool Proficiency:** Participants became proficient in using Python libraries such as Pandas, NumPy, Matplotlib, and Seaborn.

**Best Practices:** Students learned best practices for handling and analyzing data, ensuring accuracy and reliability in their analyses.

**Practical Knowledge:** The seminar provided practical knowledge that students can apply to real-world data analysis projects and future careers.

## 5. Description of activity:

- The Computer Engineering Department of NAVSAHYADRI GROUP OF INSTITUTES, FACULTY OF ENGINEERING organized a Seminar titled "In-Depth Data Analysis with Python: Methods, Tools, and Best Practices". This seminar is conducted by guest of honor Mr. Rajesh Kumar and our respected Principal Dr. M.V. Dalvi was present and actively participated in the activity to motivate students. The seminar was aimed to provide a comprehensive understanding of advanced data analysis techniques using Python.
- The session commenced with an introduction to the core Python libraries essential for data analysis, including Pandas for data manipulation, NumPy for numerical computations, and Matplotlib and Seaborn for data visualization.

### The seminar covered a range of topics:

- **Data Cleaning and Preprocessing:** Techniques for handling missing values, outliers, and data transformations.
- **Exploratory Data Analysis (EDA):** Methods for summarizing and exploring datasets to uncover patterns and insights.
- **Advanced Visualization:** Creating complex visualizations to effectively communicate data insights.

- **Statistical Analysis:** Applying statistical methods to analyze data and make data-driven decisions.
- Participants engaged in hands-on exercises and real-world case studies, where they applied the learned methods and tools to analyze datasets. The seminar also included discussions on best practices for ensuring the accuracy and reliability of data analysis results.

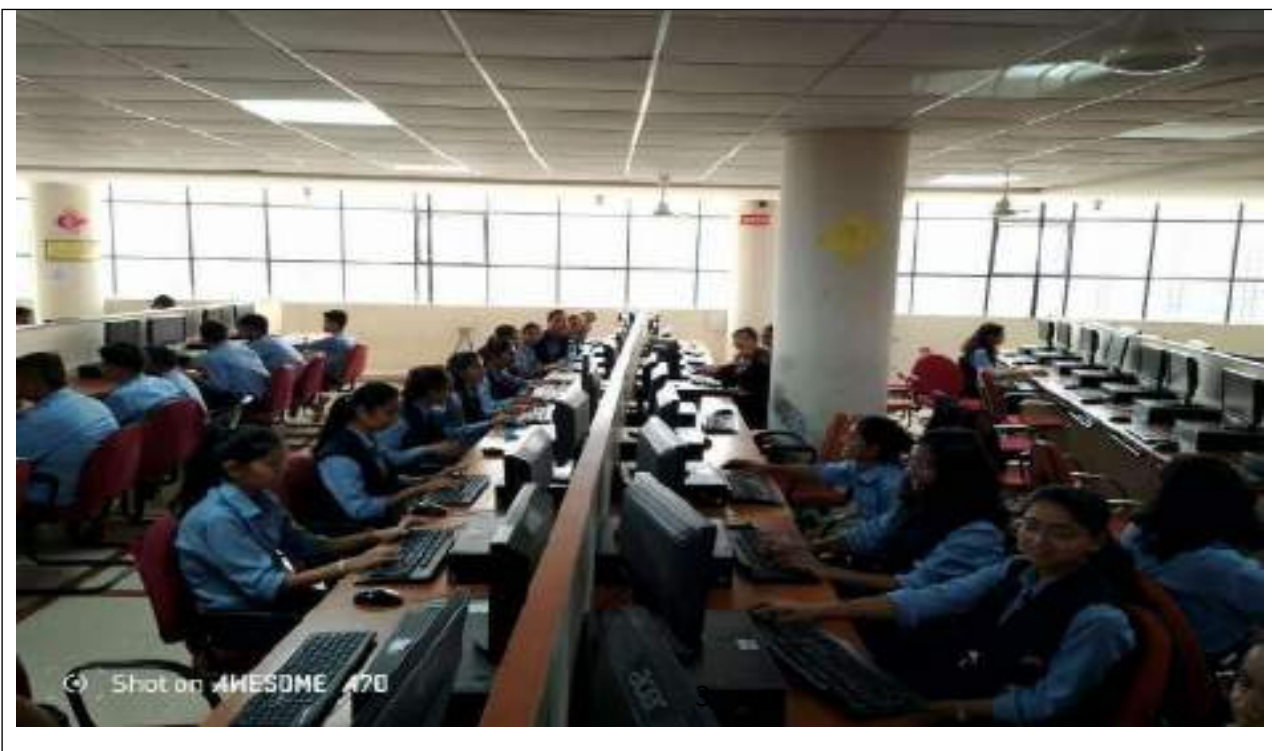
## 6. Summary & conclusion

The seminar successfully achieved its objectives by providing students with in-depth knowledge and practical skills in data analysis with Python. The interactive sessions and hands-on exercises allowed participants to apply advanced techniques and tools, enhancing their proficiency in data analysis. The seminar highlighted the importance of best practices in data analysis and equipped students with valuable skills that are directly applicable to real-world scenarios. Overall, the seminar was a valuable educational experience, preparing students for future data analysis challenges and opportunities.

## 7. Feedback

Students appreciated the detailed coverage of advanced data analysis techniques and the practical approach of the seminar. The hands-on exercises were particularly well-received, providing a tangible understanding of how to apply Python tools and methods to real data analysis tasks. Many students expressed interest in further workshops on related topics and requested additional resources for deepening their knowledge. The seminar was praised for its relevance to current industry practices and its effectiveness in enhancing participants' data analysis skills.

## 8. Photos of activity.





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Dr.M.V. Dalvi  
Principal

## **Report of Workshop on Research Methodology**

17<sup>th</sup> Feb 2024

The Research Methodology Workshop was tailor-made to facilitate the academic requirements of the Post-Graduate student community.. The two-days trans-disciplinary workshop was conceptualised with the intention of knowledge-building on the fundamentals of research concepts, methodologies and processes in addition to providing hands-on training in synopsis/thesis writing with inputs on the essentials of academic writing.

The objectives of the workshop were

- ❖ To develop knowledge on the fundamentals of research
- ❖ To build knowledge on research design, application & data analysis
- ❖ To develop skills for synopsis/thesis development & academic writing

The workshop was conducted free of cost to the students. The workshop was organised using available resource persons and infrastructure in the University itself and incurred no expenses from the organisers or the University.

The programme was inaugurated by Dr P Sigamani, Associate Professor & Head, Department of Social Work and Dr E M Shankar Associate Professor & Head, Department of Life Sciences. Dr P Ravindran, Professor & Head, Department of Material Science gave a felicitation speech for the programme. The inaugural function was attended by Dr P Udhayakumar, Dr N Sivakami, Mr Chittaranjan Subudhi, Dr M Arivanandan and Dr Rajameenakshi who are Assistant Professors with Department of Social Work.

The workshop started with the session on 'Fundamentals of Research' by Dr P Ravindran, Professor & Head, Department of Material Science. The next session





**'Research Process' was handled by Dr Nilesh Kate, Associate Professor & Head Department of Marketing. The first session in the afternoon, 'Qualitative Methodology: Research Design, Sampling Design & Application' was taken by Dr N Sivakami, Assistant Professor Department of Marketing. This session was followed by 'Data Analysis & Presentation in Qualitative Research' handled by Mr Chittaranjan Subudhi, Assistant Professor Department of Marketing. The last session of the day was 'Essentials of Literature Review' which was taken by Dr E M Shankar, Associate Professor & Head, Department of Marketing**

**On the second day of the workshop, the first session 'Quantitative Methodology: Research Design, Sampling Design & Application' was taken by Dr Krishna Reddy Chittedi, Assistant Professor, Department of Economics. The following session, 'Data Analysis & Presentation in Quantitative Research' was handled by Mr Dr Gopinathan R, Assistant Professor, Department of Economics. A 'Handson training on Synopsis and Thesis' was given by Dr P Udhayakumar, Assistant Professor, Department of Marketing in the forenoon session.**

**The afternoon sessions included 'Essentials of Academic Writing' by Dr EM Shankar, Associate Professor & Head, Department of Life Sciences and 'Research Output, Outcome and Peer Review' by Dr Jayalakshmi Krishnan, Assistant Professor & Coordinator, Department of Epidemiology and Public Health.**







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A handwritten signature in blue ink is positioned above the printed name of the Director.

Director

Nav Sahyadri Education Society's  
Group of institutions  
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**Department of Computer Engineering**



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## **ACTIVITY REPORT**

- 1. Title of Activity:** Next-Gen Data Science: Utilizing AI and Python for Advanced Analysis
- 2. Date & venue:** 4 March 2024- 5 March 2024 NESGI Campus.
- 3. Number of Students Participated:** 65
- 4. Outcomes of activity:**

**Advanced Knowledge:** Students gained in-depth knowledge of how AI and Python can be utilized in datascience for advanced data analysis.

**Skill Development:** Participants developed practical skills in applying AI techniques using Python to solve complex data problems.

**Enhanced Understanding:** Attendees learned about the latest trends and technologies in data science and AI, including real-world applications and tools.

**Career Advancement:** The seminar equipped students with valuable skills and insights that enhance their career prospects in data science and AI fields.

- 5. Description of activity:**

The Computer Engineering Department of NAVSAHYADRI GROUP OF INSTITUTES, FACULTY OF ENGINEERING organized a Seminar titled "Next-Gen Data Science: Utilizing AI and Python for Advanced Analysis". This seminar was conducted by guest of honor Ms. Pooja Mehta and our respected Principal Dr.

M.V. Dalvi was present and actively participated in the activity to motivate students. The seminar was designed to provide participants with a comprehensive understanding of how artificial intelligence (AI) and Python can be leveraged for advanced data analysis.

The session began with an overview of the role of AI in modern data science, including key concepts and technologies such as machine learning and neural networks. Participants were introduced to

Python libraries essential for AI and data science, including Pandas, NumPy, Scikit-Learn, and TensorFlow.

**Key topics covered included:**

- **AI and Machine Learning Basics:** An introduction to AI concepts and machine learning algorithms, and how they apply to data analysis.

- **Data Preparation and Cleaning:** Techniques for preparing and cleaning data to ensure accuracy and reliability in analysis.
- **Advanced Analytics:** Implementing machine learning models and algorithms using Python to analyze complex datasets and derive actionable insights.
- **Real-World Applications:** Case studies and examples demonstrating how AI and Python are used in various industries to solve real-world problems.

The seminar featured hands-on exercises where students applied AI techniques using Python to real datasets. This practical approach helped participants gain experience in building and evaluating machine learning models and using AI tools for advanced data analysis.

## 6. Summary & conclusion

The seminar effectively met its objectives by equipping students with a deep understanding of how AI and Python can be utilized in data science. The combination of theoretical knowledge and practical exercises provided participants with valuable skills that can be applied to real-world data challenges. The seminar highlighted the transformative potential of AI in data science and prepared students for future roles in these rapidly evolving fields.

## 7. Feedback

Feedback from participants was overwhelmingly positive. Students appreciated the comprehensive coverage of advanced data science techniques and the practical application of AI with Python. The hands-on exercises and real-world examples were particularly well-received, providing valuable experience in implementing AI solutions. Many students expressed interest in further workshops on related topics and requested additional resources for deepening their understanding. The seminar was praised for its relevance to current industry trends and its effectiveness in advancing participants' data science skills.

## 8. Photos of activity.





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## ACTIVITY REPORT

1. **Title of Activity:** Data Visualization with Tableau, Creating Interactive Dashboards and Reports

2. **Date & venue:** 19 April 2024 NESGI Campus.

3. **Number of Students Participated:** 71

4. **Outcomes of activity:**

**Enhanced Skills:** Participants developed practical skills in using Tableau for creating interactive and visually appealing dashboards and reports.

**Improved Understanding:** Attendees gained a deeper understanding of data visualization principles and best practices.

**Hands-On Experience:** Students received hands-on training with Tableau, learning how to manipulate data, create visualizations, and build interactive dashboards.

**Real-World Applications:** The seminar highlighted real-world applications of data visualization in various industries, providing context for how these skills can be applied in professional settings.

5. **Description of activity:**

The Computer Engineering Department of NAVSAHYADRI GROUP OF INSTITUTES, FACULTY OF ENGINEERING organized a Seminar titled "Data Visualization with Tableau: Creating Interactive Dashboards and Reports". This seminar is conducted by guest of honor Mr. Vikram Singh and our respected Principal Dr.

M.V. Dalvi was present and actively participated in the activity to motivate students. The seminar aimed to equip participants with the skills needed to effectively use Tableau for data visualization.

The session included

**Introduction to Tableau:** Overview of Tableau's capabilities and its role in data visualization.

Participants were introduced to the Tableau interface and key features.

**Data Preparation:** Techniques for preparing and importing data into Tableau, including data cleaning and transformation.

**Creating Visualizations:** Hands-on exercises in creating various types of visualizations, such as bar charts, line graphs, scatter plots, and maps.



**Building Dashboards:** Training on how to combine multiple visualizations into interactive dashboards, including adding filters, parameters, and interactivity.

**Report Generation:** Methods for designing and generating reports that effectively communicate insights and support decision-making.

**Case Studies:** Real-world examples demonstrating how Tableau is used in different industries for data analysis and reporting.

Participants engaged in interactive sessions with practical exercises using Tableau, which allowed them to apply the concepts learned and create their own dashboards and reports.

## 6. Summary & conclusion

The seminar successfully provided participants with comprehensive training in Tableau for data visualization. By covering both theoretical concepts and practical applications, the session equipped students with the skills needed to create and manage interactive dashboards and reports. The hands-on approach ensured that attendees could directly apply what they learned to real-world scenarios, enhancing their ability to visualize and interpret data effectively.

## 7. Feedback

Feedback from participants was highly positive. Students appreciated the practical, hands-on approach to learning Tableau and found the exercises to be highly relevant and beneficial. The real-world case studies were particularly valued, as they provided practical context for the skills learned. Many participants expressed interest in further workshops on advanced Tableau features and other data visualization tools. Suggestions for improvement included providing more examples of complex dashboard scenarios and offering additional support for beginners.

## 8. Photos of activity.





GPS Map Camera

Pune, Maharashtra, India  
S. No. 69-71, Naigaon (Nrapur Tal. Bhor, Dist, Maharashtra 412213, India  
Lat 18.268211°  
Long 73.883943°



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Dr.M.V. Dalvi  
Principal



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### **Criterion 3 – Research, Innovations and Extension**

**3.2.2 Number of workshops/seminars/conferences including programs conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the last five years**



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## ACTIVITYREPORT

**1. Title of Activity:** ARMBased EmbeddedWeb Server

**2. Date&venue:**7thSeptember2022, Computer Center NESGI

**3. Outcomeofactivity:**

- The ARM-Based Embedded Web Server project aimed to develop and implement a web server onARM architecture,exploringitsapplicationsinthe Internetof Things(IoT) and embedded systems.
- The project focused on utilizing ARM microcontrollers to host a web server that could handle HTTP requests and responses efficiently.

**4. Descriptionof activity:**

- Inaugurationof function
- SpeechonARMBasedEmbeddedWebServer

**5. Objectives:**

**Understanding ARMArchitecture:**

OverviewofARMarchitectureanditssuitabilityforembeddedsystems.Explorationof ARM microcontrollers with a focus on web server capabilities.

**WebServer Development:**

SetupandconfigurationoftheARM-basedembeddedsystemforwebserverhosting. Development of basic web pages and dynamic content generation on the server.



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## **Integration with IoT Devices:**

Investigate and implement communication protocols for IoT devices to interact with the embedded web server. Explore the potential for remote monitoring and control using web-based interfaces.

## **Security Considerations:**

Implementation of basic security measures such as authentication and encryption.

Discussion on securing embedded web servers in IoT applications.

## **6. Activities:**

**1. ARM Architecture Workshop:** In-depth sessions on ARM architecture and its variations suitable for embedded applications. Hands-on exercises to familiarize participants with ARM microcontrollers.

### **2. Web Server Development:**

Participants configured ARM development environments and successfully set up web servers on ARM-based platforms. Coding sessions to create basic web pages, handle HTTP requests, and generate dynamic content.

### **3. IoT Integration:**

Implementation of communication protocols (e.g., MQTT, CoAP) for IoT device interaction. Participants explored real-world scenarios where an embedded web server could be utilized in IoT applications.

### **4. Security Implementation:**

Workshop sessions on securing the embedded web server, including authentication mechanisms. Discussions on potential vulnerabilities and best practices for securing IoT applications.



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## 7. Achievements:

### **SuccessfulWebServer Deployment:**

Participants achieved successful deployment of a functional web server on ARM architecture.

### **IoTIntegration Demonstrations:**

Demonstrations showcased successful integration of the embedded web server with IoT devices for remote monitoring and control.

### **SecurityImplementation:**

Basic security measures were implemented, highlighting the importance of securing embedded web servers in IoT applications.

### **KnowledgeTransfer:**

Participants gained a solid understanding of ARM architecture, web server development, and IoT integration.

### **Challenges:**

Limited resources on some ARM microcontrollers posed challenges in optimizing web server performance. Addressing security concerns and balancing them with resource constraints.

### **RecommendationsforFutureWork:**

Explore advanced security measures for embedded web servers. Investigate optimization techniques for resource-constrained ARM microcontrollers.



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**8. Conclusion:** The ARM-Based Embedded Web Server project provided participants with valuable insights into ARM architecture, web server development, and IoT integration. The successful deployment of a functional embedded web server demonstrates the potential applications of this technology in various industries. The project not only addressed technical challenges but also emphasized the importance of security considerations in IoT applications.

## 9. Photos of the workshop



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## ACTIVITYREPORT

**1. Title of Activity:** FlexibleBatteryTechnologies

**2. Date&venue:**7th September2022,ClassroomNo.11,ElectricalDepartment

**3. Outcomeofactivity:**

- Participants gained a comprehensive understanding of the principles, materials, and manufacturing processes involved in flexible battery technologies.
- Practical Skills Development:Participants acquired hands-on experience through workshops or practical sessions, including the assembly and testing of flexible battery prototypes.
- Awareness ofEmerging Trends:Attendees were updated on the latest advancements and emerging trends in the field of flexible battery technologies.
- Applications and Innovations Showcase:The workshop showcased various applications and innovative projects utilizing flexible batteries, providing participants with insights into the real-world impact of the technology.
- Expert Insights:Industry experts and thought leaders shared valuable insights, providing participants with a deeper understanding of the challenges, opportunities, and future directions in flexible battery technologies.

**4. Descriptionof activity:**

- Inaugurationof function
- SpeechonFlexibleBatteryTechnologies

**5. Hands-OnSessions:** Practicaldemonstrationsandexercisestoenhanceunderstanding.  
Opportunities for participants to work with flexible battery prototypes.



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**6. Expert Sessions:** Talks and presentations by industry experts on the latest developments. Q&A sessions for participants to engage with speakers.

**7. Networking Opportunities:** Structured networking sessions to foster collaboration and idea exchange. Building connections with professionals in the field.

## 8. Photos of the workshop



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Naigaon Pune-412213  
Department of Electrical Engineering  
Academic Year 2022-23(SEM-I)  
T.E ELECTRICAL

Roll.No	Name Of the student	QFM
1	ANSARI FARVEZ ALAM	
2	BANDAL RIYA RATNAKANT	
3	BHUJADE ANJALI BUDHAKARRAO	
4	BOBADE PUSHPAK SANJAYKUMAR	
5	BODARE BHARAT DASHRATH	
6	CHAUDHARY ABHAY SANJAY	
7	CHAVAN DHIRAJ JAYWANT	
8	DANGE RUTUJA LAXMAN	
9	EKSHINGE SHRADHA UTTRESHVAR	
10	GADAGE SOURABHA D	
11	GADE AVDHUT TUKARAM	
12	GITTE OMKAR VITTHAL	
13	JADHAV KOMAL DADABO	
14	JADHAV PRUTHIVIRAJ SATYAWAN	
15	JADHAV VAISHALI AUDUMBAR	
16	JAGTAP ABHIJIT VIJAY	
17	JAGTAP SAEE PRAMOD	
18	JAMBURE OMKAR AVINASH	
19	KALUKHE MRUNALI SAVATA	
20	KUMBHAR PALLAVI SUNIL	
21	LAGAD JYOTI RAJARAM	
22	MESHRAM MUKESH KALESH	
23	MESHRAM VAIBHAV GANESH	
24	MESTRY VAISHNAVI SANTOSH	
25	MODHAVE SHRIKANT KUNDLIK	
26	NAIK GIRISH	
27	PAITHANKAR LALIT DATTATRAY	
28	PARTHE SANKET SANTOSH	
29	PATEL RAHAT TAKIE	
30	PATIL HARSHAD SUNIL	
31	PATIL PADMAJA BALBHIM	
32	SABALE BUDDHABHUSHAN RAMESH	
33	SHARMA VIKASH	
34	SHIVARKAR VIJAY GAMBHAJI	
35	SONTAKKE TUSHAR	
36	TAKAWALE SOURABHA	
37	UMBRATKAR SHEKHAR	
38	WASNIK NAYAN RAJU	

  
Principal  
Prof. S. V. Tayale

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# NAVSAHYADRIGROUPOFINSTITUTES FACULTY OF ENGINEERING

**Title of Activity** : A Report on, "3D Printing Workshop".

**Academic Year**: 2022-23

**Date & Venue**: 12-Sept-2022, Abdul Kalam Memorial Hall

**Activity** : 3D Printing Workshop

**Resource Person / Trainer**: Mr. Digvijay Pote & Ms. Pooja Patil  
**Coordinator**: Mechanical Engineering Department (Prof. J.P. Hugar) **Target audience**: TE & BE Students

**Total Number of Students Participated**: 116

**Duration of Course**: One Day

**Objectives**:


1. This course will demonstrate on the working of 3D printer,
2. 3D printing course will also explore the future of it and discussion how it will revolutionize the world.
3. Upon the completion of this course, students will have the solid understanding of 3D printing, its potential, and ability to print 3D designs.

**Outcome of Activity**:

At the conclusion of this course, students should be able to

1. Learn about the materials, designing of CAD models, working of a 3D Printer
2. Understand how to build and calibrate a 3D printer
3. Understand the basics of G-code generation
4. The participants will get 3D printed models that they design



  
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## ActivityDescription:

This training program organized for Third year & Final year Mechanical Engineering students. Training create lots of awareness among the students regarding 3D Printing and its applications. Students learnt about 3D printing programming & completed hands on training.



**Workshopon3DPrintingTechnology**

## Feedback:

- Allstudents arehappyabout thecoursecontentofthisactivity.Theyfeel motivated toward 3Dprintingcourse.Allobjectivesarefulfilled.



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FACULTY OF ENGINEERING, NAIGAON, PUNE  
DEPARTMENT OF MECHANICAL ENGINEERING  
A.V. 2022-23 TE

R.N.	Name of the Students	Signature
1	AKHILESH RAM	A. Ram
2	BADADHE ABHIJEET GULAB	Abhijeet
3	BHILARE VAIBHAV ANIL	Vaibhav
4	BHOSALE YASHPAL VISHWAS	Y.V.
5	CHAVAN SHUBHAM SHANKAR	Shubham
6	CHORGHADE NAVNATH DILIP	Navnath
7	DHUMAL ABHISHEK JITENDRA	Abhishek
8	DUDUSKAR AJAY NANDKUMAR	A.N. Duduskar
9	GANGAWANE KISHOR KALU	Kishor
10	GHADGE PRITAM RAMESH	P. Ghadge
11	JAGTAP SAURABH SADASHIV	S. Jagtap
12	KAMHLE KIRAN RAJENDRA	K. Kamhle
13	KAZI BADAL BADRUDDIN	B. B. KAZI
14	LAVHALE PRASHANT RAMESH	P. Lavhale
15	NAVEEN KULDEEP SINGH	N. Naveen
16	PALANDE SHRIKANT RAJESH	S. P. Palande
17	PAWAR SAURABH POPAT	S. Pawar
18	SHERE GAURANG SANJAY	S. Shere
19	SHINDE SAHIL SHEKHAR	S. S. Shinde
20	ANERAO DIPAK NALCHAND	A. Nerao
21	BADAK PRANAY TANAJI	P. Badak
22	BANDAL RAHUL UDDHAV	R. Bandal
23	BANSODE PRIYANKA MAHIPAL	P. Bansode
24	BHILARE PRASAD SUNIL	A. B.



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OF ENGINEERING**

25	BHILARE RANJIT ARUN	Bhilare
26	BOBADE MAHESH SANJAY	Mahabadi
27	CHARPE AMEYA JAGDISH	Charpe
28	CHATURKAR CHETAN NAMDEVRAO	C. C. Chaturkar
29	CHIRAME ANIKET SHANKAR	Chirame
30	DALVI SIDDHESH SURYAKANT	S. S. Dalvi
31	DEWADE ANIL GAUTAM	— AB —
32	DEWULKAR UMESH UTTAMRAO	Dewulkar
33	DHAKE KHEMCHAND KAMALAKAR	Dhake
34	DIGE ABHISHEK ADHIK	Dige
35	GADAGE RUTUJA RAMDAS	Gadage
36	GAIKWAD MUKUND MAHADEV	Gaikwad
37	GAIKWAD SACHIN NAMDEO	Gaikwad
38	GAJAKOSH SHUBHAM DATTATRAY	Gajakosh
39	GHOJARE GANESH DIHANANJAY	Ghojare
40	GOPALE ANIRUDDHA DATTATRAY	Gopale
41	JADHAV AAKASH SHASHIPAL	NT
42	JAMADAR AKASH BHOJAPPA	Jamadadar
43	KADAM AMIT MOHAN	Kadam
44	KADAM AMIT RAMDAS	Kadam
45	KADAM ROHIT MARUTI	Kadam
46	KADU MAYUR SHANKAR	Kadu
47	KHAN SHABHIR BALEKHA	Khan
48	KHOND DATTATRAY SUNIL	— KHND —
49	KHUMBHARKAR SUSHANT LAXMAN	Khumbharkar
50	KSHIRSAGAR VISHAL ASHOK	V. S. Kshirsagar
51	KUMBHAR OMKAR RAMESH	O. R. Kumbhar
52	KUMBHAR YOGITA RAJENDRA	Kumbhar
53	KURDULE SHUBHAM DADASO	— A —
54	LOKHANDE SUNIL SHANKAR	Lokhande



*(Signature)*

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55	MURME NARAYAN SURESH	<i>N.S. Murme</i>
56	NAVALE VINAYAK JALINDAR	<i>V. Navale</i>
57	NIKAM MANISH DADAJI	<i>M. Nikam</i>
58	PAWAR PRIYANKA SOMNATH	<i>P. Pawar</i>
59	PITEKAR AMOL MACHINDRA	<i>A. Pitekar</i>
60	POMAN AKASH SHIVAJI	<i>P. Poman</i>
61	RANE HRISHIKESH VIJAY	<i>V. Rane</i>
62	RAUT AVADHUT SOMNATH	<i>A. Raut</i>
63	RAWOOL TEJAS DNYANESHWAR	<i>T. Rawool</i>
64	SARAK RANJANA DHONDIRAM	<i>R. Sarak</i>
65	SARWADE VAIDHAY SAKHARAO	<i>V. Sarwade</i>
66	SHELAR LALIT SURESH	<i>L. Shelar</i>
67	SHINDE RUSHIKESH AUDUMBAR	<i>R. Shinde</i>
68	TAMBE SANKET SURESH	<i>S. Tambe</i>
69	TAMBOLI ALAM SHAKIL	<i>A. Tamboli</i>
70	THAKUR PRATHAM GOKULSINGH	<i>P. Thakur</i>
71	TILAKUR RUTIK RAMA	<i>R. Tilakur</i>
72	WAGHMARE AJAY SANJAY	<i>A. Waghmare</i>
73	WAGHMARE VIRAJ SHARAD	<i>V. Waghmare</i>
74	WAGHULE SHAILESH SURESH	<i>S. Waghule</i>
75	ZENDE ANIKET RAMDAS	<i>A. Zende</i>



*(Signature)*

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FACULTY OF ENGINEERING, NAIGAON, PUNE  
DEPARTMENT OF MECHANICAL ENGINEERING  
A.Y. 2022-23 BE

Roll.No.	Name of Student	Signature
1	Abhishek Babasaheb Jadhav	
2	Ajit Dilip Arjun	
3	Harwaker Abhijit Prakash	
4	CHAVAN SWAPNIL DAULAT	
5	Chorage Rupesh Deepak	
6	Danga Naeem Bashir	
7	GHODE DIPAK MARUTI	
8	Desai Shankar Santosh	
9	Gaikwad Akash Shankar	
10	Gaikwad Rutuja Vijay	
11	Gajanan Suryakant Phad	
12	Gogawale Hrishikesh Kaluram	
13	Inamdar Saurabh Pramod	
14	Jadhav Shivprasad Bapurao	
15	Jagtap Vaishnavi Uday	
16	JAMKHANDI AAZAM M.RAFIQUE	
17	Jaybhaye Amol Dinkar	
18	Katakar Avadhut Manohar	
19	GAWANDE KAUSTUBH DNYANESHWAR	
20	Konde Omkar DNYANESHWAR	
21	Koyade Pavan Vinhwambhar	
22	Mahadik Sagar Vilas	
23	Mahangade Abhishek Kashinath	
24	Mahees Nourshan Khan	
25	Maity Amit Kumar Narayan	
26	Malve Kajal Shankar	
27	JADHAV MANDAR BABAJI	
28	Mandavkar Avadhut Mahadev	
29	Mohite Suraj Chandrakant	
30	Mohite Swikar Sampat	
31	Nivalkar Bhavik Prakash	



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# **NAVSAHYADRI GROUP OF INSTITUTES, FACULTY OF ENGINEERING**

Sr.No.69,70,71,Naigaon(Nasarapur),Pune-SataraHighway,Pune-412213




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Sr. No 69, 70 & 71, Naigaon [Nasarapur], Bhor, Pune- 412213.  
BE GFM ROLL CALL LIST 2022-23

SR. NO.	NAME OF THE STUDENT	GFM
1	GANDAL VISHAL SHIVAJI	[Signature]
2	BHASKAR AKSHAY LAXMAN	[Signature]
3	BHASMIE TEJASWINI CHANDRAKANT	[Signature]
4	BHOMBE SAGAR SURJODEV	[Signature]
5	BICHKULE AKSHAY SANJAY	[Signature]
6	DESA KISHAN SUBHASH	[Signature]
7	DHENDE ROHIT KUMAR	[Signature]
8	DHARDE MAYURI MAHADEO	[Signature]
9	DUKAT ASMITA	[Signature]
10	GADDIME AKASH HARRAM	[Signature]
11	GAIKWAD YINOO SANJAY	[Signature]
12	GHADAGE ARTI YASHWANT	[Signature]
13	GORE DHANANJAY	[Signature]
14	HAJARI AAYE SHA MANSOOR	[Signature]
15	JADHAV MAYURI MAHESH	[Signature]
16	JADHAV PRAJUKTA ANANDA	[Signature]
17	JAGTAP SANJAY SAHEBRAO	[Signature]
18	KANDHARE JEEVAN MURUDHAR	[Signature]
19	KELE LAHU GOVINDRAO	[Signature]
20	KOLAP SOMNATH SATGONDA	[Signature]
21	KONDE ASHISH SUNIL	[Signature]
22	KORDE SAKSHI	[Signature]
23	PATHE ANKAY SANJAY	[Signature]
24	PAWAR PRANAV PRADEEP	[Signature]
25	BHAYAKAR PRADIP PANDIT	[Signature]
26	SALUNKE ROSHAN JAGDISH	[Signature]
27	SAWANT PRASHANT BALU	[Signature]
28	SAWANT SACHIN	[Signature]
29	SHANKH AAFIYA DELAWAR	[Signature]
30	SHEMBALE MAHESH LAXMAN	[Signature]
31	SHINDE RAHUL ANAND	[Signature]
32	SHINDE RAHUL VILAS	[Signature]
33	SHIRODKAR ASHWINI KANTA	[Signature]
34	SHIRSAT VIKRAM KAKASO	[Signature]
35	TAMBADE SANKET SHAM	[Signature]
36	THORAT ARATI NILESH	[Signature]
37	WARKHADE YASH DATTATRAY	[Signature]
38	WAWRE RAJRATNA BHMRAO	[Signature]
39	GHODAKE AMIT	[Signature]
40	KOPADE RUSHIKESH	[Signature]

  
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Cat No. 69, 70, 71, Naigaon, Tal. Bhor, Dist. Pune

Prof. S. V. Tondale



  
Principal  
NESGI, Faculty of Engineering  
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## ACTIVITYREPORT

**1. Title of Activity:** Electricity Theft Monitoring System

**2. Date & venue:** 21<sup>st</sup> October 2022, Seminar Hall, NESGI

**3. Outcome of activity:**

- The primary objective of the workshop was to create awareness about the prevalence of electricity theft, discuss the challenges associated with it, and introduce an effective monitoring system as a solution.
- The workshop aimed to foster collaboration among industry experts, government officials, and technology providers to enhance the understanding of electricity theft issues and promote the adoption of advanced monitoring systems.

**4. Description of activity:**

- Inauguration of function
- Speech on Electricity Theft Monitoring System

**5. Introduction to Electricity Theft:**

The workshop began with an overview of the extent of electricity theft globally, emphasizing its impact on the economy, power distribution systems, and the environment. Current Challenges in Electricity

Theft Monitoring: Participants engaged in discussions about the challenges faced by utilities in detecting and preventing electricity theft. Issues such as outdated monitoring systems, lack of real-time data, and difficulties in identifying illegal connections were addressed.



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## **Overview of Electricity Theft Monitoring System:**

A comprehensive presentation was made on the features and functionalities of the Electricity Theft Monitoring System. This included real-time data collection, analytics, and the integration of advanced technologies such as smart meters and artificial intelligence.

## **Technical Features and Capabilities:**

Detailed technical aspects of the monitoring system, including data encryption, remote monitoring capabilities, and scalability, were discussed. Participants gained insights into how the system could be customized to suit various utility infrastructures.

## **Case Studies and Success Stories:**

Real-world case studies and success stories of utilities that had successfully implemented the Electricity Theft Monitoring System were presented. These examples showcased the positive impact on reducing electricity theft and improving overall system efficiency.

## **Interactive Sessions and Panel Discussions:**

Participants actively engaged in interactive sessions and panel discussions, providing a platform for exchanging ideas, sharing experiences, and addressing specific challenges faced by different regions and utilities.

## **Q&A Session:**

A dedicated question and answer session allowed participants to seek clarification, share concerns, and gather more information about the implementation and operation of the Electricity Theft Monitoring System.

## **Networking and Collaboration Opportunities:**

The workshop provided ample opportunities for networking among participants, fostering collaborations between technology providers, utility companies, and government agencies to



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collectively combat electricity theft.

## 6. Conclusion:

The Electricity Theft Monitoring System workshop proved to be a valuable platform for knowledge exchange and collaboration within the energy sector. Participants gained a deeper understanding of the challenges associated with electricity theft and explored effective solutions through the implementation of advanced monitoring systems. The event concluded with a call to action for increased cooperation among stakeholders to address this critical issue and ensure a more sustainable and secure energy future.

## 7. Photos of the workshop:



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Navsahyadri Education Society's Group of Institutions  
Naigaon Pune-412213  
Department of Electrical Engineering  
Academic Year 2022-23(SEM-I)

Roll.No.	Name Of the student	GFM
1.	Kolap Sannath	Sannath
2.	Bhaskar Akshay	Akshay
3.	Rishikesh Akshay	Rishikesh
4.	Pratim Tejashwini	Pratim
5.	Desai Kishan	Kishan
6.	Rohit Dhanale	Dhanale
7.	Sagar Bimbe	Bimbe
8.	Anandhi Karan	Anandhi
9.	Riya Randal	Riya
10.	Vishal Bhandal	Vishal
11.	Rutuja Dunge	Rutuja
12.	Jadhav Kunal	Jadhav
13.	Lukat Arvita	Arvita
14.	Jagtap Saurabh	Saurabh
15.	Ganesh Dhananjay	Ganesh
16.	Bhambale Pooja	Pooja
17.	Pathe Arvind	Arvind
18.	Chaudhari Aditya	Aditya
19.	Shruti Anurag	Anurag
20.	Charan Dhruv	Dhruv
21.	Shirale Rahul	Rahul
22.	Geetika Aniket	Aniket
23.	Jadhav Pratik	Pratik
24.	Amkar Jambure	Jambure
25.	Jadhav Prathibha	Prathibha
26.	Harshat Anant	Anant
27.	Konde Satish	Satish
28.	Vishal Jadhav	Vishal
29.	Jagtap Abhijit	Abhijit
30.	Sawant Parthant	Parthant
31.	Sharma Vikash	Vikash
32.	Kumbhar Pallavi	Pallavi
33.	Sawant Sachin	Sachin
34.	Joshi Lalit	Lalit
35.	Naik Gaurav	Gaurav
36.	Shirsat Vikram	Vikram
37.	Jadhav Souparna	Souparna
38.	Santale Lohar	Lohar



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MPC, Navsahyadri Group of Institutions  
Naigaon, Pune-412213

*(Signature)*  
HOD  
Prof. S. V. Tarak



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1. **Title of Activity:** Research Paper Writing
2. **Date & Venue:** 9<sup>th</sup> Jan 2023, Abdul Kalam Seminar Hall.
3. **Outcomes of Activity:** students got following concepts

How to write Research Paper

Perform literature survey in respected area

#### 4. **Description of Activity:**

A session was held on 9 January 2023 from 10:00 a.m. to 1.00 pm at NESGI, Mechanical Engineering Department. The Program started as the guest arrived at 09:30 am. Prof. S. V. Tawade, HoD Mechanical Engineering, Prof S. A. Dahake, program coordinators, welcomed the guest Mr. J. S. Mane, and Dr. R. J. Patil Principal of NESGI, FOE, Pune, graced the occasion with his valuable words. Total numbers of participants were 75.

#### 5. **Activity Experience:**

All the students really appreciated the contents discussed in session. Like how to evaluate problem statements and analyze data using technologies, find out Problem Statement & Algorithm, Performance study & Conclusion.

Students realized that this interaction can help them to improve their Research Paper Writing Skills.

#### 6. **Assessment of activity outcomes:**

After the completion of session, feedback was taken from the students.



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## 7. Photos:



## 8. Feedback:

All the students really appreciated the contents that were delivered; they realized that interactions like these can help them improve their Paper Writing Skill.



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FACULTY OF ENGINEERING, NAIGAON, PUNE  
DEPARTMENT OF MECHANICAL ENGINEERING  
A.Y. 2022-23 BE

Roll.No.	Name of Student	Signature
1	Abhishek Babasaheb Jadhav	
2	Ajit Dilip Arjun	
3	Barwakar Abhijit Prakash	
4	CHAVAN SWAPNIL DAULAT	
5	Chorage Rupesh Deepak	
6	Dange Naeem Hashir	
7	GHODE DIPAK MARUTI	
8	Desai Shankar Santosh	
9	Gaikwad Akash Shankar	
10	Gaikwad Rutuja Vijay	
11	Gajanan Suryakant Phad	
12	Gogawale Hrishikesh Kaluram	
13	Inamdar Saurabh Pramod	
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16	JAMKHANDI AAZAM M.RAFIQUE	
17	Jaybhaye Amol Dinkar	
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20	Konde Omkar DNYANESHWAR	
21	Koyade Pavan Vishwambhar	
22	Mahadik Sagar Vilas	
23	Mahangade Abhishek Kashinath	
24	Maheen Noorshan Khan	
25	Maity Amit Kumar Narayan	
26	Malve Kajal Shankar	
27	JADHAV MANDAR BABAJI	
28	Mandavkar Avadhut Mahadev	
29	Mohite Suraj Chandrakant	
30	Mohite Swikar Sampat	
31	Nivalkar Bhavik Prakash	



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Gat No.89,70,71,Naigaon, Tal. Bhor, Dist. Pune

32	Pandit Omkar Ramesh	<del>Valkar</del>
33	Pavun Sunil Late	<del>V. Late</del>
34	PAWAR VIVEK SANJAY	<del>Sanjay Pawar</del>
35	Pradeep Gulabrao Andhale	<del>Pradeep Andhale</del>
36	Prajwal Praknsh Kale	<del>Praknsh Kale</del>
37	Pratik Dnyaneshwar Khaldie	<del>Pratik Khaldie</del>
38	Rahul Nage Shekhnath	<del>Rahul Nage</del>
39	Rokhani Javat Nasir	<del>Nasir Javat</del>
40	AUTADE RUTURAJ SURYAKANT	<del>Ruturaj Autade</del>
41	Sabale Rohit Vilas	<del>Rohit Sabale</del>
42	KATHIMANI SAIPRASAD RAJKUMAR	<del>Saiprasad Kathimani</del>
43	Salekar Vaibhav Dattatray	<del>Vaibhav Salekar</del>
44	Sonket Deahmukh Balakrishna	<del>Deahmukh Sonket</del>
45	Sawant Diksha Dinesh	<del>Diksha Sawant</del>
46	Sawant Sahadev Subhash	<del>Sahadev Sawant</del>
47	SHETYY AKSHAYA KESHAV	<del>Akshaya Shetty</del>
48	Shingare Omkar Vishnu	<del>Omkar Shingare</del>
49	Soman Prasanna Anand	<del>Prasanna Soman</del>
50	NIMBALKAR SUDHIR DAGADU	<del>Sudhir Nimbalkar</del>
51	Tople Roshari Himmatrao	<del>Roshari Tople</del>
52	Gole Ganesh Bharat	<del>Ganesh Gole</del>
53	Sarule Rushikesh Ramesh	<del>Rushikesh Sarule</del>
54	BHOSALE AKSHAY SHANTARAM	<del>Akshay Bhosale</del>



*[Handwritten signature]*

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 Gat No.69,70,71,Naigaon, Tal. Bhor, Dist. Pune

**Title of Activity: Intellectual Property Rights**

**No. of participant staffs: 43**

**Event Co-Ordinator: Prof. J. P. Hugar**

**Date&venue:13/03/2023,SeminarHall**

**Outcomes of activity:**

Intellectual Property (IP) is the fuel that powers the engine of prosperity, nurturing invention and innovation. The delegates were very enthusiastic to know about the IPR and also had given their best for the success of the program. Now participants feel that they are ready to file patent of innovations and inventions.

**Description of activity:**


The training of the above mentioned subject was given to the faculty by inviting the senior expert Prof. (Dr.) B.K. Sarkar Member of IETE, ISTE, SMU, IIHT, Global R/D, and GEH. One day training period was divided into two sessions each of about two hours. Following points were discussed in this workshop

1. Patent Procedure, Time Line and Cost of Patent Filing in India Short Introduction.
2. How to File a Standard Patent - The Application Process in Australia.
3. Patent Law in India, Patent Filing in India, Patent Registration in India, Indian Patent Law
4. How to Draft a Provisional Patent Application
5. Patent Application Filing Process
6. What is a Patent and How to Apply for a Patent?
7. Sales Techniques - How to Sell Ideas to Big Companies - Ask Evan

**Activity Experience:**

This event made the staff aware of growing need for promotion and protection of the intellectual assets, in the form of Patents. Staff appreciated the contents discussed in session.



  
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**Assessment of activity Outcomes:**

The main objective of the training program is to increase IP filing of states. Staff benefited by this workshop and they started thinking in that direction.



**Intellectual Property Rights workshop Photo**

**Feedback:**

Staff really appreciated the contents that were delivered in this session. From the feedback of the audience, session on IPR & Patents is suggested to be pursued again.



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NAVSAHYADRIGROUPOFINSTITUTES FACULTY OF ENGINEERING

DepartmentofMechanicalEngineering

**NAVSAHYADRI GROUP OF INSTITUTES  
FACULTY OF ENGINEERING, NAIGAON, PUNE  
DEPARTMENT OF MECHANICAL ENGINEERING**

Roll.No.	Name of Participants	Signature
1	S. A. Dalake	[Signature]
2	M. D. Bhende	[Signature]
3	S. A. Chaudhari	[Signature]
4	S. B. Tadkar	[Signature]
5	V. B. Jadhav	[Signature]
6	A. R. Kalyane	[Signature]
7	M. J. Aadi	[Signature]
8	S. D. Deshpande	[Signature]
9	Dr. C. K. Sane	[Signature]
10	S. V. Patil	[Signature]
11	S. R. Chaudhari	[Signature]
12	N. K. Anik	[Signature]
13	G. S. Kale	[Signature]
14	T. K. Sheth	[Signature]
15	K. T. Shinde	[Signature]
16	S. D. Bhat	[Signature]
17	J. P. Hagar	[Signature]
18	S. V. Kulkarni	[Signature]
19	L. M. Patil	[Signature]
20	P. P. Bhavani	[Signature]
21	S. S. Singh	[Signature]
22	T. B. Gurav	[Signature]
23	G. M. Rukare	[Signature]
24	M. M. Dumble	[Signature]
25	M. D. Patil	[Signature]
26	S. S. Shinde	[Signature]
27	S. D. Patil	[Signature]
28	S. V. Patil	[Signature]
29	S. D. Wadgaonkar	[Signature]
30	A. B. Lakhare	[Signature]
31	S. B. Gawande	[Signature]
32	P. R. Kshirsagar	[Signature]
33	G. V. Chaturvedi	[Signature]



*[Handwritten Signature]*

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Sr. No. 69,70,71, Naigaon (Nasarapur), Pune-Satara Highway, Pune-412213

Department of Computer Engineering



## ACTIVITY REPORT

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- Title of Activity:** Java and Artificial Intelligence: Integrating AI into Java Applications for Smarter Solutions
- Date & venue:** 12 November 2024 NESGI Campus.
- Number of Students Participated:** 65
- Outcomes of activity:**
  - Enhanced Knowledge:** Participants gained a comprehensive understanding of how AI can be integrated into Java applications.
  - Practical Skills:** Students learned how to use Java libraries and frameworks to implement AI and machine learning features.
  - Real-World Application:** Attendees were able to explore practical use cases of AI in Java applications, from building recommendation systems to implementing natural language processing.
  - Career Development:** The seminar provided valuable insights and skills that are applicable to careers in both AI and software development.

### 5. Description of activity:

The Computer Engineering Department of NAVSAHYADRI GROUP OF INSTITUTES, FACULTY OF ENGINEERING organized a Seminar titled "Java and Artificial Intelligence: Integrating AI into Java Applications for Smarter Solutions". This seminar was conducted by guest of honor Mr. Karan Verma and our respected Principal Dr. M.V. Dalvi was present and actively participated in the activity to motivate students. The seminar was designed to provide participants with knowledge and practical skills on how to enhance Java applications using artificial intelligence.

### The session covered:

**Introduction to AI in Java:** Overview of artificial intelligence concepts and how Java can be utilized to implement AI features.



**AI Libraries and Frameworks:** Detailed exploration of popular Java libraries and frameworks for AI, such as Deeplearning4j, Weka, and Apache Mahout.

**Building AI Models:** Hands-on experience in creating, training, and evaluating machine learning models using Java. Participants worked with real-world datasets to apply AI techniques.

**Integration Techniques:** Methods for integrating AI models into Java applications, including practical examples of implementing recommendation systems, predictive analytics, and natural language processing.

**Case Studies:** Examination of successful AI-powered Java applications across various industries, illustrating practical implementations and benefits.

Participants engaged in interactive sessions and practical exercises, which included coding examples and demonstrations of how to integrate AI functionalities into Java applications. This hands-on approach provided students with direct experience in applying AI techniques using Java.

## 6. Summary & conclusion

The seminar effectively achieved its goals by equipping students with a robust understanding of integrating AI into Java applications. The combination of theoretical knowledge and practical exercises allowed participants to gain valuable skills and insights into enhancing applications with AI. The hands-on experience with AI libraries and frameworks was particularly beneficial, offering real-world relevance to the concepts discussed.

## 7. Feedback

Feedback from participants was overwhelmingly positive. Students appreciated the in-depth coverage of AI concepts and the practical application of these concepts using Java. The hands-on exercises and real-world case studies were highlighted as particularly valuable, providing practical experience in integrating AI features. Many students expressed interest in further workshops on related topics and requested additional resources for continued learning. The seminar was praised for its relevance to current industry trends and its effectiveness in enhancing participants' skills in AI and Java development.

## 8. Photos of activity.



*M.V. Dalvi*  
Dr.M.V. Dalvi  
Principal

Roll No.	Name of Students	Signature
1	AMATE ADITYA PRASHANT	<u>Amate</u>
2	AMBLE ARTI MININATH	
3	ANJALI SANTOSH KOLHE	<u>Anjali</u>
4	AVINASH SHRIMANT VHANMANE	<u>Avinash</u>
5	BADADHE RAJGAURI SUNIL	<u>Badadhe</u>
6	BHELARE NUTAN SANTOSH	<u>Nutan</u>
7	CHANDANE RAJ TANAJI	<u>Raj</u>
8	CHAVAN DIGVIJAY SATISH	<u>C.D.S.</u>
9	DARULU VINAY KUMAR	
10	DESHMUKH SAUGANDH CHARUDATTA	<u>Deshmukh</u>
11	DHANAWADE ABHAY RAJENDRA	<u>Abhay</u>
12	DHAYGUDE RUTUJA DHONDIBA	<u>D. Rutuja</u>
13	DHUMAL PRATIK SHIVAJI	<u>Pratik</u>
14	DONODE PRACHI GAJANAN	<u>P. Donode</u>
15	GAIKWAD KAJAL RAMDAS	
16	GAIKWAD SHRADDHA SURESH	<u>Shraddha</u>
17	GANESH BHARAT VHANMANE	<u>Vhanmane</u>
18	GAVHANE SHUBHAM RAJENDRA	<u>Shubham</u>
19	GHADAGE AMIT DATTATRAY	<u>Amit</u>
20	GUND SANJOG SHIVAJI	<u>Sanjog</u>
21	GURAV DIVYA SATISH	<u>Gurav</u>
22	HIRE VINAY ASHOK	<u>Hire V.A.</u>
23	INGLE VISHAL NAVANATH	<u>Vishal</u>
24	JAGTAP JANHAVI KRISHNARAO	<u>Jagtap</u>
25	JAMDARE SHRUTIKA CHANDRAKANT	<u>SJK</u>
26	JHODGE SAHIL RAHUL	<u>Sahil R.</u>
27	KHARIWALE SANIKA SURYAKANT	
28	KULKARNI ROHIT VASANT	<u>Rohit Kulkarni</u>
29	MENDHE UTKARSH GANESH	<u>Utkarsh</u>
30	MISALE SANJANA JAGDISH	<u>Misale</u>

31	MUNDANKAR SHRUTI RAJESH	M Shrivati
32	NANGARE HARSHAD DATTATRAYA	
33	NAYAN DILIP BUDGUDE	Nayan B. B.
34	PAMANE SHWETA DEVIDAS	Shweta P.
35	PARIHAR SHLOK MANOJSINGH	Shlok
36	PAWAR ADITYA DHANANJAY	Aditya
37	PAWAR AMAR BHAI	P. Amar
38	PAWAR KARTIK SHINAJI	Kartik P. Pawar
39	PAWAR SANKET SANTOSH	Sanket
40	PISAL AKSHAY SANJAY	Akshay
41	PISAL SHREYAS VIJAY	Shreyas
42	PIL TANMAY SURYAKANT	Tanmay
43	PRATIK SUNIL SHELKE	P. S. Shelke
44	REDDY LAKHAN NARAYAN	Lakhan
45	SADAFALE KUSHAL JAYANT	Kushal S.
46	SAKSHI PANDURANG BURLE	Sakshi
47	SAKSHI SUNIL KADAM	
48	SALUNKHE AAKANKSHA AVINASH	Aakanksha
49	SALUNKHE ANISHA SANJAY	Anisha S.
50	SANIKA MEGHRAJ ERANDE	SS
51	SANIKA SANJAY MANDHARE	SSM
52	SAURAV RANJEET KUMAR	Saurav
53	SAWANT AKASH ANANDARAO	Akash
54	SAYLI VITTAL VACHAKAL	Sayali
55	SHINDE PRATHAMESH VYANKAT	Shinde
56	SHINDE PRATHMESH SHIVAJI	Shinde
57	SHINDE ROMAN PRATAP	R.P.
58	SHIVAM ANAND GAIKWAD	Anand S.
59	SHRIHARI VIJAY GAIKWAD	Vijay
60	SINGH ANKIT RAJESH	Ankit
61	SURWASE VAIBHAV DATTATRAY	Vaibhav
62	TAWARE KETAN RAVINDRA	
63	VAISHNAVI RAMCHANDRA KAMBLE	V. Kamble

64	WADKAR ROSHAN SHIVAJI	<i>Udesh</i>
65	WADKAR VAISHNAVI BAJRANG	<i>W. Vaishnavi</i>
66	WAGHMODE PRASANNA DADA	<i>Prasanna</i>
67	WAGHMODE SAMARTH DADA	<i>Samarth</i>
68	WANJALE AARTI NANDKUMAR	<i>Aarti Wanjale</i>
69	WANKHEDE SANKET RAJENDRA	
70	YADAV AADITI RAJARAM	<i>Aaditi</i>
71	YADAV YOGITA ANANT	<i>Yogita</i>
72	YEDAVE VALLABH SANJAY	<i>Vallabh</i>
73	YEMUL SAIKRISHNA SHRIKANT	<i>Saikhana</i>



*M. V. Dalvi*  
Dr. M. V. Dalvi  
Principal



# NAVSAHYADRI GROUP OF INSTITUTES, FACULTY OF ENGINEERING

Sr. No. 69,70,71, Naigaon (Nasarapur), Pune-Satara Highway, Pune-412213

Department of Computer Engineering



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## ACTIVITY REPORT

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1. **Title of Activity:** Seminar on Beyond the Basics: Expert Data Analysis with Excel and Power BI

2. **Date & venue:** 4 December 2022 NESGI Campus.

3. **Number of Students Participated:** 61

4. **Outcomes of activity:**

**Advanced Skill Development:** Students acquired advanced skills in data analysis and visualization using Excel and Power BI.

**Enhanced Proficiency:** Participants gained proficiency in creating complex data models, dashboards, and reports.

**Practical Knowledge:** Attendees learned how to apply advanced techniques to real-world data analysis scenarios.

**Career Preparation:** The seminar provided insights and skills that can enhance career opportunities in data analysis and business intelligence.

5. **Description of activity:**

- The Computer Engineering Department of NAVSAHYADRI GROUP OF INSTITUTES, FACULTY OF ENGINEERING organized a Seminar titled "Beyond the Basics: Expert Data Analysis with Excel and Power BI". This seminar was conducted by guest of honor Mr. Sanjay Reddy and our respected Principal Dr. R.J. Patil was present and actively participated in the activity to motivate students. The seminar was organized to provide participants with advanced knowledge and skills in using Excel and Power BI for data analysis and visualization.
- The session began with a review of foundational concepts in Excel and Power BI, setting the stage for more advanced topics. The seminar then covered several key areas:
- **Advanced Excel Techniques:** Participants explored advanced Excel features such as complex formulas, pivot tables, and data validation. Techniques for automating tasks with macros and VBA (Visual Basic for Applications) were also demonstrated.
- **Power BI Features:** The seminar delved into advanced Power BI functionalities, including data modeling, DAX (Data Analysis Expressions) formulas, and creating interactive dashboards.
- **Integration and Visualization:** Participants learned how to integrate data from various sources, create

sophisticated visualizations, and design interactive reports that provide actionable insights.



- Hands-on exercises allowed students to apply these techniques to practical examples, building dashboards and reports that could be used in real-world scenarios. The seminar also included discussions on best practices for data analysis and visualization to ensure the accuracy and effectiveness of the outputs.

## 6. Summary & conclusion

The seminar successfully met its goals by equipping students with advanced data analysis skills using Excel and Power BI. The comprehensive coverage of advanced techniques and hands-on exercises provided participants with practical experience and a deeper understanding of data analysis tools. The seminar emphasized the importance of advanced data skills in making informed business decisions and preparing students for roles in data analysis and business intelligence. Overall, the seminar was a valuable learning experience, enhancing participants' proficiency in Excel and Power BI and preparing them for more complex data analysis tasks.

## 7. Feedback

Feedback from participants was highly positive. Students appreciated the depth of the content and the practical application of advanced techniques in Excel and Power BI. The interactive sessions and hands-on exercises were particularly well-received, allowing participants to gain practical experience. Many students expressed interest in further workshops on related topics and requested additional resources for continued learning. The seminar was praised for its relevance to current industry practices and its effectiveness in advancing participants' data analysis skills.

## 8. Photos of activity.





A handwritten signature in black ink, appearing to read "K. Patil", written over a diagonal line.

**Principal**  
NESGI, Faculty of Engineering  
Gat No. 69, 70, 71, Naigaon, Tal. Bhor, Dist. Pune

## Attendance

Roll No.	Name of Students	Signature
1	AMATE ADITYA PRASHANT	
2	AMBLE ARTI MININATH	<u>Arti A</u>
3	ANJALI SANTOSH KOLHE	<u>Akolhe</u>
4	AVINASH SHRIMANT VHANMANE	<u>Avinash</u>
5	BADADHE RAJGAURI SUNIL	<u>Rajgauri</u>
6	BHILARE NUTAN SANTOSH	<u>Nutan</u>
7	CHANDANE RAJ TANAJI	<u>Raj</u>
8	CHAVAN DIGVIJAY SATISH	<u>C.D.S.</u>
9	DARULU VINAY KUMAR	
10	DESHMUKH SAJGANDHI CHARUDATTA	<u>D. Deshmukh</u>
11	DHANAWADE ABHAY RAJENDRA	<u>Abhay</u>
12	DHAYGUDE RUTUJA DHONDIBA	<u>D. Rutuja</u>
13	DHUMAL PRATIK SHIVAJI	<u>Pratik</u>
14	DNODE PRACHI GAJANAN	<u>P. D. Node</u>
15	GAIKWAD KAJAL RAMDAS	
16	GAIKWAD SHRADDHA SURESH	<u>Shraddha</u>
17	GANESH BHARAT VHANMANE	<u>Ganesh</u>
18	GAVHANE SHUBHAM RAJENDRA	<u>Shubham</u>
19	GHADAGE AMIT DATTATRAY	<u>Amit</u>
20	GLIND SANJOG SHIVAJI	<u>Sanjog</u>
21	GURAV DIVYA SATISH	<u>Divya</u>
22	HIRE VINAY ASHOK	<u>Hire V.A.</u>
23	INGLE VISHAL NAVANATH	<u>Vishal</u>
24	JAGTAP JANHAVI KRISHNARAO	<u>Janhavi</u>
25	JAMDARE SHRUTIKA CHANDRAKANT	
26	JHODGE SAHIL RAHUL	<u>Sahil J.R.</u>
27	KHARIMALE SANIKA SURYAKANT	
28	KULKARNI ROHIT VASANT	<u>Rohit Kulkarni</u>
29	MENDHE UTKARSH GANESH	<u>Utkarsh</u>
30	MISALE SANJANA JAGDISH	

31	MUNDANKAR SHRUTI RAJESH	M. Shruti
32	NANGARE HARSHAD DATTATRAYA	N. Harshada
33	NAYAN DILIP BUDGUDE	Nayan Dilip
34	PAMANE SHWETA DEVIDAS	
35	PARIHAR SHLOK MANOJSINGH	Shlok
36	PAWAR ADITYA DHANANJAY	Aditya
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42	POL TANMAY SURYAKANT	Tanmay
43	PRATIK SUNIL SHELKE	
44	REDDY LAKHAN NARAYAN	Lakhan
45	SADAFALE KUSHAL JAYANT	Kushal S.
46	SAKSHI PANDURANG BURLE	Sakshi
47	SAKSHI SUNIL KADAM	Sunil
48	SALUNKHE AAKANKSHA AVINASH	Aakanksha
49	SALUNKHE ANISHA SANJAY	Anisha. S.
50	SANIKA MEGHRAJ ERANDE	SS
51	SANIKA SANJAY MANDHARE	Sanika
52	SAURAV RANJEET KUMAR	Saurav
53	SAWANT AKASH ANANDPRAO	Akash
54	SAYLI VITTAL VACHAKAL	Sayali
55	SHINDE PRATHAMESH VYANKAT	Shinde
56	SHINDE PRATHAMESH SHIVAJI	Shinde
57	SHINDE ROHAN PRATAP	Rohan
58	SHIVAM ANAND GAIKWAD	Anand G.
59	SHRIHARI VIJAY GAIKWAD	Vijay
60	SINGH ANKIT RAJESH	Ankit
61	SURWASE VAIBHAV DATTATRAY	Vaibhav
62	TAWARE KETAN RAVINDRA	
63	VAISHNAVI RAMCHANDRA KAMBLE	V. Kamble.

64	WADKAR ROSHAN SHIVAJI	<i>Wadkar</i>
65	WADKAR VAISHNAVI BAJRANG	<i>W. Vaishnavi</i>
66	WAGHMODE PRASANNA DADA	<i>Prasanna</i>
67	WAGHMODE SAMARTH DADA	<i>Samarth</i>
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71	YADAV YOGITA ANANT	<i>Yogita</i>
72	YEDAVE VALLABH SANJAY	
73	YEMUL SAIKRISHNA SHRIKANT	<i>Saibhag</i>



*Yatu*

**Principal**  
 NESGI, Faculty of Engineering  
 Gat No. 69, 70, 71, Naigaon, Tal. Bhor, Dist. Pune





Navsahyadri Education Society's Group of Institutes

## **FACULTY OF ENGINEERING**

Pune-Satara Road, Naigaon, Pune-412213

### **Electrical Engineering Department**

22/09/2021

## **ACTIVITY REPORT**

### **IOT – INTERNET OF THINGS**

**Date** : 22 September 2021

**Venue** : Electrical Engineering Department, Navsahyadri Group of Institutions

**Attendee** 24

#### **Details :**

On 22 September 2021 the Electrical Engineering Department of Navsahyadri Group of Institutions organized a Workshop on IOT – Internet of Things. The workshop commenced at 01:00 PM in the Class Room No. 311 of Electrical department.

Guest of today's program was Miss. Bhakti Raut, working as trainer in Cognizant Pvt. Ltd.

In this workshop following points are discussed.

### **1. Introduction**

Overview of IoT:

Brief explanation of IoT and its relevance. Objective: Describe the purpose of implementing IoT solutions in the college.

### **2. Project Highlights Smart Campus Initiatives:**

- Smart Classrooms: Integration of IoT devices for interactive learning experiences (e.g., smart boards, automated lighting and climate control).
- Campus Security: Implementation of IoT-based surveillance systems, smart locks, and access control.
- Energy Management: Use of IoT sensors for monitoring and optimizing energy consumption in campus buildings.
- Student Projects and Research: IoT-based
- Environmental Monitoring: Projects focused on using IoT sensors to monitor air quality, temperature, and humidity.

- Wearable Health Devices: Research on wearable IoT devices for health monitoring and student well-being. Administrative and Facilities Management:
- Smart Parking Solutions: IoT-enabled parking management systems to track parking space availability.
- Maintenance Automation: Use of IoT sensors for predictive maintenance of infrastructure and facilities.

### **3. Achievements and Impact Improved Efficiency:**

- Description of how IoT solutions have streamlined administrative processes and reduced operational costs.
- Enhanced Learning Experience: How IoT technologies have contributed to a more interactive and engaging learning environment.
- Increased Safety and Security: Overview of the enhancements in campus security and emergency response.

### **4. Challenges and Solutions Technical Challenges: I**

- Issues encountered with IoT device integration, network connectivity, or data management.
- Solutions Implemented: Strategies and solutions adopted to overcome these challenges.

### **5. Collaboration and Partnerships Industry Partnerships:**

- Collaboration with technology companies, startups, or other institutions to support IoT initiatives.
- Student Involvement: Engagement of students in IoT projects, internships, or research activities.

### **6. Future Plans Upcoming Projects:**

- Overview of planned IoT projects and initiatives.
- Technological Upgrades: Plans for integrating advanced IoT technologies or expanding current implementations.
- Long-term Goals: Vision for the future use of IoT in enhancing the campus experience and academic environment.

### **7. Conclusion Summary:**

- Recap of key points discussed in the report.



## 8. Photograph of the Event :



Prof. Akshay S. Kale  
Workshop Coordinator  
Electrical Engg. Dept.


Prof. S. V. Tayade  
HOD, Electrical Engg. Dept.

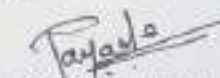
Dr. R. J. Patil  
Principal, NGFOE, Pune

NAVSARVADRI EDUCATION SOCIETY'S GROUP OF INSTITUTIONS  
 Sr. No. 69, 70, 71, Nalgam, Tal -Bhor, Dist-Pune 412213.  
 DEPARTMENT OF ELECTRICAL ENGINEERING  
 Academic Year : 2022-23

BE Roll Call List

Roll No.	Name of Student	Sign
1	ANIKET SANJAY PATHE	Aniket
2	ASMITA SUDHAKAR FUKAT	Fukat
3	BHASKAR AKSHAY LAXMAN	Bhaskar
4	BHASME TEJASWINI CHANDRAKANT	Tejaswini
5	BICHKULE AKSHAY SANJAY	Bichkule
6	DESAI KISHAN SUBHASH	Desai
7	DHURDE MAYURI MAHADEO	Dhurde
8	GADDIME AKASH HARIRAM	Gaddime
9	GAIKWAD VINOD SANJAY	Gaikwad
10	GHADAGE ARTI YASHWANT	Ghadage
11	GHODAKE AMIT BANDU	Ghodake
12	HAJARI AAYESHA MANSCOR	Hajari
13	JADHAV PRAKTA ANANDA	Jadhav
14	JAGTAP SANJAY SAHEBRAO	Jagtap
15	KANDHARE JEEVAN MURLIDHAR	Kandhare
17	KHOPADE RUSHIKESH RAMESH	Khopade
18	KOLAP SOMNATH SATGONDA	Kolap
19	KONDE ASHISH SUNIL	Konde
20	MAYURI MAHESH JADHAV	Mayuri
21	MORE RAHUL PRAKASH	More
22	PAWAR PRANAV PRADEEP	Pawar
23	ROHIT KUMAR DHENDE	Rohit
24	ROSHAN JAGDISH SALUNKE	Roshan
25	SAGAR SUKHDEV BHOMBE	Sagar
26	SAKSHI VIJAY KORDE	Sakshi
27	SALUNKHE OMKAR ARUN	Salunkhe
28	SAWANT SACHIN RAGHUNATH	Sawant
29	SHAIKH AAFIYA DILAWAR	Shaikh
30	SHEMBALE MAHESH LAXMAN	Shembale
32	SHINDE RAHUL VILAS	Shinde
33	SHIRODKAR ASHWINI KANTA	Shirodkar
34	SHIRSAT VIKRAM KAKASO	Shirsat
35	TAMBADE SANKET SHAM	Tambade
36	THORAT ARATI NILESH	Thorat
37	VAIBHAV ANIL NANGUDE	Vaibhav
38	VISHAL SHIVAJI BANDAL	Vishal
39	WALHEKAR RUSHIKESH DATTATRAY	Walhekar
40	WARKHADE YASH DATTATRAY	Warkhade
41	WAWRE RAJRATNA BHIMRAO	Wawre

  
 Prof. S. D. Babar  
 B.E Class Teacher

  
 Prof. S. V. Tayade  
 Head of Department



# NAVSAHYADRI GROUP OF INSTITUTES, FACULTY OF ENGINEERING

Sr. No. 69,70,71, Naigaon (Nasarapur), Pune-Satara Highway, Pune-412213

Department of Computer Engineering



## ACTIVITY REPORT

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1. **Title of Activity:** AWS-Powered DevOps: Building and Managing Scalable Applications
2. **Date & venue:** 19 January 2022 NESGI Campus.
3. **Number of Students Participated:** 50
4. **Outcomes of activity:**
  - **Comprehensive Understanding:** Students gained a deep understanding of DevOps principles and how AWS supports these practices in building scalable applications.
  - **Hands-On Experience:** Participants were exposed to practical AWS tools and services like AWS CodePipeline, AWS CodeDeploy, and AWS CloudFormation.
  - **Industry Readiness:** The session equipped students with the knowledge and skills needed to apply DevOps practices in real-world scenarios, particularly in cloud environments.
  - **Enhanced Career Prospects:** Students were informed about the growing demand for DevOps professionals with AWS expertise, encouraging them to pursue relevant certifications and training.
5. **Description of activity:**
  - The Computer Engineering Department of NAVSAHYADRI GROUP OF INSTITUTES, FACULTY OF ENGINEERING organized a Seminar titled "AWS-Powered DevOps: Building and Managing Scalable Applications". This seminar is conducted by guest of honor Mr. Rohit Jain. and our respected Principal Dr. R. J. Patil was present and actively participated in the activity to motivate students. The seminar was organized to provide students with an in-depth look at how DevOps practices can be implemented using AWS services to create scalable and efficient applications. The session began with an overview of the core principles of DevOps, including continuous integration, continuous delivery, and infrastructure as code.
  - Industry experts, including AWS-certified professionals, were invited to speak about the importance of DevOps in modern software development. They demonstrated how AWS services like CodePipeline and CodeDeploy streamline the development and deployment process, allowing teams to deliver high-quality software more quickly and reliably.
  - The seminar included a hands-on workshop where students could interact with AWS services directly. They were guided through setting up a continuous delivery pipeline, automating infrastructure management with AWS CloudFormation, and deploying applications in a scalable environment. This practical session allowed students to experience the power and flexibility of AWS in managing DevOps workflows.

## 6. Summary & conclusion

The seminar was highly successful in achieving its objectives of educating students about the integration of DevOps practices with AWS services. Participants left with a clear understanding of how AWS can be leveraged to build and manage scalable applications efficiently. The session highlighted the growing importance of cloud-based DevOps in the industry and provided students with the skills and knowledge to pursue further learning and career opportunities in this field. Overall, the event was well-received, with students expressing a strong interest in continuing their exploration of AWS-powered DevOps.

## 7. Feedback

Feedback from participants was overwhelmingly positive. Students appreciated the combination of theoretical knowledge and practical application, which made the concepts easier to grasp and more relevant to real-world scenarios. Many students expressed enthusiasm for further workshops and seminars on related topics, particularly those involving hands-on AWS experience. The seminar was praised for its relevance to current industry trends and its ability to provide valuable skills for future career development.

## 8. Photos of activity.





A handwritten signature in blue ink, appearing to read "V. Patil".

**Principal**  
NESGI, Faculty of Engineering  
Gat No.69,70,71,Naigaon, Tal. Bhor, Dist. Pune

Roll No.	Name of Students	Signature
1	ADAM NIRAJ VIJAY	Niraj V
2	AWACHAR SHREYASH SUNIL	Shreyash
3	BAMBOLE ANIRUDDHA RADHESHYAM	Aniruddha
4	BARKADE ASMITA YUVRAJ	Asmita
5	BHISE RAJNANDINI RAVINDRA	
6	BHOITE NAMRATA SUNIL	Namrata
7	BHOSALE ASHWINI RAMCHANDRA	Ashwini
8	BIRAJDAR ABHISHEK SATISH	
9	BODAKE VIRAJ ANIL	Viraj
10	CHALEKAR TEJAS RAJENDRA	Tejas
11	CHAVAN AVINASH BHASKAR	Avinash
12	CHITAL VINAYAK VENKATESH	Chital
13	DAMODAR AJINKYA MAHENDRA	Ajinkya
14	DATIR ANIKET PANDURANG	Aniket
15	DHAS VIRAJ AMOL	
16	DHUMAL SAKSHI RAJENDRA	Sakshi
17	DOKE KIRAN SAWATA	Kiran
18	DOKE VISHAL DATTATRAY	
19	GAMBHIRE PATIL PRATIK VIJAYKUMAR	Pratik G
20	GANGURDE DIKSHITA RAJENDRA	Di-Diksha
21	GHORPADE ASMITA MAHESH	
22	GOLE YASH SUDHAKAR	Yash
23	HAKE PRATIK SANJAY	H. Pratik
24	HEDE AKASH RAJU	
25	HOLKAR KARTIKESH SUNIL	Kartikesh
26	INGALE PIYALI HEMANT	Piyali I.
27	JADHAV ANUSHKA MOHAN	
28	JADHAV RITESH RAHUL	Ritesh
29	JAGTAP ABHIJIT GANESH	Abhijit
30	KADAM AADITI AJAY	AADITI.

31	KADAM MAHISAGAR GANPATI	
32	KAJAL KUMARI	
33	KAMBLE ATHARV BALU	<u>Kambale</u>
34	KARE PRAJAKTA KUNDLIK	
35	KHAWALE PRASAD DILIP	
36	KONDE SAHIL SHARAD	
37	KONDHALKAR TANAYA DATTATRAY	
38	KSHIRSAGAR LALITA DATTATRAY	<u>KLD</u>
39	LAHANE ARPITA ANGAD	<u>Vishwary</u>
40	MADGUDE VISHWARAJ VILAS	
41	MAGAR ABHIJEET SANTOSH	<u>S.M</u>
42	MAHIMA BHARATI	<u>MB</u>
43	MALI SIDDHESH SATISH	<u>M.Siddhesh</u>
44	MANE PRAMOD ULHAS	<u>Mane P</u>
45	MUSKAN KUMARI	
46	NAIK OMKAR SUMAN	<u>N.Omkar</u>
47	NANGARE SAKSHI SUNIL	
48	NIKAM RUCHIKA VIJAY	<u>N.RV</u>
49	NIMBALKAR SURAJ SAMBHAJI	<u>N.S.S</u>
50	PALKHE AKSHATA SUNIL	<u>Palthe Ash</u>
51	PARJANE PRATIK PARMESHWAR	<u>PPD</u>
52	PARTHE SURAJ SANTOSH	<u>PSS</u>
53	PASALKAR OM NAVNATH	<u>Om</u>
54	PATIL SAYALI BABURAO	<u>Patil</u>
55	PAWAR ADITYA GANGADHAR	
56	PAWAR PRAJWAL ASHOK	<u>P.Pawar</u>
57	PHADATARE ANKITA ANIL	<u>AmP</u>
58	RASAL SAKSHI SHRIKANT	<u>R.S.S</u>
59	RASKAR SHRUTI MAHENDRA	<u>R.S.M</u>
60	SAGVEKAR ANKITA ANANT	<u>Sagvekar</u>
61	SAKAT PRIYA MANIK	<u>Sankat P.</u>
62	SALUNKE CHAITANYA DATTATRAY	
63	SHAIKH SAHIL HUSEN	

64	SHEVALE AMAR NAVNATH	<i>Amar</i>
65	SHINDE AVINASH ASHOK	<i>Avinash</i>
66	SHIRSALE MITESH BHASKAR	
67	SUBHEDAR LIYAKAT SALAUDDIN	<i>Subhedar</i>
68	TARADE SHRADHA SANTOSH	
69	TARATE PRASHANT BAPU	
70	TARATE RUTUJA RAJENDRA	<i>Rutuja</i>
71	VISHWANATHULAWAR ADITHYA	
72	WADAKR TUKARAM BABAN	<i>W. Tukaram</i>
73	ZAGADE TANUJA SANJAY	<i>Tanuja</i>
74	SHEWALE ADITYA MAHINDRA	



*K. P. J.*

**Principal**  
 NESGI, Faculty of Engineering  
 Gal No.69,70,71, Nagpur, Tal. Bhor, Dist. Pune





# NAVSAHYADRI GROUP OF INSTITUTES, FACULTY OF ENGINEERING

Sr. No. 69,70,71, Naigaon (Nasarapur), Pune-Satara Highway, Pune-412213

Department of Computer Engineering



## ACTIVITY REPORT

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1. **Title of Activity:** Mastering Python from Frontend to Backend

2. **Date & venue:** 16 February 2022 NESGI Campus.

3. **Number of Students Participated:** 67

4. **Outcomes of activity:**

- **Comprehensive Understanding:** Students gained a thorough understanding of full-stack web development using Python, from frontend to backend.
- **Practical Skills:** Participants developed practical skills in using Python frameworks and libraries for both frontend and backend development.
- **Enhanced Proficiency:** Attendees became proficient in building complete web applications with Python, integrating frontend technologies with backend services.
- **Career Preparation:** The seminar provided insights and skills relevant to careers in web development, equipping students for roles in full-stack development.

5. **Description of activity:**

The Computer Engineering Department of NAVSAHYADRI GROUP OF INSTITUTES, FACULTY OF ENGINEERING organized a Seminar titled "Mastering Python from Frontend to Backend". This seminar was conducted by guest of honor Ms. Priya Nair and our respected Principal Dr. R. J. Patil was present and actively participated in the activity to motivate students. The seminar was aimed to provide a holistic view of full-stack web development using Python.

The session began with an overview of the full-stack development process, highlighting the importance of both frontend and backend components in creating robust web applications.

**Key topics covered included:**

**Frontend Development:** Introduction to frontend technologies, including HTML, CSS, and JavaScript. The seminar explored how to use frameworks like Flask or Django to integrate Python with frontend code and build interactive user interfaces.

**Backend Development:** Deep dive into backend development with Python, including using Flask or Django for building server-side logic, managing databases, and handling user authentication and authorization.

**Integration Techniques:** Methods for connecting frontend and backend components, including RESTful APIs and AJAX.

**Deployment and Testing:** Best practices for deploying web applications and testing both frontend and backend components to ensure reliability and performance.

Participants engaged in hands-on exercises to build a complete web application, applying the concepts and tools discussed. The practical approach allowed students to experience the full development lifecycle, from designing user interfaces to deploying the final application.

## 6. Summary & conclusion

The seminar successfully achieved its objectives by providing students with a comprehensive understanding of full-stack web development using Python. The combination of theoretical knowledge and hands-on exercises offered participants valuable experience in building and deploying web applications. The seminar emphasized the importance of integrating frontend and backend technologies and provided practical skills applicable to real-world development projects.

## 7. Feedback

Students appreciated the detailed coverage of both frontend and backend development aspects and the practical exercises that reinforced their learning. Many students found the hands-on approach particularly beneficial, as it provided real-world experience in building complete web applications. Requests for further workshops on advanced topics and additional resources for continued learning were common. The seminar was praised for its relevance to industry practices and its effectiveness in preparing students for careers in full-stack web development.

8. Photos of activity.



**Principal**  
NESGI, Faculty of Engineering  
Gat No.69,70,71,Naigaon, Tal. Bhor, Dist. Pune

Roll No.	Name of Students	Signature
1	ADAM NIRAJ VIJAY	Niraj V A.S.S.
2	AWACHAR SHREYASH SUNIL	
3	BAMBOLE ANIRUDDHA RADHESHYAM	
4	BARKADE ASMITA YUVRAJ	Asmita V
5	BHISE RAJNANDINI RAVINDRA	Rajni B
6	BHOITE NAMRATA SUNIL	Namrata B
7	BHOSALE ASHWINI RAMCHANDRA	Ashwini B
8	BIRAJDAR ABHISHEK SATISH	AB
9	BODAKE VIRAJ ANIL	
10	CHALEKAR TEJAS RAJENDRA	Tejas
11	CHAVAN AVINASH BHASKAR	Chavan A
12	CHITAL VINAYAK VENKATESH	Chital V
13	DAMODAR AJINKYA MAHENDRA	
14	DATIR ANIKET PANDURANG	Aniket
15	DHAS VIRAJ AMOL	D.V.M.
16	DHUMAL SAKSHI RAJENDRA	Sakshi D
17	DOKE KIRAN SAWATA	D.Kiran
18	DOKE VISHAL DATTATRAY	D.V.P.
19	GAMBHIRE PATIL PRATIK VIJAYKUMAR	Pratik G
20	GANGURDE DIKSHITA RAJENDRA	Di Diksha
21	GHORPADE ASMITA MAHESH	Asmita
22	GOLE YASH SUDHAKAR	Yash
23	HAKH PRATIK SANJAY	H Pratik
24	HEDE AKASH RAJU	
25	HOLKAR KARTIKESH SUNIL	
26	INGALE PIYALI HEMANT	Piyali I
27	JADHAV ANUSHKA MOHAN	Anushka
28	JADHAV RITESH RAHUL	Ritesh J
29	JAGTAP ABHIJIT GANESH	Abhi J
30	KADAM AADITI AJAY	AADITI

31	KADAM MAHESGAR GANPATI	<u>Adhigat</u> (K.K)
32	KAJAL KUMARI	<u>Kambha</u>
33	KAMBLE ATHARV BALU	<u>K. Bapla</u>
34	KARE PRAJAKTA KUNDLIK	<u>K.P/D</u>
35	KHAWALE PRASAD DILIP	<u>K.P</u>
36	KONDE SAHIL SHARAD	<u>Kondhalkar</u>
37	KONDHALKAR TANAYA DATTATRAY	<u>K.D</u>
38	KSHIRSAGAR LALITA DATTATRAY	<u>Vishwajy</u>
39	LAHANE ARPITA ANGAD	<u>(M.V)</u>
40	MADGUDE VISHWARAJ VILAS	<u>(S.M)</u>
41	MAGAR ABHIJEET SANTOSH	
42	MAHIMA BHARATI	<u>M. Siddhesh</u>
43	MALI SIDDHESH SATISH	<u>Mane P</u>
44	MANE PRAMOD ULHAS	<u>Mane P</u>
45	MUSKAN KUMARI	<u>N. Omkar</u>
46	NAIK OMKAR SUMAN	<u>(N.S)</u>
47	NANGARE SAKSHI SUNIL	<u>(N.A)</u>
48	NIKAM RUCHIKA VIJAY	<u>(N.SS)</u>
49	NIMBALKAR SURAJ SAMBHAJI	<u>Palthe Ash</u>
50	PALKHE AKSHATA SUNIL	<u>(P.P)</u>
51	PARJANE PRATIK PARMESHWAR	<u>(P.SS)</u>
52	PARTHE SURAJ SANTOSH	<u>Om</u>
53	PASALKAR OM NAVNATH	
54	PATIL SAYALI BABURAO	
55	PAWAR ADITYA GANGADHAR	<u>P. Aditya</u>
56	PAWAR PRAJWAL ASHOK	<u>P. Pawar</u>
57	PHADATARE ANKITA ANIL	<u>Am P.</u>
58	RASAL SAKSHI SHRIKANT	<u>(R.SS)</u>
59	RASKAR SHRUTI MAHENDRA	<u>(R.SM)</u>
60	SAGVEKAR ANKITA ANANT	<u>Sagvekar</u>
61	SAKAT PRIYA MANIK	<u>Sankat P.</u>
62	SALUNKE CHAITANYA DATTATRAY	<u>(S.M)</u>
63	SHAIKH SAHIL HUSEN	<u>S.M</u>

64	SHEVALE AMAR NAVNATH	Aringkar
65	SHINDE AVINASH ASHOK	Shirsaale
66	SHIRSALE MITESH BHASKAR	Dr. Liyakat.
67	SUBHEDAR LIYAKAT SALAUDDIN	TARADESS
68	TARADE SHRADHA SANTOSH	Tarade
69	TARATE PRASHANT BAPU	
70	TARATE RUTUJA RAJENDRA	Vishwanathkar
71	VISHWANATHULAWAR ADITHYA	W. Tukaram
72	WADAKR TUKARAM BABAN	Tangshi
73	ZAGADE TANUJA SANJAY	Shewale
74	SHEWALE ADITYA MAHINDRA	



*Shewale*

**Principal**  
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Navsahyadri Education Society's Group of Institutes

## **FACULTY OF ENGINEERING**

Pune-Satara Road, Naigaon, Pune-412213

### **Electrical Engineering Department**

20/08/2020

## **ACTIVITY REPORT**

### **RECENT TRENDS ELECTRICAL HYBRID VEHICLE**

**Date** : 20<sup>th</sup> August 2020

**Venue** : Electrical Engineering Department, Navsahyadri Group of Institutions

**Attendee** : 37

#### **Details :**

On 20<sup>th</sup> August 2020, the Electrical Engineering Department of Navsahyadri Group of Institutions organized a Workshop on, Recent Trends in Electrical Hybrid vehicle. The workshop commenced at 11:00 AM in the Class Room No. 307 of Electrical department.

Guest of today's program was Mr. R. J. Bhattacharya, working as Senior Engineer in ELESOA HEV.

In this workshop following points are discussed.

## **1 Introduction**

### **1.1 Overview**

Electrical Hybrid Vehicles combine traditional internal combustion engines (ICE) with electric propulsion systems. This integration aims to enhance fuel efficiency, reduce emissions, and improve overall vehicle performance.

### **1.2 Objectives**

To study the design and operation of hybrid powertrains. To evaluate performance metrics, including fuel efficiency and emissions. To assess the impact of hybrid technology on vehicle dynamics and user experience.



## **2. Components of EHV**

### **2.1 Powertrain Internal Combustion Engine (ICE):**

Provides power and generates electricity. Electric Motor(s): Provides additional power and facilitates regenerative braking. Battery Pack: Stores electrical energy for propulsion and auxiliary systems. Power Electronics: Manages energy flow between the ICE, electric motor, and battery.

### **2.2 Control Systems Hybrid Control Unit:**

Optimizes power distribution between ICE and electric motor. Battery Management System (BMS): Monitors battery health and state of charge. Energy Management System: Manages energy sources to maximize efficiency.

## **3. Activities Conducted**

### **3.1 Research and Development Literature Review:**

Investigated current hybrid technologies and market trends. Technology Assessment: Evaluated various hybrid configurations (e.g., series, parallel, series-parallel).

### **3.2 Design and Prototyping Powertrain Design:**

Developed design specifications for integrating ICE with electric motors. Battery Integration: Designed battery management strategies and cooling solutions. Control Algorithms: Created algorithms for efficient power distribution and energy management.

### **3.3 Testing and Validation Performance Testing:**

Conducted tests to measure fuel efficiency, electric range, and overall performance. Emissions Testing: Assessed emissions levels to ensure compliance with regulatory standards. Durability Testing: Evaluated the longevity and reliability of hybrid components under various conditions.

### **3.4 Data Analysis Efficiency Metrics:**

Analyzed fuel consumption, electric range, and energy efficiency. User Experience: Collected feedback on vehicle handling, comfort, and driving dynamics.

## **4. Results**

### **4.1 Performance Metrics Fuel Efficiency:**

Achieved a 30% improvement in fuel efficiency compared to conventional vehicles. Electric Range: Demonstrated an electric-only range of 50 miles under optimal conditions. Emissions Reduction: Reduced CO2 emissions by 40% compared to traditional ICE vehicles.

### **4.2 Issues Encountered Battery Degradation:**

Addressed issues related to battery performance and lifespan. Integration Challenges: Overcame difficulties in integrating powertrain components seamlessly.

### **4.3 Lessons Learned**

Importance of optimizing energy management for balancing performance and efficiency. Need for ongoing research into advanced battery technologies and materials.

## **5. Future Work**

### **5.1 Improvements Advanced Battery Technologies:**

Explore next-generation batteries with higher energy densities. Enhanced Control Systems: Develop more sophisticated algorithms for better power management.

### **5.2 Research Directions Autonomous Driving Integration:**

Investigate the integration of hybrid technology with autonomous driving systems. Renewable Energy Synergies: Explore potential for integrating renewable energy sources into hybrid systems.

## **6. Conclusion**

The EHV project has highlighted the potential of hybrid technology to improve fuel efficiency and reduce emissions. Continued advancements in powertrain design, battery technology, and control systems will drive future developments in the field.



Prof. S. P. Kuchekar  
Workshop Coordinator  
Electrical Engg. Dept.



Prof. S. V. Tayade  
HOD, Electrical Engg. Dept.



Dr. Manojkumar Dalvi  
Principal, NGIFOE, Pune

## 7. Photograph of the Event :



Handwritten signature of Prof. S. P. Kuchekar in blue ink.

Prof. S. P. Kuchekar  
Workshop Coordinator  
Electrical Engg. Dept.

Handwritten signature of Prof. S. V. Tayade in blue ink.

Prof. S. V. Tayade  
HOD, Electrical Engg. Dept.

Handwritten signature of Dr. Manojkumar Dalvi in blue ink.

Dr. Manojkumar Dalvi  
Principal, NGFOE, Pune

**DEPARTMENT OF ELECTRICAL ENGINEERING**  
**B.E ELECTRICAL ROLL CALL LIST (2021-22)**

Roll No.	Name of The Student	Signature
1	AFER GAURAV RAMKRUSHNA	Afer
2	AKASH BHAI SO KHADE	Akash
3	AKSHAY VISHNU MANE	Akshay
4	ANPAT NICHOL NARSING	Anpat
5	BANDAL JEET SHIVAJI	Jeet
6	BANIKAR SAURABH PRASHANT	Banikar
7	BHANDGE UTTEKARSH VIVEK	Uttekarsh
8	BHOITE SURAJ VIVEK	Bhoite
9	DARAVE AISHWARYA SANJAY	Darave
10	DEEPAK KUMAR SHARMA	Deepak
11	DHAMALE NILISH DNYANESHWAR	Dhamale
12	DHAS SURAJ NEDHESHWAR	Dhas
13	DHUMAL RUTUJA MOHAN	Dhumal
14	GANWAD RENUKA MURLIDHAR	Renuka
15	GOLE VAIBHAV BALIRAM	Gole
16	KADAV SUREKANT TANAJI	Kadav
17	KHARAT PRITEJ ANANDRAV	Khatar
18	KRANTI ARUN UBALE	Kranti
19	KULKARNI LAXMIKANT DHANANJAY	Kulkarni
20	KURANE SHAHANAJ BAKAS	Kurane
21	LAMBUD VISHAL BABASAHEB	Lambud
22	LOHRYA RUCHIKA SATISH	Lohrya
23	MAGAR SUNIL SHANKAR	Magar
24	MALI ONKAR ANKUSH	Mali
25	MANDAVKAR ROSHAN RAJARAM	Mandavkar
26	MANGESH MARUTI SHINDE	Mangesh
27	MISAL PRATIKSHA SHARAD	Misal
28	NANAWARE SURAJ MOHAN	Nanaware
29	NILESH SOPAN ZAMBARE	Nilesh
30	PANAGARE ROHIT DATTATRAY	Panagare
31	PANGARE ABHINAV RAJARAM	Pangare
32	PARBAL SAURAV DATTATRAY	Parbal
33	PATEL HRUTEK SAROJBHAI	Patel
34	PISAL SUHIT SATESH	Pisal
35	PISAL VIRAJ VISHWAS	Pisal
36	RANADE SHRIDHAR SUDHIR	Ranade
37	RAUT AISHWARYA SAMPAT	Raut
38	SALUNKHE ONKAR ARUN	Salunkhe
39	SAMADHAN VILAS PATOLE	Samadhan
40	SANKET JAGDISH SHINDE	Sanket
41	SARATE VAISHNAVI SADASHIV	Sarate
42	SASTE SUNIL SURESH	Saste
43	SAWANT AKASH JAYWANT	Sawant
44	SHAUNAK MANGU NAREKAR	Shaunak
45	SHEJGE ONKAR SANTOSHI	Shejge
46	SHILIMKAR BHUNGAN SATISH	Shilimkar
47	SHILIMKAR GANESH DASHARATH	Shilimkar
48	SHINDE RAGINI VISHNU	Shinde
49	SHINDE SACHIN TANAJI	Shinde
50	SHINGADE GAYATRI LAXMAN	Shingade
51	SHWETA DATTATRAY MULE	Shweta
52	SURVASE SHIVAJI MAHADEV	Survase
53	SWASHI FARVATI DAYANAND	Swashi
54	TAMBANKAR ABHINAV SUNIL	Tambankar
55	TEJAS VILAS MURSADE	Tejas

*S. P. Bhande*  
 A. N. Bhande  
 B.E. Class Teacher

*V. P. Torade*  
 V. P. Torade  
 Head of Department



Navsahyadri Education Society's Group of Institutes

## FACULTY OF ENGINEERING

Pune-Satara Road, Naigaon, Pune-412213

### Electrical Engineering Department

08/11/2019

## ACTIVITY REPORT

### RENEWABLE ENERGY TECHNOLOGIES

**Date** : 8<sup>th</sup> November 2019

**Venue** : Electrical Engineering Department, Navsahyadri Group of Institutions

**Attendee** : 36

#### **Details :**

On 8<sup>th</sup> November 2019 the Electrical Engineering Department of Navsahyadri Group of Institutions organized a Workshop on Enewable Energy Technology. The workshop commenced at 10:00 AM in the Class Room No. 309 of Electrical department.

Guest of today's program was Mr. Ajinkya Patil, working as Junior Engineer.

In this workshop following points are discussed.

### **1. Introduction**

Overview of Renewable Energy: Briefly explain renewable energy and its importance. Objective: Outline the goals for integrating renewable energy technologies in the college.

### **2. Project Highlights**

- Solar Energy Initiatives: Solar Panels: Installation and performance of solar panels on campus buildings.
- Educational Programs: Workshops and courses on solar energy technologies.

#### **Wind Energy Projects:**

- **Wind Turbines:** Setup and output of small-scale wind turbines. Research and Development: Student and faculty research on wind energy efficiency.

- **Energy Efficiency and Storage:**Battery Storage Systems: Integration of battery storage for energy management.
- **Energy Conservation Measures:**Implementation of energy-saving practices and technologies.

### **3. Achievements and Impact Sustainability Goals:**

- How the projects contribute to the college's sustainability targets.
- Cost Savings: Reduction in energy costs and overall financial impact. Educational Value: Enhancement of academic programs and student involvement.

### **4. Challenges and Solutions Technical Issues:**

- Challenges with technology installation, maintenance, or performance.
- Solutions: Approaches taken to resolve these issues and improve system effectiveness.

### **5. Collaboration and Partnerships Industry Partnerships:**

- Collaborations with renewable energy companies or research institutions.
- Student Engagement: Opportunities for students to participate in projects or internships.

### **6. Future Plans Upcoming Projects:**

- Planned installations or research in renewable energy technologies.
- Technological Advancements: Exploration of new technologies and upgrades to existing systems. Long-term Vision: Goals for expanding renewable energy use on campus.

### **7. Conclusion Summary:**

- Recap of key achievements and impact of renewable energy projects.
- Acknowledgements: Recognition of contributors and supporters.
- Contact Information: Details for further inquiries or follow-up.



Prof. Akshay S. Kale  
Workshop Coordinator  
Electrical Engg. Dept.



Prof. S. V. Tayade  
HOD, Electrical Engg. Dept.



Dr. R. J. Patil  
Principal, NGIFOE, Pune

## 8. Photograph of the Event:



Prof. Akshay S. Kale  
Workshop Coordinator  
Electrical Engg. Dept.

Prof. S. V. Tayade  
HOD, Electrical Engg. Dept.

Dr. R. J. Patil  
Principal, NGIFOE, Pune

**DEPARTMENT OF ELECTRICAL ENGINEERING**  
**B.E ELECTRICAL ROLL CALL LIST (2021-22)**

Roll No.	Name of The Student	Signature
1	AFER GAURAV RAMKRUSHNA	Afer
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*S. P. Bhande*  
 A. N. Bhande  
 B.E. Class Teacher

*Tejasa*  
 Tejasa  
 Head of Department





Navsahyadri Education Society's Group of Institutes

## **FACULTY OF ENGINEERING**

Pune-Satara Road, Naigaon, Pune-412213

### **Electrical Engineering Department**

11/12/2019

## **ACTIVITY REPORT**

### **EMERGING TRENDS IN ELECTRICAL SOLAR SYSTEM**

**Date** : 11<sup>th</sup> December 2019

**Venue** : Electrical Engineering Department, Navsahyadri Group of Institutions

**Attendee** : 33

#### **Details**

On 11<sup>th</sup> December 2019, the Electrical Engineering Department of Navsahyadri Group of Institutions organized a Workshop on Emerging Trends in Electrical Solar System. The workshop commenced at 10:00 AM in the Class Room No. 309 of Electrical department.

Guest of today's program was Mr. Yogesh Patil, working as Testing Engineer at Atos Pvt. Ltd. In this workshop following points are discussed.

### **1. Introduction**

1.1 Overview An Electrical Solar System converts sunlight into electrical energy using photovoltaic (PV) panels. This renewable energy system aims to provide sustainable power, reduce utility costs, and decrease carbon footprints.

1.2 Objectives To design and install a solar power system. To evaluate system performance and efficiency. To assess the economic and environmental benefits of solar energy.

### **2. Components of Solar System**

#### **2.1 Photovoltaic Panels Solar Cells:**

Convert sunlight into direct current (DC) electricity. Modules: Arrays of cells connected to increase power output.

## **2.2 Inverter DC to AC Conversion:**

Converts DC electricity from the panels to alternating current (AC) for use in the electrical grid or home.

## **2.3 Battery Storage (Optional) Energy Storage:**

Stores excess energy for use when sunlight is not available.

## **2.4 Charge Controller Regulation:**

Manages the charging of batteries (if used) and protects against overcharging.

## **2.5 Mounting System Installation Framework:**

Secures panels to roofs or ground mounts.

# **3. Activities Conducted**

## **3.1 Design and Planning Site Assessment:**

Evaluated the location for optimal solar exposure and system feasibility. System Design: Designed the layout of PV panels, inverter, and storage components. Permit Acquisition: Secured necessary permits and approvals for installation.

## **3.2 Installation Panel Mounting:**

Installed PV panels on designated mounts. Electrical Wiring: Connected panels to the inverter and the building's electrical system. System Integration: Installed and tested the inverter and charge controller.

## **3.3 Testing and Commissioning Performance Testing:**

Verified the system's efficiency and power output. System Calibration: Adjusted settings on the inverter and charge controller for optimal performance. Safety Checks: Ensured all electrical connections and components met safety standards.

## **3.4 Data Monitoring Energy Production Tracking:**

Monitored the amount of electricity generated and consumed. System Maintenance: Conducted routine inspections and maintenance to ensure continued performance.

## **4. Results**

### **4.1 Performance Metrics Energy Output:**

Achieved an average output of 5 kWh per day. Efficiency: The system conversion efficiency was measured at 18%. Cost Savings: Reduced electricity bills by 40% annually.

### **4.2 Issues Encountered Installation Challenges:**

Faced issues with panel alignment and wiring complications. Maintenance Needs: Identified the need for periodic cleaning and inspection of panels.

### **4.3 Lessons Learned**

Importance of accurate site assessment for optimal panel placement. Regular maintenance is crucial for maintaining system efficiency.

## **5. Future Work**

### **5.1 System Upgrades Advanced Panels:**

Explore higher efficiency PV panels for increased output. Smart Inverters: Investigate smart inverters with enhanced monitoring and control features.

### **5.2 Research Directions Energy Storage Solutions:**

Research advanced battery technologies for better storage capacity. Integration with Smart Grids: Study the potential for integrating solar systems with smart grid technologies.

## **6. Conclusion**

The installation and operation of the electrical solar system have demonstrated significant benefits in energy savings and environmental impact reduction. Future enhancements and ongoing research will further improve system efficiency and integration capabilities.



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Workshop Coordinator  
Electrical Engg. Dept.



Prof. S. V. Tayade  
HOD, Electrical Engg. Dept.



Dr. R. J. Patil  
Principal, NGIFOE, Pune

## 7. Photograph of the Event:



A handwritten signature in blue ink, appearing to read "Akshay S. Kale".

Prof. Akshay S. Kale  
Workshop Coordinator  
Electrical Engg. Dept.

A handwritten signature in blue ink, appearing to read "S. V. Tayade".

Prof. S. V. Tayade  
HOD, Electrical Engg. Dept.


A handwritten signature in blue ink, appearing to read "R. J. Patil".

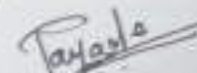
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NAVSAHYADRI EDUCATION SOCIETY'S GROUP OF INSTITUTIONS  
 Sr. No. 69, 70, 71, Naigaon, Tal -Bhor, Dist-Pune 412213.  
 DEPARTMENT OF ELECTRICAL ENGINEERING  
 Academic Year : 2022-23

BE Roll Call List

Roll No.	Name of Student	Sign
1	ANIKET SANJAY PATHE	Aniket
2	ASMITA SUDHAKAR FLKAT	Fikat
3	BHASKAR AKSHAY LAXMAN	Bhaskar
4	BHASME TEJASWINI CHANDRAKANT	Tejaswini
5	BICHKULE AKSHAY SANJAY	Akshay
6	DESAI KISHAN SUBHASH	Kishan
7	DHURDE MAYURI MAHADEO	Mayuri
8	GADDIME AKASH HARIRAM	Akash
9	GAIKWAD VINOD SANJAY	Vinod
10	GHADAGE ARTI YASHWANT	Arti
11	GHODAKE AMIT BANDU	Amit
12	HAJARI AAYESHA MANSOOR	Aayesha
13	JADHAV PRAJKTA ANANDA	Prajakta
14	JAGTAP SANJAY SAHEBRAO	Sanjay
15	KANDHARE JEEVAN MURLIDHAR	Jeevan
17	KHOPADE RUSHIKESH RAMESH	Rushikesh
18	KOLAP SOMNATH SATOONDA	Somnath
19	KONDE ASHISH SUNIL	Ashish
20	MAYURI MAHESH JADHAV	Mayuri
21	MORE RAHUL PRAKASH	Rahul
22	PAWAR PRANAV PRADEEP	Pranav
23	ROHIT KUMAR DHENDE	Rohit
24	ROSHAN JAGDISH SALUNKE	Roshan
25	SAGAR SUKHDEV BHOMBE	Sagar
26	SAKSHI VIJAY KORDE	Sakshi
27	SALUNKHE OMKAR ARUN	Omkar
28	SAWANT SACHIN RAGHUNATH	Sachin
29	SHAIKH AAFIYA DILAWAR	Aafiya
30	SHEMBALE MAHESH LAXMAN	Mahesh
32	SHINDE RAHUL VILAS	Rahul
33	SHIRODKAR ASHWINI KANTA	Ashwini
34	SHIRSAT VIKRAM KAKASO	Vikram
35	TAMBADE SANKET SHAM	Sanket
36	THORAT ARATI NILESH	Arati
37	VAIBHAV ANIL NANGUDE	Anil
38	VISHAL SHIVAJI BANDAL	Vishal
39	WALHEKAR RUSHIKESH DATTATRAY	Rushikesh
40	WARKHADE YASH DATTATRAY	Yash
41	WAWRE RAJRATNA BHIMRAO	Ratna

  
 Prof. S. D. Babar  
 B.E Class Teacher

  
 Prof. S. V. Tayade  
 Head of Department





Navsahyadri Education Society's Group of Institutes

## **FACULTY OF ENGINEERING**

Pune-Satara Road, Naigaon, Pune-412213

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### Electrical Engineering Department

03/09/2020

## **ACTIVITY REPORT**

### **BMS - BATTERY MANGEMENT SYSTEM**

**Date** : 3rd September 2020

**Venue** : Electrical Engineering Department, Navsahyadri Group of Institutions

**Attendee** 35

#### **Details**

On 3rd September 2020, the Electrical Engineering Department of Navsahyadri Group of Institutions organized a Workshop on BMS – Battery Management System. The workshop commenced at 10:30 AM in the Class Room No. 311 of Electrical department.

Guest of today's program was Dr. A. P. Bhagwat, working as Production Engineer at Microtex India Pvt. Ltd.

In this workshop following points are discussed.

### **1. Introduction**

#### **Overview**

A Battery Management System (BMS) is crucial for monitoring and managing battery performance, ensuring safety, longevity, and efficiency. It plays a pivotal role in various applications, including electric vehicles (EVs), renewable energy storage, and consumer electronics.

#### **Objectives**

To monitor the state of charge (SoC) and state of health (SoH) of batteries. To balance cell voltages and ensure safe operation. To protect batteries from overcharging, deep discharge, and thermal extremes.



## **2. Components of BMS**

### **Hardware Components Microcontroller/Processor:**

Central unit for data processing and control. Voltage and Current Sensors: Measure individual cell voltages and overall current. Temperature Sensors: Monitor battery temperature to prevent overheating. Balancing Circuitry: Ensures uniform charge distribution across cells. Communication Interfaces: Facilitates data exchange between the BMS and external systems (e.g., CAN bus, UART).

### **Software Components Firmware:**

Embedded software for real-time data acquisition and processing. Data Logging: Records battery performance data for analysis and diagnostics. Protection Algorithms: Implement safety protocols to prevent malfunction.

## **3. Activities Conducted**

### **Research and Development Literature Review:**

Analyzed recent advancements in BMS technologies and methodologies. Technology Assessment: Evaluated different BMS architectures and their applicability to specific use cases.

### **Design and Prototyping Circuit Design:**

Developed schematics for voltage sensing, current measurement, and balancing circuits. PCB Layout: Designed and tested printed circuit boards (PCBs) for the BMS hardware. Firmware Development: Programmed microcontroller firmware for real-time monitoring and control.

### **Testing and Validation Bench Testing:**

Conducted initial tests on the BMS prototype to verify voltage measurements, current sensing, and balancing functionality. Performance Testing: Assessed the BMS under various operating conditions to ensure stability and accuracy. Safety Testing: Evaluated the BMS's response to overcharge, short circuit, and thermal events.

### **Integration System Integration:**

Incorporated the BMS into a test battery pack and assessed its performance in a real-world scenario. Communication Testing: Verified the communication protocols and data exchange between the BMS and external devices.

## **4. Results**

### **Performance Metrics Accuracy:**

Achieved  $\pm 0.5\%$  accuracy in voltage and current measurements.

Response Time: Real-time processing with a latency of less than 50 milliseconds.

Balancing Efficiency: Maintained cell voltage within  $\pm 10$  mV across all cells.

### **Issues Encountered**

Thermal Management: Addressed overheating issues by improving cooling solutions.

Firmware Bugs: Resolved issues related to data logging and protection algorithms.

### **Lessons Learned:**

Importance of thorough testing under diverse conditions. Need for robust thermal management in high-power applications.

## **5. Future Work**

### **Improvements Advanced Balancing Techniques:**

Explore more efficient cell balancing methods.

Enhanced Communication Protocols: Develop support for additional communication interfaces and protocols.

### **Research Directions Integration with IoT:**

Investigate the potential for remote monitoring and control via Internet of Things (IoT) platforms.

Machine Learning: Explore the use of machine learning algorithms for predictive maintenance and performance optimization.

## **6. Conclusion**

The BMS project has demonstrated significant progress in enhancing battery performance and safety. The activities conducted have laid a solid foundation for future advancements and applications. Continued research and development will focus on refining system capabilities and expanding its applicability to emerging technologies.



Prof. A. D. Pachghare  
Workshop Coordinator  
Electrical Engg. Dept.

Prof. S. V. Tayade  
HOD, Electrical Engg. Dept.

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**DEPARTMENT OF ELECTRICAL ENGINEERING**  
**B.E ELECTRICAL ROLL CALL LIST (2021-22)**

Roll No.	Name of The Student	Signature
1	ANIL GAURAV RAMKRI SHINHA	
2	AKASH BHAI SO KHAJE	
3	AKSHAY VISHNU MANSI	
4	ANPAI NIKHIL NARSONI	
5	BANDAL JEET SHIVAJI	
6	BANGGAR SAURABH PRASHANT	
7	BHANGDE UTKARSH VIVEK	
8	BHOITE SURAJ RANJAY	
9	DEKAYE ASHWARYA GOVIND	
10	DEEPAK KUMAR SHARMA	
11	DHAMALE NILESH DNYANESHWAR	
12	DHAS SARAJ SIDDHESHWAR	
13	DHOMAL EUTUZA MOHAN	
14	GAIKWAD RENUKA MURLIDHAR	
15	GOLE VAIBHAV BALIRAM	
16	KADAV SHRIKANT TANAJI	
17	KHARAT PRIYET ANANDRAV	
18	KRANTI ARUN URALE	
19	KULKARNI LAXMIKANT DHANANJAY	
20	KURANE SHAHNAJ BAKAS	
21	LAMBUD VISHAL BABASAHEB	
22	LOPIYA RUCHIKA SATISH	
23	MAGAR SUNIL SHANKAR	
24	MALOMKAR ANKUSH	
25	MANDAVKAR ROUSHAN RAJARAM	
26	MANGESH MARUTI SHINDE	
27	MISAL PRATIKSHA SHARAD	
28	NANAWARE SURAJ MOHAN	
29	NILESH SOPAN ZAMBARE	
30	PANAGARE ROHIT DATTATRAY	
31	PANGARE ABHJIT RAJARAM	
32	PARBAL SAURAV DATTATRAY	
33	PATEL BHUTIK SARODHAI	
34	PISAL SUJIT SATISH	
35	PISAL VIRAJ VISHWAS	
36	RANADE SHRIDHAR SUDHIR	
37	RAUT ASHWARYA SAMPAT	
38	SALUNKHE ONKAR ARUN	
39	SAMADHAN VILAS PATOLE	
40	SANKET JAGDISH SHINDE	
41	SARATE VAISHNAVI SADASHIV	
42	SASTE SUNIL SURESH	
43	SAWANT AKASH JAYWANT	
44	SHALUNAK MANOJ NAREKAR	
45	SHEDGE ONKAR SANTOSH	
46	SHILIMKAR BHUSHAN SATISH	
47	SHILIMKAR GANESH DAMHARATHI	
48	SHINDE RAGINI VISHNU	
49	SHINDE SACHIN TANAJI	
50	SHINGADE GAYATRI LAXMAN	
51	SHWETA DATTATRAY MULE	
52	SHIVANE SHIVAJI MAHADEV	
53	SWAMI PARVATI DAYANANDI	
54	TAMHANKAR ABHINEEK SUNIL	
55	TEJAN VILAS SHIRSATHE	

*S. J. Bhande*  
 S. J. Bhande  
 B.E. Class Teacher

*S. J. Bhande*  
 S. J. Bhande  
 Head of Department

