



Shri Balasaheb Mane Shikshan Prasarak Mandal's

# ASHOKRAO MANE GROUP OF INSTITUTIONS

NH - 4, Vathar Tarf Vadgaon, Tal: -Hatkanangale, Dist:- Kolhapur-416112

E-mail: hodcivil@amgoi.edu.in, Website: www.amgoi.org

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## DEPARTMENT OF CIVIL ENGINEERING

Date: 02/02/2024

### NOTICE

All the Civil Engineering Department students, teaching and non-teaching staff are hereby informed that, Civil Engineering Department and CESA has organized the expert talk on "AutoCAD & it's applications in Civil Engg." on 05/02/2024.

All should present in time. Attendance is mandatory.

- Date: 05/02/2024
- Resource Person: Mr. Rohit Katkar & Mr. Riyaz Pendhari
- Time : 11.00am
- Venue: GL-08 (Civil Engg. Dept.)

Prof. S. A. Dopare,  
CESA Co-Ordinator

Dr. J. M. Shinde ,  
HOD, Dept. of Civil Engineering



HOD  
Civil Engineering  
AMGOI, Faculty of Engineering  
Vathar Tarf Vadgaon, Tal. Hatkanangale, Dist. Kolhapur



**DEPARTMENT OF CIVIL ENGINEERING**

Date: 05/ 02/ 2024

**EXPERT TALK REPORT ON**

**" AUTOCAD & IT'S APPLICATIONS IN CIVIL ENGG. "**

- **Date:** 05<sup>th</sup> February 2024
- **Venue:** GL-08 (Civil Engg. Dept.)
- **Expert Speaker:** Mr. Rohit Katkar & Mr. Riyaz Pendhari
- **Class :** S.Y. & T.Y.
- **No. of Benefitted students:** 58

• **INTRODUCTION**

An expert talk was conducted on "AutoCAD & Its Applications in Civil Engineering," highlighting the powerful role that AutoCAD software plays in designing, drafting, and visualizing civil engineering projects. AutoCAD, one of the most widely used Computer-Aided Design (CAD) tools, enables civil engineers to create 2D and 3D designs with precision, enhancing the efficiency of infrastructure development.

• **OBJECTIVE OF THE TALK**

The main objective was to introduce civil engineering students and professionals to AutoCAD's functionalities and its application areas in civil engineering. The session aimed to demonstrate how AutoCAD can aid in complex infrastructure designs, site planning, and structural detailing, ultimately fostering improved project visualization and collaboration.

• **KEY TOPICS COVERED**

1. **Introduction to AutoCAD**

The talk began with an introduction to AutoCAD software, its interface, and the basic tools available within the platform. The expert emphasized the importance of







## DEPARTMENT OF CIVIL ENGINEERING

understanding core functionalities such as line drawing, layering, dimensioning, and object snap features to create accurate and detailed designs.

### 2. Applications in Civil Engineering

The expert outlined how AutoCAD is used specifically in civil engineering projects, covering several application areas:

- **Site Planning and Surveying:** Demonstrated how AutoCAD aids in creating topographical maps, site layouts, and site grading plans.
- **Road and Highway Design:** Discussed the tools used for designing horizontal and vertical road alignments and for drafting road sections.
- **Structural Drafting:** Showed how structural layouts, including beams, columns, and slabs, can be efficiently drafted, with emphasis on creating detailed sections and reinforcement drawings.
- **Water Resources Engineering:** Highlighted AutoCAD's use in creating pipeline layouts, drainage systems, and watershed mapping.

### 3. Advantages of Using AutoCAD in Civil Engineering

The expert shared several advantages of using AutoCAD:

- **Precision and Accuracy:** AutoCAD's tools ensure designs are accurate and aligned with real-world measurements.
- **Efficiency and Productivity:** AutoCAD speeds up the drafting process, allowing for quick adjustments and edits.
- **Collaboration:** The platform enables engineers to share design files, making collaboration easier within teams and across disciplines.

### 4. 3D Modelling and Visualization

The expert explained the importance of 3D modelling in civil engineering and how AutoCAD's 3D tools allow engineers to create realistic representations of projects. This functionality is critical for stakeholders to visualize the final outcomes, evaluate design options, and identify potential issues before actual construction.

### 5. Case Studies and Real-World Examples

To emphasize the practical application of AutoCAD, the expert presented case studies of recent civil engineering projects where AutoCAD played a pivotal role. Examples





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included the design and visualization of a bridge project, the layout for a residential complex, and a drainage system for urban development.

### • CONCLUSION AND Q&A SESSION

The talk concluded with a Q&A session, where the audience asked questions related to AutoCAD's specific features, compatibility with other engineering software (such as Revit and Civil 3D), and recommendations for learning and mastering the software. The expert encouraged the participants to practice regularly and recommended online resources and certification programs for skill enhancement.

### Felicitation of Expert Speaker







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**Felicitation of Expert Speaker**



Vathar Tarf Vadgaon, Maharashtra, India  
V73W+68C, Vathar Tarf Vadgaon, Maharashtra 416112, India  
Lat 16.853422°  
Long 74.295604°  
05/02/24, 12:40 PM GMT +05:30

**Dr. J. M. Shinde sir delivering the introduction speech**





Shri Baiasaheb Mane Shikshan Prasarak Mandal's

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**Dr. J. M. Shinde sir delivering the introduction speech**



**During the session**





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## DEPARTMENT OF CIVIL ENGINEERING



During the session

Prof. S. A. Dopare,  
CESA Co-Ordinator

Dr. J. M. Shinde ,  
HOD, Dept. of Civil Engineering

HOD  
Civil Engineering  
AMGOI, Faculty of Engineering  
Vathar Tarf Vadgaon, Tal. Hatkanangale, Dist. Kolhapur







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## DEPARTMENT OF CIVIL ENGINEERING

Date: 05/02/2024

**" Expert talk on AutoCAD & it's applications in Civil Engg. "**

### S.Y. ATTENDANCE SHEET

Sr.No.	Name of Student	Class	Signature
1	Yadav Bhakti Sanjay	S.Y.	B. Yadav
2	Vadlar Sanket Pandurang	S.Y.	S. Vadlar
3	Rajput Dipaksingh Narendrakumar	S.Y.	D. Rajput
4	Karke Pranav Vitthal	S.Y.	P. Karke
5	Kamble Ujjwala Nathaji	S.Y.	U. Kamble
6	Tanugade Pratamesh Anant	S.Y.	P. Tanugade
7	Taigade Sakshi Sumil	S.Y.	S. Taigade
8	Shingade Suraj Dhondiram	S.Y.	S. Shingade
9	Awale Abhinandan Sachitanand	S.Y.	A. Awale
10	Manc Ajaysinh Sharadrao	S.Y.	M. Manc
11	Shingade Aakanksha Sanja	S.Y.	A. Shingade
12	Chougale Prithviraj Pramod	S.Y.	P. Chougale
13	Patil Shreyash Vijaykumar	S.Y.	S. Patil
14	Koravi Shreya Shashikant	S.Y.	S. Koravi
15	Porlekar Yutiraj Manik	S.Y.	Y. Porlekar
16	Jagdale Dipalee Yashwant	S.Y.	D. Jagdale
17	Zanjage Prajwal Madukar	S.Y.	P. Zanjage
18	Nikam Angha Gorakh	S.Y.	A. Nikam
19	Patil Pawan Ramchandra	S.Y.	P. Patil





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## DEPARTMENT OF CIVIL ENGINEERING

Date: 05/02/2024

**" Expert talk on AutoCAD & it's applications in Civil Engg. "**

### T.Y. ATTENDANCE SHEET

Sr.No.	Name of Student	Class	Signature
1	Aulade Adinath Eknath	T.Y.	Aulade
2	Sayyad Aman Riyaj	T.Y.	Sayyad
3	Mudugade Omkar Ananda	T.Y.	Mudugade
4	Shirgaonkar Goutumi Subhash	T.Y.	Goutumi
5	Aughade Sanket Dilip	T.Y.	Aughade
6	Kumbhar Aditi Shankar	T.Y.	Kumbhar
7	Kumbhar Ajay Kumar	T.Y.	Kumbhar
8	Kamble Avinash Shivaji	T.Y.	Kamble
9	Mane Pramod Prakash	T.Y.	Mane
10	Kamble Omkar Prakash	T.Y.	Kamble
11	Korune Divya Dilip	T.Y.	Korune
12	Turamure Somnath Ashok	T.Y.	Turamure
13	Khot Sourabha Youvraj	T.Y.	Khot
14	Vaghamare Vaishnavi Vinayak	T.Y.	Vaghamare
15	Tarhalkar Jyoti Kallappa	T.Y.	Tarhalkar
16	Raja Irfan Ahmad	T.Y.	Raja
17	Patil Prasad Satish	T.Y.	Patil
18	Phalke Pruthviraj Prakash	T.Y.	Phalke
19	Khuperakar Adarsh Uttam	T.Y.	Khuperakar
20	Patil Viraj Vijay	T.Y.	Patil
21	Yadav Patil Sourabh Popat	T.Y.	Yadav
22	Bhange Sandip Suresh	T.Y.	Bhange
23	Bhosale Rutesh Tonaji	T.Y.	Bhosale
24	Madar Swaliha Najir	T.Y.	Madar
25	Bidre Anuja Ashok	T.Y.	Bidre







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26	Shinge Vanshika Ashok	T.Y.	Shinge
27	Patil Gayatri Ashok	T.Y.	Patil
28	Bhosale Gitanjali Amardeep	T.Y.	Bhosale
29	Patil Digvijay Sundarrao	T.Y.	Patil
30	Maske Sourabh Sanjay	T.Y.	Maske
31	Patil Prathmesh Uday	T.Y.	Patil
32	Shejawale Bhushan Popat	T.Y.	Shejawale
33	Sutar Jahid Zakir	T.Y.	Sutar
34	Kamble Abhijit Shivaji	T.Y.	Kamble
35	Patil Kiran Alais Komal Krishnat	T.Y.	Patil
36	Vadekar Rohan Balasaheb	T.Y.	Vadekar
37	Mandvekar Sairaj Kiran	T.Y.	Mandvekar
38	Jadhav Bhushan Jayavantrao	T.Y.	Jadhav
39	Koravi Pruthviraj Dilip	T.Y.	Koravi
40	Mali Sagar Tanaji	T.Y.	Mali
41	Patil Sayali Sarjerao	T.Y.	Patil
42	Gaikwad Navneetkumar Siddhaling	T.Y.	Gaikwad
43	Nalwade Chandrika Dhondiram	T.Y.	Nalwade
44	Rabade Chaitrali Tanaji	T.Y.	Rabade
45	Powar Rahul Yallappa	T.Y.	Powar

Total : 58

  
Prof. S. A. Dopare,  
CFSA Co-Ordinator



  
Dr. J. M. Shinde,  
HOD, Dept. of Civil Engineering

HOD  
Civil Engineering  
AMGOI, Faculty of Engineering  
Vathar Tarf Vadgaon, Tal. Hatkanangale, Dist. Kolhapur





Jrri Balasaheb Mane Shikshan Prasarak Mandal's

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## TRAINING & PLACEMENT CELL

Date :12/02/2024

### NOTICE

All B.Tech final year students of Civil Engineering Department are hereby informed that Campus Interview drive of D. V. Mane Associates, Pune has been arranged in our college on 15<sup>th</sup> February 2024. All students be present in time. Attendance is mandatory for all.

**Day & Time :-** Thursday @10:30 am

**Venue :-** Planning & Design Lab, Civil Department.

Prof G. N. Chavan Patil

Civil Dept., Training Placement Co-ordinator

Prof. A. A. Uthale

Training Placement Officer





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## TRAINING & PLACEMENT CELL

### Campus Interview Program Report

**Company Name:** D. V. Mane Associate, Pune.

**Program Overview:** The Campus Interview program conducted by D. V. Mane Associate Pvt Ltd for B.Tech Civil & Diploma Civil students at Ashokrao Mane Group Of Institute on 15<sup>th</sup> February 2024. It was a significant event for both the students and the company. The purpose of the program was to identify and select talented candidates who could contribute to the company's growth and success. D. V. Mane Associates a renowned company in the construction industry and offers a wide range of opportunities for engineering and management graduates.

#### **Program Statistics:**

- **Number of Students Attended:** 31
- **Number of Students Selected:** 07

#### **Event Details:**

1. **Pre-Event Arrangements:** Before the event, the university's placement cell worked closely with D. V. Mane Associate to coordinate the logistics. This included setting up interview rooms, providing necessary equipment, and ensuring that students were well-informed about the company and the positions available.
2. **Company Presentation:** D. V. Mane Associate started the program with a presentation about the company, its history, values, and the job opportunities they had for the students. This allowed the students to gain insights into the company and its work culture.
3. **Interview Rounds:** The interview process consisted of multiple rounds to evaluate the candidates thoroughly. This included technical interviews for B.Tech Civil students and Diploma students. The interviews aimed to assess the candidates' skills, knowledge, and suitability for the roles.





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## TRAINING & PLACEMENT CELL

- 4. Selection Process:** After the interview rounds, D. V. Mane Associate selected a total of 08 students, including both B.Tech Civil and Diploma students, who demonstrated exceptional skills and potential.
- 5. Feedback and Guidance:** For the students who were not selected, D. V. Mane Associate provided valuable feedback to help them understand areas for improvement. This constructive feedback was greatly appreciated by the students.

**Conclusion:** The Campus Interview program conducted by D. V. Mane Associate was a success, benefiting both the students and the company. It provided students with the opportunity to showcase their skills and knowledge, while the company gained access to a pool of talented individuals to join their workforce. The event also strengthened the relationship between the university and D. V. Mane Associate, opening the door for potential future collaborations.

The AMGOI community extends its gratitude to D. V. Mane Associate for their participation and contribution to the career development of our students. We look forward to further collaboration and successful endeavors in the future.



Felicitation of Guest







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## TRAINING & PLACEMENT CELL



During Interview

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TRAINING & PLACEMENT CELL

*Congratulations*

**Priti Samudre**  
B. Tech. (Civil Engineering -2024)  
For selected in  
**D.V.Mane Associates, Pune**

[www.amgcol.edu.in](http://www.amgcol.edu.in) [www.amggroup.org](http://www.amggroup.org)

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*Congratulations*



**Ankita Magdum**  
B. Tech. (Civil Engineering) 2024  
For selected in

D.V.Mane Associates, Pune

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*Congratulations*




**Kajal Koli**  
B. Tech. (Civil Engineering) 2024  
For selected in

D.V.Mane Associates, Pune

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TRAINING & PLACEMENT CELL  
*Congratulations*



**Soham Suryavanshi**  
B. Tech. (Civil Engineering) 2024  
For selected in

D.V.Mane Associates, Pune

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TRAINING & PLACEMENT CELL  
*Congratulations*



**Ranoji Patil**  
B. Tech. (Civil Engineering) 2024  
For selected in

D.V.Mane Associates, Pune

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## TRAINING & PLACEMENT CELL



Prof G. N. Chavan Patil

Civil Dept., Training Placement Co-ordinator

Prof. A. A. Uthale

Training Placement Officer







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## DEPARTMENT OF CIVIL ENGINEERING

Date: - 20/03/2024

### PERMISSION LETTER

To,  
Prof. P. B. Ghewari,  
Vice Principal,  
AMGOI, Vathar.

**Subject:** - Request for permission to conduct the student training program (Add on Course) on '2D Building Drawing with AutoCAD 2020 Software'

Respected Sir,

I am writing to seek your kind permission to organize the student training program (Add on Course) on '2D Building Drawing with AutoCAD 2020 Software' in the Department of Civil Engineering from Friday, 22/03/2024 at Planning & Design Lab.

The objective of this program is to give hands-on training of software uses in planning & design. Also to develop visual ability of students.

Kindly grant us approval for the same. We will ensure all arrangements are made to conduct the student training program (Add on Course) smoothly and in alignment with the institute guidelines.

Looking forward to your positive response.

Thanking you.

Prof. S. A. Dopare  
Event Coordinator

Dr. J. M. Shinde  
Head, Dept. of Civil Engg.

**HOD**  
**Civil Engineering**  
AMGOI, Faculty of Engineering  
Vathar Tarf Vadgaon, Tal. hatkanangle, Dist. Kolhapur

Permitted  
A. K. Kulkarni





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## DEPARTMENT OF CIVIL ENGINEERING

Date: - 21/03/2024

### NOTICE

All the Department of Civil Engineering SY and TY students are hereby informed that, the department has organized the student training program(Add on Course)on '2D Building Drawing with AutoCAD 2020 Software' in the Department of Civil Engineering from Friday, 22/03/2024 at Planning & Design Lab.

The attendance is mandatory to all & present on time.

**Date:** Friday, 22/03/2024

**Time:** 10:00 am onwards

**Venue:** Planning & Design Lab. (Dept. of Civil Engg.)

Prof. S. A. Dopare  
Event Coordinator

Dr. J. M. Shinde  
Head, Dept. of Civil Engg.



**HOD**  
**Civil Engineering**  
AMGOI, Faculty of Engineering  
Vathar Tarf Vadgaon, Tal. hatkanangle, Dist. Kolhapur



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## DEPARTMENT OF CIVIL ENGINEERING

Date: - 21/03/2024

### INVITATION LETTER

To,  
Mr. Rohit Katkar,  
Software trainer,  
Poly-Edge Consultancy, Kolhapur

Subject: - Invitation as a Trainer for the student training program (Add on Course) on '2D Building Drawing with AutoCAD 2020 Software'

Dear Sir,

Greetings!

We are delighted to invite you as a trainer for the student training program (Add on Course) on '2D Building Drawing with AutoCAD 2020 Software'. The training is scheduled to be held on Friday, 22/03/2024 at Planning & Design Lab of our institution.

Your vast knowledge and expertise in this field would greatly benefit our students in understanding the significance of the software learning & implementation.

We would be honoured to have your presence and guidance at this program. Kindly confirm your availability at your earliest convenience.

Looking forward to your positive response.

Warm regards,

Prof. S. A. Dopare  
Event Coordinator

Dr. J. M. Shinde  
Head, Dept. of Civil Engg.



Received  
Prof. S. A. Dopare

HOD  
Civil Engineering  
AMGOI, Faculty of Engineering  
Vathar Tarf Vadgaon, Tal. hatkanangle, Dist. Kolhapur





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## DEPARTMENT OF CIVIL ENGINEERING

Date: - 21/03/2024

### INVITATION LETTER

To,

Mr. Nilesh Shinde,  
Software trainer,  
Poly-Edge Consultancy, Kolhapur

Subject: - Invitation as a Trainer for the student training program (Add on Course) on '2D Building Drawing with AutoCAD 2020 Software'

Dear Sir,

Greetings!

We are delighted to invite you as a trainer for the student training program (Add on Course) on '2D Building Drawing with AutoCAD 2020 Software'. The training is scheduled to be held on Friday, 22/03/2024 at Planning & Design Lab of our institution.

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We would be honoured to have your presence and guidance at this program. Kindly confirm your availability at your earliest convenience.

Looking forward to your positive response.

Warm regards,

Prof. S. A. Dopare  
Event Coordinator

Dr. J. M. Shinde  
Head, Dept. of Civil Engg.



HOD  
Civil Engineering  
AMGOI, Faculty of Engineering  
Vathar Tarf Vadgaon, Tal. Hatkanangle, Dist. Kolhapur

Received  
Shinde



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## DEPARTMENT OF CIVIL ENGINEERING

Date: - 31/05/2024

### THANKING LETTER

To,  
Mr. Rohit Katkar,  
Software trainer,  
Poly-Edge Consultancy, Kolhapur

Subject: - Gratitude for conduction as a Trainer for the student training program (Add on Course) on '2D Building Drawing with AutoCAD 2020 Software'

Dear Sir,

On behalf of our department and institution, we extend our heartfelt thanks for being the resource person for the student training program (Add on Course) on '2D Building Drawing with AutoCAD 2020 Software', held on Friday, 22/03/2024 to Friday, 31/05/2024 (duration 50 hrs) at Planning & Design Lab of our institution

Your insightful training was truly enlightening and has greatly motivated our students to develop 2D building drawings with AutoCAD 2020 Software. Your expertise and the valuable tips shared during the training were immensely appreciated by everyone present.

We are deeply grateful for your time, effort, and dedication to guiding our students. We look forward to the opportunity of hosting you again in the future.

Warm regards,

Prof. S. A. Dopare  
Event Coordinator

Dr. J. M. Shinde  
Head, Dept. of Civil Engg.



HOD  
Civil Engineering  
AMGOI, Faculty of Engineering  
Vathar Tarf Vadgaon, Tal. hatkanangle, Dist. Kolhapur

Received  
Rohit



Shri Balasaheb Mane Shikshan Prasarak Mandal's

# ASHOKRAO MANE GROUP OF INSTITUTIONS

NH - 4, Vathar Tarf Vadgaon, Tal: -Hatkanangle, Dist: - Kolhapur-416112

E-mail: hodcivil@amgoi.edu.in, Website: www.amgoi.org

Accredited by NAAC (Cycle I & II)



## DEPARTMENT OF CIVIL ENGINEERING

Date: - 31/05/2024

### THANKING LETTER

To,

Mr. Nilesh Shinde,

Software trainer,

Poly-Edge Consultancy, Kolhapur

Subject: - Gratitude for conduction as a Trainer for the student training program (Add on Course)on '2D Building Drawing with AutoCAD 2020 Software'

Dear Sir,

On behalf of our department and institution, we extend our heartfelt thanks for being the resource person for the student training program (Add on Course)on '2D Building Drawing with AutoCAD 2020 Software' , held on Friday,22/03/2024 to Friday, 31/05/2024 (duration 50 hrs) atPlanning & Design Lab of our institution

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Event Coordinator

Dr. J. M. Shinde  
Head, Dept. of Civil Enrgg.



HOD  
Civil Engineering  
AMGOI, Faculty of Engineering  
Vathar Tarf Vadgaon, Tal. hatkanangle, Dist. Kolhapur

Received  
Shinde





**DEPARTMENT OF CIVIL ENGINEERING**

Date:-01/06/2024

**CO-ORDINATOR REPORT**

Student Training Program on (Add on Course)

**"2D Building Drawing with AutoCAD 2020 Software"**

- **Name of Trainer:** Mr. Rohit Katkar and Mr. Nilesh Shinde, Trainer, Poly-Edge Consultancy, Kolhapur
- **Name of the Co-ordinator:** Prof. S. A. Dopare

➤ **Objectives of the program:**

- 1) To give hands on training of software uses in planning and designing.
- 2) To create accurate and precise 2D and 3D drawings and designs that adhere to real-world dimensions and specifications.
- 3) To Streamline the design process by leveraging AutoCAD's tools for modeling, editing, and organizing elements to produce drafts quickly and efficiently.
- 4) To develop visual ability of students.

➤ **About the program:**

Computer-Aided Designing (CAD) with AutoCAD 2020 is a powerful software program used by engineers, architects, and designers to create detailed 2D and 3D drawings and models. It enables users to draft, annotate, and design with precision and efficiency, leveraging a wide range of tools for creating accurate layouts and visualizations. AutoCAD 2020 offers enhanced performance, cloud storage integration, and advanced features like enhanced 3D modelling, improved user interface, and automated workflows, making it ideal for design projects in various industries like architecture, engineering, manufacturing, and construction.

➤ **Schedule the program:**

- The program is of total **7 days (50 Hours)**.
- Start Date of program:- **22/03/2024**.
- End date of the program:- **31/05/2024**.





Shri Balasaheb Mane Shikshan Prasarak Mandal's

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## DEPARTMENT OF CIVIL ENGINEERING

Date	Content the program	Resource Person
22/03/2024	<b>Day 1:</b> Introduction to AutoCAD and Professional Drawing Standards, Overview of AutoCAD interface and workspace, Setting up units, scales, and drawing limits, Understanding drawing standards for professional and municipal projects, Drawing basic shapes: Line, Circle, Arc, and Rectangle, Saving and organizing AutoCAD files (file management best practices).	Mr. Rohit Katkar
30/03/2024	<b>Day 2:</b> Drafting Tools and Precision in Professional Drawings, Drafting settings: Snap, Grid, Ortho, Polar tracking Using Object Snap (Osnap) and Object Snap Tracking, Modifying commands: Move, Copy, Rotate, Scale, Trim, Extend, Mirror, Creating precise geometries for professional use: Lines, arcs, and polylines, Using layers for different components of municipal and architectural drawings (walls, roads, utilities, etc.).	Mr. Nilesh Shinde
06/04/2024	<b>Day 3:</b> Layers, Object Properties, and Municipal Standards, Creating, managing, and organizing layers, Assigning line types, colors, and line weights to layers, Introduction to municipal drawing standards (symbols, hatching, scales), Creating boundary lines, road networks, and zoning areas for municipal layouts, Working with property boundaries, plot subdivisions, and right-of-way markings.	Mr. Nilesh Shinde







Shri Balasaheb Mane Shikshan Prasarak Mandal's

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## DEPARTMENT OF CIVIL ENGINEERING

20/04/2024	<b>Day 4:</b> Annotation, Dimensioning, and Site Plans, Adding text and annotations for professional and municipal drawings, Understanding dimensioning systems for buildings and site layouts, Linear, Aligned, Angular, and Radial dimensioning, Drafting site plans: Showing plot boundaries, roads, utilities, and building footprints, Adding details for zoning, landscape, and utility annotations in municipal drawings.	Mr. Nilesh Shinde & Mr. Rohit Katkar
04/05/2024	<b>Day 5:</b> Working with Blocks, Symbols, and Detailing. Creating and using blocks for standard objects (furniture, doors, windows, trees, road signs), Managing and organizing block libraries for professional use, Creating and inserting title blocks and symbols specific to municipal and architectural plans, Adding and modifying details (elevations, sections, infrastructure components like manholes, electrical boxes).	Mr. Nilesh Shinde & Mr. Rohit Katkar
18/05/2024	<b>Day 6:</b> Plotting, Layouts, and Municipal Plan Submission. Understanding model space vs. paper space, Creating viewports for municipal layouts and building plans, Setting up plot styles, sheet sizes, and plot scales according to standards, Preparing drawings for submission (plotting with appropriate scales, layouts, and title blocks), Plotting municipal site layouts and building permit drawings.	Mr. Nilesh Shinde & Mr. Rohit Katkar







**DEPARTMENT OF CIVIL ENGINEERING**

31/05/2024	<b>Day 7:</b> Advanced Professional Drawing Practices and Final Project, Introduction to topographic and contour maps in municipal planning, Incorporating elevation data, contour lines, and grading for professional site plans, Understanding digital submission standards (CAD file formats, PDFs, print settings), Q&A and troubleshooting common drawing issues, Workshop wrap-up: Final project review (municipal site plan and a professional architectural drawing).	Mr. Rohit Katkar
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➤ **Inauguration Function:**

The inaugural function is started at 10 a.m. as per schedule. The introductory speech was delivered by Dr. J. M. Shinde, head of civil department. The felicitation of dignitaries with bouquet is followed by introductory speech. Mr. Rohit Katkar, Mr. Riyaj Pendhari & Mr. Nilesh Shinde (Trainer of PolyEdge Consultancy) gave the introduction of Computer Aided Designing (CAD), AutoCAD 2020 software. Vote of thanks was delivered by Prof. S. A. Dopare.

➤ **Participant Details:**

Total 13 participants were attended the program. All participants from S.Y. & T.Y Civil

➤ **Valedictory Function:**

The Valedictory function is started at 10 a.m. as per schedule. The introductory speech was delivered by Dr. J. M. Shinde, head of civil department. The felicitation of dignitaries with books is followed by introductory speech. Best performer award AutoCAD 2020 was given to Ms. Bhakti Sanjay Yadav from S.Y. Civil. Distribution of certificates was done by auspicious hands of Dr. J. M. Shinde, head of civil department, Mr. Rohit Katkar (Trainer of PolyEdge Consultancy) & Mr. Riyaj Pendhari (CEO of PolyEdge Consultancy) Vote of thanks was delivered by Prof. S. A. Dopare.





Shri Balasaheb Mane Shikshan Prasarak Mandal's

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## DEPARTMENT OF CIVIL ENGINEERING

### INAUGURATION FUNCTION PHOTOS:



Felicitation of Guest



Dr. J. M. Shinde sir delivering the introductory speech







Shri Balasaheb Mane Shikshan Prasarak Mandal's

# ASHOKRAO MANE GROUP OF INSTITUTIONS

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## DEPARTMENT OF CIVIL ENGINEERING

### PHOTOS DURING THE SESSION:

During The Session



During The Session



During The Session







Shri Balasaheb Mane Shikshan Prasarak Mandal's

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## DEPARTMENT OF CIVIL ENGINEERING

### **VALEDICTORY FUNCTION PHOTOS:**



**Felicitation of Guest**



**Felicitation of Guest**



**Dr. J. M. Shinde sir delivering the introductory speech**





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## DEPARTMENT OF CIVIL ENGINEERING



**Prof. S. A. Dopare sir delivering the vote of thanks**



**Distribution of Certificates**



**Distribution of Certificates**





Shri Balasaheb Mane Shikshan Prasarak Mandal's

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## DEPARTMENT OF CIVIL ENGINEERING



Distribution of Certificates



Distribution of Certificates



Distribution of Certificates







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## DEPARTMENT OF CIVIL ENGINEERING



**Distribution of Best performer award AutoCAD 2020**  
**to Ms. Bhakti Sanjay Yadav (S.Y. Civil.)**





Shri Balasaheb Mane Shikshan Prasarak Mandal's

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## DEPARTMENT OF CIVIL ENGINEERING

**Ms. Bhakti Sanjay Yadav ( T.Y.Civil ) ,**  
**" The Best AutoCAD Performer " award winner**  
**during the AutoCAD Workshop held @AMGOI.**

Felicitation of Ms. Bhakti Sanjay Yadav ( T.Y. Civil ) with the auspicious hands of Prof. P. B. Ghowari (Vice-Principal, AMGOI) in the presence of Dr. J. M. Shinde (Dean, Student Affairs and Head, Dept. of Civil Engg.) & Prof. R. A. Pasale (Head, Dept. of Applied Science & Humanities) .

[www.amgkolhapur.com](http://www.amgkolhapur.com) [www.amgoi.org](http://www.amgoi.org)

**ASHOKRAO MANE GROUP** **AMG**

**Prof. S. A. Dopare,**  
**Co-ordinator of Program**

**Dr. J. M. Shinde ,**  
**HOD,**  
**Department of Civil Engineering**  
**HOD**  
**Civil Engineering**

AMGOI, Faculty of Engineering

Vathar Tarf Vadgaon, Tal: Hatkanangale, Dist: Kolhapur







Shri. Balasaheb Mane Shikshan Prasarak Mandal's

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## DEPARTMENT OF CIVIL ENGINEERING

### ATTENDANCE SHEET

Sr.No.	Name of Student	Class	Dates						
			22/03/2024	30/03/2024	06/04/2024	20/04/2024	04/05/2024	18/05/2024	31/05/2024
1	Omkar Prakash Kamble	T.Y.	Kamble	Kamble	Kamble	Kamble	Kamble	Kamble	Kamble
2	Avinash Shivaji Kamble	T.Y.	Kamble	Kamble	Kamble	Kamble	Kamble	Kamble	Kamble
3	Raja Irfan	T.Y.	Raja	Raja	Raja	Raja	Raja	Raja	Raja
4	Sourabh Sanjay Maske	T.Y.	Maske	Maske	Maske	Maske	Maske	Maske	Maske
5	Sanket Dilip Aughade	T.Y.	Aughade	Aughade	Aughade	Aughade	Aughade	Aughade	Aughade
6	Sourabh Yuvraj Khot Patil	T.Y.							
7	Sourabh Popar Yadav	T.Y.	Yadav	Yadav	Yadav	Yadav	Yadav	Yadav	Yadav
8	Gayatri Ashok Patil	T.Y.	Patil	Patil	Patil	Patil	Patil	Patil	Patil
9	Ujjwala Nathaji Kamble	S.Y.	Kamble	Kamble	Kamble	Kamble	Kamble	Kamble	Kamble
10	Bhakti Sanjay Yadav	S.Y.	Yadav	Yadav	Yadav	Yadav	Yadav	Yadav	Yadav
11	Sakshi Sunil Taigade	S.Y.	S.S. Taigade	S.S. Taigade	S.S. Taigade	S.S. Taigade	S.S. Taigade	S.S. Taigade	S.S. Taigade
12	Abhinandan Sachitanand Awaile	S.Y.							
13	Pranav Vitthal Karke	S.Y.	Karke	Karke	Karke	Karke	Karke	Karke	Karke

Prof. S. A. Dopare,  
Co-ordinator of Program



Dr. J. M. Shinde,  
HOD, Department of Civil Engineering  
HOD

Civil Engineering Page 1 of 1  
AMGOI, Faculty of Engineering  
Vadhar Tarf Vadgaon, Tal: Hatkanangale, Dist: Kolhapur





PolyEdge Consultancy, Kolhapur

&

Ashokrao Mane Group of Institutions, Vathar



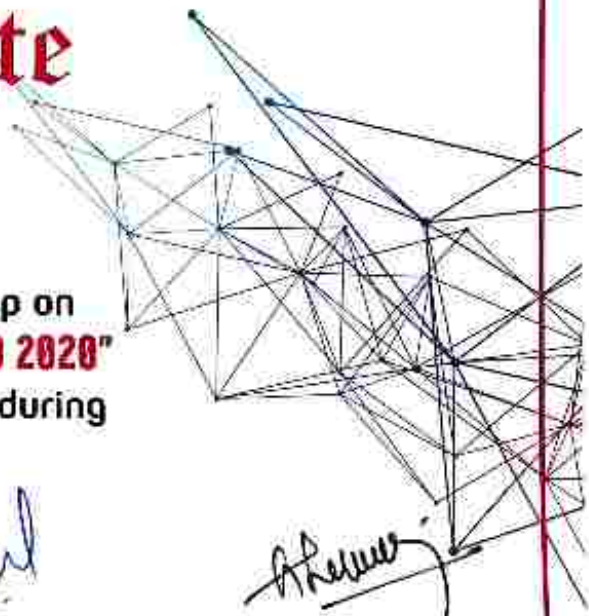
Department of Civil Engineering

# Certificate

This is to certify that

*Bhakti Sanjay Yadav*

has successfully completed training workshop on  
**"Computer Aided Designing (CAD) with AutoCAD 2020"**  
Organized by Department of Civil Engineering during  
22 March 2024 to 31 May 2024.



Mr. Riyaj Perdihari  
CED,  
PolyEdge Consultancy

*S. A. Dopare*

Prof. S. A. Dopare  
Co-ordinator,  
3ds Max Club, AMGOI

*J. M. Shinde*

Dr. J. M. Shinde  
Head,  
Department of Civil Engg.

*P. B. Ghewari*

Prof. P. B. Ghewari  
Vice Principal,  
AMGOI



PolyEdge Consultancy, Kolhapur

&

Ashokrao Mane Group of Institutions, Vathar



Department of Civil Engineering

# Certificate

This is to certify that

*Ujjwala Nathaji Kamble*

has successfully completed training workshop on  
**"Computer Aided Designing (CAD) with AutoCAD 2020"**  
Organized by Department of Civil Engineering during  
22 March 2024 to 31 May 2024.



Mr. Riya Pendhari  
CEO,  
PolyEdge Consultancy



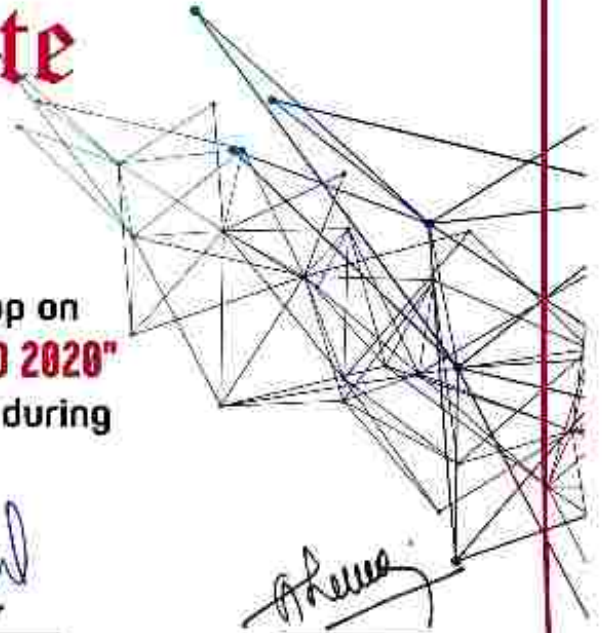
Prof. S. A. Dopara  
Co-ordinator,  
Sds Max Club, AMGOI



Dr. J. M. Shinde  
Head,  
Department of Civil Engg.



Prof. P. B. Ghewari  
Vice Principal,  
AMGOI





PolyEdge Consultancy, Kolhapur

&

Ashokrao Mane Group of Institutions, Vathar



Department of Civil Engineering

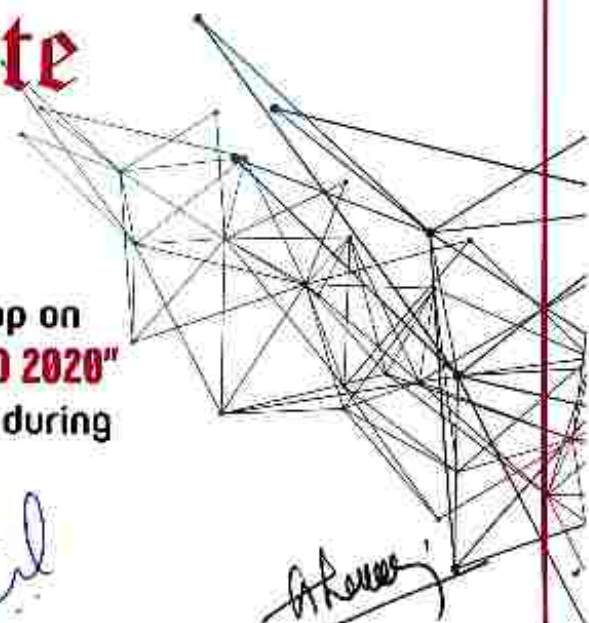
# Certificate

This is to certify that

*Pranav Vitthal Karke*

has successfully completed training workshop on  
**"Computer Aided Designing (CAD) with AutoCAD 2020"**

Organized by Department of Civil Engineering during  
22 March 2024 to 31 May 2024.



Mr. Riyaj Perdhar  
CEO,  
PolyEdge Consultancy

Prof. S. A. Dopare  
Co-ordinator,  
3ds Max Club, AMGOI

Dr. J. M. Shinde  
Head,  
Department of Civil Engg.

Prof. P. B. Ghewari  
Vice Principal,  
AMGOI





**PolyEdge Consultancy, Kolhapur**

**&**

**Ashokrao Mane Group of Institutions, Vathar**



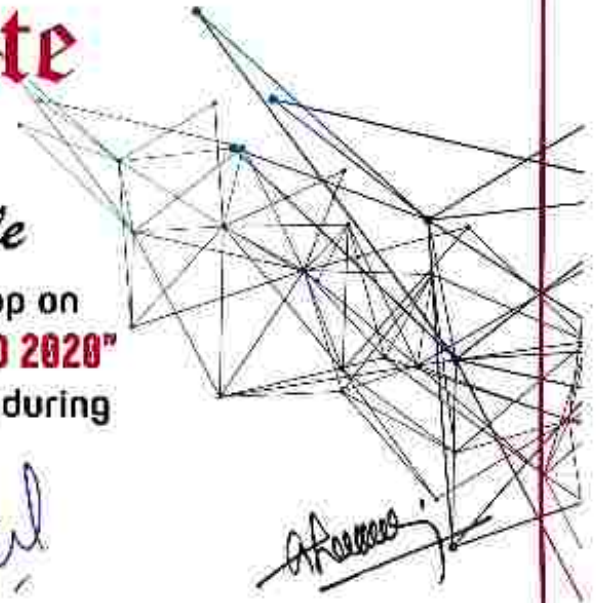
**Department of Civil Engineering**

# Certificate

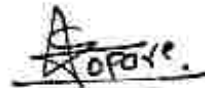
This is to certify that

*Abhinandan Sachitanand Awale*

has successfully completed training workshop on  
**"Computer Aided Designing (CAD) with AutoCAD 2020"**  
Organized by Department of Civil Engineering during  
22 March 2024 to 31 May 2024.



Mr. Riyaj-Panahari  
CEO,  
PolyEdge Consultancy



Prof. S. A. Dopare  
Co-ordinator,  
3ds Max Club, AMGOI



Dr. J. M. Shinde  
Head,  
Department of Civil Engg.



Prof. P. B. Ghewari  
Vice Principal,  
AMGOI



**PolyEdge Consultancy, Kolhapur**

**&**

**Ashokrao Mane Group of Institutions, Vathar**



**Department of Civil Engineering**

# Certificate

This is to certify that

*Sakshi Sunil Taigade*

has successfully completed training workshop on  
**"Computer Aided Designing (CAD) with AutoCAD 2020"**  
Organized by Department of Civil Engineering during  
22 March 2024 to 31 May 2024.

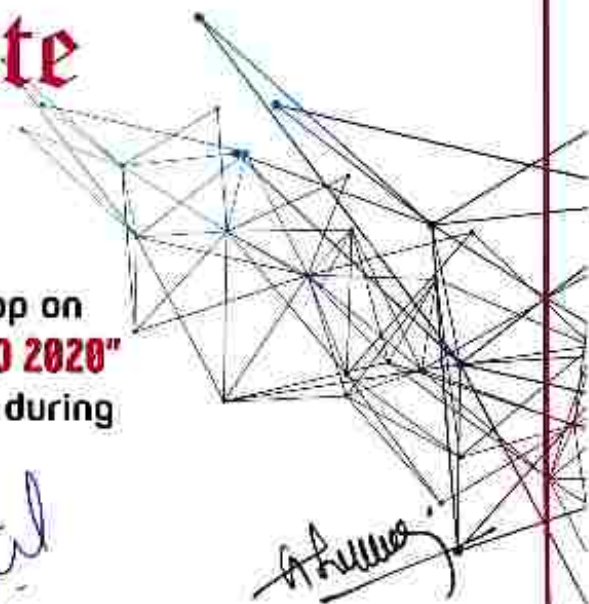


Mr. Riyaj Bendhari  
CEO,  
PolyEdge Consultancy

Prof. S. A. Dopare  
Co-ordinator,  
3ds Max Club, AMGOI

Dr. J. M. Shinde  
Head,  
Department of Civil Engg.

Prof. P. B. Ghewari  
Vice Principal,  
AMGOI





PolyEdge Consultancy, Kolhapur

&

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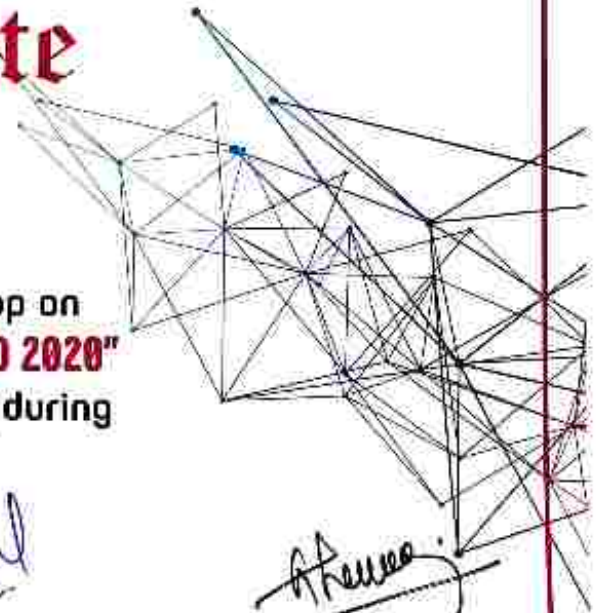
Department of Civil Engineering

# Certificate

This is to certify that

*Omkar Prakash Kamble*

has successfully completed training workshop on  
**"Computer Aided Designing (CAD) with AutoCAD 2020"**  
Organized by Department of Civil Engineering during  
22 March 2024 to 31 May 2024.



Mr. Riyaj Penditani  
CEO,  
PolyEdge Consultancy

Prof. S. A. Dopare  
Co-ordinator,  
3ds Max Club, AMGOI

Dr. J. M. Shinde  
Head,  
Department of Civil Engg.

Prof. P. B. Ghewari  
Vice Principal,  
AMGOI





PolyEdge Consultancy, Kolhapur

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Ashokrao Mane Group of Institutions, Vathar



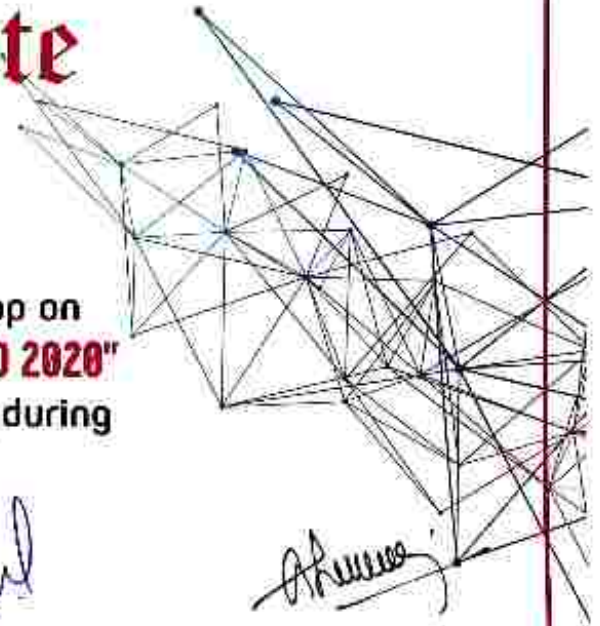
Department of Civil Engineering

# Certificate

This is to certify that

*Raja Infan*

has successfully completed training workshop on  
**"Computer Aided Designing (CAD) with AutoCAD 2020"**  
Organized by Department of Civil Engineering during  
22 March 2024 to 31 May 2024.



Mr. Riyaj Pendhari  
CEO,  
PolyEdge Consultancy

Prof. S. A. Dopare  
Co-ordinator,  
3ds Max Club, AMGOI

Dr. J. M. Shinde  
Head,  
Department of Civil Engg.

Prof. P. B. Ghawari  
Vice Principal,  
AMGOI



PolyEdge Consultancy, Kolhapur

&

Ashokrao Mane Group of Institutions, Vathar



Department of Civil Engineering

# Certificate

This is to certify that

*Sourabh Yuvraj Khot*

has successfully completed training workshop on

**"Computer Aided Designing (CAD) with AutoCAD 2020"**

Organized by Department of Civil Engineering during

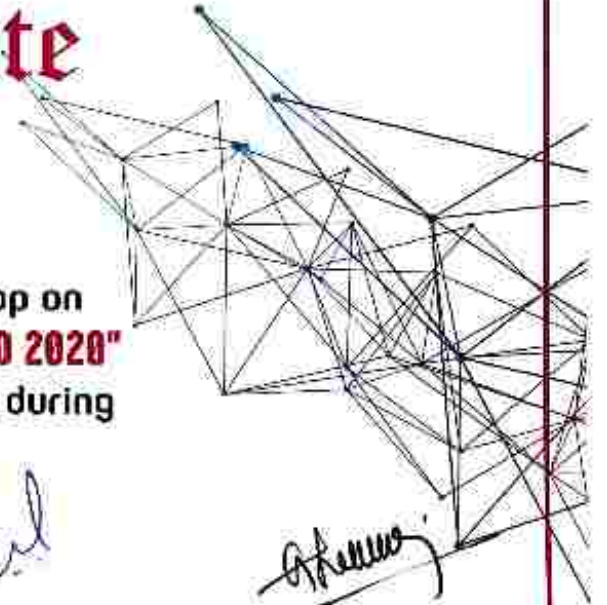
22 March 2024 to 31 May 2024.

Mr. Riyaj Pendhari  
CEO,  
PolyEdge Consultancy

Prof. S. A. Dopare  
Co-ordinator,  
3ds Max Club, AMGOI

Dr. J. M. Shinde  
Head,  
Department of Civil Engg.

Prof. P. B. Ghewari  
Vice Principal,  
AMGOI





PolyEdge Consultancy, Kolhapur

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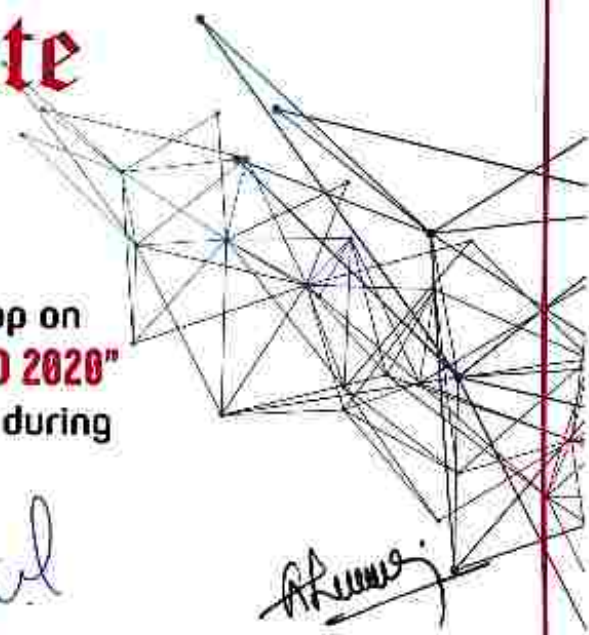
Department of Civil Engineering

# Certificate

This is to certify that

*Sourabh Sanjay Maske*

has successfully completed training workshop on  
**"Computer Aided Designing (CAD) with AutoCAD 2020"**  
Organized by Department of Civil Engineering during  
22 March 2024 to 31 May 2024.



Mr. P. B. Ghewari  
CEO  
PolyEdge Consultancy

Prof. S. A. Dopare  
Co-ordinator,  
Jds Max Club, AMGOI

Dr. J. M. Shinde  
Head,  
Department of Civil Engg.

Prof. P. B. Ghewari  
Vice Principal,  
AMGOI





PolyEdge Consultancy, Kolhapur

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Ashokrao Mane Group of Institutions, Vathar



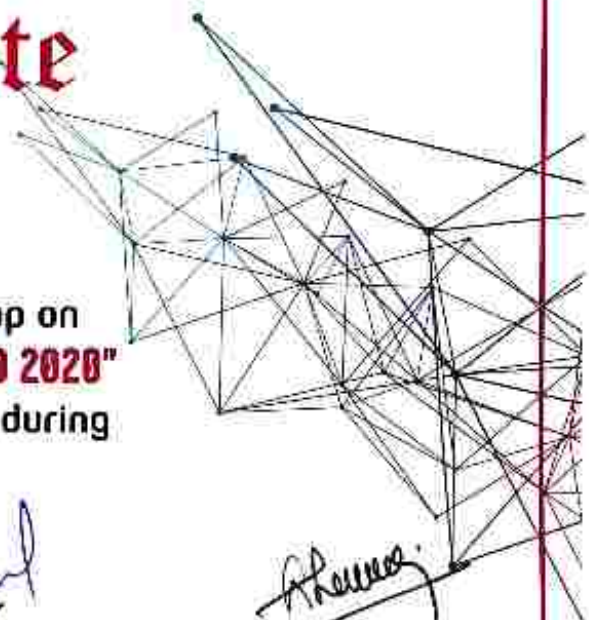
Department of Civil Engineering

# Certificate

This is to certify that

*Sourabh Popat Yadav Patil*

has successfully completed training workshop on  
**"Computer Aided Designing (CAD) with AutoCAD 2020"**  
Organized by Department of Civil Engineering during  
22 March 2024 to 31 May 2024.



Mr. Riyaj. Pendhari  
CEO,  
PolyEdge Consultancy

Prof. S. A. Dopare  
Co-ordinator,  
3ds Max Club, AMGOI

Dr. J. M. Shinde  
Head,  
Department of Civil Engg.

Prof. P. B. Ghawari  
Vice Principal,  
AMGOI



PolyEdge Consultancy, Kolhapur

&

Ashokrao Mane Group of Institutions, Vathar



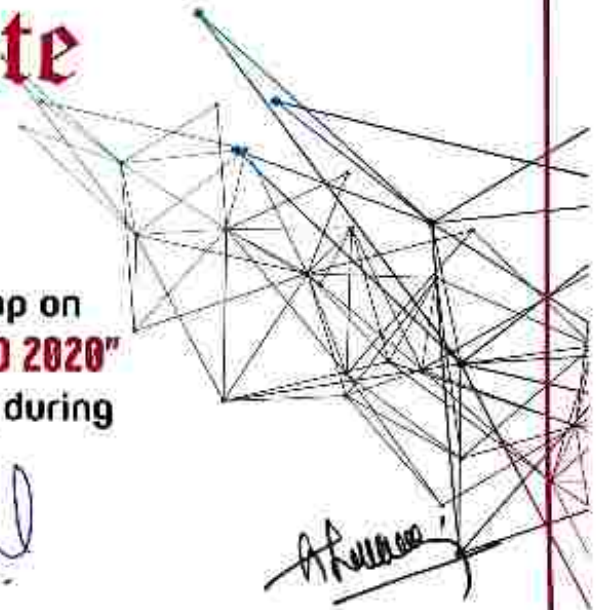
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# Certificate

This is to certify that

*Sanket Dilip Aughade*

has successfully completed training workshop on  
**"Computer Aided Designing (CAD) with AutoCAD 2020"**  
Organized by Department of Civil Engineering during  
22 March 2024 to 31 May 2024.



Mr. Riyaj Pendhari  
CEO,  
PolyEdge Consultancy



Prof. S. A. Dopare  
Co-ordinator,  
3ds Max Club, AMGOI



Dr. J. M. Shinde  
Head,  
Department of Civil Engg.



Prof. P. B. Ghewari  
Vice Principal,  
AMGOI



PolyEdge Consultancy, Kolhapur

&

Ashokrao Mane Group of Institutions, Vathar



Department of Civil Engineering

# Certificate

This is to certify that

*Avinash Shivaji Kamble*

has successfully completed training workshop on  
**"Computer Aided Designing (CAD) with AutoCAD 2020"**  
Organized by Department of Civil Engineering during  
22 March 2024 to 31 May 2024.

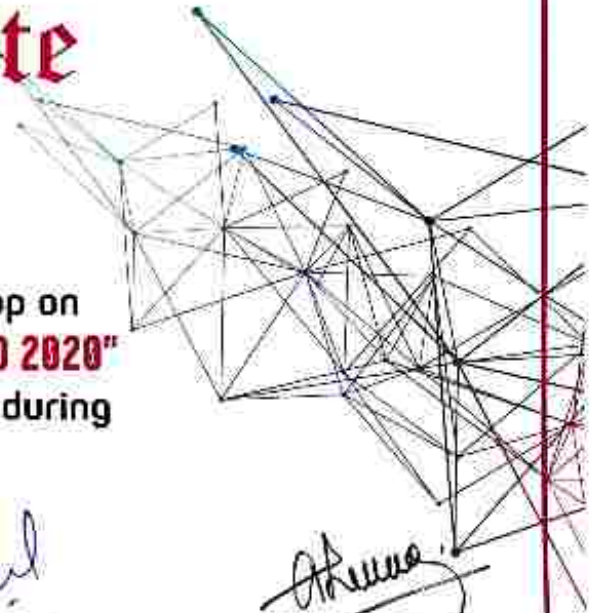


Mr. Riyaj Pendhari  
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PolyEdge Consultancy

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Co-ordinator,  
3ds Max Club, AMGOI

Dr. J. M. Shinde  
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Prof. P. B. Ghewari  
Vice Principal,  
AMGOI







PolyEdge Consultancy, Kolhapur

&

Ashokrao Mane Group of Institutions, Vathar



Department of Civil Engineering

# Certificate

This is to certify that

*Gayatri Ashok Patil*

has successfully completed training workshop on  
**"Computer Aided Designing (CAD) with AutoCAD 2020"**  
Organized by Department of Civil Engineering during  
22 March 2024 to 31 May 2024.

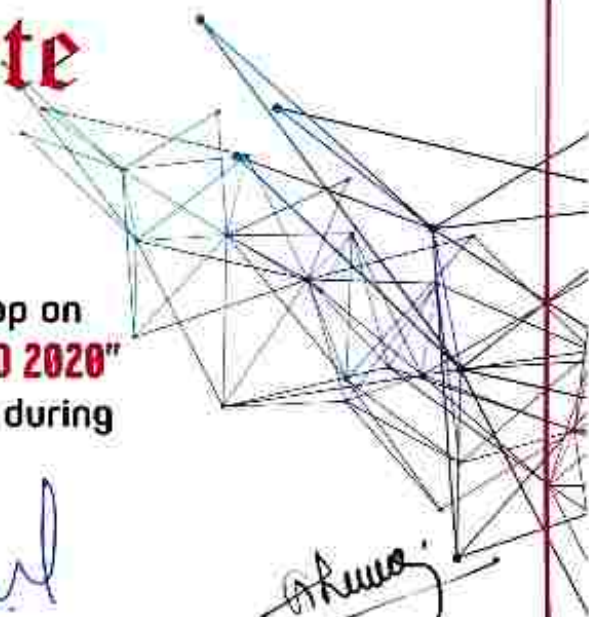


Mr. Riya, Pandhari  
CEO,  
PolyEdge Consultancy

Prof. S. A. Dopare  
Co-ordinator,  
3ds Max Club, AMGOI

Dr. J. M. Shinde  
Head,  
Department of Civil Engg.

Prof. P. B. Ghewari  
Vice Principal,  
AMGOI





Shri Balasaheb Mane Shikshan Prasarak Mandal's  
**ASHOKRAO MANE GROUP OF INSTITUTIONS**  
NH - 4, Vathar Tarf Vadgaon, Tal: -Hatkanangale, Dist: - Kolhapur-416112  
E-mail: [ipoi@amgoi.edu.in](mailto:ipoi@amgoi.edu.in), Website: [www.amgoi.org](http://www.amgoi.org)  
**TRAINING & PLACEMENT CELL**



Date: - 22/04/2024

**Training Report: Python Programming Training at Ashokrao Mane Group of Institutions**

**Date:** 20/04/2024

**Duration:** 15/04/2024 to 20/04/2024 (One Week)

**Participants:** Students of SY B.Tech Division A, B, and C, Department of Computer Science and Engineering (CSE) (Selected Students for Training Phase Cycle-II)

**Objective:** The Python Programming Training conducted by Fameux Technologies aimed to equip students with the fundamental concepts and practical skills necessary to develop proficiency in Python programming language.

**Training Overview:**

**Day 1: Introduction to Python**

- Overview of Python programming language.
- Basic syntax and data types.
- Hands-on exercises on variables, data types, and basic operations.

**Day 2: Control Structures and Functions**

- Conditional statements (if-else).
- Loops (for, while).
- Introduction to functions and their importance.
- Practical exercises to implement control structures and functions.

**Day 3: Data Structures**

- Lists, tuples, and dictionaries.
- Operations on data structures.
- Exercises on manipulating data structures.

**Day 4: File Handling and Modules**

- Reading and writing files in Python.
- Introduction to modules and libraries.
- Hands-on practice on file handling and importing modules.

**Day 5: Object-Oriented Programming (OOP)**

- Concepts of OOP: Classes and objects.
- Inheritance, encapsulation, and polymorphism.
- Practical implementation of OOP concepts.



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**Day 6: Advanced Topics**

- Exception handling.
- Regular expressions.
- Introduction to libraries such as NumPy, Pandas, and Matplotlib.

**Day 7: Project Day**


- Students worked on a mini-project to apply the concepts learned throughout the week.
- Guidance provided by trainers to solve problems and implement solutions effectively.

**Methodology:** The training sessions were conducted through a combination of lectures, interactive discussions, and hands-on coding exercises. Trainers emphasized practical learning by providing numerous coding exercises and projects to reinforce theoretical concepts.

**Feedback:** At the end of the training, students were asked to provide feedback on the overall experience. The majority of students expressed satisfaction with the training program, highlighting the clear explanations, engaging exercises, and practical relevance of the content.

**Conclusion:** The Python Programming Training conducted by Fameux Technologies at Ashokrao Mane Group of Institutions proved to be highly beneficial for the SY B.Tech students of the Department of CSE. By providing a comprehensive understanding of Python programming concepts and practical skills, the training has equipped students to pursue further studies and careers in software development, data analysis, and other fields.

  
Mr. A. B. Desai  
(IPC-CSE)

  
Prof. S. S. Redekar  
(HOD-CSE)  
Computer Science & Engineering  
AMGOI, Faculty of Engineering  
Vathar Tarf Vadgaon, Dist. Kolhapur

  
Prof. A. A. Uthale  
(TPO- AMGOI)





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**TRAINING & PLACEMENT CELL**



**Students Along with Python Trainers and Higher authorities**



**Training Activity**



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**Accredited by NAAC**

**Department of Training & Placement Cell**



Date: - 10/04/2024

## NOTICE

All SY CSE, students are hereby informed that Training and Placement Cell is going to organize Six days Python Programming training from 14/04/2024 to 20/04/2024. So attend the training sincerely

**Location for Training:-**

**CSE Lab**

**Note: - Attendance for this training is compulsory. The students having 100% attendance will be considered for further placement drive.**

**Head- Training Placement  
Prof. A. A. Uthale**









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Roll. No	Name of the Student	Monday (15/04/24)		Tuesday (16/04/24)		Wednesday (17/04/24)	
		Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
39	sumitshamraoshinde	<i>Sumit</i>	<i>Sumit</i>	<i>Sumit</i>	<i>Sumit</i>	<i>Sumit</i>	<i>Sumit</i>
40	SushantGanpatiShinde	<i>Sushant</i>	<i>Sushant</i>	<i>Sushant</i>	<i>Sushant</i>	<i>Sushant</i>	<i>Sushant</i>
41	AbhinandanSuryawanshi	<i>Abhinandan</i>	<i>Abhinandan</i>	<i>Abhinandan</i>	<i>Abhinandan</i>	<i>Abhinandan</i>	<i>Abhinandan</i>
42	jufenfarooqtorgal	<i>Jufen</i>	<i>Jufen</i>	<i>Jufen</i>	<i>Jufen</i>	<i>Jufen</i>	<i>Jufen</i>
44	prashantpandurangvadd	<i>Prashant</i>	<i>Prashant</i>	<i>Prashant</i>	<i>Prashant</i>	<i>Prashant</i>	<i>Prashant</i>
59	SakshiArunJadhav	<i>Sakshi</i>	<i>Sakshi</i>	<i>Sakshi</i>	<i>Sakshi</i>	<i>Sakshi</i>	<i>Sakshi</i>
60	MADHURA ARVIND KADAM	<i>Madhura</i>	<i>Madhura</i>	<i>Madhura</i>	<i>Madhura</i>	<i>Madhura</i>	<i>Madhura</i>
61	anjalipradeepkamble	<i>Anjali</i>	<i>Anjali</i>	<i>Anjali</i>	<i>Anjali</i>	<i>Anjali</i>	<i>Anjali</i>
63	Sneha Kumar Kupate	<i>S.K. Kupate</i>	<i>S.K. Kupate</i>	<i>S.K. Kupate</i>	<i>S.K. Kupate</i>	<i>S.K. Kupate</i>	<i>S.K. Kupate</i>
64	Yashshreesanjaykurle	<i>Yashkurle</i>	<i>Yashkurle</i>	<i>Yashkurle</i>	<i>Yashkurle</i>	<i>Yashkurle</i>	<i>Yashkurle</i>
66	PoonamDattatrayNale	<i>Poonam</i>	<i>Poonam</i>	<i>Poonam</i>	<i>Poonam</i>	<i>Poonam</i>	<i>Poonam</i>
68	Pradnyapandurangpatil	<i>Pradnya</i>	<i>Pradnya</i>	<i>Pradnya</i>	<i>Pradnya</i>	<i>Pradnya</i>	<i>Pradnya</i>
70	Vaishnavi Ramesh Petkar	<i>Vaishnavi</i>	<i>Vaishnavi</i>	<i>Vaishnavi</i>	<i>Vaishnavi</i>	<i>Vaishnavi</i>	<i>Vaishnavi</i>
71	shrutikamaheshpotdar			<i>Shrutika</i>	<i>Shrutika</i>	<i>Shrutika</i>	<i>Shrutika</i>
73	Eshaanilbhaivachhani	<i>Eshaanil</i>	<i>Eshaanil</i>	<i>Eshaanil</i>	<i>Eshaanil</i>	<i>Eshaanil</i>	<i>Eshaanil</i>
74	SnehaKrishnatPatil	<i>Sneha</i>	<i>Sneha</i>	<i>Sneha</i>	<i>Sneha</i>	<i>Sneha</i>	<i>Sneha</i>
76	ChaitraliMarutiKhade	<i>Chaitrali</i>	<i>Chaitrali</i>	<i>Chaitrali</i>	<i>Chaitrali</i>	<i>Chaitrali</i>	<i>Chaitrali</i>
77	Nikita BabasotLokhande					<i>Nikita</i>	<i>Nikita</i>

65 Sadika Sameer Mujawar *Sadika* *Sameer*

69 <sup>(A)</sup> Rutuja Ashok Patil *Rutuja* *Ashok*

(Prof. A. B. Desai)  
TPC-CSE









# ASHOKRAO MANE GROUP OF INSTITUTIONS

NH - 4, VatharTarfVadgaon, Tal: -Hatkanangale, Dist: - Kolhapur-416112

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		Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
41	rohittukaramshipekar	<u>Rohitkar</u>	<u>Rohitkar</u>	<u>Rohitkar</u>	<u>Rohitkar</u>	<u>Rohitkar</u>	<u>Rohitkar</u>
42	Abhaysinh Ashok Yadav	<u>Abhay</u>	<u>Abhay</u>	<u>Abhay</u>	<u>Abhay</u>	<u>Abhay</u>	<u>Abhay</u>
49	MandarMahadevHiremath	<u>M.Hiremath</u>	<u>M.Hiremath</u>	<u>M.Hiremath</u>	<u>M.Hiremath</u>	<u>M.Hiremath</u>	<u>M.Hiremath</u>
54	Anjali JayavantSatpute	<u>A.J.Satpute</u>	<u>A.J.Satpute</u>	<u>A.J.Satpute</u>	<u>A.J.Satpute</u>	<u>A.J.Satpute</u>	<u>A.J.Satpute</u>
55	sanikavijaybenake	<u>Sanika</u>	<u>Sanika</u>	<u>Sanika</u>	<u>Sanika</u>	<u>Sanika</u>	<u>Sanika</u>
57	TruptiSurendraChavan	<u>T.S.Ch</u>	<u>T.S.Ch</u>	<u>T.S.Ch</u>	<u>T.S.Ch</u>	<u>T.S.Ch</u>	<u>T.S.Ch</u>
59	ShrutiVijayGharpankar	<u>Shruti</u>	<u>Shruti</u>	<u>Shruti</u>	<u>Shruti</u>	<u>Shruti</u>	<u>Shruti</u>
61	AnujaRavindraKokitkar	<u>Anuja</u>	<u>Anuja</u>	<u>Anuja</u>	<u>Anuja</u>	<u>Anuja</u>	<u>Anuja</u>
65	Aishwarya Vilas Patil	<u>Aishwarya</u>	<u>Aishwarya</u>	<u>Aishwarya</u>	<u>Aishwarya</u>	<u>Aishwarya</u>	<u>Aishwarya</u>
66	MrunalRamchandraPatil	<u>Mrunal</u>	<u>Mrunal</u>	<u>Mrunal</u>	<u>Mrunal</u>	<u>Mrunal</u>	<u>Mrunal</u>
67	SaniyaNitinPatil	<u>Saniya</u>	<u>Saniya</u>	<u>Saniya</u>	<u>Saniya</u>	<u>Saniya</u>	<u>Saniya</u>
69	Sakshirameshpatole	<u>Sakshi</u>	<u>Sakshi</u>	<u>Sakshi</u>	<u>Sakshi</u>	<u>Sakshi</u>	<u>Sakshi</u>
70	ShwetaNileshPise	<u>Shweta</u>	<u>Shweta</u>	<u>Shweta</u>	<u>Shweta</u>	<u>Shweta</u>	<u>Shweta</u>
72	NutanMarutiSarnobat	<u>Nutan</u>	<u>Nutan</u>	<u>Nutan</u>	<u>Nutan</u>	<u>Nutan</u>	<u>Nutan</u>
74	TejalTukaramYamkar	<u>Tejal</u>	<u>Tejal</u>	<u>Tejal</u>	<u>Tejal</u>	<u>Tejal</u>	<u>Tejal</u>
76	Sudhasani Maruti Bhise	<u>Sudhasani</u>	<u>Sudhasani</u>	<u>Sudhasani</u>	<u>Sudhasani</u>	<u>Sudhasani</u>	<u>Sudhasani</u>
52	Sakshi Anil Mahapure	<u>Sakshi</u>	<u>Sakshi</u>	<u>Sakshi</u>	<u>Sakshi</u>	<u>Sakshi</u>	<u>Sakshi</u>

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## TRAINING & PLACEMENT CELL

### PYTHON PROGRAMMING TRAINING ATTENDANCE SHEET A.Y. (2023-24)

Date: 15/04/2024 to 20/04/2024	Time:-09:30 AM to 4:30 PM
Training on: Python Programming	Location:- Seminar Hall
Name of Department :- Computer Science & Engineering	Class:- S.Y ( A Div)

Roll. No	Name of the Student	Friday (19/04/24)		Saturday(20/04/24)			
		Morning	Afternoon	Morning	Afternoon		
4	Shubham Appaso Buddhe	<del>Shubham</del>	<del>Shubham</del>	<del>Shubham</del>	<del>Shubham</del>		
6	Rohan Sanjay Chougule	<del>Rohant</del>	<del>Rohant</del>	<del>Rohant</del>	<del>Rohant</del>		
7	Ashish Krushnat Dhumbal	<del>Ashish</del>	<del>Ashish</del>	<del>Ashish</del>	<del>Ashish</del>		
10	Sushil Pravin Godbole	<del>Sushil</del>	<del>Sushil</del>	<del>Sushil</del>	<del>Sushil</del>		
P 12	kiran sanjay jadhav	<del>K</del>	<del>K</del>	<del>K</del>	<del>K</del>		
13	Sharon Balasaheb Jirage	<del>Sharon</del>	<del>Sharon</del>	<del>Sharon</del>	<del>Sharon</del>		
P 15	Kaji Mohammadumer Amjad	<del>Kaji</del>	<del>Kaji</del>	<del>Kaji</del>	<del>Kaji</del>		
19	Kharshinge Tejas Gajanan	<del>OK</del>	<del>OK</del>	<del>OK</del>	<del>OK</del>		
20	shubham prakash koge	<del>Sh</del>	<del>Sh</del>	<del>Sh</del>	<del>Sh</del>		
21	onkar raghunath kotamire	<del>Kotamire</del>	<del>Kotamire</del>	<del>Kotamire</del>	<del>Kotamire</del>		
P 23	mohan chintaman mahajan	<del>M</del>	<del>M</del>	<del>M</del>	<del>M</del>		
P 24	Shivprasad Satish Mali	<del>SM</del>	<del>SM</del>	<del>SM</del>	<del>SM</del>		
P 26	PRANAV NAGNATH MANE	<del>P</del>	<del>P</del>	<del>P</del>	<del>P</del>		
P 27	piyush jivaji patil	<del>Patil</del>	<del>Patil</del>	<del>Patil</del>	<del>Patil</del>		
P 29	Sainath Baburao Nandiwale	<del>Nandiwale</del>	<del>Nandiwale</del>	<del>Nandiwale</del>	<del>Nandiwale</del>		
P 31	Aditya Lalaso Patil	<del>Patil</del>	<del>Patil</del>	<del>Patil</del>	<del>Patil</del>		
32	Dayanand Mahadaji Patil	<del>Patil</del>	<del>Patil</del>	<del>Patil</del>	<del>Patil</del>		
36	Nikhil Pradip Patra	<del>Patra</del>	<del>Patra</del>	<del>Patra</del>	<del>Patra</del>		
37	sangram ramchandra pawar	<del>Patra</del>	<del>Patra</del>	<del>Patra</del>	<del>Patra</del>		



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		Morning	Afternoon	Morning	Afternoon		
46	Harshvardhan Umesh Sarnobat	Jus	Jus	Jus	Jus	/	
48	Prathamesh Uttam Patil			Uppatil	Uppatil		
50 P	Vaishnavi Arjun Gode	Gode	Gode	Gode			
52 P	Bhakti Pravin Chougule	B. Chougule	B. Chougule	B. Chougule			
53	Sanjana Lalaso Mane						
56 P	Tasmiya Akhtar Attar	Jattar	Jattar	Jattar	Jattar		
57 P	Apurva Sanjay Deuskar	Fauln	Fauln	Fauln	Fauln		
58	Vaishnavi Vasant Ghatage	V. Ghatage	V. Ghatage				
60 P	vaishnavi sanjay khade	Khade	Khade	Khade			
61 P	Sakshi Rajendra Kumbhar	Kumbhar	Kumbhar	Kumbhar			
62 P	Vaishnavi Adhikrao Patil	Patil	Patil	Patil			
67 P	sakshi sandip vibhute						
72 P	Sulochana Manbahadur Vishwakarma						
73 P	sanika sarjerao savant	Savant	Savant	Savant			
75 P	Aarti Dnyandeo kite	Patil Kite	Patil Kite	Patil Kite			

60 P Shruti Vijay kalekar Kalekar Kalekar Kalekar

(Prof. A. B. Desai)  
TPC-CSE





ShriBalasaheb Mane Shikshan Prasarak M: of's

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		Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
4	ShubhamAppasoBuddhe	AB	AB	AB	AB	AB	AB
6	Rohan Sanjay Chougule	AB	AB	AB	AB	AB	AB
7	AshishKrushnatDhumal	AB	AB	AB	AB	AB	AB
10	SushilPravinGodbole	AB	AB	AB	AB	AB	AB
12	kiransanjayjadhav	AB	AB	AB	AB	AB	AB
13	Sharon Balasaheblirage	AB	AB	AB	AB	AB	AB
15	KajiMohammadumerAmjad	AB	AB	AB	AB	AB	AB
19	KharshingeTejasGajanan	AB	AB	AB	AB	AB	AB
20	shubhamprakashkoge	AB	AB	AB	AB	AB	AB
21	onkarraghunathkotamire	AB	AB	AB	AB	AB	AB
23	mohanchintamanmahajan	AB	AB	AB	AB	AB	AB
24	ShivprasadSatish Mall	AB	AB	AB	AB	AB	AB
26	PRANAV NAGNATH MANE	AB	AB	AB	AB	AB	AB
27	piyushjivajpatil	AB	AB	AB	AB	AB	AB
29	SainathBaburaoNandiwale	AB	AB	AB	AB	AB	AB
31	AdityaLalasoPatil	AB	AB	AB	AB	AB	AB
32	DayanandMahadajiPatil	AB	AB	AB	AB	AB	AB
36	Nikhil PradipPatra	AB	AB	AB	AB	AB	AB
37	sangramramchandrapawar	AB	AB	AB	AB	AB	AB





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		Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
46	HarshvardhanUmeshSarnobat	Jus	Jus	Jus	Jus	Jus	Jus
48	PrathameshUttamPatil	Upatil	Upatil	Patil	Prathamesh Patil	Patil	Patil
50	VaishnaviArjunGode	Gode	Gode	Gode	Gode	Gode	Gode
52	Bhakti PravinChougule	B. chougule	B. chougule	B. chougule	B. chougule	B. chougule	B. chougule
53	SanjanaLalaso Mane	AB	AB	AB	AB	AB	AB
56	TasmiyaAkhtar Attar	Jattar	Jattar	Jattar	Jattar	Jattar	Jattar
57	Apurva Sanjay Deuskar	Faus	Faus	Faus	Faus	Faus	Faus
58	VaishnaviVasantGhatage	Ghatage	Ghatage	Ghatage	Ghatage	Ghatage	Ghatage
60	vaishnavisanjaykhade	Khade	Khade	Khade	Khade	Khade	Khade
61	SakshiRajendraKumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar
62	VaishnaviAdhikraoPatil	Patil	Patil	Patil	Patil	Patil	Patil
67	sakshisandipvbhute	Bhute	Bhute	Bhute	Bhute	Bhute	Bhute
72	SulochanaManbahadurVishwakarma	Karma	Karma	Karma	Karma	Karma	Karma
73	sanikasarJerao savant	Savant	Savant	Savant	Savant	Savant	Savant
75	AartiDnyandeo kite	Artikite	Artikite	Artikite	Artikite	Artikite	Artikite

60. Shruuti vijay kalekar : Kalekar Kalekar Kalekar Kalekar Kalekar Kalekar

(A)

(Prof A. B. Desai)  
TPC-CSE



Shri Balasaheb Mane Shikshan Prasarak Mandal's

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## TRAINING & PLACEMENT CELL

### PYTHON PROGRAMMING TRAINING ATTENDANCE SHEET A.Y. (2023-24)

Date: 15/04/2024 to 20/04/2024	Time:-09:30 AM to 4:30 PM
Training on: Python Programming	Location:- Seminar Hall
Name of Department :- Computer Science & Engineering	Class:- S.Y ( B Div)

Roll. No	Name of the Student	Friday (19/04/24)		Saturday(20/04/24)		Morning	Afternoon
		Morning	Afternoon	Morning	Afternoon		
1 P	Shaikh Ansari	Shaikh Ansari	Shaikh Ansari	Shaikh Ansari	Shaikh Ansari	/	
2 P	Jayesh Pramod Atpadkar	Jayesh	Jayesh	Jayesh	Jayesh		
3 P	Vivek Raghunath Bachate	Vivek	Vivek	Vivek	Vivek		
5 P	Prasad Yuvaraj Chavan	Prasad	Prasad	Prasad	Prasad		
9	Manthan Mahadev Gawas	Manthan	Manthan	Manthan			
10 P	Rohan Kondiram Jadhav	Rohan	Rohan	Rohan			
11 P	Ivan Dagadu Kamble	Ivan	Ivan	Ivan			
13	Pravin Rajendra Kamble	Pravin	Pravin	Pravin	Pravin		
15	Aniket Sandip Kharpude	Aniket	Aniket	Aniket			
19	Ranjeetsingh Rajendra Mandake	Ranjeet	Ranjeet				
21 P	Sumit Suresh Pant	Sumit	Sumit	Sumit	Sumit		
25 P	Pradip Vikas Patil	Pradip	Pradip	Pradip			
30	Aditya Dayanand Pawar	Aditya	Aditya	Aditya			
31 P	Ritesh Krishnat Mali	Ritesh	Ritesh	Ritesh	Ritesh		
32	Rohit Rajendra Mne	Rohit	Rohit	Rohit			
34	Sanket Salokhe	Sanket	Sanket	Sanket			
35	Mayur Shahaji Salunkhe	Mayur	Mayur	Mayur	Mayur		
37	Sahil Vilas Sawant	Sahil	Sahil	Sahil			
38 P	EESHAN MOHD RAFIQ SHIAKH	Eeshan	Eeshan	Eeshan	Eeshan		



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Roll No	Name of the Student	Friday (19/04/24)		Saturday (20/04/24)		Morning	Afternoon
		Morning	Afternoon	Morning	Afternoon		
41 P	rohit tukaram shipekar	<del>Shipekar</del>	<del>Shipekar</del>	<del>Shipekar</del>	<del>Shipekar</del>		
42 P	Abhaysinh Ashok Yadav	<del>Yadav</del>	<del>Yadav</del>	<del>Yadav</del>	<del>Yadav</del>		
49	Mandar Mahadev Hiremath	<del>Hiremath</del>	<del>Hiremath</del>	<del>Hiremath</del>	<del>Hiremath</del>		
54	Anjali Jayavant Satpute	<del>A.J. Satpute</del>	<del>A.J. Satpute</del>	<del>A.J. Satpute</del>	<del>A.J. Satpute</del>		
55 P	sanika vijay benake	<del>Benake</del>	<del>Benake</del>	<del>Benake</del>	<del>Benake</del>		
57 P	Trupti Surendra Chavan	<del>Chavan</del>	<del>Chavan</del>	<del>Chavan</del>	<del>Chavan</del>		
59 P	Shruti Vijay Gharpankar	<del>Gharpankar</del>	<del>Gharpankar</del>	<del>Gharpankar</del>	<del>Gharpankar</del>		
61 P	Anuja Ravindra Kokitkar	<del>Kokitkar</del>	<del>Kokitkar</del>	<del>Kokitkar</del>	<del>Kokitkar</del>		
63 P	Aishwarya Vilas Patil	<del>Patil</del>	<del>Patil</del>	<del>Patil</del>	<del>Patil</del>		
66 P	Mrunal Ramchandra Patil	<del>Patil</del>	<del>Patil</del>	<del>Patil</del>	<del>Patil</del>		
67 P	Saniya Nitin Patil	<del>Patil</del>	<del>Patil</del>	<del>Patil</del>	<del>Patil</del>		
69	Sakshi ramesh patole	<del>Patole</del>	<del>Patole</del>	<del>Patole</del>	<del>Patole</del>		
70 P	Shweta Nilesh Pise	<del>Pise</del>	<del>Pise</del>	<del>Pise</del>	<del>Pise</del>		
72 P	Nutan Maruti Sarnobat	<del>Sarnobat</del>	<del>Sarnobat</del>	<del>Sarnobat</del>	<del>Sarnobat</del>		
74 P	Tejal Tukaram Yamkar	<del>Yamkar</del>	<del>Yamkar</del>	<del>Yamkar</del>	<del>Yamkar</del>		

76P Sudharani Maruti Bhise ~~Bhise~~  
 52P Sakshi Anil Mahapure ~~Mahapure~~

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Training on: Python Programming	Location:- Seminar Hall
Name of Department :- Computer Science & Engineering	Class:- S.Y ( C Div)

Roll. No.	Name of the Student	Friday (19/04/24)		Saturday(20/04/24)		Morning	Afternoon
		Morning	Afternoon	Morning	Afternoon		
2	Jayraj Sajjanrao Bhosale	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>		
4	sanket chougule	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>		
7	Akshay Rajaram Gaikwad	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>		
8	Govind Sahadev Gaikwad	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>		
10	suraj chandrakant hamidwade	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>		
11	Niraj Nitin Kadam	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>		
P 12	pruthviraj maruti kadam	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>		
14	Onkar Suresh Kharude	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>		
16	Santosh raju koli	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>		
18	shridhar gajanan kumbhar	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>		
P 23	Om Nandkishor Mane	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>		
P 25	Prathamesh Tukaram Mhetar	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>		
P 28	Ubed Salim Momin	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>		
P 29	Shriyash Rajendra Motkatte	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>		
30	Rohit Dilip Dhavare	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>		
P 31	parmeshwar nivrutti pandhare	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>		
P 33	Sangram Madhukar Patil	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>		
P 35	Shivtej Suhas Patil	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>		
P 37	Yugandhar dilip patil	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>		





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## TRAINING & PLACEMENT CELL

Roll. No	Name of the Student	Friday (19/04/24)		Saturday (20/04/24)		Morning	Afternoon
		Morning	Afternoon	Morning	Afternoon		
P 39	sumit shamrao shinde	<u>Sumit</u>	<u>Sumit</u>	<u>Sumit</u>	<u>Sumit</u>		
P 40	Sushant Ganjrati Shinde	<u>Sushant</u>	<u>Sushant</u>	<u>Sushant</u>	<u>Sushant</u>		
P 41	Abhinandan Suryawanshi	<u>Abhinandan</u>	<u>Abhinandan</u>	<u>Abhinandan</u>	<u>Abhinandan</u>		
P 42	Jufen farooq torgal	<u>Jufen</u>	<u>Jufen</u>	<u>Jufen</u>	<u>Jufen</u>		
P 44	prashant pandurang vadd	<u>Prashant</u>	<u>Prashant</u>	<u>Prashant</u>	<u>Prashant</u>		
59	Sakshi Arun Jadhav	<u>Sakshi</u>	<u>Sakshi</u>	<u>Sakshi</u>	<u>Sakshi</u>		
P 60	MADHURA ARVIND KADAM	<u>Madhura</u>	<u>Madhura</u>	<u>Madhura</u>	<u>Madhura</u>		
P 61	anjali pradeep kamble	<u>Anjali</u>	<u>Anjali</u>	<u>Anjali</u>	<u>Anjali</u>		
P 63	Sneha Kumar Kupate	<u>S.K. Kupate</u>	<u>S.K. Kupate</u>	<u>S.K. Kupate</u>	<u>S.K. Kupate</u>		
P 64	Yashshree sanjay kurlle	<u>Yashshree</u>	<u>Yashshree</u>	<u>Yashshree</u>	<u>Yashshree</u>		
P 66	Poonam Dattatray Nale	<u>Poonam</u>	<u>Poonam</u>	<u>Poonam</u>	<u>Poonam</u>		
68	Pradnya pandurang patil	<u>Pradnya</u>	<u>Pradnya</u>	<u>Pradnya</u>	<u>Pradnya</u>		
P 70	Vaishnavi Ramesh Petkar	<u>Vaishnavi</u>	<u>Vaishnavi</u>	<u>Vaishnavi</u>	<u>Vaishnavi</u>		
P 71	shrutika mahesh potdar	<u>Shrutika</u>	<u>Shrutika</u>	<u>Shrutika</u>	<u>Shrutika</u>		
73	Esha anilbhai vachhani	<u>Esha</u>	<u>Esha</u>	<u>Esha</u>	<u>Esha</u>		
P 74	Sneha Krishnat Patil	<u>Sneha</u>	<u>Sneha</u>	<u>Sneha</u>	<u>Sneha</u>		
P 76	Chaitrali Maruti Khade	<u>Chaitrali</u>	<u>Chaitrali</u>	<u>Chaitrali</u>	<u>Chaitrali</u>		
77	Nikita Babaso Lokhande	<u>Nikita</u>	<u>Nikita</u>	<u>Nikita</u>	<u>Nikita</u>		
P 69	Rutuja Ashok Patil	<u>Rutuja</u>	<u>Rutuja</u>	<u>Rutuja</u>	<u>Rutuja</u>		
P 65	Sodika Sameer Mujawar	<u>Sodika</u>	<u>Sodika</u>	<u>Sodika</u>	<u>Sodika</u>		

(Prof. A. B. Desai)  
TPC-CSE



## Department of Training & Placement Cell

Thank you for attending three days offline Training "Five Python " from 14/4/24 to 20/4/24. We hope that you found the activity interesting and that we met your expectations. We would be very grateful if you could take a moment to complete the Feedback Form. Your comments will assist us in improving future activities that we will organize.

Scale: 1 - STRONGLY AGREE, 2 - AGREE, 3 - NEUTRAL, 4 - DISAGREE, 5 - STRONGLY DISAGREE

Please fill the appropriate number for all statements and provide feedback in the comments box

	(1)	(2)	(3)	(4)	(5)
<b>Training Objectives</b>					
The objectives of the training were clearly defined		✓			
The content of the training supported the objectives	✓				
The trainer was knowledgeable about the training topics	✓				
The topics were well organized and easy to follow		✓			
How would you rate the focus and structure of the training course?		✓			
<b>Training Material</b>					
Easy to follow and Navigate ( e.g. Slides, Handouts etc)	✓				
The course material was appropriate to background and experience of students	✓				
Training Material was useful and easy to understand	✓				
<b>Content Relevance</b>					
This training experience will be useful in the future		✓			
Training will help to clear aptitude of software companies		✓			
Instructional methods used during mentoring were effective	✓				
<b>Facilitator</b>					
The trainers created a professional and comfortable learning environment	✓				
The trainers showed confidence in the subject matter	✓				
The trainers handled classroom distractions appropriately		✓			
Appropriate examples were provided during session		✓			
Trainer handled questions that were asked during the session	✓				
<b>Comments</b>					
What topics would you have liked to have spent more time on? <u>I like the topic python library, numpy, pandas.</u>					
Do you have any suggestions for future Training Sessions that you would like us to organize? <u>—</u>					
What new skills have you learnt from the event that you think you will be able to put into practice? <u>How to create new python program.</u>					
Any Other Suggestions: <u>—</u>					

Trainer's Evaluation:	Average	Good	Very Good	Excellent
1.				
2.				
3.				
4.				

Thank you for participating, we appreciate your feedback!!!

Signature





## Department of Training & Placement Cell

Thank you for attending <sup>five</sup> ~~three~~ days offline Training " Python " from 11/3/24 to 20/3/24 . We hope that you found the activity interesting and that we met your expectations. We would be very grateful if you could take a moment to complete the Feedback Form. Your comments will assist us in improving future activities that we will organize.

Scale: 1-STRONGLY AGREE, 2-AGREE, 3-NEUTRAL, 4-DISAGREE, 5-STRONGLY DISAGREE

Please tick the appropriate number for all statements & provide feedback in the comments box

	(1)	(2)	(3)	(4)	(5)
<b>OBJECTIVES AND CONTENT</b>					
The objectives of the training were clearly defined	✓				
The content of the training supported the objectives	✓				
The trainer was knowledgeable about the training topics		✓			
The topics were well organized and easy to follow		✓			
How would you rate the focus and structure of the training course?	✓				
<b>TOOLS AND MATERIAL</b>					
Easy to follow and navigate ( e.g. Slides, Handouts etc)	✓				
The course material was appropriate to background and experience of students	✓				
Training Material was useful and easy to understand	✓				
<b>CONTENT RELEVANCE</b>					
This training experience will be useful in the future	✓				
Training will help to clear aptitude of software companies	✓				
Instructional methods used during mentoring were effective	✓				
<b>TRAINER</b>					
The trainers created a professional and comfortable learning environment	✓				
The trainers showed confidence in the subject matter	✓				
The trainers handled classroom distractions appropriately	✓				
Appropriate examples were provided during session	✓				
Trainer handled questions that were asked during the session	✓				
<b>COMMENTS</b>					
What topics would you have liked to have spent more time on?					
<u>Basic in installation of jupiter leaon</u>					
Do you have any suggestions for future Training Sessions that you would like us to organize?					
<u>mini project with the help of python language interested</u>					
What new skills have you learnt from the event that you think you will be able to put into practice?					
Any Other Suggestions:					
<u>This language having less complexity other e.g c++ compus</u>					
<b>PERFORMANCE EVALUATION</b>					
1. <u>Teaching Skill</u>	Average	Good	Very Good	Excellent	
2. <u>Installation process</u>		✓			
3.		✓			
4.					

Thank you for participating, we appreciate your feedback!!!

Vinay Thorat  
①

Signature



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## TRAINING & PLACEMENT CELL

Date: - 16/03/2024

### Training Report: Python Programming Training at Ashokrao Mane Group of Institutions

**Date:** 16/03/2024

**Duration:** 11/03/2024 to 16/03/2024 (One Week)

**Participants:** Students of SY B.Tech Division A, B, and C, Department of Computer Science and Engineering (CSE) (Selected Students for Training Phase Cycle-I)

**Objective:** The Python Programming Training conducted by Famous Technologies aimed to equip students with the fundamental concepts and practical skills necessary to develop proficiency in Python programming language.

#### Training Overview:

##### Day 1: Introduction to Python

- Overview of Python programming language.
- Basic syntax and data types.
- Hands-on exercises on variables, data types, and basic operations.

##### Day 2: Control Structures and Functions

- Conditional statements (if-else).
- Loops (for, while).
- Introduction to functions and their importance.
- Practical exercises to implement control structures and functions.

##### Day 3: Data Structures

- Lists, tuples, and dictionaries.
- Operations on data structures.
- Exercises on manipulating data structures.

##### Day 4: File Handling and Modules

- Reading and writing files in Python.
- Introduction to modules and libraries.
- Hands-on practice on file handling and importing modules.

##### Day 5: Object-Oriented Programming (OOP)

- Concepts of OOP: Classes and objects.





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- Inheritance, encapsulation, and polymorphism.
- Practical implementation of OOP concepts.

### Day 6: Advanced Topics

- Exception handling.
- Regular expressions.
- Introduction to libraries such as NumPy, Pandas, and Matplotlib.

### Day 7: Project Day

- Students worked on a mini-project to apply the concepts learned throughout the week.
- Guidance provided by trainers to solve problems and implement solutions effectively.

**Methodology:** The training sessions were conducted through a combination of lectures, interactive discussions, and hands-on coding exercises. Trainers emphasized practical learning by providing numerous coding exercises and projects to reinforce theoretical concepts.

**Feedback:** At the end of the training, students were asked to provide feedback on the overall experience. The majority of students expressed satisfaction with the training program, highlighting the clear explanations, engaging exercises, and practical relevance of the content.

**Conclusion:** The Python Programming Training conducted by Fameux Technologies at Ashokrao Mane Group of Institutions proved to be highly beneficial for the SY B.Tech students of the Department of CSE. By providing a comprehensive understanding of Python programming concepts and practical skills, the training has equipped students to pursue further studies and careers in software development, data analysis, and other fields.

Mr. A. B. Desai  
(TPC-CSE)

Prof. S. S. Redekar  
(HOD-CSE)  
Computer Science & Engineering  
AMGOI, Faculty of Engineering  
Vathar Tarf Vadgaon, Dist. Kolhapur

Prof. U. A. Uthale  
(TPO- AMGOI)



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Students Along with Trainer and Higher authority



Training Session





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Department of Training & Placement Cell



Date: - 08/03/2024

## NOTICE

All SY CSE, students are hereby informed that Training and Placement Cell is going to organize Six days Python Programming training from 11/03/2024 to 16/03/2024. So attend the training sincerely.

**Location for Training:-**

**CSE Lab**

**Note: - Attendance for this training is compulsory. The students having 100% attendance will be considered for further placement drive.**

**Head- Training Placement  
Prof. A. A. Uthale**







Shri Balasaheb Mane Shikshan Prasarak Mandal's

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## TRAINING & PLACEMENT CELL

Roll. No	Name of the Student	Monday (11/03/24)		Tuesday (12/03/24)		Wednesday (13/03/24)	
		Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
44	Krishna Motilal Yadav	Keishna	Keishna	Keishna	Keishna	Keishna	Keishna
47	prakash maruti patil	Patil	Patil	Patil	Patil	Patil	Patil
49	Aditya Suresh Idate	Idate	Idate	Idate	Idate	Idate	Idate
51	Vinita Vaerendra Patil	Patil	Patil	Patil	Patil	Patil	Patil
54	Vaishnavi Bharat Patil	Patil	Patil	Patil	Patil	Patil	Patil
55	swarada sachin athave	Athave	Athave	Athave	Athave	Athave	Athave
59	Shravani Vijay Kadam	Kadam	Kadam	Kadam	Kadam	Kadam	Kadam
63	sadhana kempana mang	Kempana	Kempana	Kempana	Kempana	Kempana	Kempana
64	komal sanjay patil	Patil	Patil	Patil	Patil	Patil	Patil
65	sanika Dinkar Patil	Patil	Patil	Patil	Patil	Patil	Patil
66	SAYALI PANDURANG PATIL	Patil	Patil	Patil	Patil	Patil	Patil
70	Pranjali Tanaji Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav
71	Sakshi Rahul Sase	Sase	Sase	Sase	Sase	Sase	Sase
74	Anuradha Pandurang Shinge	Shinge	Shinge	Shinge	Shinge	Shinge	Shinge
76	Rotan Ranjit Patil	Patil	Patil	Patil	Patil	Patil	Patil
77	Samruddhi Sandip Shingave	S.S.S.	S.S.S.	S.S.S.	S.S.S.	S.S.S.	S.S.S.
	Ashish Ware	Ware	Ware	Ware	Ware	Ware	Ware

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## TRAINING & PLACEMENT CELL

Roll. No	Name of the Student	Monday (11/03/24)		Tuesday (12/03/24)		Wednesday (13/03/24)	
		Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
43	Siddharth Tanaji Zalake	<u>Szalake</u>	<u>Szalake</u>	<u>Szalake</u>	<u>Szalake</u>	<u>Szalake</u>	<u>Szalake</u>
46	Pranay Prakash Shinde	<u>Pshinde</u>	<u>Pshinde</u>	<u>Pshinde</u>	<u>Pshinde</u>	<u>Pshinde</u>	<u>Pshinde</u>
47	Sandesh Shahaji Jadhav	<u>SJadhav</u>	<u>SJadhav</u>	<u>SJadhav</u>	<u>SJadhav</u>	<u>SJadhav</u>	<u>SJadhav</u>
48	Vaibhav Ramchandra Patil	<u>VPatil</u>	<u>VPatil</u>	<u>VPatil</u>	<u>VPatil</u>	<u>VPatil</u>	<u>VPatil</u>
50	Sakshi Vasant Patil	<u>SPatil</u>	<u>SPatil</u>	<u>SPatil</u>	<u>SPatil</u>	<u>SPatil</u>	<u>SPatil</u>
51	Snehal Kuber Chavan	<u>SKChavan</u>	<u>SKChavan</u>	<u>SKChavan</u>	<u>SKChavan</u>	<u>SKChavan</u>	<u>SKChavan</u>
53	Iyoti Bajirao Patil	<u>IPatil</u>	<u>IPatil</u>	<u>IPatil</u>	<u>IPatil</u>	<u>IPatil</u>	<u>IPatil</u>
58	SHARVARI SANTAJI DESAI	<u>SDesai</u>	<u>SDesai</u>	<u>SDesai</u>	<u>SDesai</u>	<u>SDesai</u>	<u>SDesai</u>
60	Tahura Imran Hakim	<u>Tahura</u>	<u>Tahura</u>	<u>Tahura</u>	<u>Tahura</u>	<u>Tahura</u>	<u>Tahura</u>
62	Bhakti Avinash Kulkarni	<u>BKulkarni</u>	<u>BKulkarni</u>	<u>BKulkarni</u>	<u>BKulkarni</u>	<u>BKulkarni</u>	<u>BKulkarni</u>
63	Shraddha Vinod Mudage	<u>S.v.mudage</u>	<u>S.v.mudage</u>	<u>S.v.mudage</u>	<u>S.v.mudage</u>	<u>S.v.mudage</u>	<u>S.v.mudage</u>
64	Swapnali Sadashiv Munde	<u>SMunde</u>	<u>SMunde</u>	<u>SMunde</u>	<u>SMunde</u>	<u>SMunde</u>	<u>SMunde</u>
68	Shital Sanjay Patil	<u>SPatil</u>	<u>SPatil</u>	<u>SPatil</u>	<u>SPatil</u>	<u>SPatil</u>	<u>SPatil</u>
73	Dhanashri Ravalnath Sutar	<u>DSutar</u>	<u>DSutar</u>	<u>DSutar</u>	<u>DSutar</u>	<u>DSutar</u>	<u>DSutar</u>
75	Revati Rajendra Patil	<u>RPatil</u>	<u>RPatil</u>	<u>RPatil</u>	<u>RPatil</u>	<u>RPatil</u>	<u>RPatil</u>
77	Suryawanshi Rutuja Baban	<u>RSuryawanshi</u>	<u>RSuryawanshi</u>	<u>RSuryawanshi</u>	<u>RSuryawanshi</u>	<u>RSuryawanshi</u>	<u>RSuryawanshi</u>
78	siddhi nataka	<u>Snataka</u>	<u>Snataka</u>	<u>Snataka</u>	<u>Snataka</u>	<u>Snataka</u>	<u>Snataka</u>

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## TRAINING & PLACEMENT CELL

### PYTHON PROGRAMMING TRAINING ATTENDANCE SHEET A.Y. (2023-24)

Date: 11/03/2024	Time:-09:30 AM
Training on: Python Programming	Location:- Seminar Hall
Name of Department :- Computer Science & Engineering	Class:- S.Y ( C Div)

Roll. No	Name of the Student	Monday (11/03/24)		Tuesday (12/03/24)		Wednesday (13/03/24)	
		Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
1	Aditya Anil Apugade	<u>Apugade</u>	<u>Apugade</u>	<u>Apugade</u>	<u>Apugade</u>	<u>Apugade</u>	<u>Apugade</u>
3	Rushikesh Murlidhar Chormale	<u>Chormale</u>	<u>Chormale</u>	<u>Chormale</u>	<u>Chormale</u>	<u>Chormale</u>	<u>Chormale</u>
5	Tanveer sutar	<u>Sutar</u>	<u>Sutar</u>	<u>Sutar</u>	<u>Sutar</u>	<u>Sutar</u>	<u>Sutar</u>
6	Vishal Digra	<u>Vishal Digra</u>	<u>Vishal Digra</u>	<u>Vishal Digra</u>	<u>Vishal Digra</u>	<u>Vishal Digra</u>	<u>Vishal Digra</u>
9	Nikhil Arjun Gharpankar	<u>Nikhil</u>	<u>Nikhil</u>	<u>Nikhil</u>	<u>Nikhil</u>	<u>Nikhil</u>	<u>Nikhil</u>
13	AKSHAY PRAKASH KHADE	<u>Khade</u>	<u>Khade</u>	<u>Khade</u>	<u>Khade</u>	<u>Khade</u>	<u>Khade</u>
15	Aditya Anil Khochikar	<u>Khochikar</u>	<u>Khochikar</u>	<u>Khochikar</u>	<u>Khochikar</u>	<u>Khochikar</u>	<u>Khochikar</u>
17	Atharv Anil Kumbhar	<u>K</u>	<u>K</u>	<u>K</u>	<u>K</u>	<u>K</u>	<u>K</u>
19	Tushar Dipak Kumbhar	<u>TDK</u>	<u>TDK</u>	<u>TDK</u>	<u>TDK</u>	<u>TDK</u>	<u>TDK</u>
20	Utkarsh Vinayak Kumbhar	<u>U</u>	<u>U</u>	<u>U</u>	<u>U</u>	<u>U</u>	<u>U</u>
21	Sushant Bhimrao Lohar	<u>Lohar</u>	<u>Lohar</u>	<u>Lohar</u>	<u>Lohar</u>	<u>Lohar</u>	<u>Lohar</u>
22	Aditya Arun Mandle	<u>Amandle</u>	<u>Amandle</u>	<u>Amandle</u>	<u>Amandle</u>	<u>Amandle</u>	<u>Amandle</u>
24	vedraj balasaheb mane	<u>Mane</u>	<u>Mane</u>	<u>Mane</u>	<u>Mane</u>	<u>Mane</u>	<u>Mane</u>
26	Mahesh Jaywant Mohite	<u>Mohite</u>	<u>Mohite</u>	<u>Mohite</u>	<u>Mohite</u>	<u>Mohite</u>	<u>Mohite</u>
27	pratik raju mohite	<u>Mohite</u>	<u>Mohite</u>	<u>Mohite</u>	<u>Mohite</u>	<u>Mohite</u>	<u>Mohite</u>
32	Pruthviraj Sardar Patil	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>
34	Sanket sunil patil	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>
36	Rushikesh Manoj Sapkal	<u>Sapkal</u>	<u>Sapkal</u>	<u>Sapkal</u>	<u>Sapkal</u>	<u>Sapkal</u>	<u>Sapkal</u>
38	Nilesh Laxman Pawar	<u>N Pawar</u>	<u>N Pawar</u>	<u>N Pawar</u>	<u>N Pawar</u>	<u>N Pawar</u>	<u>N Pawar</u>

ASU





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## TRAINING & PLACEMENT CELL

Roll. No	Name of the Student	Monday (11/03/24)		Tuesday (12/03/24)		Wednesday (13/03/24)	
		Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
45	Deepak Shivappa Yenechawandi	Deepak	Deepak	Deepak	Deepak	Deepak	Deepak
46	Sujal Sunilkumar Shahe	Sujal	Sujal	Sujal	Sujal	Sujal	Sujal
47	Prasad Bhagwan Todkar.	Prasad	Prasad	Prasad	Prasad	Prasad	Prasad
48	Patil Sahil Rajaram	Sahil	Sahil	Sahil	Sahil	Sahil	Sahil
49	shriram chandrakant kamble	Rambl	Rambl	Rambl	Rambl	Rambl	Rambl
50	Prachi Pramod Shinde	Prachi	Prachi	Prachi	Prachi	Prachi	Prachi
51	Shraddha Arvind Patil	Shraddha	Shraddha	Shraddha	Shraddha	Shraddha	Shraddha
52	Prachi Prakash Mahamuni	Prachi	Prachi	Prachi	Prachi	Prachi	Prachi
53	Nazneen Ibrahim Mulla	Nazneen	Nazneen	Nazneen	Nazneen	Nazneen	Nazneen
54	Patil Payal Sanjay	Payal	Payal	Payal	Payal	Payal	Payal
55	samruddhi sambhaji bhoite	Bhoite	Bhoite	Bhoite	Bhoite	Bhoite	Bhoite
56	Vaishnavi Namadev Chougale	Whagale	Whagale	Whagale	Whagale	Whagale	Whagale
57	Snehal Sanjay Dhamankar	Snehal	Snehal	Snehal	Snehal	Snehal	Snehal
58	Shreya Vishwas Gurav	Gurav	Gurav	Gurav	Gurav	Gurav	Gurav
62	Gayatri Rajaram Kodolkar	Gayatri	Gayatri	Gayatri	Gayatri	Gayatri	Gayatri
67	Anjali Balkrishna Patil	Anjali	Anjali	Anjali	Anjali	Anjali	Anjali
72	Soundarya Ananda Sutar	Soundarya	Soundarya	Soundarya	Soundarya	Soundarya	Soundarya
75	Shradha Santram Davare	Shradha	Shradha	Shradha	Shradha	Shradha	Shradha
78	snehal satish kadam	Snehal	Snehal	Snehal	Snehal	Snehal	Snehal

(P)

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## TRAINING & PLACEMENT CELL

Sl. No.	Roll. No	Name of the Student	Thursday(14/03/24)		Friday (15/03/24)		Saturday (16/03/24)	
			Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
20.	44	Krishna MotilalYadav	Kaushna	Kaushna	Kaushna	Kaushna	Kaushna	Kaushna
21.	47	prakashmarutipatil	Patil	Patil	Patil	Patil	Patil	
22	49	Aditya Suresh Idate	Idate	Idate	Idate	Idate		
23	51	Vinita VeerendraPatil	Patil	Patil	Patil	Patil	Patil	Patil
24	54	Vaishnavi Bharat Patil	Patil	Patil	Patil	Patil	Patil	Patil
25	55	swaradasachinathave	Shas	Shas	Shas	Shas	Shas	Shas
26	59	Shravani Vijay Kadam	Kadam	Kadam	Kadam	Kadam	Kadam	Kadam
27	63	sadhanakempanamang	Kamang	Kamang	Kamang	Kamang	Kamang	Kamang
28	64	komalsanjaypatil	Patil	Patil	Patil	Patil	Patil	Patil
29	65	sanikaDinkarPatil	Patil	Patil	Patil	Patil	Patil	Patil
30	66	SAYALI PANDURANG PATIL	Patil	Patil	Patil	Patil	Patil	Patil
31	70	PranjaliTanajJadhav	PJ	PJ	PJ	PJ	PJ	PJ
32	71	Sakshi Rahul Sase	S.Sase	S.Sase	S.Sase	S.Sase	S.Sase	S.Sase
33	74	AnuradhaPandurangShinge	Shinge	Shinge	Shinge	Shinge	Shinge	Shinge
34	76	RatanRanjitPatil	Patil	Patil	Patil	Patil	Patil	Patil
35	77	SamruddhiSandipShirgave	S.S.S	S.S.S	S.S.S	S.S.S	S.S.S	S.S.S
36.		Ashish Ware	Ware	Ware	Ware	Ware	Ware	Ware

(16)

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Sl. No.	Roll. No	Name of the Student	Thursday(14/03/24)		Friday (15/03/24)		Saturday (16/03/24)	
			Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
20.	43	Siddharth Tanaji Zalake	<u>Szalake.</u>	<u>Szalake.</u>	<u>Szalake.</u>	<u>Szalake.</u>	<u>Szalake.</u>	<u>Szalake.</u>
21.	46	Pranay Prakash Shinde	<u>Pshinde</u>	<u>Pshinde</u>	<u>Pshinde</u>	<u>Pshinde</u>	<u>Pshinde</u>	<u>Pshinde</u>
22.	47	Sandesh Shahaji Jadhav	<u>Sshah</u>	<u>Sshah</u>	<u>Sshah</u>	<u>Sshah</u>	<u>Sshah</u>	<u>Sshah</u>
23.	48	Vaibhav Ramchandra Patil	<u>VPatil</u>	<u>VPatil</u>	<u>VPatil</u>	<u>VPatil</u>	<u>VPatil</u>	<u>VPatil</u>
24.	50	Sakshi Vasant Patil	<u>SPatil</u>	<u>SPatil</u>	<u>SPatil</u>	<u>SPatil</u>		
25.	51	Snehal Kuber Chavan	<u>SChav</u>	<u>SChav</u>	<u>SChav</u>	<u>SChav</u>	<u>SChav</u>	<u>SChav</u>
26.	53	Iyoti Bajirao Patil	<u>IPatil</u>	<u>IPatil</u>	<u>IPatil</u>	<u>IPatil</u>		
27.	58	SHARVARI SANTAJI DESAI	<u>SDesai</u>	<u>SDesai</u>	<u>SDesai</u>	<u>SDesai</u>	<u>SDesai</u>	<u>SDesai</u>
28.	60	Tahura Imran hakim	<u>Tahura</u>	<u>Tahura</u>	<u>Tahura</u>	<u>Tahura</u>	<u>Tahura</u>	
29.	62	Bhakti Avinash Kulkarni	<u>BKulkarni</u>	<u>BKulkarni</u>	<u>BKulkarni</u>	<u>BKulkarni</u>		
30.	63	Shraddha Vinod Mudage	<u>S.v.mudage</u>	<u>S.v.mudage</u>	<u>S.v.mudage</u>	<u>S.v.mudage</u>	<u>S.v.mudage</u>	<u>S.v.mudage</u>
31.	64	Swapnali Sadashiv Munde	<u>SM</u>	<u>SM</u>	<u>SM</u>	<u>SM</u>	<u>SM</u>	<u>SM</u>
32.	68	Shital Sanjay Patil	<u>SPatil</u>	<u>SPatil</u>	<u>SPatil</u>	<u>SPatil</u>	<u>SPatil</u>	<u>SPatil</u>
33.	73	Dhanashri Ravalnath Sutar	<u>DSutar</u>	<u>DSutar</u>	<u>DSutar</u>	<u>DSutar</u>	<u>DSutar</u>	<u>DSutar</u>
34.	75	Revati Rajendra Patil	<u>RPatil</u>	<u>RPatil</u>	<u>RPatil</u>	<u>RPatil</u>		
35.	77	Suryawanshi Rutuja Baban	<u>RSuryawanshi</u>	<u>RSuryawanshi</u>	<u>RSuryawanshi</u>	<u>RSuryawanshi</u>	<u>RSuryawanshi</u>	<u>RSuryawanshi</u>
36.	78	Siddhi Naake	<u>SNaake</u>	<u>SNaake</u>	<u>SNaake</u>	<u>SNaake</u>	<u>SNaake</u>	<u>SNaake</u>

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			Morning	Afternoon	Morning	Afternoon	Morning	Afternoon
20.	45	Deepak ShivappaYenechawandi	<u>Deepak</u>	<u>Deepak</u>	<u>Deepak</u>	<u>Deepak</u>	<u>Deepak</u>	<u>Deepak</u>
21.	46	SujalSunilkumarShaha	<u>Sujal</u>	<u>Sujal</u>	<u>Sujal</u>	<u>Sujal</u>	<u>Sujal</u>	<u>Sujal</u>
22.	47	Prasad BhagwanTodkar	<u>Prasad</u>	<u>Prasad</u>	<u>Prasad</u>	<u>Prasad</u>	<u>Prasad</u>	<u>Prasad</u>
23.	48	PatilSahilRajaram	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>
24.	X 49	Shriramchandrakantkamble Sports	<u>AB</u>	<u>AB</u>				
25.	50	PrachiPramodShinde	<u>Prachi</u>	<u>Prachi</u>	<u>Prachi</u>	<u>Prachi</u>	<u>Prachi</u>	<u>Prachi</u>
26.	51	ShraddhaArvindPatil	<u>Shraddha</u>	<u>Shraddha</u>	<u>Shraddha</u>	<u>Shraddha</u>	<u>Shraddha</u>	<u>Shraddha</u>
27.	52	PrachiPrakashMahamuni	<u>Prachi</u>	<u>Prachi</u>	<u>Prachi</u>	<u>Prachi</u>	<u>Prachi</u>	<u>Prachi</u>
28.	53	Nazneen Ibrahim Mulla	<u>Nazneen</u>	<u>Nazneen</u>	<u>Nazneen</u>	<u>Nazneen</u>	<u>Nazneen</u>	<u>Nazneen</u>
29.	54	PatilPayal Sanjay	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>	<u>Patil</u>
30.	55	samruddhisambhajibhoite	<u>Shoite</u>	<u>Shoite</u>	<u>Shoite</u>	<u>Shoite</u>	<u>Shoite</u>	<u>Shoite</u>
31.	56	VaishnaviNamadevChougale	<u>Whougale</u>	<u>Whougale</u>	<u>coming next slot</u>	<u>Whougale</u>	<u>Whougale</u>	<u>Whougale</u>
32.	57	Snehal Sanjay Dhamankar	<u>Snehal</u>	<u>Snehal</u>	<u>Snehal</u>	<u>Snehal</u>	<u>Snehal</u>	<u>Snehal</u>
33.	58	ShreyaVishwasGurav	<u>Gurav</u>	<u>Gurav</u>	<u>Gurav</u>	<u>Gurav</u>	<u>Gurav</u>	<u>Gurav</u>
34.	62	GayatriRajaramKodolkar	<u>Gayatri</u>	<u>Gayatri</u>	<u>Gayatri</u>	<u>Gayatri</u>	<u>Gayatri</u>	<u>Gayatri</u>
35.	67	Anjali BalkrishnaPatil	<u>Anjali</u>	<u>Anjali</u>	<u>Anjali</u>	<u>Anjali</u>	<u>Anjali</u>	<u>Anjali</u>
36.	72	SoundaryaAnandaSutar	<u>Sutar</u>	<u>Sutar</u>	<u>Sutar</u>	<u>Sutar</u>	<u>Sutar</u>	<u>Sutar</u>
37.	75	ShradhaSantramDavare	<u>Davare</u>	<u>Davare</u>	<u>Davare</u>	<u>Davare</u>	<u>Davare</u>	<u>Davare</u>
38.	78	snehalsatishkadam	<u>Kadam</u>	<u>Kadam</u>	<u>Kadam</u>	<u>Kadam</u>	<u>Kadam</u>	<u>Kadam</u>

  
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## Department of Training & Placement Cell

Thank you for attending <sup>nive</sup> three days offline Training " Python " from 11/04/20 to 13/04/20. We hope that you found the activity interesting and that we met your expectations. We would be very grateful if you could take a moment to complete the Feedback Form. Your comments will assist us in improving future activities that we will organize.

Scale: 1-STRONGLY AGREE 2-AGREE 3-NEUTRAL 4-DISAGREE 5-STRONGLY DISAGREE  
Please tick the appropriate number in all the marks & provide remarks in the comments box

	(1)	(2)	(3)	(4)	(5)
<b>Training Objectives</b>					
The objectives of the training were clearly defined	✓				
The content of the training supported the objectives	✓				
The trainer was knowledgeable about the training topics	✓				
The topics were well organized and easy to follow	✓				
How would you rate the focus and structure of the training course?	✓				
<b>Course Material</b>					
Easy to follow and Navigate ( e.g. Slides, Handouts etc)	✓				
The course material was appropriate to background and experience of students	✓				
Training Material was useful and easy to understand	✓				
<b>Content Material</b>					
This training experience will be useful in the future		✓			
Training will help to clear aptitude of software companies		✓			
Instructional methods used during mentoring were effective		✓			
<b>Facilities</b>					
The trainers created a professional and comfortable learning environment	✓				
The trainers showed confidence in the subject matter	✓				
The trainers handled classroom distractions appropriately	✓				
Appropriate examples were provided during session	✓				
Trainer handled questions that were asked during the session	✓				
<b>Comments</b>					
What topics would you have liked to have spent more time on?					
<u>Basic installation of Jupyter learn.</u>					
Do you have any suggestions for future Training Sessions that you would like us to organize?					
<u>mimi project with help of python language interested.</u>					
What new skills have you learnt from the event that you think you will be able to put into practice?					
Any Other Suggestions:					
<u>This language having less complexity other C &amp; C++ compare.</u>					

Trainer's Qualifications	Average	Good	Vary Good	Excellent
1.				
2. <u>Installation process.</u>		✓		
3. <u>Teaching Skill</u>		✓		
4.				

Thank you for participating, we appreciate your feedback!!!

miss. Ratna patil .

Signature





## Department of Training & Placement Cell

Thank you for attending <sup>five</sup> three days offline Training " Python " from 11/3/24 to 16/3/24. We hope that you found the activity interesting and that we met your expectations. We would be very grateful if you could take a moment to complete the Feedback Form. Your comments will assist us in improving future activities that we will organize.

SCALE: 1-STRONGLY AGREES 2-AGREES 3-NEUTRAL 4-DISAGREES 5-STRONGLY DISAGREES

Please fill the grid, rate each item on a scale of 1 to 5 and give feedback in this comment box.

	(1)	(2)	(3)	(4)	(5)
<b>TRAINING GOALS</b>					
The objectives of the training were clearly defined	✓				
The content of the training supported the objectives	✓				
The trainer was knowledgeable about the training topics	✓				
The topics were well organized and easy to follow		✓			
How would you rate the focus and structure of the training course?					
<b>COURSE CONTENTS</b>					
Easy to follow and Navigate ( e.g. Slides, Handouts etc)	✓				
The course material was appropriate to background and experience of students	✓				
Training Material was useful and easy to understand		✓			
<b>CONTENT RELEVANCE</b>					
This training experience will be useful in the future	✓				
Training will help to clear aptitude of software companies	✓				
Instructional methods used during mentoring were effective		✓			
<b>TRAINER</b>					
The trainers created a professional and comfortable learning environment	✓				
The trainers showed confidence in the subject matter	✓	✓			
The trainers handled classroom distractions appropriately		✓			
Appropriate examples were provided during session	✓				
Trainer handled questions that were asked during the session	✓				
<b>FOOD/NOTE</b>					
What topics would you have liked to have spent more time on?	I would like more time on scripting and Automation.				
Do you have any suggestions for future Training Sessions that you would like us to organize?	More python for competitive knowledge on programming				
What new skills have you learnt from the event that you think you will be able to put into practice?	this language i learn more testing & Debugging				
Any Other Suggestions:	No.				

Rating	Excellent	Very Good	Good	Average
1. Teaching speed				✓
2. Teaching Skill				✓
3. Installation speed.			✓	
4. Time punctuality			✓	

Thank you for participating, we appreciate your feedback!!!

Signature

Miss. Anrati Kite  
Anrati



Digital Microsys Technologies

E-mail : [director@digitalmicrosys.com](mailto:director@digitalmicrosys.com)  
Website : [www.digitalmicrosys.com](http://www.digitalmicrosys.com)

1<sup>st</sup> Floor,  
Yashashri Banglow, Colter Road,  
Kolhapur - 416008, India.  
Mob. : 9922808540

Ref No.: DMT/Director/14-01/08/2023

1 August 2023

To,  
**Head of CSE Department**  
Ashokrao Mane Group of Institutions,  
Faculty of Engineering,  
Vathar Tarf Vadgaon, Hatkanagale,  
Kolhapur, Maharashtra, 416112

**Subject:** Request for Collaboration on Ambap Gram Panchayat Website Development as a Sponsored Project

Dear Prof. Suraj Shivaji Redekar,

Greetings from Digital Microsys Technologies.

We are pleased to reach out to **Department of Computer Science & Engineering, Ashokrao Mane Group of Institutions** renowned for its academic excellence and technical expertise. As part of our commitment to social responsibility and community development, we are sponsoring a project to develop a dedicated website for **Ambap Gram Panchayat**. This initiative aims to enhance transparency, improve communication, and provide accessible digital services to the local community.

To achieve this goal, we propose a collaboration with your esteemed institution. We believe that involving your talented engineering students in this project will provide them with practical exposure to real-world applications of technology while contributing to a meaningful cause.

**Key Details of the Project:**

**ProjectScope:**

Development of a fully functional and user-friendly website for Ambap Gram Panchayat, featuring sections for public notices, e-governance, grievance redressal, and updates on government schemes.



**Company's Role:**

- Provide funding for the project.
- Offer mentorship and periodic technical guidance to the students.
- Cover hosting and domain registration costs.

**College's Role:**

- Identify a team of students from the Computer Scienceto undertake the project.
- Assign a faculty advisor to supervise the project and ensure timely completion.

**Benefits for Students:**

- Hands-on experience in web development for a real-world client.
- Opportunity to work on a socially impactful project.
- Certificate of appreciation and potential internships for outstanding contributors.

We kindly request your approval and support for this collaborative initiative. Once we receive your consent, we would be happy to discuss the project scope, deliverables, and timelines in detail with the assigned team and faculty advisor.

We are confident that this partnership will not only benefit the residents of Ambap Gram Panchayat but also provide a valuable learning opportunity for your students.

Looking forward to your positive response.



Jabbar Shaikh  
director  
Digital Microsys Technologies, India  
[www.digitalmicrosys.com](http://www.digitalmicrosys.com)  
Email : [director@digitalmicrosys.com](mailto:director@digitalmicrosys.com)



# Detailed Proposal

- **Title:** Proposal for the Development of a Website for Ambap Village Gram Panchayat.
- **Submitted By:** Mr. Kiran Shinde, Mr. Akshay Kamble under guidance of Prof. S. S. Redekar
- **Date:** 1 August 2023.

## 1. Executive Summary

- **Purpose:** This proposal outlines the research and development process for creating a website for Ambap Gram Panchayat. The website aims to improve transparency, enhance communication between citizens and the Gram-panchayat, and provide easy access to essential information and services. Key features include sections for public notices, grievance redressal, e-governance, and information about development projects.
- The project is designed to bridge the digital divide in rural areas by promoting accessibility and transparency in local governance. The proposed timeline is 25 weeks with an estimated budget of ₹1,00,000.

## 2. Introduction

- **Background:**  
Gram-Panchayats play a pivotal role in rural development and governance. However, citizens often lack timely access to information and services due to communication gaps. A dedicated website will address these challenges by serving as a centralized, transparent platform.
- **Problem Statement:**  
The current communication methods (e.g., notice boards, in-person visits) are inefficient and fail to meet the needs of the digitally evolving rural populace.
- **Purpose of the Proposal:**  
To design and develop an accessible, user-friendly, and informative website for Ambap Village Gram-Panchayat.



- **Scope of Work:**

The website will cater to the residents of the Panchayat, providing services such as public notices, grievance submissions, and updates on government schemes.

- **Objectives**

1. To create a centralized platform for sharing Gram Panchayat information.
2. To enable easy access to government schemes, programs, and services.
3. To provide online grievance submission and tracking facilities.
4. To promote transparency and encourage citizen engagement in governance.

### 3. Background and Context

- **Industry Overview:** Digital Microsys Technology, Kolhapur is a leader in Computer Systems Design and Related Services, Professional, Scientific, and Technical Services company, making it an ideal partner for this project.
- **Problem Identification:** During our visit at Digital Microsys Technology, Kolhapur we observed a scope for Website development for Ambap Grampanchayat.
- **Proof of Problem:** A detailed requirement analysis of the website, including interaction with concern authorities, villagers, discussions with professionals, data gathered during the visit, Designing & Prototyping, Development, Testing & Deployment.

### 4. Methodology

#### Phase 1: Requirement Analysis

- Conduct focus group discussions with Panchayat members and residents.
- Identify key information and service needs through surveys.
- Benchmark against successful Gram Panchayat websites.

#### Phase 2: Design and Prototyping

- Develop a sitemap outlining key sections (e.g., Public Notices, Schemes, Contact Details, Grievances).
- Create prototypes and wireframes using tools like Figma.
- Gather feedback from Panchayat officials and community representatives.

### Phase 3: Development

- Use WordPress or a similar CMS for cost-effective development.
- Develop in Marathi which is regional languages for local accessibility.
- Ensure compatibility with mobile devices, as they are the primary access point in rural areas.

### Phase 4: Testing

- Conduct usability testing with 15-20 local residents.
- Test website loading speed and functionality on low bandwidth.
- Verify compliance with accessibility standards.

### Phase 5: Deployment and Maintenance

- Host the website on a secure and reliable platform (e.g., NIC or private hosting).
- Train Gram Panchayat staff for content updates and basic troubleshooting.
- Provide 1-year free maintenance and regular updates.

## 5. Work Plan and Timeline

Phase	Tasks	Duration
Requirement Analysis	Surveys, interviews, and benchmarking	4 weeks
Design and Prototyping	Wireframes and feedback sessions	5 weeks
Development	Coding and content integration	10 weeks
Testing	Usability and performance testing	4 weeks
Deployment	Hosting and website launch	2 weeks

## 6. Expected Outcomes

- A fully functional, accessible website providing Panchayat-related services.
- Increased citizen awareness of local governance initiatives.
- A user-friendly grievance redressal system leading to improved trust in governance.
- Enhanced operational efficiency and reduced communication gaps.



## 7. Budget and Resources

Sr. No.	Component Name	Approx. Costing (Rs.)
1	Domain and Hosting	10,000/-
2	Design and Development	50,000/-
3	Testing and Usability	15,000/-
4	Translation and Localization	7,000/-
5	Training and Documentation	8,000/-
6	Maintenance (1 Year)	10,000/-
<b>Total</b>		<b>Rs. 1,00,000 /-</b>

- **Funding Request:** We are seeking financial assistance to cover development costs. A detailed budget is attached.
- **Additional Resources:** Ashokrao Mane Group of Institutions, Vathar will provide lab space and Digital Microsys Technologies, Kolhapur will contribute through mentorship and technical support.

## 8. Project Team

- **Student Team:** A group of engineering students specializing in Computer Science & Engineering.
- **Faculty Guide:** Prof. S. S. Redekar, an expert in Website development & looking after institute website as an administrator from past 10 years.
- **Industry Mentor:** A professional from Digital Microsys Technologies, Kolhapur will provide guidance and ensure technical support.

## 9. Risk Management

Risk	Mitigation Strategy
Limited internet accessibility	Ensure website functions on low bandwidth.
Technical challenges	Allocate a contingency budget for expert support.
Low adoption by residents	Conduct awareness campaigns and training sessions.

## 10. Conclusion

The development of a website for Ambap Gram Panchayat represents a significant step toward digital inclusion and improved governance. This initiative will empower citizens by providing easy access to information and services while promoting transparency and participation in local governance.

## 11. References

1. Ministry of Panchayati Raj, Government of India.
2. "Role of ICT in Rural Development," *Journal of Rural Studies*, 2022.
3. Benchmark websites: eGramSwaraj, Kerala Panchayat Raj Portal.
4. Student CVs: Resumes of the students involved in the project.
5. Letters of Support: Any letters from college administration or stakeholders supporting the project.





Shri Balasaheb Mane Shikshan Prasarak Mandal's

# ASHOKRAO MANE GROUP OF INSTITUTIONS

NH-4, Vathar Tarf Vadgaon, Tal: -Hatkanangale, Dist: - Kolhapur-416112

Website: www.amgoi.org

**Accredited by NAAC**

**Department of Electrical Engineering**



**Dr.Kaustubh Gitapathi**

Director,

Kimaya Automation

Alankapuri Servey no.33, Vadgaon

Pune, Maharashtra, 411041

Dear sir,

**Subject: "Solar-Based Vaccine Storage System."**

I hope this letter finds you well. My name is Pranav Herle, and I am a Last Year engineering student at Ashokrao Mane Group of Institution, Vathar, currently working under the guidance of Prof. Mrs. S. A. Shankardas. During our visit at Kimaya Automation, my team and I identified a significant opportunity to address excessive energy for Solar-Based Vaccine Storage System.

Our proposed solution aims to design a cost-effective and eco-friendly refrigeration solution using solar energy, to store vaccines and other medical supplies in regions with unreliable or no electrical grid access. This system ensures that vaccines are maintained at the correct temperature, using thermoelectric cooling, powered by solar energy, making it highly reliable for rural and remote areas.

Enclosed with this letter is our detailed proposal, which outlines the project's objectives, methodology, expected outcomes, and the support we are seeking from Kimaya Automation. We are confident that with your backing, this project can set a new standard for energy management in educational institutions, showcasing Kimaya Automation's commitment to sustainability and technological innovation.

We would be grateful for the opportunity to discuss this proposal with you in more detail. Please feel free to contact me at 9673899775 heralepa3685@gmail.com to schedule a meeting at your earliest convenience.

Thank you for considering our proposal. We look forward to the possibility of collaborating with Kimaya Automation on this exciting project.

Yours sincerely,

**Pranav Herle**

B.Tech [Electrical Engg.]

**Prof.Mrs.S.A.Shankardas**

Project Guide

**Prof. Mrs. S. H. Shete**

Head Of Dept.

**HOD**

**Electrical Engineering**  
AMGOI, Faculty of Engineering  
Vathar Tarf Vadgaon  
Tal. Hatkanangale



# PROJECT PROPOSAL

## 1. Executive Summary

- **Purpose:** This proposal outlines a project to design a cost-effective and eco-friendly refrigeration solution using solar energy, to store vaccines and other medical supplies in regions with unreliable or no electrical grid access.
- **Problem Statement:** The Solar-Based Vaccine Storage System provides a sustainable, grid-independent refrigeration solution for vaccines in remote regions lacking reliable electricity. Using solar power, a Peltier cooling system, and battery storage, it ensures effective cold chain maintenance, crucial for vaccine efficacy and public health in underserved areas.
- **Proposed Solution:** This system ensures that vaccines are maintained at the correct temperature, using thermoelectric cooling, powered by solar energy, making it highly reliable for rural and remote areas.
- **Funding Request:** We request funding from Kimaya Automation to support the development and implementation of this system.

## 2. Background and Context

- **Industry Overview:** Kimaya Automation is at the forefront of providing automation solutions, making it an ideal partner for this energy monitoring project.
- **Visit Experience:** During our visit at Kimaya Automation, we observed the potential for system's sustainability and its potential to improve healthcare access in underserved regions.
- **Problem Details:** Remote regions with unreliable electricity face significant challenges in maintaining vaccine efficacy due to a lack of reliable refrigeration, risking vaccine spoilage and compromising public health.
- **Literature Review:** This solution aims to highlight the effectiveness of solar energy, thermoelectric cooling, and battery storage for off-grid vaccine refrigeration, emphasizing these technologies' durability, cost-efficiency, and environmental benefits in ensuring vaccine efficacy in remote areas.

## 3. Research Objectives

- **Primary Objective:** To develop an eco-friendly, cost-effective, and sustainable solar-powered refrigeration system for reliable vaccine storage in remote and off-grid areas, ensuring vaccines are kept at the correct temperature to maintain efficacy despite unreliable or non-existent electrical infrastructure.
- **Secondary Objectives:** To design an independent, solar-powered refrigeration system with microcontroller-based monitoring, ensuring scalable, low-cost cooling for medical, domestic, and industrial use in low-power areas.
- **Research Questions:** What are the primary challenges faced in maintaining the cold chain for vaccines in remote and off-grid regions with unreliable electrical infrastructure? How can solar energy, through photovoltaic cells, be effectively utilized to power refrigeration systems in areas with limited or no access to the electrical grid?



#### 4. Methodology

- **Research Design:** The project will follow a mixed-methods approach, combining hardware development with software development.
- **Data Collection:** Data for the Solar-Based Vaccine Storage System project will be collected through various methods, including monitoring solar panel performance, battery efficiency, Peltier plate cooling, system operations, environmental conditions, and maintenance logs, using sensors, microcontrollers, and data logging tools to evaluate its effectiveness and scalability in remote areas.
- **Data Analysis:** The collected data will be analyzed to identify patterns and refine the system's ability.
- **Timeline:** The project will be divided into phases: design (2 month), development (3 months), testing (1 month), and implementation (1 month).

#### 5. Expected Outcomes and Benefits

- **Research Deliverables:** The final deliverables will include a working prototype of the system, performance data on solar, battery, system testing and validation, cost estimation, environmental and societal impact assessments, scalability recommendations, and comprehensive documentation and dissemination of results for stakeholders and potential users.
- **Industry Impact:** The Solar-Based Vaccine Storage System can significantly impact industries by providing a sustainable, cost-effective solution for temperature-sensitive storage in off-grid areas, enhancing healthcare delivery, enabling reliable food preservation, and supporting industrial cooling in regions with unreliable power infrastructure.
- **Student Learning Outcomes:** This project will provide hands-on experience for enhancing the students' practical skills.

#### 6. Budget and Funding Request

- **Detailed Budget:** The budget includes costs for solar panels, peltier plate, ATMEGA 328P-PU, testing equipment, and other necessary materials.
- **Funding Allocation:** We request funding to cover the cost of materials, prototype development, and testing. A detailed budget breakdown is attached.
- **Additional Resources:** The college will provide laboratory space and basic tools, while Kimaya Automation will offer technical guidance.

#### 7. Project Team

- **Student Team:**
  1. Pranav Herle
  2. Sairaj Shipekar
  3. Keval Awati
  4. Prathamesh Nikam
  5. Nihal Shaikh
- **Faculty Guide:** Prof.S.A.Shankardas
- **Industry Mentor:** Er.Tejasvi Ghule (Senior Application Engg.)

## 8. Timeline

- **Phases:**
  - **Design:** 2 month
  - **Development:** 3 months
  - **Testing:** 1 month
  - **Implementation:** 1 month
- **Milestones:**
- Completion of design, development of the prototype and successful testing
- **Completion Date:** The project is expected to be completed within 7 months.

## 9. Cost Estimation

The total estimated cost for the project is **Rs. 40,000** including key components such as:

- Solar Panel: Rs. 23000/-
- Peltier Plate: Rs. 5000/-
- Battery: Rs. 1400/-
- ATMEGA 328P-PU: Rs. 1500/-
- LCD Display: Rs. 180/-
- Other Materials: Rs. 8500/-

## 10. Risk Management

- **Potential Risks:** Delays in component delivery, technical challenges in integration, and unforeseen testing issues.
- **Mitigation Strategies:** We have identified backup suppliers, will maintain regular progress reviews, and will conduct early-stage testing to catch issues early.

## 11. Conclusion

- **Final Appeal:** This project offers a cost-effective, reliable, and off-grid solution for vaccine storage in remote areas with unreliable electricity showcasing Kimaya Automation's expertise in automation. We seek your support to bring this innovative solution to fruition.
- **Next Steps:** We propose a meeting with Kimaya Automation to discuss the project details and finalize the funding arrangement.

## 12. Appendices

- **Supporting Data:** Additional charts and data on current energy usage in hostels.
- **Student CVs:** Resumes of the students involved in the project.
- **Letters of Support:** Any letters from the college administration or other stakeholders supporting the project.





Date: 2.08.2023

To  
The Head of the Department  
Department of Electrical Engineering  
Ashokrao Mane Group of Institutions  
Vathar, Kolhapur-416112

Subject: Approval of Sponsorship

Respected Ma'am,

I am writing to inform you that our company is pleased to sponsor the project entitled "Solar-Based Vaccine Storage System."

We have granted permission for the following students from the B.Tech. Electrical Engineering program, through Prof.S.A.Shankardas ,associate professor, Electrical Engineer department as a institute mentor, to undertake this project on our behalf:

1. Mr.Pranav Herle
2. Mr.Sairaj Shipekar
3. Mr.Keval Awati
4. Mr.Prathmesh Nikam
5. Mr.Nihal Shaikh

We believe that the innovations and facilities provided by this project will be highly beneficial for our company.

Thank you for your attention to this matter. We look forward to your support in facilitating this project.

Sincerely,  
Kaustubh V Gitapathi  
Director

Kimaya Automation Private Limited  
Office-1, Alankapuri, S.No. 33, Vadgaon Khurd,  
Pune – 411041  
kaustubh@kimayaa.in



Kimaya Automation Flat No.15,Matoshree,S.No.14,Dhadge Estate,  
Village Nanded,Tal Haveli,Pune-411041,Maharashtra,India  
Office :+91 20 6400 2256 | + 91 20 6400 2257

[www.kimayaa.com](http://www.kimayaa.com)



To,  
The Head of the Department  
Department of Electrical Engineering  
Ashokrao Mame Group of Institutions  
Vaihar, Kolhapur-416112

Subject: Project Completion Certificate for Sponsored Project.

Respected Ma'am,

We, **Kimaya Automation Private Limited**, are pleased to inform you that our company has sponsored the project titled " **Solar-Based Vaccine Storage System** "

The following B.Tech. students from the Electrical Engineering department, under the mentorship of Prof.S.A.Shankardas, Assistant Professor in the Electrical Engineering Department, have been authorized to undertake and complete this project on our behalf:

1. Pranav Herle
2. Saiuj Shipekar
3. Keval Awari
4. Prathamesh Nikam
5. Nihal Shaikh

We request you to kindly issue a **Project Completion Certificate** on behalf of AMGOI once the project has been successfully completed by the above students, verifying that all objectives have been met and required standards maintained. This certificate will serve as formal documentation of the successful collaboration between Kimaya Automation Private Limited and AMGOI.

Thank you for your support and cooperation in facilitating this project.

Sincerely,  
Kaustubh V. Girapathi

  
Director  
Kimaya Automation Private Limited  
Office-1, Alankapuri, S.No. 33, Vadgaon Khurd,  
Pune 411041  
Email: kaustubh@kimaya.in







Shri Balasaheb Mane Shikshan Prasarak Mandal's

# ASHOKRAO MANE GROUP OF INSTITUTIONS

NH - 4, Vathar Tarf Vadgaon, Tal: - Hatkanangale, Dist: - Kolhapur-415112

Website: www.amgoi.org

Accredited by NAAC

Department of Electrical Engineering



**Dr.Kaustubh Gitapathi**

Director,

Kimaya Automation

Alankapuri Servey no.33, Vadgaon

Pune, Maharashtra, 411041

Dear sir,

**Subject: "Design and development of solar based water oxygen and hydrogen splitting system."**

I hope this letter finds you well. My name is Chandrakanti Sambhaji Kumbhar, and I am a Last Year engineering student at Ashokrao Mane Group of Institution, Vathar, currently working under the guidance of Prof.Mrs.V.Y.Powar . During our visit at Kimaya Automation, my team and I identified a significant opportunity to address development of solar based water oxygen and hydrogen splitting system.

Our proposed solution aims to convert solar energy from solar tree for generation of Hydrogen, Oxygen and light. Very small space requires for solar tree than conventional solar panel system. The solar panels on solar tree convert solar radiation into electricity, which is used for decomposition of water into oxygen and hydrogen.

Enclosed with this letter is our detailed proposal, which outlines the project's objectives, methodology, expected outcomes, and the support we are seeking from Kimaya Automation. We are confident that with your backing, this project can set a new standard for energy management in educational institutions, showcasing Kimaya Automation's commitment to sustainability and technological innovation.

We would be grateful for the opportunity to discuss this proposal with you in more detail. Please feel free to contact me at 8830137791 chandrakantkumbhar2000@gmail.com to schedule a meeting at your earliest convenience.

Thank you for considering our proposal. We look forward to the possibility of collaborating with Kimaya Automation on this exciting project.

Yours sincerely,

  
**Chandrakant Kumbhar,**  
B.Tech [Electrical Engg.]

  
**Prof. Mrs. V.Y. Powar**  
Project Guide

  
**Prof. Mrs. S.H. Shete**  
Head of Dept.

**Electrical Engineering**  
AMGOL Faculty of Engineering  
Vathar Tarf Vadgaon,  
Tal. Hatkanangale, Dist. Kolhapur



# PROJECT PROPOSAL

## 1. Executive Summary

- **Purpose:** To generate the gases which are useful for human. Mainly hydrogen and oxygen are generated from water by separate this molecule.
- **Problem Statement:** In some conditions requirement of oxygen is very necessary to fulfill that requirement this device help us.
- **Proposed Solution:** So separate hydrogen and oxygen we require more energy to separate but here we use solar energy to separate the molecule and form the gas.
- **Funding Request:** We request funding from Kimaya Automation to support the development and implementation of this system.

## 2. Background and Context

- **Industry Overview:** Kimaya Automation is at the forefront of providing automation solutions, making it an ideal partner for this energy monitoring project.
- **Internship Experience:** During our internship with Kimaya Automation, we observed the potential for significant energy savings and safety improvements by using solar panels.
- **Problem Details:** Separation of two molecule are consume more energy to save the energy and to done the process we use renewable energy source which is solar.
- **Literature Review:** This solution aims to enhance electrical separation with zero pollution and highly beneficial in pandemic situation.

## 3. Research Objectives

- **Primary Objective:** To develop a cost-effective, automatic electricity monitoring system that separate the water molecule in hydrogen and oxygen.
- **Secondary Objectives:** To ensure the system is user-friendly, scalable, and integrates seamlessly with existing in hospitals.
- **Research Questions:** How can we separate the two molecules with more efficient way? What is the main purpose for developing this project?

## 4. Methodology

- **Research Design:** The project will follow a mixed-methods approach, combining hardware development (sensors and control systems) with software development (monitoring and alerts in form of message).
- **Data Collection:** Data on energy consumption patterns will be collected through prototype testing in any place.
- **Data Analysis:** The collected data will be analyzed to identify patterns and refine the system's ability to separate water molecule.
- **Timeline:** The project will be divided into phases: design (1 month), development (2 months), testing (1 month), and implementation (1 month).



## 5. Expected Outcomes and Benefits

- **Research Deliverables:** The final deliverables will include a working prototype of gas extracting or molecule separation monitoring system, detailed documentation, and a report on the testing results.
- **Industry Impact:** The system will not only reduce energy costs for molecule separation but also enhance safety and demonstrate the capabilities of Kimaya Automation in educational sector solutions.
- **Student Learning Outcomes:** This project will provide hands-on experience in automation and energy management systems, enhancing the students' practical skills.

## 6. Budget and Funding Request

- **Detailed Budget:** The budget includes costs for sensors, solar panels, frame, tank, software development, testing equipment, and other necessary materials.
- **Funding Allocation:** We request funding to cover the cost of materials, prototype development, and testing. A detailed budget breakdown is attached.
- **Additional Resources:** The college will provide laboratory space and basic tools, while Kimaya Automation will offer technical guidance.

## 7. Project Team

- **Student Team:**
  1. Mr. Chandrakant Kumbhar
  2. Mr. Samarth Kamble
  3. Ms. Asmita Tisangikar
  4. Ms. Harshada Mane
  5. Ms. Sayali Kamble
- **Faculty Guide:** Prof. Mrs. V. Y. Powar
- **Industry Mentor:** Er. Tejasvi Ghule (Senior Application Engg.)

## 8. Timeline

- **Phases:**
  - **Design:** 2 month
  - **Development:** 3 months
  - **Testing:** 1 month
  - **Implementation:** 1 month
- **Milestones:**
- Completion of design, development of the prototype and successful testing.
- **Completion Date:** The project is expected to be completed within 5 months.

## 9. Costing Estimation

The total estimated cost for the project is approximately **Rs 40,000** including key components such as:

Component	Quality	Cost
• Arduino mega	1	3500
• 16*2 Liquide display	2	2000
• MQ 135	1	2300
• MQ 8	1	1000
• DHT11	1	100
• Solar Charge Controller	1	3000
• Solar plate	6	10,000
• Battery	2	5000
• Electrolysis kit	1	3000
• Water pump	1	1500
• Relay Module	1	500
• LDR	2	30
• Servo Motor	1	2850
• Structure	1	1500
• Store Bag	2	400
• Mislaneous		3000
<b>Total Cost =</b>		<b>39,715</b>

## 10. Risk Management

- **Potential Risks:** Delays in component delivery, technical challenge, solar pannel problem after few years.
- **Mitigation Strategies:** We have identified backup suppliers, will maintain regular progress reviews, and will conduct early-stage testing to catch issues early.

## 11. Conclusion

- **Final Appeal:** This project offers a significant opportunity to reduce energy separation costs and store the gases for required places while showcasing Kimaya Automation's expertise in automation. We seek your support to bring this innovative solution to fruition.
- **Next Steps:** We propose a meeting with Kimaya Automation to discuss the project details and finalize the funding arrangement.

## 12. Appendices

- **Supporting Data:** Additional charts and data on current energy required for separation.
- **Student CVs:** Resumes of the students involved in the project.
- **Letters of Support:** Any letters from the college administration or other stakeholders supporting the project.





Date: 2.08.2023

To  
The Head of the Department  
Department of Electrical Engineering  
Ashokrao Mane Group of Institutions  
Vathar, Kolhapur-416112

Subject: Approval of Sponsorship

Respected Ma'am,

I am writing to inform you that our company is pleased to sponsor the project entitled "Design and Development of Solar Based Water Oxygen And Hydrogen Splitting System".

We have granted permission for the following students from the B.Tech. Electrical Engineering program, through Prof.Mrs.V.Y.Powar ,associate professor, Electrical Engineer department as a institute mentor, to undertake this project on our behalf:

1. Mr. Chandrakant Kumbhar
2. Mr. Samarth Kamble
3. Ms. Asmita Tisangikar
4. Ms. Harshada Mane
5. Ms. Sayali Kamble

We believe that the innovations and facilities provided by this project will be highly beneficial for our company.

Thank you for your attention to this matter. We look forward to your support in facilitating this project.

Sincerely,  
Kaustubh V Girapathi  
Director

Kimaya Automation Private Limited  
Office-1, Alankapuri, S.No. 33, Vadgaon Khurd,  
Pune-411041  
kaustubh@kimayaa.in





To:  
The Head of the Department  
Department of Electrical Engineering  
Ashokrao Mane Group of Institutions  
Vaihar, Kolhapur-416112

Subject: Project Completion Certificate for Sponsored Project

Respected Ma'am,

We, **Kimaya Automation Private Limited**, are pleased to inform you that our company has sponsored the project titled "**Design and Development of Solar Based Water Oxygen and Hydrogen Splitting System.**"

The following B.Tech. students from the Electrical Engineering department, under the mentorship of Prof.VY.Powar, Assistant Professor in the Electrical Engineering Department, have been authorized to undertake and complete this project on our behalf:

1. Chandrakant Kumbhar
2. Samarth Kamble
3. Asmita Tisangikar
4. Harshada Mane
5. Sayli Kamble

We request you to kindly issue a **Project Completion Certificate** on behalf of AMGOL once the project has been successfully completed by the above students, verifying that all objectives have been met and required standards maintained. This certificate will serve as formal documentation of the successful collaboration between Kimaya Automation Private Limited and AMGOL.

Thank you for your support and cooperation in facilitating this project.

Sincerely,  
Kaustubh V. Gupathi



Director  
Kimaya Automation Private Limited  
Office-1, Alankapuri, S.No. 33, Vadgaon Khurd,  
Pune 411041  
Email: [kaustubh@kimaya.in](mailto:kaustubh@kimaya.in)





*Shri Balasaheb Mane Shikshan Prasarak Mandal, Ambap's*

**ASHOKRAO MANE GROUP OF INSTITUTIONS, VATHAR**

NH - 4, Vathar Tarf Vadgaon, Tal: - Hatkanangale, Dist: - Kolhapur - 416112.



**Department of Electrical Engineering**

Date: 12/05/2024

## Notice

All the students of Second year and Third year are hereby informed that a seminar on "Electrical Safety" is scheduled on 13<sup>th</sup> May 2024 at 2.15 pm. Be present at sharp 2.15 pm at SL 08 classroom in proper dress code along with I-card.

*Sheti*  
HOD 12/5/24

(Prof. Mrs. S. H. Shete)

AddlEE/RTC/V'Bag/Sangli/ 198

Dt. 10.05.2024

To,  
The Principal  
Ashokrao Mane group of Institute, Pethwadgaon  
Tal: Hatkanangle, Dist: Kolhapur.

**Sub: - Electrical Safety Awareness for your college**

Respected Sir/Madam,

We, at MSEDCL Regional training center Sangli, are regularly arranging the electrical safety awareness seminar's for students and faculties of Diploma, Degree college & Public in general. The basic intention is to create electrical safety awareness. The motto of conducting such type of seminar to minimize the fatal/Nonfatal accidents faced by publics well as animals due to Electrical shock. In line with this we hereby propose to conduct safety seminar for the students of your college on dated 13.05.2024 from 2.30 p.m to 4.00 p.m.

It is requested to grant permission to conduct safety seminar at your college. Also it is requested to instruct all your students and teaching/non teaching staff to attend the seminar.

Thanking you in anticipation and looking forward for your positive response.

  
Addl. Executive Engineer,  
RTC, Sangli.





Shri Balasaheb Mane Shikshan Prasarak Mandal, Ambap's

# ASHOKRAO MANE GROUP OF INSTITUTIONS

DEPARTMENT OF ELECTRICAL ENGINEERING

NH - 4, Vathar Tarf Vadgaon, Tal: - Hatkanangale, Dist: - Kolhapur - 416112.

Phone: (0230) 2407740, 2407750, 2407760 Fax: (0230) 2407750

Accredited by NAAC with 'A' Grade CGPA 3.08



Date: 08/05/2024

To,

Addl. Executive Engineer

RTC, Sangli

**Subject: - Permission for conducting a seminar on "Electrical Safety Awareness"**

**13<sup>th</sup> May. 2024 at 02.15 pm.**

Respected Sir,

As per your letter dated 10<sup>th</sup> May 2024, we, on behalf of Department of Electrical Engineering and Electrical Engineering Student Association (EESA), AMGOI, cordially permit you for conducting a seminar on "Electrical Safety Awareness" scheduled on 13<sup>th</sup> May 2024 at 02.15 pm. in Electrical Engineering Department AMGOI. Students should learn a lot about electrical safety and precautions. It will definitely help them to avoid public as well as animal accidents due to electric shocks. So kindly depute a suitable resource person for this seminar.

Thanking you.


  
Staff Coordinator  
(Mr. A. V. Kumbhar)



  
HOD

(Mrs. S.H. Shete)  
HOD

Electrical Engineering  
AMGOI, Faculty of Engineering  
Vathar Tarf Vadgaon,  
Tal. Hatkanangale, Dist. Kolhapur

  
Shri S.A. Mohale  
Dy. Ex-Engr. RTC  
Sangli



Shri Balasaheb Mane Shikshan Prasarak Mandal, Ambap's

# ASHOKRAO MANE GROUP OF INSTITUTIONS

DEPARTMENT OF ELECTRICAL ENGINEERING

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Phone: (0230) 2407740, 2407750, 2407760 Fax: (0230) 2407750

Accredited by NAAC with 'A' Grade CGPA 3.08



Date: 08/05/2024

To,

Mr. Sandip A. Mahulkar

Deputy Executive Engineer,

MAHADISCOM


**Subject: - Invitation for conducting a seminar on "Electrical Safety Awareness"**

**13<sup>th</sup> May. 2024 at 02.15 pm.**


Respected Sir,

As per your letter dated 10<sup>th</sup> May 2024, we, on behalf of Department of Electrical Engineering and Electrical Engineering Student Association (EESA), AMGOI, cordially invite you for conducting a seminar on "Electrical Safety Awareness" scheduled on 13<sup>th</sup> May 2024 at 02.15 pm. in Electrical Engineering Department AMGOI. Students should learn a lot about electrical safety and precautions. It will definitely help them to avoid public as well as animal accidents due to electric shocks.

Thanking you.

  
State Coordinator  
(Mr. A. V. Kumbhar)



  
HOD  
(Mrs. S.H. Shete)  
HOD  
Electrical Engineering  
AMGOI, Faculty of Engineering  
Vathar Tarf Vadgaon,  
Tal. Hatkanangale, Dist. Kolhapur

  
Shri S. A. Mahulkar





Shri Balasaheb Mane Shikshan Prasarak Mandal, Ambap's

# ASHOKRAO MANE GROUP OF INSTITUTIONS

DEPARTMENT OF ELECTRICAL ENGINEERING

NH - 4, Vathar Tarf Vadgaon, Tal:- Hatkanangale, Dist: - Kolhapur - 416112.

Phone: (0230) 2407740, 2407750, 2407760 Fax: (0230) 2407750

Accredited by NAAC with 'A' Grade CGPA 3.08



Date: 13/05/2024

To,

Mr. Sandip A. Mahulkar

Deputy Executive Engineer,

MAHADISCOM

Sub: - Thanking Letter.

Respected Sir,

We are very much thankful to you for conducting a seminar on "Electrical Safety Awareness" for students of electrical engineering on 13/05/2024. The session was very nice and informative. Students learn lot of new things about avoiding public as well as animal accidents due to electric shocks. It will definitely help them in the future.

I assure you, your suggestions and tips will be implemented by them for their future career.

Once again thank you and expecting your cooperation in future endeavors.

  
Staff Coordinator  
(Mr. A. V. Kumbhar)

  
Shri S.A. Mahulkar



  
HOD 13/5/24

(Mrs. S.H. Shete)  
HOD

Electrical Engineering  
AMGDI, Faculty of Engineering  
Vathar Tarf Vadgaon,  
Tal, Hatkanangale, Dist, Kolhapur



Shri Balasaheb Mane Shikshan Prasarak Mandal, Ambap's  
**ASHOKRAO MANE GROUP OF INSTITUTIONS, VATHAR**  
FACULTY OF ENGINEERING



**Attendance Sheet**

**Seminar on "Electrical Safety Awareness"**

Date: 13/05/2024

Sr. No.	Name of student	Signature
1.	Tammar Subhash Patil	
2.	Shubham Prakash More	
3.	Tejal Prakash Dewkar	
4.	Shivraj Purushottam Kadam	
5.	Sumit Arun Upase	
6.	Abhishek Bhanu Shendage	
7.	Pruthviraj Babasaheb Gurav	
8.	Aditya Babasa Patil	
9.	Amaan Babalal Lanjekar	
10.	Vedant Rajan Tangle	
11.	Mohsin M. Hasan Patankar	
12.	Digvijay Mahadev Borage	
13.	Soham Yashwant Yadav	
14.	Mahesh Santosh Patil	
15.	Supnil Namdev Mitake	
16.	Rushikesh Dilip Powar	
17.	Nikhil. C. Pawne	
18.)	Rupesh Nitin Rasankar	
19.)	Pratam Sunil Chavan	
20.	Aniket Vinod Madhale	
21.)	Rohan Dadasrauth Shedde	
22.)	Srinjyot Sunil Wairngade	
23.)	Akshay Kanyappa Pujari	
24.)	Mayuresh Vishwas Patil	

Event Coordinator

HOD





Shri Balasaheb Mane Shikshan Prasarak Mandal, Ambap's  
**ASHOKRAO MANE GROUP OF INSTITUTIONS, VATHAR**  
FACULTY OF ENGINEERING



**Attendance Sheet**

**Seminar on "Electrical Safety Awareness"**

Sr. No.	Name of student	Signature
25	Prathmesh. Chandrakant Magdum	
26	Omkar B. Pasare	
27	Rasika Deepak Chavan	
28.	Gayatri Ajit Jadhav	
29.	saloni uttam patil.	
30.	Kiran Prakash Patil	
31	Pradnya Rajendra Rambhise	
32.	Prachi Nandkumar Guxav	
33	Sopiya Ahmad Pathan	
34	Pallavi Shankar Patil	
35	Trupti Chandrakant Avaghad e	
36	Pranjata Ananda Chougule.	
37	Rutuja Krushnat Patil	
38	Pratiksha Prakash Mane	
39	Mrunali Vipinkumar Borge	
40	Vaishnavi shahaji shinde	
41	Shraddha Suhas Patil	
42	Pratiksha Nitin Kumaris	
43.	Nilam Ramesh Patil	
44	Priyanka Dhanaji Patil	
45.	Sakshi Manik Patil.	
46.	Prachi shivaji Patil	
47	Kiran Sunil Kamble	
48	Vaishnavi Yuvraj Pasil	
49	Swaranjali Balkrishna Jadhav	

Event Coordinator

HOD



Shri Balasaheb Mane Shikshan Prasarak Mandal, Ambap's  
**ASHOKRAO MANE GROUP OF INSTITUTIONS, VATHAR**  
FACULTY OF ENGINEERING



**Attendance Sheet**

**Seminar on "Electrical Safety Awareness"**

Sr. No.	Name of student	Signature
50	Nikam Nijala Nivrutti	
51	Sonali Namdev Gayakwad	
52	Aparna Bajirao Patil	
53	Akanksha uttamrao Patil	
54	Sayali Anil Bhalawane	
55	Anushka Avinash mahite	
56	Sayali Bajirao Ekshinge	
57	Prerana Umesh Patil	
58	Rutuja subhash savalekari	
59	Sheavani Satyashil Kibile.	
60	Prachi Sardar Patil.	
61	Somruddhi Shivaji Patil	

Event Coordinator

HOD





## Seminar on "Electrical Safety Awareness"

### Seminar Report: Electrical Safety

Organized by the Electrical Engineering Student Association (EESA) and the Department of Electrical Engineering at Ashokrao Mane Group of Institutions, Vathar

**Seminar Date:** 13/05/2024

The seminar on "Electrical Safety" organized by the Electrical Engineering Student Association (EESA) and the Department of Electrical Engineering at Ashokrao Mane Group of Institutions was a significant endeavor aimed at enhancing awareness and understanding of electrical safety practices among students. Coordinated by Prof. A. V. Kumbhar, the event featured notable guest and informative session focused on the importance of prioritizing safety in electrical engineering.

The seminar began with a warm introduction by Prof. A. V. Kumbhar. Head of Electrical Engineering Prof. Mrs. S. H. Shete welcomed the chief guest, Mr. Sandip Mahulkar, Deputy Executive Engineer at Maharashtra State Electricity Distribution Company Ltd. Mr. Mahulkar shared valuable insights gleaned from his extensive experience in the field, emphasizing the critical role of adherence to safety protocols in ensuring the well-being of both workers and the public.

### Key Takeaways:

- Risk Awareness:** Understanding the potential hazards associated with electrical systems is essential for mitigating risks and preventing accidents.
- Compliance and Regulations:** Adhering to safety standards and regulatory requirements is imperative to ensure the integrity and reliability of electrical installations.
- Training and Education:** Continuous training and education are vital for equipping individuals with the knowledge and skills necessary to identify and address safety issues effectively.
- Technological Innovation:** Embracing technological innovations in safety equipment and systems can significantly enhance the safety performance of electrical installations.



*Shri Balasaheb Mane Shikshan Prasarak Mandal, Ambap's*  
**ASHOKRAO MANE GROUP OF INSTITUTIONS, VATHAR**  
FACULTY OF ENGINEERING  
**Seminar on "Electrical Safety Awareness"**




Throughout the session, engaging discussions and presentations highlighted various aspects of electrical safety, including risk assessment, preventive measures, and regulatory compliance. Attendees had the opportunity to interact with industry experts and gain practical insights into safety practices applicable in diverse settings.

Prof. S. H. Skete, Head of the Department of Electrical Engineering, extended a heartfelt vote of thanks, expressing gratitude to all participants, organizers, and sponsors for their contributions to the success of the seminar.

A total of 61 students from SY and TY Electrical actively participated in the session, demonstrating their commitment to learning and promoting safety consciousness within the electrical engineering community.

In conclusion, the seminar on "Electrical Safety" served as a valuable platform for fostering collaboration and knowledge exchange among students, faculty, and industry professionals. By instilling a culture of safety awareness and responsibility, the event contributed to the ongoing efforts to create safer working environments and ensure the integrity of electrical systems.

  
Prof. A. V. Kumbhar  
**Event Coordinator**

  
Prof. Mrs. S. H. Skete  
**HOD**





Shri Balasaheb Mane Shikshan Prasarak Mandal, Ambap's  
**ASHOKRAO MANE GROUP OF INSTITUTIONS, VATHAR**  
FACULTY OF ENGINEERING  
**Seminar on "Electrical Safety Awareness"**



*Glimpses of the event:*



Seminar on "Electrical Safety" organized by the Electrical Engineering Student Association (EESA) and the Department of Electrical Engineering on 13/05/2024



Shri Balasaheb Mane Shikshan Prasarak Mandal's

# ASHOKRAO MANE GROUP OF INSTITUTIONS

NH - 4, Vathar Tarf Vadgaon, Tal: - Hatkanangale, Dist: - Kolhapur-416112

E-mail: [hodetc@amgoi.edu.in](mailto:hodetc@amgoi.edu.in), Website: [www.amgoi.org](http://www.amgoi.org)

Accredited by NAAC



DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION ENGINEERING

Date: 18/01/2024

To,  
The Director,  
Robosap Innovations Pvt. Ltd.  
Nipani, Karnataka

Subject: "IOT based coal miners health and safety monitoring"

Dear Sir,

I hope this letter finds you well. My name is Pradnya B Baddur, and I am studying in Final Year engineering at Ashokrao Mane Group of Institution, Vathar. During our visit at Robosap Innovations Pvt Ltd, I found that company is engaged in new projects based on IOT applications as per industrial need. Our proposed solution aims in design a system based on LORA technology which is helpful for long range communication in coal mines. This system ensures that proposed system will provide health protection, accident prevention and risk management alert system.

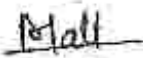
Along with this letter is our detailed proposal, which outlines the project's objective, methodology, expected outcomes, and the support we are seeking from Robosap Innovations Pvt Ltd. We are confident that with your backing, the project can set a new standard for safety and health monitoring in Coal Mine Safety.


We would be grateful for the opportunity to discuss this proposal with you in more detail. Please feel free to contact as per your convenience.

Thank you for considering our proposal. We look forward to the possibility of collaborating with Robosap Innovations Pvt. Ltd. on this exciting project.

Yours sincerely,

P. Baddur  
Pradnya Baddur  
Student

  
Prof. D. M. Mali  
Guide

  
Prof. Seema S. Patil  
HOD

Electronics & Telecommunication Engg  
Ashokrao Mane Group of Institutions  
Vathar Tarf Vadgaon.







**ROBOSAP INNOVATIONS  
PRIVATE LIMITED**

Robotics, Automation, IOT, and 3D printing

INNOVATIVE ROBOTICS AND AUTOMATION SOLUTIONS

AI | Healthcare | Industry 4.0 | Agriculture | Domestic

CIN: U74999KA2017PTC107522 PAN: AAICR5959A IEC: AAICR5959A

Date: 22-01-2024

To,  
The Head of Department,  
Department of Electronics and Telecommunication Engineering,  
AMGOI, Vathar

Re: Regarding approval of Sponsorship

Dear Sir/Madam,

This is to inform that our company is ready to sponsor the project entitled "**IOT based coal miners' health and safety monitoring**". The group of students mentioned below from B.Tech. Electronics and Telecommunication engineering students are allowed to do this project for our company.

We have given permission to complete this project as per our requirement. The facilities provided by project are innovative and useful for our company.

The names of the students are mentioned below:

1. Miss. Pradnya Basavraj Baddur
2. Miss. Mamata Mahavir Patil

Thank you.

Sincerely

Mr. Rohit Kudum  
Director,  
Robosap Innovations Pvt. Ltd.  
Nipani, Karnataka



**Pradnya Basavraj Baddur**

Department of Electronics and Telecommunication Engineering,

AMGOI, Vathar.

7843071762

pradnyabaddur@gmail.com

02 June 24

**Mr. Rohit Kadam**

Managing Director,

Robosap Innovations Pvt, Ltd.

Nipani, Karnataka

Dear sir,

**Subject: "IOT BASED COAL MINERS HEALTH AND SAFETY MONITORING"**

I hope this letter finds you well. My name is Pradnya Baddur, and I am a Last Year engineering student at Ashokrao Mane Group of Institution, Vathar, currently working under the guidance of Prof. D. M. Mali. As we found company is involved in IOT and AI applications we seek an sponsorship in developing an IOT based coal miners health and safety monitoring which is embedded based and which will be designed in such a way to increase the range of communication by cascading the Lora's.

We believe that this project aligns well with Robosap Innovations Pvt. Ltd. expertise in IOT and AI, and we are eager to collaborate with your esteemed company to bring this innovative idea to life.

Enclosed with this letter is our detailed proposal, which outlines the project's objectives, methodology, expected outcomes, and the support we are seeking from Robosap Innovations Pvt. Ltd. We are confident that with your backing, this project can set a new standard for IOT application and technological innovation.

We would be grateful for the opportunity to discuss this proposal with you in more detail. Please feel free to contact me at 7843071762 pradnyabaddur@gmail.com to schedule a meeting at your earliest convenience.

Thank you for considering our proposal. We look forward to the possibility of collaborating with Robosap Innovations Pvt. Ltd on this exciting project.

Yours sincerely,

*P. Baddur*

**Pradnya Baddur**

B.Tech [E&TEngg.]

Ashokrao Mane Group of Institution

*Mali*

**Miss. Dhanashree M. Mali**

Project Guide

Ashokrao Mane Group of Institution





## 1. Executive Summary

- **Purpose:** The accidents of calamities in coal mines are mainly due to the harsh environments and unsafe working conditions. This makes the need of employing mine checking systems at a high level for coal mines. It is quite hard to analyze all the environmental conditions constantly in a coal mine manually. So, we have introduced a system which is built using different sensors used to monitor both surrounding and health parameters and drives all the sensed parameters/values to the control center through LoRa.
- **Problem Statement:** Design and development of IOT based communication system for the safety of coal miners.
- **Proposed Solution:** The proposed system is a safety monitoring system which is embedded based and also we designed the system in such a way to increase the range of communication by cascading the Lora's.
- **Funding Request:** We request funding from Robosap Innovations Pvt. Ltd to support the development and implementation of this system.

## 2. Background and Context

- **Industry Overview:** Robosap Innovations Pvt. Ltd is at the forefront of providing automation solutions in AI and IOT.
- **Problem Details:** The accidents of calamities in coal mines are mainly due to the harsh environments and unsafe working conditions. This makes the need of employing mine checking systems at a high level for coal mines.
- **Literature Review:** This solution aims to enhance safety, ensure proper communication system in coal Mines.

## 3. Research Objectives

- **Primary Objective:** To develop a cost-effective, hazardous environment monitoring system for coal miners.
- **Secondary Objectives:** To ensure the system is user-friendly, scalable, and integrates seamlessly with systems.
- **Research Questions:** How can we effectively detect environmental hazards in Coal Mines? What is the most efficient way to restrict their use without disrupting the daily life of students?

## 4. Methodology

- **Research Design:** The project will follow a mixed-methods approach, combining hardware development (sensors and control systems) with software development (monitoring and alerts in form of message).
- **Data Collection:** Data on hazardous environmental condition will be collected through prototype testing.
- **Data Analysis:** The collected data will be analyzed to identify patterns and refine the system's ability to detect hazards and communicate in coal mine.
- **Timeline:** The project will be divided into phases: design (1 month), development (2 months), testing (1 month), and implementation (1 month).

## 5. Expected Outcomes and Benefits

- **Research Deliverables:** The final deliverables will include a working prototype of the safety monitoring system, detailed documentation, and a report on the testing results.
- **Industry Impact:** A safety monitoring system for coal mining using LoRa is a modern and innovative system that utilizes wireless communication technology to ensure the safety of miners during the mining process.
- **Student Learning Outcomes:** This project will provide hands-on experience in automation and safety management systems, enhancing the students' practical skills.

## 6. Budget and Funding Request

- **Detailed Budget:** The budget includes costs for sensors, microcontrollers, software development, testing equipment, and other necessary materials.
- **Funding Allocation:** We request funding to cover the cost of materials, prototype development, and testing. A detailed budget breakdown is attached.
- **Additional Resources:** The college will provide laboratory space and basic tools, while Robosap Innovations Pvt. Ltd will offer technical guidance.

## 7. Project Team

- **Student Team:**
  1. Pradnya B. Baddur
  2. Mamata M. Patil
- **Faculty Guide:** Prof. D. M. Mali
- **Industry Mentor:** Mr. Rohit. V. Kadam

## 8. Timeline

- **Phases:**
  - **Design:** 1 month
  - **Development:** 2 months
  - **Testing:** 1 month
  - **Implementation:** 1 month
- **Milestones:**
  - Completion of design, development of the prototype and successful testing.
  - Software designing for 22 rooms per
- **Completion Date:** The project is expected to be completed within 5 months.

## 9. Risk Management

- **Potential Risks:** Delays in component delivery, technical challenges in integration, and unforeseen testing issues.
- **Mitigation Strategies:** We have identified backup suppliers, will maintain regular progress reviews, and will conduct early-stage testing to catch issues early.



## 10. Conclusion

- **Final Appeal:** safety monitoring system which is embedded based and also we designed the system in such a way to increase the range of communication by cascading the Lora's while showcasing Robosap Innovations Pvt. Ltd's expertise in automation. We seek your support to bring this innovative solution to fruition.
- **Next Steps:** We propose a meeting with Robosap Innovations Pvt. Ltd to discuss the project details and finalize the funding arrangement.

A  
PROJECT REPORT  
ON

**“IOT BASED COAL MINERS HEALTH AND  
SAFETY MONITORING”**

SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENT FOR THE  
DEGREE OF  
B.Tech. (ELECTRONICS & TELECOMMUNICATION ENGINEERING)

OF

Dr. Babasaheb Ambedkar Technological University, Lonere

BY

1.Pradnya Basavraj Baddur (T2162171372513)  
2.Mamata Mahavir Patil (T2162171372521)

Under the Guidance of  
Prof. Mrs. D. M. Mali



DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION  
ENGINEERING

Shri. Balasaheb Mane Shikshan Prasarak Mandal, Ambap's  
ASHOKRAO MANE GROUP OF INSTITUTIONS  
FACULTY OF ENGINEERING  
Vathar Tarf Vadgaon, Dist. Kolhapur  
ACADEMIC YEAR 2023-24



## ABSTRACT

The safety of miner workers is a significant challenge. Miner's health and life are helpless against a few basic issues, which incorporates the working environment, yet in addition its delayed consequence. To extent profitability and diminish the expense of mining alongside the thought of the safety of miners, a creative and innovative methodology is required. The proposed system comprises of two sections one to monitor the mineworker status and another one is the total monitoring section. In the mine laborer area, air contamination is primarily due to the outflows because of emissions of particulate matter and gases incorporate such as Sulphur dioxide ( $SO_2$ ), Nitrogen dioxide ( $NO_2$ ), Carbon monoxide ( $CO$ ) and so forth we are utilizing two smoke sensors to monitor the diverse type of smoke level in the mine.

To monitor the concentration level of unsafe gases, semiconductor gas sensors are utilized. If any smoke sensor value goes beyond the threshold range at that point the microcontroller will allow an alert to the person through a buzzer and sends the information to the monitoring section through the LoRa WAN module and in the monitor received data will be uploaded in the webpage through IoT. LoRa WAN is a media access control (MAC) and multi-point protocol for wide range networks. It enables low powered devices to communicate with Internet of Things (IoT) applications over long-run remote connections.

LoRa WAN uses lower radio frequencies with a longer range. The LoRa WAN is a low-power, wide area networking (LPWAN) protocol based on LoRa Technology. LoRa WAN is highly considerable for its optimizing LPWAN for its range, battery capacity, durability, and cost-efficient. In underground mining, there are various factors due to which miners tumble down and lose consciousness. To overcome this issue, the system gives a crisis alarm to the supervisor using the LoRa WAN module.



So, in this system, two sections are considered one is to monitor the miner's health status and the other one is the total monitoring section. In the mine worker section, 2 smoke sensors are employed to monitor the different types of smoke level in the mine and the sensor measures values given to the microcontroller. If the smoke sensor values increase beyond the threshold range, then the microcontroller will give an alert to the person through buzzer and send the data to the monitoring section through the Lora WAN module. The received data is uploaded to the webpage through IOT

In addition to that health parameters such as Heartbeat rate, Respiratory rate are monitored for the coal mine workers with the help of heartbeat and respiratory sensors. Each sensor monitors the respective parameters and they are continuously sent to the IoT webpage using Lora WAN Technology. The sensors are programmed with a certain range of values, when the sensor outputs go above or below the buzzer is turned ON.

2]P. Hazarika (2016) et al. presented work on Implementation of Smart Helmet for Coal Mine Workers provided this model presents implementation of safety helmet for coal mine workers. This helmet is equipped with methane and carbon monoxide gas sensor. This sensor senses the gas and the data is transmitted to the control room wirelessly, through a wireless module called X-Bee connected with the helmet. When the methane or carbon-monoxide gas concentration is beyond the critical level, controller in the control room triggers an alarm and keeps the plant and the workers safe by preventing an upcoming accident.

The smart safety helmet is one of most effective and useful technique in mining industries due to its excellent sensing ability, low cost, good and reliable signal transmission. Also, the system can be monitored in Lab view and in a portable mini monitor panel, which gives the system versatility. Lab-view monitoring is more accurate but is little expensive due to the expense of the software. On the other hand, hand-held portable monitoring device is very cheap and good for monitoring few routers.

3]Suganya, R., & Gowtham (2021) presented work on Individual Health and Safety Monitoring of Workers in Deep Underground Mines Using IOT provided this model presents a strategy for investigating and guaranteeing wellbeing of the labourers in mines. It is carried out by using IOT to set up remote sensor organize. Different sensors such as Temperature, Heartbeat, CH<sub>4</sub> (Methane), CO<sub>2</sub> (Carbon dioxide), CO (Carbon monoxide) are utilized for estimating air quality boundaries. This system consists of two nodes one is Safety node and the other is Health node. These nodes are wearable nodes.

4]Poonima, Mrs & Sai, T. (2020) presented work on Coal mine monitoring system using Arduino and LoRa provided this aim of this model is a smart tracking machine for coal mineshafts, which goals at checking the coal mineshaft produce system. In this the IoT detects the uncertainty within the surroundings in beforehand using data evaluation and reviews the scenario to the involved authority and miners.[1] In this monitoring system various sensors (CO<sub>2</sub> sensor, smoke sensor, DTH11 sensor) are connected to the Arduino which collects the statistics from them and transmit to the LoRa which is connected to the Arduino. The LoRa which is connected to the Node MCU enables to ship the statistics in cloud (Thing speak cloud).In order to check the readings, the mobile app (push bullet app) is connected to cloud where all the results of the respective gadgets are visible on the app.

5]U. Raza, P. Kulkarni and M. Sooriya Bandara (2017) presented work on IOT Based Advanced Underground Coal Mine Environmental Detection and Auto Alert system for Coal Mine Workers using Blynk Application provided the present work focuses on sensing environmental parameters such as temperature, Humidity, Gas from different locations in the mines and sends the alert to the mine control room who uses blynk application whenever there seems to be dangerous



situation. This system uses an IoT platform as a medium to transmit the data. Here all the sensors are together placed as a unit to an Arduino board and sent into the coal mine as a bot (Robot) which observes the respective parameters and sends the information to the user using Blynk application. When any of the parameters reaches its peril, it alerts the user in the Blynk application.

6]R. K. Kodali and S. Sahu (2018) presented work on IoT Based safety system for coal mines they developed model senses the environmental parameters from different locations in the mine and sends alert to the mine control room. This is a Publisher- Subscriber model (Separates the client that sends message and client that receives message) based system. In this system the Node MCU acts like a publisher which publishes the sensor data to the Raspberry Pi, which is a MQTT Broker (Message Queuing Telemetry Transport-used for data exchange between devices and server).

### **1.2 Problems statement:**

From our Literature Survey we found that many systems were implemented using IoT where a Wi-Fi module is used to transmit the information. IoT devices aren't always included in the strategy for security and privacy. Security protocols with IoT devices can be difficult and cost is also another concern. The proposed system is a safety monitoring system which is embedded based and also we designed the system in such a way to increase the range of communication by cascading the LoRa's.

### **1.3 IMPORTANCE OF COAL MINE HEALTH AND SAFETY MONITORING**

**1. Protecting Lives:** The foremost importance of health and safety monitoring is to protect the lives of coal miners. Mining is inherently dangerous, with risks of cave-ins, explosions, exposure to toxic gases, and accidents involving heavy machinery. Monitoring systems help mitigate these risks by detecting hazards in real-time and enabling timely interventions to prevent accidents and save lives.

**2. Preventing Occupational Illnesses:** Coal mining exposes workers to various occupational hazards, including respiratory diseases (such as black lung disease), musculoskeletal disorders, hearing loss, and traumatic injuries. Health monitoring allows for early detection of occupational illnesses and injuries, enabling prompt medical treatment and preventive measures to minimize their impact on miners' health.

**3. Compliance with Regulations:** Many countries have stringent regulations governing health and safety standards in mines. Compliance with these regulations is not only a legal requirement but also essential for ensuring the well-being of miners and maintaining the social license to operate for mining companies. Health and safety monitoring systems

help companies meet regulatory requirements and demonstrate their commitment to protecting workers' health.

- 1. Enhancing Productivity:** A healthy workforce is essential for maintaining productivity in coal mines. Health monitoring helps identify and address factors that could affect miners' well-being and performance, such as exposure to harmful substances, fatigue, and ergonomic issues. By promoting a safe and healthy work environment, monitoring systems contribute to improved productivity and operational efficiency in mines.
- 2. Minimizing Environmental Impact:** Health and safety monitoring in coal mines not only protects miners but also helps minimize the environmental impact of mining activities.

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- 2. Minimizing Environmental Impact:** Health and safety monitoring in coal mines not only protects miners but also helps minimize the environmental impact of mining activities.

Monitoring systems can detect leaks, spills, and emissions of pollutants, allowing for prompt containment and mitigation measures to prevent environmental contamination and ecosystem.

3. **Safeguarding Communities:** Mining activities can have implications for the health and safety of surrounding communities, particularly concerning air and water quality, noise pollution, and the risk of accidents. Health and safety monitoring help mitigate these risks by ensuring that mining operations are conducted responsibly and with minimal impact on neighboring communities.
4. **Promoting Corporate Responsibility:** Health and safety monitoring is an essential aspect of corporate social responsibility for mining companies. By investing in monitoring systems and prioritizing the well-being of their workers, companies demonstrate their commitment to ethical business practices and sustainable development, enhancing their reputation and stakeholder trust.
5. **Long-Term Sustainability:** Ultimately, the importance of health and safety monitoring lies in its contribution to the long-term sustainability of the mining industry. By protecting the health and safety of workers, mitigating environmental impacts, and upholding social responsibility, monitoring systems help ensure that mining operations can continue safely and responsibly, benefiting both current and future generations.

#### **1.4 Objectives:**

1. **Worker Health Protection:** Miners are exposed to various occupational hazards such as physical risks (e.g., cave-ins, falls), chemical exposures (e.g., silica dust, toxic gases), and ergonomic strains. The objective is to minimize these risks to prevent occupational illnesses and injuries.
2. **Accident Prevention:** Implementing measures to mitigate the risk of accidents is crucial. This involves comprehensive safety protocols, proper training, and adherence to regulations to prevent incidents like collapses, explosions, and machinery-related accidents.
3. **Compliance with Regulations:** Ensuring that mining operations comply with state and federal regulations regarding health and safety standards is vital. This includes adherence to guidelines set forth by agencies like the Mine Safety and Health Administration (MSHA) and the Occupational Safety and Health Administration (OSHA).
4. **Emergency Preparedness:** Establishing protocols and providing training for emergency situations such as mine collapses, fires, or hazardous material spills is critical. This ensures that workers know how to respond swiftly and effectively to mitigate risks and save lives.
5. **Promotion of Safety Culture:** Fostering a culture of safety within mining operations is key to ensuring that all workers prioritize safety in their actions and decisions. This involves ongoing education, communication, and recognition of safe practices.
6. **Risk Management:** Identifying and assessing risks associated with mining activities allows for the implementation of targeted control measures to reduce the likelihood and severity of incidents.



### 1.5 Block Diagram:

Transmitter module: It is installed inside the coal mine. The transmitter module contains the Flame sensor, Body temperature sensor, and SpO2 sensor, heart rate, MQ2 gas sensor. Overall, transmitter modules play a critical role in enabling real-time monitoring and ensuring the safety and health of personnel working in coal mines by facilitating the transmission of vital environmental data to monitoring and control systems.

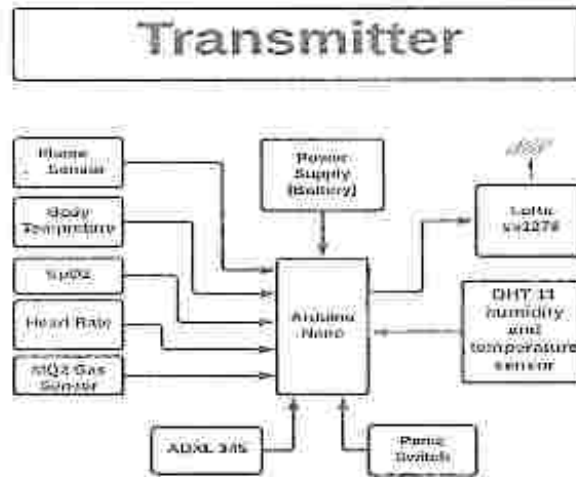


Fig. 1.1 – Block diagram of transmitter

Receiver modules play a critical role in ensuring the effective operation of coal mine safety systems by receiving, processing, and acting upon the data transmitted by sensor nodes to monitor and mitigate potential safety hazards and risks in the mine environment.

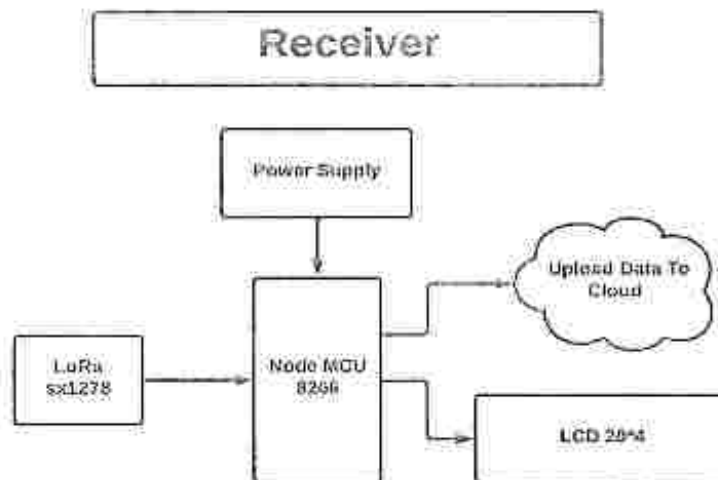


Fig. 1.2 – Block diagram of receiver

## 1.6 Hardware design

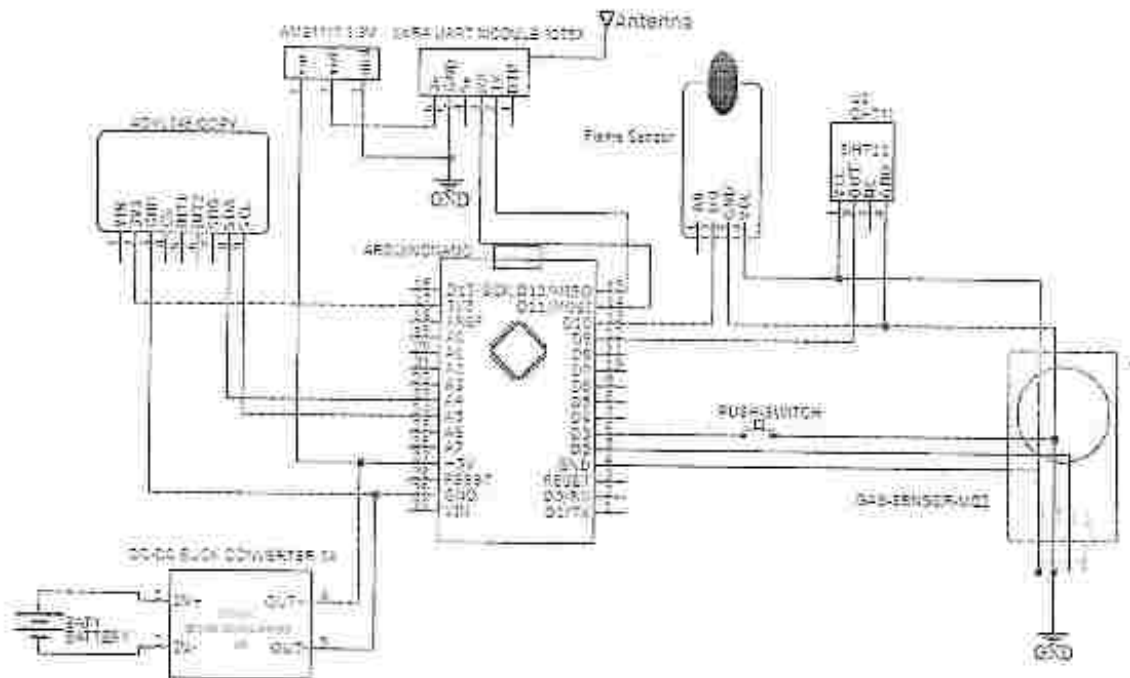


Fig: Circuit diagram of transmitter

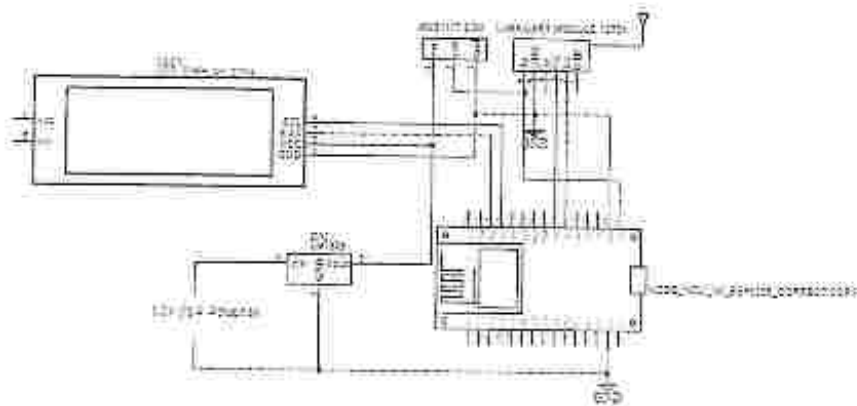


Fig :Circuit diagram of receiver

## 1.7 Circuit diagram description

The circuit has a power supply unit which include DC power supply filters, and regulators to provide the required power supply for the circuit to work. The transformer receives a power supply of 220V the transformer step down the voltage to 12v which is further processed to 5v supply which is required by the Arduino and other components to function.

The input for each sensors such as temperature sensor, gas sensor, fire sensor and smoke sensor are given. And these sensor works according to the command given in the Arduino Nano and the value for these sensors are fixed within the specified range. These sensors monitor each parameter like temperature, fire, gas and smoke. And the values detected by each sensor are displayed in LCD.

The circuit diagram illustrates the major components and their interconnections in the coal mine safety monitoring and alerting system. The system is built around the Node MCU ESP12E Microcontroller, which serves as the central control unit. The Node MCU is responsible for gathering data from various sensors, analyzing it, and triggering appropriate actions based on the sensor readings.

At the core of the system, there are three primary sensors: The MQ2 Gas Sensor for smoke detection, the DHT11 Temperature and humid sensor for temperature and humidity measurements, and the smoke Sensor for detection of smoke. These sensors are connected to the Node MCU which collects the data.

The NodeMCU also interfaces with other components, including an LCD and panic switch. The LCD is used to display real-time information such as sensor readings, alerts, and status updates. The panic switch provides an audible alarm in case of emergencies.

To enable wireless communication, the system incorporates LoRa Wireless Transmitter and Receiver modules. These modules establish a wireless connection between the coal mine monitoring system.

The central control unit is another NodeMCU connected to a display or monitoring system. The communication between the Node MCU and the central control unit is bidirectional. The Node MCU transmits sensor data wirelessly to the central control unit, allowing real-time monitoring and analysis of the miners safety parameters.

The power system for the is essential component. It ensures a stable and reliable power source for all the system components.

Overall the circuit diagram depicts the integration of various components, sensors and wireless modules to create a comprehensive coal miners health and safety monitoring system.

The NODE MCU acts as a brain of system, collecting data, processing it, and facilitate wireless communication.

## Software information:

### C PROGRAMMING

The C programming language is a general-purpose, operating system-agnostic, and procedural language that supports structured programming and provides low-level access to the system memory. Dennis Ritchie invented C language in 1972 at AT&T (then called Bell Laboratory), where it was implemented in the UNIX system on DEC PDP 11. It was also the successor of the B programming language invented by Ken Thompson. C was designed to overcome the problems encountered by BASIC, B, and BPCL programming languages.



## 1.8. RESULT

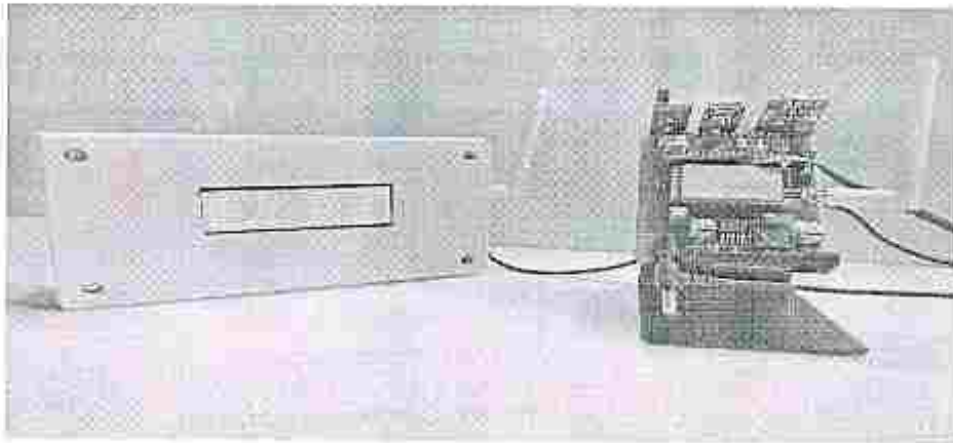


Fig5.1:Projectsetup.

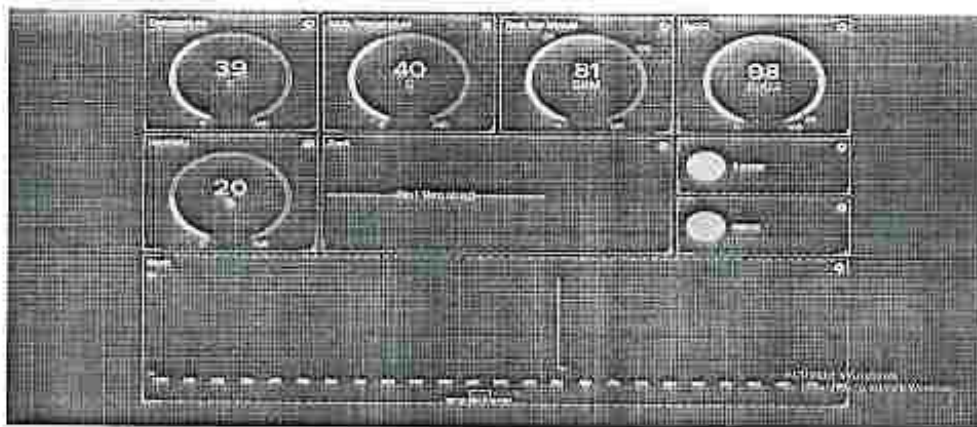


Fig5.2:OutputthroughAdafruit



Fig: Output on LCD display

## 1.9 Conclusion: -

The Coal Miners Health And Safety Monitoring System represents a significant technological innovation with far-reaching implications for safety and security monitoring. By leveraging the power of LoRa communication and integrating a diverse array of sensors, this system offers unparalleled capabilities in real-time parameter monitoring and alerting. While it brings several advantages such as extended range, scalability, and cost-effectiveness, it also presents challenges related to range constraints, maintenance, and sensor calibration.

The Arduino microcontroller is used to create a prototype for a mine safety system in this proposed method. This device is made from each hardware and software program factors. The hardware is made from several sensors, while the software program is made of an Android software that connects to the Arduino board and other hardware additives via the internet of things.

The use of the wireless community to growth mine safety is a solution for reaching each protection and development in mining initiatives. This look at objectives to automat the method of mining unit monitoring and handing over updates via cell networks. This gadgets hardware components talk with all the sensors. This project is used to optimise the utilisation of the mining subject without the intervention of human beings with the aid of using sensors necessitates ensuring the protection and well-being of employees and property.



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PRIVATE LIMITED**

Robotics, Automation, IOT, and 3D printing

INNOVATIVE ROBOTICS AND AUTOMATION SOLUTIONS

AI | Healthcare | Industry 4.0 | Agriculture | Domestic

CIN: U74999KA2017PTC107522 PAN: AAICR5959A IEC: AAICR5959A

Date: 24-06-2024

To

The Director

Ashokrao mane Group of Institution, Vathar

Re. Project Completion Letter

Dear Sir,

I am writing on behalf of Robosap Innovations Pvt. Ltd, which has provided sponsorship for your final year E&TC students for project entitled "IOT based coal miners' health and safety monitoring". The project was approved on 22-01-2024 and the due date for the completion of the project was 30-06-2024. I am glad to inform you that the industrious work of your students and their tireless enthusiasm led to the completion of the project before the due date.

The company is happy to work with you and looks forward to keeping this professional relationship strong and glued together.

Thank you.

Sincerely,

Mr. Rohit Kadam  
Director,  
Robosap Innovations Pvt. Ltd.  
Nipani, Karnataka



www.robosap.in



Yarnal Road, Nipani



+91 9902071516



info@robosap.in







**Pranita Arun Kudache**  
Ashokrao Mane Group of Institutions,  
Vathar Tarf Vadgoan,  
Tal-Hatkanangale,Kolhapur  
7387527839  
02 June 24

**Mr.Rohit Kadam**  
Director,  
Robosap Automation  
Nippani,Karnataka

Dear sir,

**Subject: "Waste segregation using IoT"**

I hope this letter finds you well. My name is Miss Pranita Arun Kudache, a final-year engineering student at Ashokrao Mane Group of Institutions, Vathar, currently working under the guidance of Dr. Chetan Rajan Dongarsane.

During our recent internship at Robosap Automation , my team and I explored innovative solutions to address waste management challenges in public and institutional spaces. We propose the development of an **Waste segregation using IoT** system to streamline the sorting of waste into categories such as biodegradable, recyclable, and non-recyclable. This system aims to promote efficient waste handling, reduce manual intervention, and contribute to sustainability efforts.


Given Robosap Automation's expertise in automation and smart technologies, we believe this project aligns perfectly with your vision for innovation and environmental stewardship. Enclosed with this letter is a detailed proposal outlining our project's objectives, technical approach, expected outcomes, and the support we seek from Robosap Automation.

We are confident that, with your support, this project can set a benchmark in smart waste management, showcasing Robosap Automation's commitment to sustainability and cutting-edge technology.


We would be grateful for the opportunity to discuss this proposal further. Please feel free to contact me at 7387527839 to schedule a meeting at your earliest convenience.

Thank you for considering our proposal. We look forward to the possibility of collaborating with Robosap Automation on this impactful initiative.

Yours sincerely,

  
**Miss. Pranita Arun Kudache**  
B.Tech [E&TC Engg.]  
Ashokrao Mane Group of Institution



  
**Dr.Chettan Rajan Dongarsane**  
Project Guide  
Ashokrao Mane Group of Institution



## 1. Executive Summary

- **Purpose:** This proposal outlines a project to develop an IoT-based waste segregation system to automatically sort waste into biodegradable, recyclable, and non-recyclable categories.
- **Problem Statement:** Inefficient waste management in institutions and public spaces results in improper segregation, increased waste processing costs, and environmental concerns.
- **Proposed Solution:** The project will design an IoT-enabled smart waste segregation system that uses sensors to classify waste and direct it to appropriate bins.
- **Funding Request:** We seek funding from Robosap Automation to support the design, development, and implementation of the system.

## 2. Background and Context

- **Industry Overview:** Robosap Automation's expertise in automation and smart solutions makes it an ideal partner for this project focused on efficient waste management.
- **Internship Experience:** During our internship at Robosap Automation, we identified the potential for automated waste segregation to reduce manual labor and improve sustainability.
- **Problem Details:** Manual segregation is time-consuming and often inaccurate, leading to improper waste handling and increased environmental impact.
- **Literature Review:** The proposed system aims to optimize waste management through real-time monitoring, automated sorting, and data-driven insights for better resource utilization.

## 3. Research Objectives

- **Primary Objective:** To develop a cost-effective IoT-based waste segregation system that automatically sorts waste into appropriate categories.
- **Secondary Objectives:** To ensure the system is user-friendly, scalable, and integrates with existing waste management processes.
- **Research Questions:**
  - How can IoT sensors accurately classify waste materials?
  - What is the most efficient way to automate waste sorting while maintaining cost-effectiveness?

#### 4. Methodology

- **Research Design:** The project will involve the design and integration of sensors, microcontrollers, and software to create a comprehensive waste segregation system.
- **Data Collection:** Data on waste types and disposal patterns will be collected during prototype testing in selected areas.
- **Data Analysis:** Data will be analyzed to optimize the system's performance and improve waste classification accuracy.
- **Timeline:**
  - **Design:** 1 month
  - **Development:** 2 months
  - **Testing:** 1 month
  - **Implementation:** 1 month

#### 5. Expected Outcomes and Benefits

- **Research Deliverables:** A working prototype of the IoT-based waste segregation system, along with technical documentation and a report on testing results.
- **Industry Impact:** The system will reduce waste processing costs, enhance recycling rates, and reinforce Robosap Automation's commitment to sustainability and innovation.
- **Student Learning Outcomes:** Students will gain practical experience in IoT applications, automation, and environmental management.

#### 6. Budget and Funding Request

- **Detailed Budget:** The budget covers sensors, microcontrollers, software development, testing, and other materials.
- **Funding Allocation:** We request funding for materials, prototype development, and testing. A detailed budget breakdown is attached.
- **Additional Resources:** The college will provide lab space and basic tools, while Robosap Automation will offer technical guidance.

#### 7. Project Team

- **Student Team:**
  1. Miss. Pranita Arun Kudache
  2. Miss Rutuja Sunildatt Gote
  3. Miss Pratiksha Ramesh Dhobale
- **Faculty Guide:** Dr.Chettan Rajan Dongarsane
- **Industry Mentor:** Mr.Rohit Kadam  
Director

---

## 8. Timeline

- **Phases:**
    - **Design:** 1 month
    - **Development:** 2 months
    - **Testing:** 1 month
    - **Implementation:** 1 month
  - **Milestones:** Completion of design, prototype development, testing, and full-scale implementation.
- 

## 9. Risk Management

- **Potential Risks:**
    - Delays in component procurement
    - Technical challenges in integration
    - Sensor calibration issues
  - **Mitigation Strategies:**
    - Maintain backup suppliers for components
    - Conduct regular progress reviews
    - Early-stage testing to address challenges proactively
- 

## 10. Conclusion

- **Final Appeal:** This project presents a valuable opportunity to revolutionize waste management through IoT technology. We seek your support to turn this innovative idea into reality, reinforcing Robosap Automation's leadership in smart solutions.
  - **Next Steps:** We propose a meeting to discuss project details and finalize funding arrangements.
-





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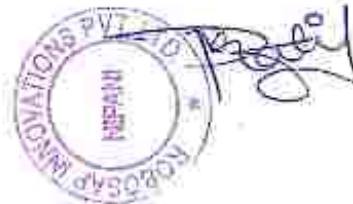
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Sincerely,

Mr. Rohit Kadam  
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Nipani, Karnataka



A

Project Report On

## **“Waste Segregation Using IOT”**

SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENT FOR THE  
DEGREE OF

**B.Tech. (ELECTRONICS & TELECOMMUNICATIONENGINEERING)**

OF

**Dr. Babasaheb Ambedkar Technological University, Lonere**

BY

1. Rutuja Sumildatt Gote. T2162171372511
2. Pranita Arun Kudache. T2162171372516
3. Pratiksha Ramesh Dhobale. T2162171372508

Under the Guidance of

**Dr.C.R.Dongarsane**



**DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION  
ENGINEERING**

**Shri.Balasaheb Mane Shikshan Prasarak Mandal, Ambap's  
ASHOKRAO MANE GROUP OF INSTITUTIONS  
FACULTY OF ENGINEERING  
VATHAR TARF VADGOAN, KOLHAPUR  
ACADEMIC YEAR 2023-2024**

## **Introduction**

The trash generated in India today presents a number of environmental difficulties, including poor waste collection, treatment, transport, and disposal. The entire challenge, from conception to disposal, is the most challenging. Our nation cannot exist under the current system, which leads to damage of the environment and public health, because of the growing urban population. garbage can be liquid or solid, and each sort of garbage has a unique way of being disposed of. Human welfare will be threatened by waste. To live a healthy lifestyle, proper waste management is essential and crucial.

If the dustbins are often flooded, an unsanitary environment will be produced. Separating dry and moist trash is a crucial part of waste segregation. Waste segregation lowers the amount of waste dumped in landfills and lowers pollution of the air and water. Compared to mixed waste, it is simpler to dispose of waste that has been separated.

This program aids in the management and classification of garbage. Dustbins are positioned across the city; they are delivered with a low-cost embedded mechanism to help with rubbish bin tracking. When the trash can is fully loaded, an SMS text message is delivered to the municipal corporation. When the state of the bin is made known via the Internet, the relevant authorities will then take immediate action. The ultrasonic sensors, node MUC, and servo motor used to construct the suggested system.

The occupational hazard for waste workers is reduced. Also, the segregated waste could be directly sent to the recycling and processing plant instead of sending it to the segregation plant then to the recycling plant. . When the waste is segregated into basics streams such as wet, dry he waste has higher potential of recovery, and consequently, recycled and reused. The wet waste fraction is often converted either into compost or methane-gas or both. Compost can replace demand for chemical fertilizers, and biogas can be used as a source of energy



## Proposed Methodology:

### FlowDiagram



Fig. 1 Methodology.

A mechanical arrangement can be utilized for isolating wet and dry waste into independent compartments. Sensors can be utilized for isolating wet and dry. In this process, IR sensor detects the object when placed. Based on the moisture content present in the object, moisture sensor will detect the type of waste. The waste is segregated accordingly in to the bins. It leads to reduced quantities of hazardous waste and toxic gases like carbon-di-oxide and methane. It also reduces human efforts.

## BlockDiagram

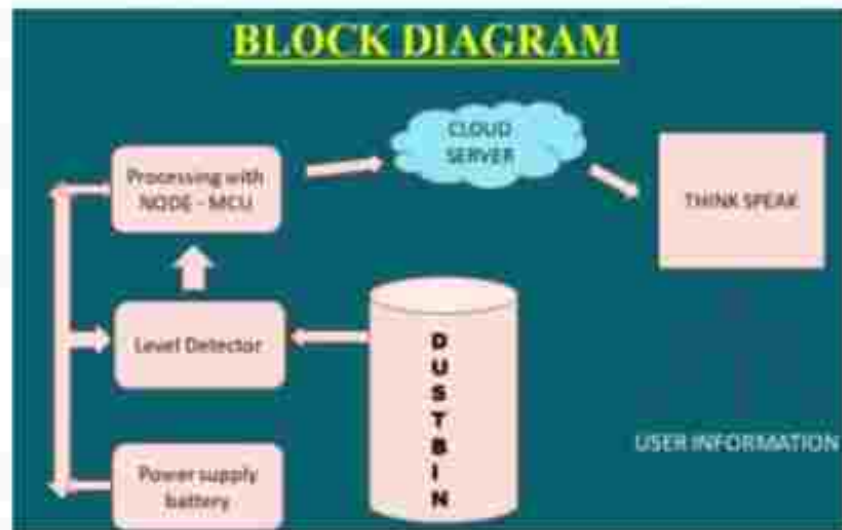


Fig. 2 Block diagram of Waste Segregation Using IOT

## **Implementation:**

### **1.Purpose:**

The purpose of this implementation is to create a system that can segregate waste into different categories based on certain characteristics detected by sensors. The scope includes the integration of sensors with the ESP32 microcontroller to collect data, process it, and display relevant information on an LCD display.

### **2.Sensor Functionality:**

Each sensor has a specific role in the waste segregation process: **Moisture Sensor:** Detects moisture content in waste materials, aiding in the segregation of wet (organic) and dry waste. **IR Sensor:** Identifies certain materials (e.g., metal, specific plastics) based on their reflective properties, assisting in sorting waste into appropriate categories. **Ultrasonic Sensor:** Measures the fill level of waste bins, providing real-time data on waste accumulation for efficient management.

### **3.Microcontroller Integration:**

The ESP32 microcontroller serves as the central processing unit, interfacing with the sensors to collect data and control the LCD display. Arduino IDE is used for programming the ESP32 board, leveraging its compatibility with various sensors and ease of development.

### **4.Data Display and Feedback:**

An LCD display is utilized to present sensor readings and relevant information to users or operators. The display provides real-time feedback on moisture levels, material detection, and waste bin fill levels, aiding in decision making and system monitoring.



## **Results And Discussion:**

The implementation of the waste segregation system utilizing ESP32 microcontrollers and various sensors, including moisture sensors, IR sensors, and ultrasonic sensors, along with an LCD display, has yielded promising results. Below is a discussion of the results obtained and the implications of this system:

### **1. Sensor Integration and Functionality:**

The sensors were successfully integrated with the ESP32 microcontroller, allowing for seamless data collection and processing. Each sensor performed its designated function effectively. The moisture sensor accurately detected the moisture content of waste materials, facilitating the segregation of wet and dry waste. The IR sensor reliably identified certain materials based on their reflective properties, aiding in the sorting process. The ultrasonic sensor provided real-time data on waste bin fill levels, enabling efficient waste management.

### **2. Data Display and Feedback:**

The LCD display effectively presented sensor readings and relevant information to users or operators in a clear and concise manner. Real-time feedback on moisture levels, material detection, and waste bin fill levels facilitated informed decision-making and system monitoring.

### **3. System Performance and Reliability:**

During testing, the waste segregation system demonstrated consistent performance and reliability under various operating conditions. Sensor accuracy, data integrity, and system responsiveness met the desired requirements, validating the efficacy of the implementation.

#### 4. Scalability and Customization:

The modular design of the system allows for scalability and customization to accommodate additional sensors, features, or integration with external systems. This flexibility ensures adaptability to specific use cases or evolving requirements, enhancing the system's versatility



**Fig. 18 Model Waste Segregation Using IOT**



## Activities under Industry- Institute Interaction(III)

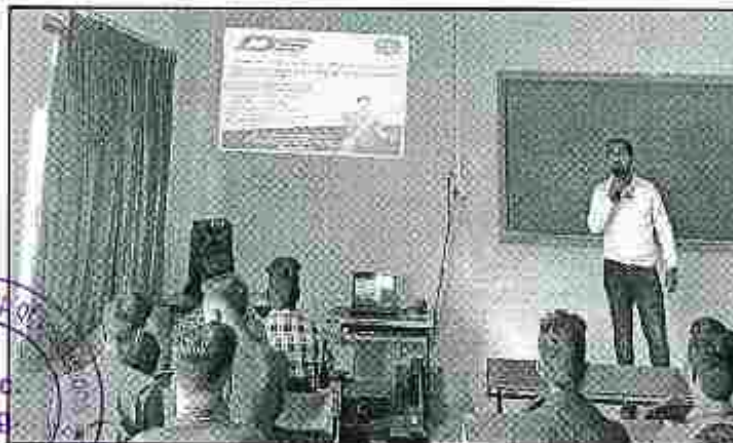
- MoU signed with **Vidhi Automation**, Shirdhon on dated 04<sup>th</sup> December 2023.



- MoU signed with **DS Automation**, Kolhapur dated on 29<sup>th</sup> November 2022.



- One Day Seminar on "PLC Automation" had organized in association with **DS Automation** at AMGOI on dated 02<sup>nd</sup> December 2022.







## Activities under Industry- Institute Interaction (III)

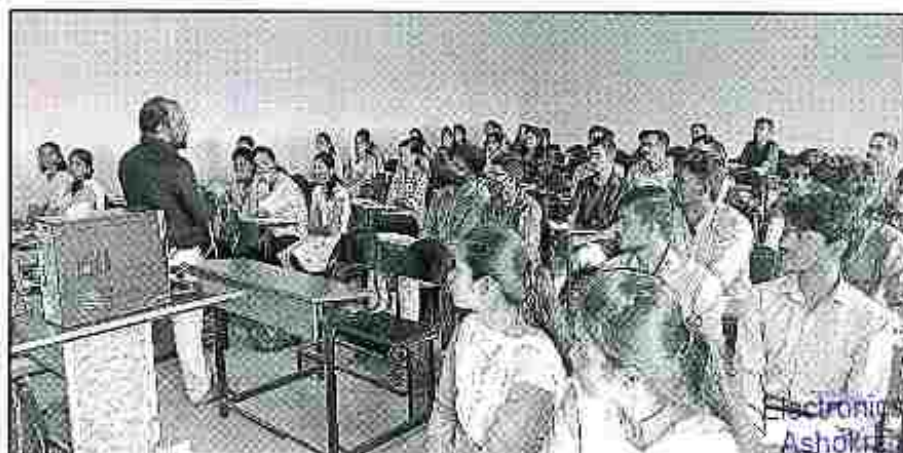
- Internship/Industrial Training done by the 10 Students at DS Automation, Kolhapur during A.Y. 2023-24.



- MoU signed with Bits Techno Development Pvt. Ltd., Kolhapur dated on 03<sup>rd</sup> December 2021.



- One Day Workshop on 'Computer Network and Cloud Computing' had organized in association with Bits Techno Development Pvt. Ltd., Kolhapur dated on 10<sup>th</sup> December 2021.



*[Signature]*  
HOD

Electronics & Telecommunication  
Ashokrao Mane Group of Institutions  
Vathar, Tarf Vadgaon.

## **Industry Institute Interaction Activity Report**

**Activity title:** Industry- Institute Interaction (Under Internship Activity)

**Activity type:** R&D

**Mode of conduction:** Offline

**Date:** 29th April 2023

**Time:** 11 to 1.30 PM

**Venue:** HOD Cabin

**Objective:**

To organise and carry out programmes to enhance and strengthen the technical skills of the Institute's teachers and students with the assistance of industry expertise.

**Resource person:** Mr.Nikhil Nimbalkar, Shree ElectroArts, Jaysingpur

**Participants:** E&TC students and staff.

**Details of activity:**

On 29th April 2023, department of E&TC signed MOU with Shree ElectroArts, Jaysingpur. Prof.S.A.Bhosale coordinated the activity.

**About Shree Electrot Arts:**

Registered in 2014, India Shree Electrot Arts has gained immense expertise in supplying & trading of Electronic circuit boards etc. The supplier company is located in Jaysingpur, Maharashtra and is one of the leading sellers of listed products. Buy Electronic circuit boards in bulk from us for the best quality products and service.

**Outcome:**

As a result of this, we jointly plan and execute activities like, Internship/ Industrial Training/Industrial visits of the students, Mutual utilization of technological facilities and expertise, knowledge and facility sharing for industry sponsored projects for betterment and development of technical skill of students and faculty of the Institute by taking help of Shree ElectroArts, Jaysingpur.

**Publicity:**

Wide publicity is given through Facebook, LinkedIn, status of staff and all students whatsapp groups.

  
Mr. D. J. Pawar  
Coordinator III



**Shri Balasaheb Mane Shikshan Prasarak Mandal, Ambap's  
Ashokrao Mane Group of Institutions, Vathar  
Department of Electronics and Telecommunication Engineering**

In association with  
**Electronics Club**  
and  
**Shree Electro Arts, Jaisingpur**  
Organizes  
**Hands-On Training on Arduino**

**Coordinator** : Prof. Sarvajeet A. Bhosale  
**Venue** : Advanced Programming Lab and M&M Lab  
**Students Coordinator** : Mr. Ruturaj Chougule (BTech E&TC)  
Mr. Pratik Dongale (BTech E&TC)  
Mr. Pratik Patil (BTech E&TC)  
**No. Of Participants** : 52  
**In Association with** : Shree EelectroArts, Jaisingpur  
**Date** : 03-09-2023

Department of Electronics and Telecommunication Engineering in association with Electronics Club and Shree ElectroArts, Jaisingpur. Organizes five days Hands-On Training on Arduino. Workshop started with Inauguration of program and Felicitation of Resource Person Mr. Nikhil Nimbalkar, Shree ElectroArts, Jaysingpur.

The program was conducted as below:

Day	Session	Description
5 <sup>th</sup> Aug, 2023	1	Inauguration
	2	Introduction to Microcontrollers and its application Industrial Applications of Embedded System
19 <sup>th</sup> Aug, 2023	1	Introduction Arduino Board and Arduino IDE, Installation of Arduino Software
	2	Memory organization and Number System
23 <sup>rd</sup> Aug, 2023	1	Program to Blink LED ( Output Interface )





	2	Program to Flash LED, Running LED Program (I/O Interface)
24 <sup>th</sup> Aug, 2023	1	Program to interface Potentiometer (Sensor Interface)
	2	Program to control Intensity of LED
2 <sup>nd</sup> Sept, 2023	1	Program to interface LCD
	2	Valedictory and Feedback

**Photographs:**



*[Signature]*  
Coordinator



*[Signature]*  
HOD  
Electronics & Telecommunication Engg.  
Ashokrao Mane Group of Institutions  
Vathar Tarf Vadgaon.



Shri Balasaheb Mane Shikshan Prasarak Mandal, Ambap's  
**Ashokrao Mane Group of Institutions**  
Vathar Tarf Vadgaon, Tal: Hatkanangle, Dist: Kolhapur 416112  
**Department of Electronics & Telecommunication Engineering**

Date: 02-08-2023

To,  
The HOD,  
Dept. of Electronics and Telecommunication Engineering,  
AMGOI, Vathar.

**Subject:** Regarding Permission to take Hands-On workshop on Arduino

**Respected Madam,**

Second Year student have requested to arrange a Hands-On workshop on Arduino Basics, in that concern please Grant me permission to conduct the activity in Association with Electronics Club and Shree ElectroArts, Jaysingpur. The workshop will be beneficial for students in improving their technical skills. The activity will be scheduled during the Electronics Club Slot as per Time Table.

Please grant permission and do the needful.

Thanking you,

  
Mr. S. A. Bhosale  
(Electronics Club Incharge)

Permitted  
15/11  
12/08/23





Shri Balasaheb Mane Shikshan Prasarak Mandal, Ambap's  
**Ashokrao Mane Group of Institutions**  
Vathar Tarf Vadgaon, Tal: Hafkanangle, Dist: Kolhapur 416112  
**Department of Electronics & Telecommunication Engineering**

Date: 03-08-2023

To,  
Mr. Nithil Nimbalkar,  
Shree ElectroArts,  
Jaisingpur.


Subject: Invitation as a Resource Person for Arduino Workshop


Respected Sir,

Second Year student have requested to arrange a Hands-On workshop on Arduino Basics, in that concern please Grant me permission to conduct the activity in Association with Electronics Club and Shree ElectroArts, Jaysingpur. The workshop will be beneficial for students in improving their technical skills. The activity will be scheduled during the Electronics Club Slot as per Time Table.

Please grant permission and do the needful.

Thanking you,

  
Electronics Club Incharge

  
HOD  
Electronics & Telecommunication Engg.  
Ashokrao Mane Group of Institutions  
Vathar Tarf Vadgaon.







ASHOKRAO MANE GROUP OF INSTITUTIONS, VATHAR.

Faculty of Engineering

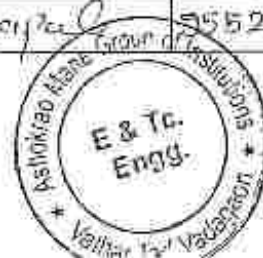
Department of Electronics and Telecommunication Engineering

Electronics Club

## DAILY ATTENDANCE SHEET

Day and Date:- 05/02/2023

Sr. No.	Roll Number	Name of Student	Mobile number	Students Sign	
				Session - I	Session - II
1	07	Aishwarya N. Kadam	8796305409	<u>Akadam</u>	<u>Akadam</u>
2	21	Minakshi. M. Mhetar	9552995595	<u>M.</u>	<u>M.</u>
3	05	Jyoti S. Ingale	9511793196	<u>Singale</u>	<u>Singale</u>
4	56	Madhura P. Havaldar.	9421256670	<u>Havaldar</u>	<u>Havaldar</u>
5	02	Shivani Chikhalakar	7420039601	<u>A</u>	<u>A</u>
6	45	Talim Sairam	8484057001	<u>Sairam</u>	<u>Sairam</u>
7	40	Pratik Yejare	8975015997	<u>Pratik</u>	<u>Pratik</u>
8	25	Ritesh Patil	7841965620	<u>Patil</u>	<u>Patil</u>
9	16	Sainath Kumbhar	9766947495	<u>Kumbhar</u>	<u>Kumbhar</u>
10	17	Sunny N. Kumbhar	987177507	<u>Sunny</u>	<u>Sunny</u>
11	15	Pranav S. Kumbhar	784107726	<u>Pranav</u>	<u>Pranav</u>
12	08	Swapnil S. Komalakar	0922972610	<u>Swapnil</u>	<u>Swapnil</u>
13	49	Samata S. Mane	9373743859	<u>Samata</u>	<u>Samata</u>
14	51	Namrata P. Parmar	8530721462	<u>Parmar</u>	<u>Parmar</u>
15	57	Vaidhi S. Vasagadekar	9307869626	<u>Vasagadekar</u>	<u>Vasagadekar</u>
16	91	Omkar N. Babar	9322773110	<u>Babar</u>	<u>Babar</u>
17	-	Rajkumar R. Sanglikar	9527898478	<u>R</u>	<u>R</u>
18	60	Sprang D. Devkute	7299129725	<u>Devkute</u>	<u>Devkute</u>
19	33	Atharva S. Sangar	9146242966	<u>Atharva</u>	<u>Atharva</u>
20	44	Rohit V. Ghule	9021250511	<u>Rohit</u>	<u>Rohit</u>
21	03	Rajvardhan S. Pawar	7666505120	<u>Pawar</u>	<u>Pawar</u>
22	32	Harshvardhan S. Pawar	8956576035	<u>Harshvardhan</u>	<u>Harshvardhan</u>
23	31	Sanjeev V. Phayre	9552989891	<u>Phayre</u>	<u>Phayre</u>





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Department of Electronics and Telecommunication Engineering  
Electronics Club

24	52	Prathamesh K. Patil	9600989331	<u>Patil</u>	<u>Patil</u>
25	59	Aditya S. Kadam	9699166597	<u>Kadam</u>	<u>Kadam</u>
26	20	Gurunath M. mete	9146005573	<u>Mete</u>	<u>Mete</u>
27	02	Siddhesh .K. Khabale	7350569148	<u>Khabale</u>	<u>Khabale</u>
28	24	Aharv Ajit Patil	8630572469	<u>Patil</u>	<u>Patil</u>
29	47	shreekeetarsi. Kambale	8010403223	<u>Kambale</u>	<u>Kambale</u>
30	34	Souparni shinde	8390991770	<u>Shinde</u>	<u>Shinde</u>
31	61	Satej .S. Desai	9579058003	<u>Desai</u>	<u>Desai</u>
32	13	vishal .D.khade	902222706	<u>Khade</u>	<u>Khade</u>
33	03	om .B. Gharge	9552891352	<u>Gharge</u>	<u>Gharge</u>
34	01	Prarthmesh. P. Bote	7157002321	<u>Bote</u>	<u>Bote</u>
35	18	Krushnak D. Bohar	9579214129	<u>Bohar</u>	<u>Bohar</u>
36	09	Prajakta M. Kambale	9270000201	<u>Kambale</u>	<u>Kambale</u>
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Amr  
Coordinator



5/11  
HOD  
Electronics & Telecommunication Engg.  
Ashokrao Mane Group of Institutions  
Vathar Tarf Vadgaon



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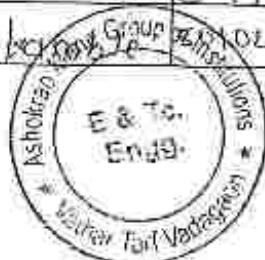
Department of Electronics and Telecommunication Engineering

Electronics Club

## DAILY ATTENDANCE SHEET

Day and Date:- 19/08/2023

Sr. No.	Roll Number	Name of Student	Mobile number	Students Sign	
				Session - I	Session - II
1	42	Anushka Sanjay Bhosale	9284531258	<u>Bhosale</u>	<u>Bhosale</u>
2	50	Afreen Riyaz Memin	7709561625	<u>Memin</u>	<u>Memin</u>
3	58	Samruddhi S. Redekar	9370651179	<u>Redekar</u>	<u>Redekar</u>
4	27	Sakshi M. Patil	9322072009	<u>Patil</u>	<u>Patil</u>
5	30	Manasi M. Patale	9156854836	<u>Patale</u>	<u>Patale</u>
6	37	Poojyam S. Tambade	7620185636	<u>Tambade</u>	<u>Tambade</u>
7	09	Prajda M. Kamble	927000020	<u>Kamble</u>	<u>Kamble</u>
8	04	Mayuri L. Gawade	8483868146	<u>Gawade</u>	<u>Gawade</u>
9	10	Purva S. Kamble	9371939132	<u>Kamble</u>	<u>Kamble</u>
10	29	Snehal N. Patil	9741352807	<u>Patil</u>	<u>Patil</u>
11	19	Vijaya R. Mali	7499951696	<u>Mali</u>	<u>Mali</u>
12	28	Sonika P. Patil	7620560760	<u>Patil</u>	<u>Patil</u>
13	36	Shrutika I. Kumbhar	895131424	<u>Kumbhar</u>	<u>Kumbhar</u>
14	DSY	Poojima M. Khamker	8698533702	<u>Khamker</u>	<u>Khamker</u>
15	32	Harshvardhan S. Powar	8956576035	<u>Powar</u>	<u>Powar</u>
16	31	Sorkeji V. Phapale	9552989841	<u>Phapale</u>	<u>Phapale</u>
17	33	Ashwini S. Sangar	9146248966	<u>Sangar</u>	<u>Sangar</u>
18	44	Rohil V. Ghule	9021250511	<u>Ghule</u>	<u>Ghule</u>
19	20	Gurunath M. Mete	9146005373	<u>Mete</u>	<u>Mete</u>
20	17	Sunny N. Kumbhar	9871771807	<u>Kumbhar</u>	<u>Kumbhar</u>
21	16	Sainath B. Kumbhar	7666947490	<u>Kumbhar</u>	<u>Kumbhar</u>
22	61	Satej S. Desai	9579058003	<u>Desai</u>	<u>Desai</u>
23	47	Shreehar S. Kumbhar	98202103238	<u>Kumbhar</u>	<u>Kumbhar</u>







ASHOKRAO MANE GROUP OF INSTITUTIONS, VATHAR.  
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Department of Electronics and Telecommunication Engineering  
Electronics Club

24	41	Omkar Babat	9922773110	<u>Patil</u>	<u>Patil</u>
25	52	Prathamesh K. Patil	8600989381	<u>Patil</u>	<u>Patil</u>
26	59	Aditya S. Kadam	9699166597	<u>Aditya</u>	<u>Aditya</u>
27	12	Siddhesh K. Khabale	9250583148	<u>Prabale</u>	<u>Prabale</u>
28	18	Krushnak D. Lohar	9579314178	<u>Behar</u>	<u>Behar</u>
29	13	Vishal D. Khade	90227068	<u>Khade</u>	<u>Khade</u>
30	43	Om B. George	9552891352	<u>George</u>	<u>George</u>
31	01	Prathamesh Bote	775700219	<u>Patil</u>	<u>Patil</u>
32	34	Soumay Shinde			
33	05	Jyoti S. Singale	9511793196	<u>Singale</u>	<u>Singale</u>
34	07	Ashwarya N. Kadam	8796905409	<u>AKadam</u>	<u>AKadam</u>
35	02	Shivani Chikhalkar	742003961	<u>Chikhalkar</u>	<u>Chikhalkar</u>
36	21	Minakshi M. Mhetar	9552995595	<u>M</u>	<u>M</u>
37	51	Namrata P. Parmar	8530721462	<u>NParmar</u>	<u>NParmar</u>
38	49	Samata S. Mane	9379743259	<u>Samana</u>	<u>Samana</u>
39	57	Valdehi S. Vasagadekar	9301869626	<u>Valdehi</u>	<u>Valdehi</u>
40	-	Rajkumar R Sanglikar	9527898477	<u>R</u>	<u>R</u>
41	60	Sarang D. Deykule	7249129725	<u>Sarkule</u>	<u>Sarkule</u>
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Coordinator



HOD  
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Vathar Tarf Vadagaon.





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Department of Electronics and Telecommunication Engineering  
Electronics Club

24	02	Shivani Chitambar	742003961	<del>Shivani</del>	<del>Shivani</del>
25	45	Taisim Sargur	8484057001	<del>Taisim</del>	<del>Taisim</del>
26	56	Madhura Havaldar.	9421256070	<del>Madhura</del>	<del>Madhura</del>
27	07	Aishwarya N. Kadam	8796805409	Akadam	Akadam
28	05	Jyoti S. Ingale	9511799196	Singale	Singale
29	21	Midakshi M. Mhetre	9552995595	<del>M</del>	<del>M</del>
30	04	Mayuri L. Gawade	8483868146	<del>Mayuri</del>	<del>Mayuri</del>
31	09	Prajakta M. Kamble	9270000201	<del>Prajakta</del>	<del>Prajakta</del>
32	10	Purva Sunil Kamble	9371939132	Kamble	Kamble
33	29	Snehal N. Patil	8741352807	Patil	Patil
34	19	Vijaya R. Mali	7499951696	Mali	Mali
35	35	Shrutika L. Kumbhar	8951814124	Kumbhar	Kumbhar
36	29	Sanika P. Patil	7620560760	Patil	Patil
37	DSY	Parnimee M. Khamkar	8698533702	Khamkar	Khamkar
38	42	Anushka S. Bhosale	9284531258	Bhosale	Bhosale
39	50	Afreen Riaz Romin	7709561625	Romin	Romin
40	58	Samrudhi S. Redekar	9370851179	Redekar	Redekar
41	27	sakshi M. patil	9822072009	Patil	Patil
42	30	manasi M. patole	9156837836	Patole	Patole
43	37	poonam S. Tambade	7620185638	Tambade	Tambade
44	33	Atharv S. Sangar	9146242966	Sangar	Sangar
45	44	Rohit V. Ghule	9021250911	Ghule	Ghule
46	—	Rajkumar R Sanglikar	9527898478	R	R
47	60	Saurang D. Deshpande	7249123720	Deshpande	Deshpande
48	61	Satej S. Desai	9579058005	Desai	Desai
49	47	ShreeKedar Kamble	8010403233	Kamble	Kamble
50	31	Sanket V. Phapal	9552989641	Phapal	Phapal

~~Surya~~  
Coordinator



Electronics & Telecommunication Engg.  
Ashokrao Mane Group of Institutions,  
Vathar Tarf Vadaraoan.





ASHOKRAO MANE GROUP OF INSTITUTIONS, VATHAR.

Faculty of Engineering

Department of Electronics and Telecommunication Engineering

Electronics Club

## DAILY ATTENDANCE SHEET

Day and Date:- 24/08/23

Sr. No.	Roll Number	Name of Student	Mobile number	Students Sign	
				Session - I	Session - II
1	27	sakshi .m. patil	9922072009	s.m.patil	s.m.patil
2	30	madasi M. patale	9156257896	Mpatale	Mpatale
3	97	pranam .s. Tambade	7620125620	Tambade	Tambade
4	10	Purva sunil Kamble	9371939132	Pambale	Pambale
5	04	Mayuri .L. Gawade	8483868146	Mgawade	Mgawade
6	09	Prajakta .M. Kamble	9270000201	Pkambale	Pkambale
7	42	Anushka sanjay Bhasale	9284531258	Asbhasale	Asbhasale
8	50	Somruddhi S Redekar	9370651129	Redekar	Redekar
9	58	Afreen Riyaz Momin	7709561699	Amomin	Amomin
10	29	Snehal N. Patil	9741352807	Spatil	Spatil
11	19	Vijaya R. Mali	7499951696	Vmali	Vmali
12	35	shrutika L. Kumbhar	8951314124	Skumbhar	Skumbhar
13	28	Sanika P. Patil	7620560760	Spatil	Spatil
14	DSY	Paminda .M. Khanekar	8698533702	Pkhanekar	Pkhanekar
15	32	Harshvaradhan .S. Pawar	8956576098	HPawar	HPawar
16	31	Utkarsh .V. Phayal	8552989761	Uphayal	Uphayal
17	44	Rohit .V. Ghule	9021250311	Rghule	Rghule
18	20	Gurunath M. Mete	9146005373	Gmete	Gmete
19	33	Atharv .S. Sangar	9146242986	Asangar	Asangar
20	52	Prathamesh .K. Patil	8600983381	Ppatil	Ppatil
21	59	Aditya .S. Kadam		Akadam	Akadam
22	12	Siddhesh .K. Khabale	725087161	Skhabale	Skhabale
23	47	Omkar N. Babar	9322773110	Obabar	Obabar






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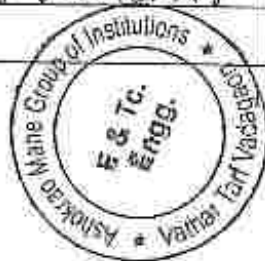
Faculty of Engineering

Department of Electronics and Telecommunication Engineering

Electronics Club

24	24	Akhav Ajit Pahi	8920922461	Ajit	Ajit
25	03	Rajkumhar Deustkar	7666505120	Rajk	Rajk
26	34	Sourav shinde	8390991770	Sai	Sai
27	16	Sainath kumbhar	9766947496	Sainath	Sainath
28	07	Aishwarya Kadam	8796305409	Akadarn	Akadarn
29	56	Madhura Havaladar	9421256076	Madhura	Madhura
30	02	Shivani Chikhalkar	7420039601	Shivani	Shivani
31	01	Prathamesh Bute	7757002121	Prath	Prath
32	61	Satej - S. Desai	9573058003	Satej	Satej
33	47	Shreekedar. S. Kamble	8010403233	Shree	Shree
34	05	Jyoti S. Singale	9511793196	Jyoti	Jyoti
35	45	Tausim S. Sangur	8484057001	Tausim	Tausim
36	91	Minalshi M. Mhetar	9552995555	Minal	Minal
37	43	om B. George	9552871252	Om	Om
38	18	Krushnar D. Lohar	9579314118	Krushnar	Krushnar
39	13	vishnu D. Khale	9022227000	Vishnu	Vishnu
40	56	Madhura P. Havaladar	9421256070	Madhura	Madhura
41	57	Valdehi S. Vasagadekar	9307869621	Valdehi	Valdehi
42	51	Neerata P. Parmaj	8580721462	Neerata	Neerata
43	49	Samata S. Mone	9313743259	Samata	Samata
44	50	Pratik V. Yejarre	7975015997	Pratik	Pratik
45	-	Rajkumar R. Sanglikar	9527898478	Rajk	Rajk
46	60	Saurang D. Deypute	7299129725	Saurang	Saurang
47	17	Sunny N. Kumbhar	9971771807	Sunny	Sunny
48	08	Swapnil S. Kamalakar	9922972610	Swapnil	Swapnil
49	15	Pranav S. Kumbhar	7841077724	Pranav	Pranav
50					

  
Coordinator



  
HOD  
Electronics & Telecommunication Engg.  
Ashokrao Mane Group of Institutions



ASHOKRAO MANE GROUP OF INSTITUTIONS, VATHAR.

Faculty of Engineering

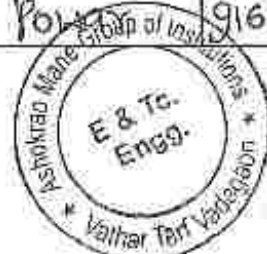
Department of Electronics and Telecommunication Engineering

Electronics Club

## DAILY ATTENDANCE SHEET

Day and Date:- 02/09/23

Sr. No.	Roll Number	Name of Student	Mobile number	Students Sign	
				Session - I	Session - II
1	03	Rajvardhan S. Deshpande	7666505120		
2	09	Snehal N. Patil	9741352807		
3	11	Nisya R. Mali	7499451686		
4	-	Pranav K. Vankar	7759714515		
5	30	Manasi M. Patil	9156857836		
6	27	Sakshi M. Patil	9322072009		
7	3	Poonam S. Tambade	7620185636		
8	345	Tarun S. Sakgutu	8484057001		
9	40	Pratik V. Yejare	9975015997		
10	25	Ritesh R. Patil	9841960090		
11	06	Mayuri L. Ganade	8483863146		
12	05	Jyoti S. Tugale	9511793196		
13	21	Minakshi M. Mhatre	9552995595		
14	07	Aishwarya N. Kadam	8786205409		
15	33	Atharv S. Sangan	9146242066		
16	59	Aditya S. Kadam	9699163498		
17	36	Sanket V. Talugade	8275267771		
18	46	Saham S. Kambhu	897654321		
19	12	Siddhesh K. Chabale	7350553148		
20	24	Atharv Ajit Patil	8928573469		
21	16	Sainath Balasa Kumbhar	9766947496		
22	20	Gurunath M. Mete	9146005373		
23	55	Yedant N. Patil	9168200034		







ASHOKRAO MANE GROUP OF INSTITUTIONS, VATHAR.

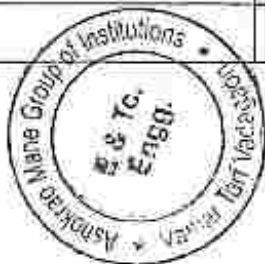
Faculty of Engineering

Department of Electronics and Telecommunication Engineering

Electronics Club

24	44	Rohit V Ghole	9021250571		
25	34	Sousov S. Shinde	8390991776		
26	38	Krushnat D. Lohar	9579324118		
27	52	Prathamesh K. Patil	8600989309		
28	13	Vishal D. Kinade	9022227065		
29	401	Prathamesh P. Bate	7757062302		
30	51	Namrata P. Parmar	8590721462		
31	57	Vaidichi S. Vasagadekar	9307869626		
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Chairperson



HOD  
Electronics & Telecommunication Engg.  
Ashokrao Mane Group of Institutions



Shri Balasaheb Mane Shikshan Prasarak Mandal, Ambap's

## Ashokrao Mane Group of Institutions

Vathar Tarf Vadgaon, Tal: Hatkanangle, Dist: Kolhapur 416112

Department of Electronics & Telecommunication Engineering

Date: 02-09-2023

To,  
Mr. Nikhil Nimbalkar,  
Shree ElectroArts,  
Jaisingpur.


Subject: Thanking Letter...

Respected Sir,

On behalf of Department of Electronics and Telecommunication Engineering, AMGOI, Vathar and Electronics Club we are thankful for accepting our invitation and conducting workshop on Arduino. The Industrial touch provided during the session will prove helpful for students in their more future.

Looking forward for some Co-operation and Guidance.

  
Electronics Club Incharge

  
HOD.D  
Electronics & Telecommunication Engg.  
Ashokrao Mane Group of Institutions  
Vathar Tarf Vadgaon





Shri Balasaheb Mane Shikshan Prasarak Mandal's

# ASHOKRAO MANE GROUP OF INSTITUTIONS

NH - 4, Vathar Tarf Vadgaon, Tal: - Hatkanangale, Dist: - Kolhapur-416112

E-mail: hodetc@amgoi.edu.in, Website: www.amgoi.org

**NBA accredited Programs\* | Accredited by NAAC with 'A' Grade (CGPA 3.08)**

DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION ENGINEERING



Date: 23<sup>rd</sup> October 2023

To,  
I/C Director,  
AMGOI, Vathar.

**Subject: Regarding permission of the Industrial Visit and Tour for E&TC students.**

Respected Sir,

We are planning to organize an Industrial Visit at Electrosal Pvt. Ltd. and Robosap Innovations Pvt. Ltd. Nippani, Karnataka as well as an institutional visit at KLS Vishwanathrao Deshpande Institute of Technology, Haliyal, Karnataka on 26<sup>th</sup> October 2023 to 27<sup>th</sup> October 2023 for students of Electronics and Telecommunication Engineering department. The purpose of visit is to give an opportunity to the students, learn more about an organization and latest technology.

Approximately 90 students wish to take a view about industrial process and facilities. The team will be accompanied by 07 faculty members to guide the students.

We would like to request you to grant permission for visits at above mentioned organizations as well as the tour to Dandeli, Karnataka as a site seeing.

Thanking You,

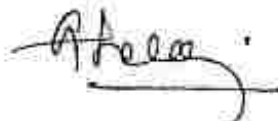
Encl.- The detailed schedule is attached along with the application.

  
Mr. D. J. Pawar,  
ETSA Coordinator

  
Mrs. S. S. Patil  
H.O.D.

Permitted.

2 Gents & 3 Ladies Faculty  
along with 90 students.







Shri Balasaheb Mane Shikshan Prasarak Mandal's

# ASHOKRAO MANE GROUP OF INSTITUTIONS

NH - 4, Vathar Tarf Vadgaon, Tal: - Hatkanangale, Dist: - Kolhapur-416112

E-mail: [hodetc@amgoi.edu.in](mailto:hodetc@amgoi.edu.in), Website: [www.amgoi.org](http://www.amgoi.org)

**NBA accredited Programs\* | Accredited by NAAC with 'A' Grade (CGPA 3.08)**

DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION ENGINEERING



Date: 23<sup>rd</sup> Oct. 2023

To,  
The Director,  
Robosap Innovations Pvt, Ltd,  
Nipani, Karnataka.

**Subject: Regarding permission of the Industrial Visit for E&TC students.**

Respected Sir,

We are planning to organize an Industrial Visit to Robosap Innovations Pvt, Ltd, Nipani, Karnataka for Electronics and Telecommunication Engineering Students.

Approximately 90 students wish to take a view about your industrial process and facilities. The team will be accompanied by Faculty to guide the students to know about your industry.

On behalf of "Ashokrao Mane Group of Institutions, Vathar", we would like to request you to grant permission for industrial visit, on 27<sup>th</sup> Oct, 2023. The purpose of visit is to give an opportunity to the students, learn more about an organization and latest equipments.

Kindly allow us for the visit, please do the needful....

Thanking You,

  
Mr. D. J. Pawar  
ETSA coordinator

  
Mrs. S. S. Patil  
H.O.D

  
Prof. P. B. Ghewari  
I/C Director



Shri Balasaheb Mane Shikshan Prasarak Mandal's

# ASHOKRAO MANE GROUP OF INSTITUTIONS

NH - 4, Vathar Tarf Vadgaon, Tal: - Hatkanangale, Dist: - Kolhapur-416112

E-mail: [hodetc@amgoi.edu.in](mailto:hodetc@amgoi.edu.in), Website: [www.amgoi.org](http://www.amgoi.org)

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**DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION ENGINEERING**



Date: 27<sup>th</sup> Oct. 2023

To,  
The Director,  
Electrosal Pvt. Ltd,  
Nipani.

**Subject: -Appreciation for giving permission to Industrial Visit in your Organization.**

Respected Sir/Madam,

On the behalf of Department of Electronics and Telecommunication Engineering, Ashokrao Mane Group of Institutions, Vathar we express our sincere appreciation to you for giving permission to visit your reputed organization on 27<sup>th</sup> Oct, 2023.

Your assistance during visit was excellent and the presentation contained several innovative information, for that our department is very much thankful.

We hope that you will continue to share your expertise and advice with us. We look forward to you for cooperation in future.

Thanking you,

  
Mr. D. J. Pawar  
ETSA coordinator

  
Mrs. S. S. Patil  
H.O.D

  
Prof. P. B. Ghewari  
I/C Director





Shri Balasaheb Mane Shikshan Prasarak Mandal's

# ASHOKRAO MANE GROUP OF INSTITUTIONS

NH-4, Vathar Tarf Vadgaon, Tal:- Hatkanangale, Dist:- Kolhapur-416112

E-mail: hodetc@amgoi.edu.in, Website: www.amgoi.org

**NBA accredited Programs\* | Accredited by NAAC with 'A' Grade (CGPA 3.08)**

DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION ENGINEERING



Date: 27<sup>th</sup> Oct. 2023

To,  
The Director,  
Robosap Innovations Pvt. Ltd,  
Nipani.

Subject: -Appreciation for giving permission to Industrial Visit in your Organization.

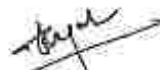
Respected Sir/Madam,

On the behalf of Department of Electronics and Telecommunication Engineering, Ashokrao Mane Group of Institutions, Vathar we express our sincere appreciation to you for giving permission to visit your reputed organization on 27<sup>th</sup> Oct, 2023.

Your assistance during visit was excellent and the presentation contained several innovative information, for that our department is very much thankful.

We hope that you will continue to share your expertise and advice with us. We look forward to you for cooperation in future.

Thanking you,

  
\* Mr. D. J. Pawar  
ETSA coordinator

  
Mrs. S. S. Patil  
H.O.D

  
Prof. P. B. Ghewari  
I/C Director







46	MAYURI YUVARAJ GAWADE	20	Girl
47	MINAKSHI MARUTI MIHETAR	20	Girl
48	SAI RUPESH KARALE	20	Girl Boy
49	TAISIM SAI RAJ SARGURU	20	Girl
50	PRATIK VISHAL YEJARE	20	Boy
51	RITESH RANJENDRA PATIL	20	Boy
52	SANKET UTTAM TALUGDE	20	Boy
53	ATRRAY SANTOSH SANGAR	20	Boy
54	SATEJ SADASHIV DESAI	20	Boy
55	HARSHIVARDHAN SHASHIKANT POWAR	20	Boy
56	RAJWARDHAN SHRIDHAR DEUSKAR	20	Boy
57	SOHAN SIDHART KAMALE	20	Boy
58	ADITYA SANJAY KADAM	20	Boy
59	SARANG DATTAJI DEVAKULE	20	Boy
60	SHRIKEDAR SANJIV KAMBALE	20	Boy
61	SWARAJ KRISHNA KHUTALE	20	Boy
62	SAURAV SHANKAR SHINDE	20	Boy
63	PRATHAMESH KRUSHNAT PATIL	20	Boy
64	SANKET VINAYAK PHAPAL	20	Boy
65	ANIKET DHANAJI POWAR	20	Boy
66	VENDANT POWAR	20	Boy
67	VISHAL KHADE	20	Boy
68	SWAPANIL KAMLAANTHFKAR	20	Boy
69	GURANATH METHE	20	Boy
70	KRUSHNAT LOHAR	20	Boy
71	SUNNY KUMBHAR	20	Boy
72	PRATHMESH BOTE	20	Boy
73	SAINATH KUMBHAR	20	BOY
74	FALAN MANAIR	20	BOY
75	AISHWARYA KADAM	20	GIRL
76	NAMRATA PRAKASH PARMAJ	20	GIRL
77	PRANAV KUMBHAR	20	BOY
78	JYOTI INGALE	20	GIRL
79	Shivani Shivaji Chikhanikar	20	GIRL
1	DIGVIJAY PAWAR	37	Faculty
2	SARVAJEET BHOSALE	34	Faculty
3	SANDHYA SAGAVKAR	45	Faculty
4	DIANSHREE MALI	31	Faculty
5	Shivani Ghondali S. Teoh		51 GIRL



## Cover Letter

**Nikhil Todkar**

Chikurde,  
Maharashtra, 415412  
nikhiltodkar403@gmail.com  
9561448698  
05 September, 2023

**Mr. Pravin Padale**

Manager,  
D Sign Design  
H. No. 2147, Near Gajanan Maharaj Mandir, Sangli road  
Ichalkaranji, Maharashtra, 416121

Dear Mr. Pravin Padale,

### **Subject: Proposal for Automated Height Sorting System**

I hope this letter finds you well. My name is Nikhil Todkar, and I am a B. Tech Mechanical engineering student at Ashokrao Mane Group of Institutions, Vathar, currently working under the guidance of Mr. Amol B. Rabade. During our recent visit at D Sign Design, Ichalkaranji, my team and I identified a key issue in quality and productivity that presents an opportunity for improvement. This problem, verified through our research and discussions with industry professionals, pertains to detection of fault in the product is one of the major problems as it plays vital role in maintaining the quality of the product. Even a slight change in the size or shape of the product can change the configuration of the product and that lead to malfunction of the product. To detect a problem on the production line is difficult as the process is automatic. Due to fast manufacturing of products and mass production some kind faults can be happen in production line Due to this when the product reaches to the customers it fail to work which can lead to replacement of the product which is time consuming.

Our proposed solution aims to address this issue by Automatic height sorting system. automatic height sorting system minimize waste and rework on production line. By using this proposed system maximum job height checked in minimum time so faster sorting with maximum accuracy and reducing error lead increased productivity. It will reducing the need for extra shifts or over time and minimizes training cost and time.

We believe that this project aligns with D Sign Design, Ichalkaranji expertise in design & manufacturing field, and we are eager to collaborate with your esteemed organization to develop and implement this solution.

Enclosed with this letter is our detailed proposal, which outlines the project's objectives, methodology, expected outcomes, and the support we are seeking from D Sign Design, Ichalkaranji. The insights we gathered during the visit have been critical in shaping this proposal, and we are confident that the project will deliver meaningful results.



We would be grateful for the opportunity to discuss this proposal further. Please feel free to contact me at 9561448698 or nikhiltodkar403@gmail.com to arrange a meeting at your convenience.

Thank you for considering our proposal. We look forward to the possibility of collaborating with D Sign Design, Ichalkaranji on this exciting project.

A handwritten signature in blue ink, appearing to be 'N.T.', written over a horizontal line.

Yours sincerely,

Nikhil Todkar,

B. Tech Mechanical Engineering Department  
Ashokrao Mane Group of Institutions, Vathar

# Detailed Proposal

## 1. Executive Summary

- **Purpose:** This proposal outlines a project to develop automatic height sorting system, addressing problem of height measurement of component identified during our visit.
- **Problem Statement:** During our time at D Sign Design, Ichalkaranji, we observed height measurement of component, which leads to detection of fault in the product is one of the major problems as it plays vital role in maintaining the quality of the product. Even a slight change in the size or shape of the product can change the configuration of the product and that lead to malfunction of the product. To detect a problem on the production line is difficult as the process is automatic. Due to fast manufacturing of products and mass production some kind faults can be happen in production line Due to this when the product reaches to the customers it fail to work which can lead to replacement of the product which is time consuming.
- **Proposed Solution:** Automatic height sorting system, automatic height sorting system minimize waste and rework on production line. By using this proposed system maximum job height checked in minimum time so faster sorting with maximum accuracy and reducing error lead increased productivity. It will reducing the need for extra shifts or over time and minimizes training cost and time.
- **Funding Request:** We are seeking financial support from D Sign Design, Ichalkaranji for the development and implementation of this solution.

## 2. Background and Context

- **Industry Overview:** D Sign Design, Ichalkaranji is a leader in design & manufacturing industry, making it an ideal partner for this project.
- **Problem Identification:** During our visit at D Sign Design, Ichalkaranji, we observed a critical challenge related to height measurement of components. This observation was further supported by industry feedback. We also reviewed industry reports and research papers, which highlighted a need for improvement in this area.
- **Proof of Problem:** A detailed analysis of the problem, including surveys conducted, discussions with professionals, data gathered during the visit is included in the appendices for reference.

## 3. Research Objectives

- **Primary Objective:** To develop automatic height sorting system that effectively addresses height measurement problem.
- **Secondary Objectives:**
  - To eliminate the time consumed in testing the product and to eliminate the process of correcting the mistake.
  - To maintain the quality of testing work.
  - To reduce man power.

- To improve productivity of the plant
- **Research Questions:**  
How can we detect the problem more efficiently?  
What is the best way to implement the solution without disrupting existing workflows?

#### 4. Methodology

- **Research Design:** We will use a mixed-method approach, including hardware development (e.g., sensors, PLC) and software integration for monitoring and control.
- **Data Collection:** Data on the issue will be collected through testing prototypes in the relevant environment.
- **Timeline:** The project is divided into phases: design (1 month), development (2 months), testing (1 month), and implementation (1 month).

#### 5. Expected Outcomes and Benefits

- **Research Deliverables:** A functional prototype, along with a report on findings from testing and implementation.
- **Industry Impact:** The project aims to reduce cost of reduction improve productivity in D sign Design, Ichalkaranji on manufacturing line showcasing their leadership in innovation.
- **Student Learning Outcomes:** Practical experience in automation, mechanical design engineering, software, etc.

#### 6. Budget and Funding Request

- **Detailed Budget:** A breakdown of the costs for materials, prototype development, and testing.

Sr. No.	Component Name	Approx. Costing (Rs.)
1	DC power unit	34000
2	Regular motor	12000
3	Conveyor belt	7500
4	Clamp	3500
5	PLC	45000
6	IR sensor kit 2	1000
7	Roller 2	2400
8	Actuator	6000
9	Arduino Uno	4000
10	Digital display	3000
11	Shaft 04	5000
12	Arm	1200
13	Sensors	12000
Total		136600 /-



- **Funding Request:** We are seeking financial assistance to cover development costs. A detailed budget is attached.
- **Additional Resources:** Ashokrao Mane Group of Institutions, Vadhar, will provide lab space, and D sign Design, Ichalkaranji will contribute through mentorship and technical support.

## 7. Project Team

- **Student Team:** A group of engineering students specializing in Mechanical Engineering.
- **Faculty Guide:** Mr. Amol B. Rabale, an expert in Industrial Automation and Design Engineering.
- **Industry Mentor:** A professional from D sign Design, Ichalkaranji will provide guidance and ensure industry relevance.

## 8. Timeline

- **Phases:**
  - i. Design: 1 month
  - ii. Development: 2 months
  - iii. Testing: 1 month
  - iv. Implementation: 1 month
- **Milestones:** Design completion, prototype development, testing success, and final implementation.
- **Completion Date:** The project is expected to be completed within 5 months.

## 9. Risk Management

- **Potential Risks:** Possible delays in component delivery, technical challenges during integration, and testing issues.
- **Mitigation Strategies:** We have backup suppliers and will conduct early-stage testing to catch issues quickly.

## 10. Conclusion

- **Final Appeal:** This project addresses a pressing issue observed during our visit and offers a practical solution. With your support, we can implement this innovative system and improve efficiency for D sign Design, Ichalkaranji.
- **Next Steps:** We propose scheduling a meeting to discuss the project in more detail and finalize funding arrangements.

## 11. Appendices

- **Supporting Data:** During our visit below observations and analysis are made

- Skilled workers are required for inspection of component
- Number of workers are required for inspection due to high production
- Quantity of rejection is more, hence rework is increased affects on productivity

Sr. No.	Worker	Quantity of job inspected during one shift (8 hours)	Quantity of job rejected	Productivity in %
1	A	389	71	81.75
2	B	330	62	81.22
3	C	432	82	81.02
4	D	379	57	84.97
5	E	359	53	85.24

- **Student CVs:** Resumes of the students involved in the project.
- **Letters of Support:** Any letters from college administration or stakeholders supporting the project.

**RESEARCH PROJECT SPONSERSHIP CERTIFICATE**

**(TO WHOMSOEVER IT MAY CONCERN)**

*This is to certify that Mr. Nikhil B. Todkar, Mr. Satyajit M. Patil, Mr. Pruthviraj A. Jadhav, Mr. Omkar S. Angaj fourth year B Tech Mechanical Engineering student under the academic guidance of his Research Guide Prof. A. B. Rabade ( Assistant Professor Mechanical Engineering ) of Ashokrao Mane Group of Institutions, Vathar Tarf Vadgaon ,has sponsored him for industrial support project on " Automatic Height Sorting System." under the technical guidance of Mr.Pravin Padale (Manager ) D sign Design Pvt. Ltd. Ichalkaranji ,Tal :- Hatkanangale, Dist:- Kolhapur .*

*During his experimental work, he should be communicate with every department (viz. Quality, Testing, Production, and R & D) to collect necessary information related to project.*

*The project report is based on data collection and analysis by him during his experimental work at D sign Design Pvt. Ltd. Ichalkaranji ,Tal :- Hatkanangale, Dist:- Kolhapur .*

*He should visit to our company for his experimental work during from August 2023 to March 2024. during this period, his behavior and initiative kind of attitude should be appreciable.*

*We wish him the best of luck, in all for his future endeavors and career.*

*Thanking you in anticipation*

**For D sign Design Pvt. Ltd.**

**Mr.Pravin Padale**  
**Manager**  
**(9860222677)**

for **D Sign Design**  
  
Proprietor / Manager

**D Sign Design**  
Proprietor / Manager



**RESEARCH PROJECT COMPLETION CERTIFICATE**

**(TO WHOMSOEVER IT MAY CONCERN)**

*This is to certify that Mr. Nikhil B. Todkar, Mr. Satyajit M. Patil, Mr. Pruthviraj A. Jadhav, Mr. Omkar S. Angaj fourth year B Tech Mechanical Engineering student under the academic guidance of his Research Guide Prof. A. B. Rabade ( Assistant Professor Mechanical Engineering ) of Ashokrao Mane Group of Institutions, Vathar Tarf Vadgaon has completed sponsored Research Project I and Stage II for industrial support project on "Automatic Height Sorting System." under the technical guidance of Mr. Pravin Padale (Manager ) D sign Design Pvt. Ltd. Ichalkaranji, Tal :- Hatkanangale, Dist:- Kolhapur .*

*During his experimental work, he had communicate with every department (viz. Quality, Testing, Production, and R & D) to collect necessary information related to project.*

*The project report is based on data collection and analysis by him during his experimental work at D sign Design Pvt. Ltd. Ichalkaranji, Tal :- Hatkanangale, Dist:- Kolhapur .*

*He completed visit to our company for his experimental work during from August 2023 to March 2024, during this period, his behavior and initiative kind of attitude appreciable.*

*We wish him the best of luck, in all for his future endeavors and career.*

*Thanking you in anticipation*

*For D sign Design Pvt. Ltd.*

**Mr. Pravin Padale**  
**Manager**  
**(9860222677)**

for D Sign Design  
for D Sign Design  
*Pravin Padale*  
Proprietor / Manager

for D Sign Design  
  
Proprietor / Manager

**ASHOKRAO MANE GROUP OF INSTITUTIONS**

Address : Vathar Tarf Vadgaon, Tal. Hatkanangale, Dist. Kolhapur - 416 112 (Maharashtra)

Phone : (0230) 2407740, 2407750 Fax : (0230) 2407750 Email : direction@amgoi.edu.in Website : www.amgoi.org

Approved by : AICTE, New Delhi No. F-No. MS ( Newint ) 2009 / 08, Higher &amp; Technical Education Department, Govt. of Maharashtra, Directorate of Technical Education, Mumbai. Affiliated to : Dr. Babasaheb Ambedkar Technological University, Lonere - Rajgad. (B.Tech. &amp; M.Tech. Programs), Shivaji University, Kolhapur. (MBA Program).

Accredited by NAAC with 'A' Grade CGPA 3.08



Founder President  
Late Shri. Ashokrao Mane

Director  
Dr. H. T. Jadhav, M.E., Ph.D.

President  
Hon. Shri. Vijaysinh A. Mane

Ref. No.: AMGOI/1027/2022-23

Date: 17/5/2023

**MEMORANDUM OF UNDERSTANDING (MOU)****D Sign Design**

H. No. 2147, Near Gajanan Maharaj  
Mandir, sangli road, Khotwadi,  
Ichalkaranji - 416121

**Between**

&amp;

**Ashokrao Mane Group of  
Institutions**

Vathar Tarf Vadgaon, Tal-  
Hatkanangale, Dist.-Kolhapur, 416112

This memorandum of understanding (MOU) is made at Kolhapur on 01/05/2023 between D Sign Design, Ichalkaranji and Ashokrao Mane Group of Institutions, Vathar Tarf Vadgaon.

The MOU is signed between Head of Ashokrao Mane Group of Institutions and D Sign Design, Ichalkaranji.

D Sign Design is engaged in management consultancy activities in business, technical and specialized design consultancy in mechanical, architectural and construction sector.

Balasaheb Mane Shikshan Prasarak Mandal, Ambap is working in the education field since 1980 and has 29 schools, 1 Engineering, 1 Poly Technique, 12 Pharmacy, 1 BAMS, and 1 ITI. Ashokrao Mane Group of Institutions has 5 undergraduates, 4 Post Graduates courses of engineering and MBA course.

As per this MOU, We jointly plan and execute activities for betterment and development of technical skill of students and faculty of the Institute by taking help of D Sign Design, Ichalkaranji. We here by agree and undertake to extend all the cooperation in the respect of following activities preferably related to the mechanical engineering, civil engineering and MBA streams.

1. Internship/ Industrial Training/Industrial visits of the students
2. Mutual utilization of technological facilities and expertise







**MOU**  
**with**  
**D Sign design for Mechanical**



  
**Professor & Head**  
Department Of Mechanical Engineering  
Ashokrao Mane Group of Institution  
Vathar, Kolhapur

## Industry Institute Interaction Activity Report

**Activity title:** Industry- Institute Interaction (Under Industrial Visit Activity)  
**Activity type:** Industry-Academic Linkage

**Mode of conduction:** Offline (Training Activity)  
**Date:** 15<sup>th</sup> Sept. 2023  
**Time:** 10 to 1.30 PM  
**Venue:** Seminar hall

**Objective:**

To understand a broader understanding of career opportunities in software industries.

**Resource person:** Mr. Pravin Padale, Owner D Sign Design, Ichalkarnji

**Participants:** SY, TY & Final year Students of Mechanical engg.

**Details of activity:** Mechanical department organised one-day Training program by D Sign Design, Ichalkarnji on 15<sup>th</sup> Sept. 2023 for SY and TY & Final year Students.

At the start of session, welcome and introduction of the expert was given by Mechanical Engineering Head of Department Prof. M. A. Sutar. Then the expert session started, wherein Mr. Pravin Padale delivered the speech on following points:


Explaining by using various case studies, etc., how to manage Technical processes under stressful conditions, how to plan and regulate the various designs, and the many implications and difficulties encountered by the design procedure. The students then interacted with the expert and vote of thanks was given by the event coordinator Prof. A. K. Patil sir.

**Outcome:**


Students confidently grasp unit technical procedures, planning, and control. Mechanical engineering students understand its scope and problems.

**Publicity:**

Wide publicity is given through Facebook, LinkedIn, status of staff and all students whatsapp groups.

  
Mr. G. R. Gaikwad  
Coordinator III



  
Professor & Head  
Department Of Mechanical Engineering  
Ashokrao Mane Group of Institution  
Vathar, Kolhapur

## Industry Institute Interaction Activity Report

**Activity title:** Industry- Institute Interaction (Under Industrial Visit Activity)  
**Activity type:** Industry-Academic Linkage

**Mode of conduction:** Offline (Training Activity)

**Date:** 14<sup>th</sup> January 2023

**Time:** 11 to 1.30 PM

**Venue:** Seminar hall

**Objective:**

To understand a broader understanding of career opportunities in software industries.

**Resource person:** Mr. Pravin Padale, Owner D Sign Design, Ichalkarnji

**Participants:** SY, TY & Final year Students of Mechanical engg.

**Details of activity:** Mechanical department organised one-day Training program by D Sign Design, Ichalkarnji on 14<sup>th</sup> Jan, 2023 for SY and TY & Final year Students.

At the start of session, welcome and introduction of the expert was given by Mechanical Engineering Head of Department Prof. M. A. Sutar. Then the expert session started, wherein Mr. Pravin Padale delivered the speech on following points;

Explaining by using various case studies, etc., how to manage Technical processes under stressful conditions, how to plan and regulate the various designs, and the many implications and difficulties encountered by the design procedure. The students then interacted with the expert and vote of thanks was given by the event coordinator Prof. P. S. Ladgaonkar sir.

**Outcome:**


Students confidently grasp unit technical procedures, planning, and control. Mechanical engineering students understand its scope and problems.

**Publicity:**

Wide publicity is given through Facebook, LinkedIn, status of staff and all students whatsapp groups.

  
Mr. G. R. Garkwad  
Coordinator III



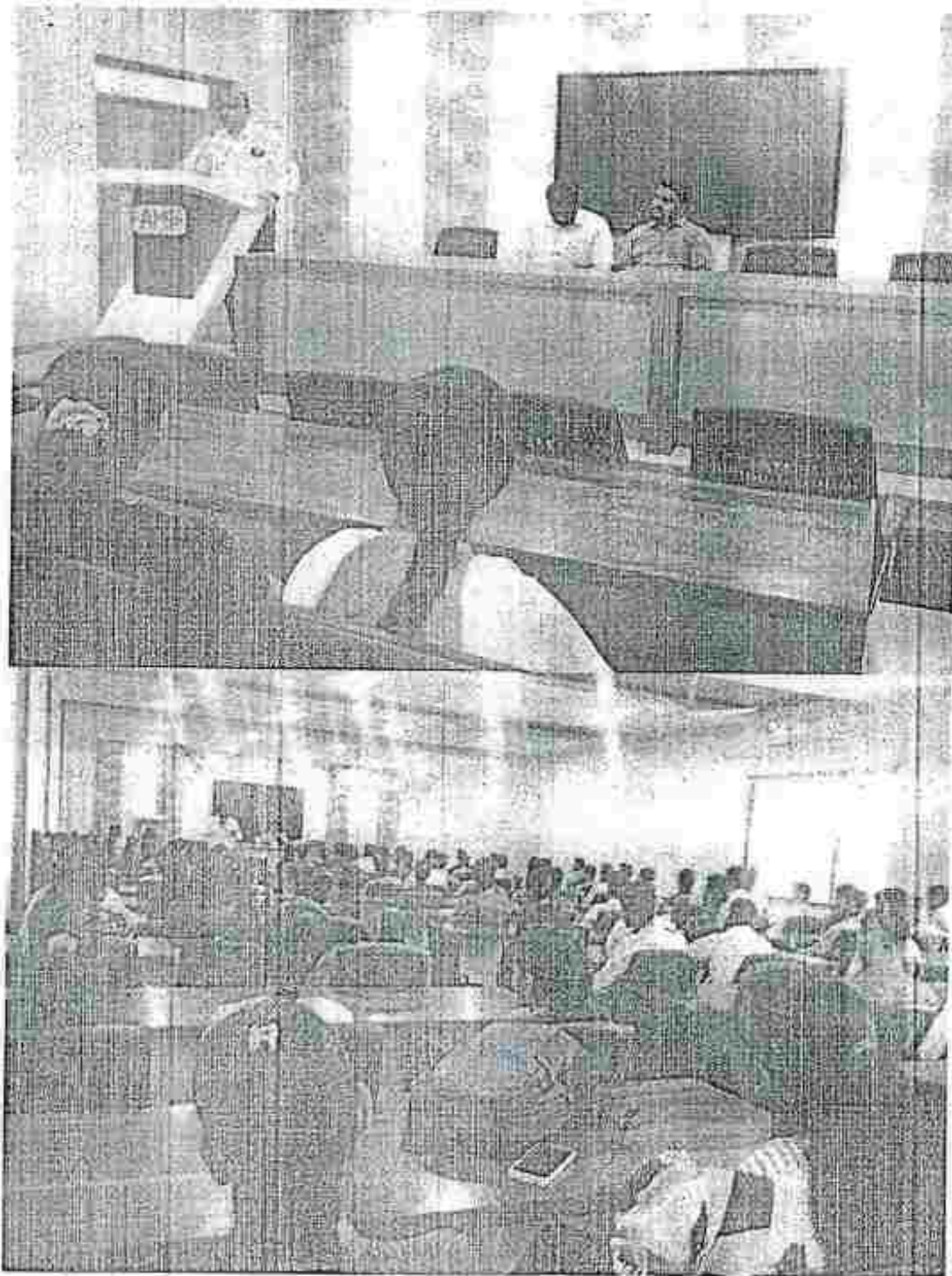
  
Professor & Head  
Department Of Mechanical Engineering  
Ashokrao Mane Group of Institution  
Vathar, Kolhapur





D Sign Design, Ichalkarnji Conducting training





Mr.PravinPadale conducting the training Activity





Shri Balasaheb Mane Shikshan Prasarak Mandal's

# ASHOKRAO MANE GROUP OF INSTITUTIONS

NH-4, Vathar Tarf Vadgaon, Tali -Hatkanangale, Dist: - Kolhapur-416112

Website: [www.amgoi.org](http://www.amgoi.org)

**Accredited by NAAC**



## Department of Mechanical Engineering

### Industry Institute Interaction Activity Report

**Activity title:** Industry- Institute Interaction (Under training Activity)

**Mode of conduction:** Offline

**Date:** 18<sup>th</sup> October 2023

**Time:** 11 to 1.30 PM

**Venue:** Seminar hall

**Objective:**

To educate students about the technological processes, skills necessary to manage units, the breadth of the coding, decoding in software field, and the difficulties it faces.

**Resource person:** Mr. Yogesh Patil, Managing Director, Archer InfoTech, Pune

**Participants:** All students of Mechanical department

**Details of activity:**

At the start of session, welcome and introduction of the expert was given by Mechanical Engineering Head of Department Prof. Mr.M.A.Sutar. Then the expert session started, wherein Mr. Yogesh Patil delivered the speech on following points:


Explaining by using various case studies, etc., how to learn Technical processes by using coding and decoding methods, how to plan and regulate the various projects, and the many implications and difficulties encountered in software projects. The students then interacted with the expert and vote of thanks was given by the event coordinator Prof. G.R.Gaikwad sir,

**Outcome:**

Students confidently grasp unit technical procedures, planning, and control in software field, students understand its scope and problems.

**Publicity:**

Wide publicity is given through Facebook, LinkedIn, status of staff and all students whatsapp groups.

  
Mr. G. R. Gaikwad  
Coordinator III



  
**Professor & Head**  
Department Of Mechanical Engineering  
Ashokrao Mane Group of Institution  
Vathar, Kolhapur





Shri Balasaheb Mane Shikshan Prasarak Mandal's

# ASHOKRAO MANE GROUP OF INSTITUTIONS

NH - 4, Vathar Tarf Vadgaon, Tal: -Hatkanangale, Dist: - Kolhapur-416112

Website: www.amgoi.org

**Accredited by NAAC**

**Department of Mechanical Engineering**



## MEMORANDUM OF UNDERSTANDING

Between:

Shri Balasaheb Mane Shikshan Prasarak Mandal's  
ASHOKRAO MANE GROUP OF INSTITUTIONS

AND

ANCHER INFOTECH, PUNE

NO. 1/2024  
DATE: 22/04/24

22/04/24

On this date, the undersigned, representing the above institutions, have agreed to enter into a Memorandum of Understanding (MoU) for the purpose of promoting academic and technical cooperation between the two institutions.

The above MoU shall be valid for a period of three years, commencing from the date of signing of this MoU, unless terminated earlier by mutual consent of both the parties.

The undersigned, representing the above institutions, have agreed to:

1. Exchange of faculty members for teaching and research.

2. Exchange of students for academic and technical cooperation.

3. Exchange of information and resources.

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Shri Balasaheb Mane ShikshanPrasarak Mandal's

# ASHOKRAO MANE GROUP OF INSTITUTIONS

NH - 4, VatharTarfVadgaon, Tal:-Hatkanangale, Dist:- Kolhapur-416112

Website: www.amgol.org



**NBA accredited Programs\* | Accredited by NAAC with 'A' Grade (CGPA 3.08)**

**Mechanical Engineering Department**

Date: 15/7/24

## Ready Engineer Program

Tata Technologies Ltd, Pune

Academic Year 2023-24						
Department	Name of Value added programs offered	Year of offering	Name of course	Duration of course	Number of students enrolled in the year	Number of Students completing the course in the year
Mechanical	Ready Engineering Program, TATA Technologies Ltd, Pune	2023-24	AAD	6 Months	28	18
			FAD	6 Months	29	18

RE SPOC



HOD

**Registration | Advanced Automobile Design | Ready Engineer (2023-24 Batch)**

6 messages

Ready Engineer <Ready.Engineer@tatatechnologies.com>

Wed, Nov 29, 2023 at 5:14 PM

Dear Ready Engineer SPOCs,

As you are aware that the enrolment of Advanced batch for the Ready Engineer Program (academic year 2023-24) will be starting from December 2023, request to refer the following details and share with interested students :

Course	Advanced Automobile Design (AAD)
Eligibility	Sem VI Students from Mech/Prod/Auto Engg. branches
Registration Timelines	1 <sup>st</sup> Dec. to 15 <sup>th</sup> Dec. 2023
Registration	Online thr. Ready Engineer Portal (readyengineer.tatatechnologies.com)

**Please Note:**

- Ready Engineer is Corporate Social Responsibility (CSR) initiative of Tata Technologies, hence offered free of cost to students
- Please refer the calendar to be shared with students well in advance
- Registration starts on 1st Dec. and ends on 15th Dec. 2023 eod , no registration/replacement will be entertained after 15th Dec.23
- Professor's to begin the course sessions from 15th Dec.23, hence the session plan to be updated by 14th Dec.23 and adhere to same
- IGETIT account for new enrolled students will be created by 25th Dec.23, SPOC to avoid follow-up for this till this date
  - In case of any issue during registration, please share the same to Hina at [resupport@cioinfotech.com](mailto:resupport@cioinfotech.com)

Look forward for continued support.

**Thanks & Regards,**

Siddharth Yawalkar





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**Registration | Advanced Automobile Design | Ready Engineer (2023-24 Batch)**

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Ready Engineer <Ready.Engineer@tatatechnologies.com>  
x: Ready Engineer <Ready.Engineer@tatatechnologies.com>

Tue, Mar 5, 2024 at 1:27 F

Dear Ready Engineer SPOCs,

WRT the trailing mail, wish to inform that the final assessment for AAD 2023-24 batch is schedule on 17<sup>th</sup> Mar.24 (Sunday).

**Please note:**

- Students to complete all iGETIT modules by 15th Mar.24 to be eligible for 20 marks
- Students to complete all Soft Skill modules (M1 to M6) by 15th Mar.24 to be eligible for 10 marks
- For students who did not register for Soft Skill, the total assessment marks structure will out of 90 (Technical (AAD) – 70 + Completing iGETIT modules exam – 20)
- SPOC to ensure 100% attendance

Please inform these details to all students.

Regards,

Siddharth

---

From: Ready Engineer

Sent: Wednesday, November 29, 2023 5:14 PM

Subject: Registration | Advanced Automobile Design | Ready Engineer (2023-24 Batch)

Dear Ready Engineer SPOCs,

[Quoted text hidden]

[Quoted text hidden]





Shri Balasaheb Mane ShikshanPrasarak Mandal's

# ASHOKRAO MANE GROUP OF INSTITUTIONS

NH - 4, VatharTarfVadgaon, Tal: -Halkanangale, Dist: - Kolhapur-416112

Website: www.amgoi.org



**NBA accredited Programs\* | Accredited by NAAC with 'A' Grade (CGPA 3.08)**

## Mechanical Engineering Department

Date: 30/11/2023

All the students of TY Mechanical Engineering are hereby informed that, the registration for the advanced batch for the Ready Engineer Program by Tata Technologies, Pune will be starting from December 2023. The details for the registration are as follows:

Course	Advanced Automobile Design (AAD)
Eligibility	Semester VI Students from Mechanical Engineering
Registration Timelines	1 <sup>st</sup> Dec. to 15 <sup>th</sup> Dec. 2023
Registration	Online through Ready Engineer Portal ( <a href="http://readyengineer.tatatechnologies.com">readyengineer.tatatechnologies.com</a> )

### Please Note:

- This course, offered by Tata Technologies at no cost, is part of their corporate social responsibility (CSR) initiative towards society.
- Registration starts on 1st December and ends on 15th December 2023 end of day , no registration/replacement will be entertained after 15th December, 2023

In case of any issue during registration, please contact to:

Prof S. V. Dafade (Mob: 9665515003, Email-id: [svd@amgoi.edu.in](mailto:svd@amgoi.edu.in))

  
SPOC



  
HOD

**Ready Engineer Program Calendar (2023-24 Batch)**

**Advanced Automobile Design (TE Students / Sem VI)**

Domain	Particulars	From	To	Due
Technical	Registration for Course	1-Dec-23	15-Dec-23	15-Jan-23
	Course Sessions	15-Dec-23	10-Mar-24	10-Mar-24
	Final Test		17-Mar-24	
	Result		April -24	
	Issue of Certificates		April -24	
Soft Skill	Modules + Assessment	15-Dec-23	10-Mar-24	10-Mar-24

*Graph spec*





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**Regarding Login Credentials for RE Students from AMGOI,Vathar**

messages

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**Sakharam Dafade** <svd@amgoi.edu.in>

Sat, Nov 4, 2023 at 10:49 A

to: help@learningmatters.xyz, venkat.s@learningmatters.ai  
cc: "Yawalkar, Siddharth" <siddharth.yawalkar@tatatechnologies.com>

Respected Sir,

From Ashokrao Mane Group of Institutions total 29 students have registered for the Ready Engineer Program. All they have given the Baseline Test, but only 8 students got the login credentials from the learning matters. So please solve this issue as soon as possible so that students can complete soft skill modules within the time .

---

**Learning Matters Help Desk** <help@learningmatters.xyz>

Tue, Nov 7, 2023 at 9:55 A

to: Sakharam Dafade <svd@amgoi.edu.in>  
cc: venkat.s@learningmatters.ai, "Yawalkar, Siddharth" <siddharth.yawalkar@tatatechnologies.com>

Dear sir,

As discussed with you earlier ,we have provided the Konnect user credentials only for those students who have submitted both the baseline test and the registration.

Please revert for any queries.

Thank you

Regards,

Team Learning Matters

help@learningmatters.xyz

[Quoted text hidden]



**Tata Technologies Ready Engineer | Advanced Automobile Design | 2024 Batch | 31st March 2024 | Ashokrao Mane Group of Institutions, Kolhapur**

message

himanshu Arora &lt;himanshu.arora@aon.com&gt;

Tue, Mar 26, 2024 at 1:56 P

&gt; "svd@amgoi.edu.in" &lt;svd@amgoi.edu.in&gt;

c: "Siddharth.Yawalkar@tatatechnologies.com" &lt;Siddharth.Yawalkar@tatatechnologies.com&gt;, "hina.puthran@ciointotech.com"

hina.puthran@ciointotech.com&gt;, Hasmeet Kaur Sapra &lt;hasmeet.sapra@aon.com&gt;



Dear Sir / Ma'am,

Greetings from AonCoCubes!

As you are aware, we have the online test for Tata Technologies - Ready Engineer Advanced Automobile Design Final Assessment on 31<sup>st</sup> March 2024. Shared below are the instructions details for the same. We will also be sending out emails to the candidates along with the instructions and system requirements for the test by Wednesday. In the meanwhile, we request you to please forward the same ahead from your end as well.

Attached is the candidate list for the day 31st March 2024. Only the email Id's mentioned in this excel will work for the candidates on the day of the assessment. No other email ID will be accessible.

College Name	Ashokrao Mane Group of Institutions, Kolhapur
SPOC Name & Number	Sakharam Dafade - 9665515003
Assessment Date	31st March 2024
Test Slot	10 AM – 12 PM
Passkey	460346
Test Link (Browser)	<a href="https://cocubes.in/tatatechnologiesltd">https://cocubes.in/tatatechnologiesltd</a>
Test Link (Android App)	technologiesltd

Please find below the assessment details and instructions:

**System Requirements:**

- Supported Devices – Desktop, Laptop
- Operating System – Window 7 or above
- Browsers – Google Chrome (latest version)
- Java Script must be enabled
- Disable Antivirus
- Minimum Internet Bandwidth required – 4 Mbps
- Webcam and Microphone is mandatory
- In case you wish you to appear from your mobile please **Download the app "COCUBES ASSESSMENT"** from google play store. Direct link to download the app – <https://play.google.com/store/apps/details?id=com.cocubes.assessment> . **Please ensure that you have a front camera available on the mobile phone. Please note that this app is not compatible with**



- **Test Link:**

- Link for laptop/desktop – <https://cocubes.in/tatatechnologiesltd>
- Link for Mobile – [tatatechnologiesltd](https://cocubes.in/tatatechnologiesltd)

To check the working functionality of your Webcam and Microphone, use the following links – <http://assess.cocubes.com/check-system>

**Allow access to webcam and microphone:**

- From your Google Chrome browser, go to Settings → Privacy and Security → Site Settings → Enable Webcam and Microphone access to the browser

**Steps to appear for the test:**

- **Enter the Test link:** Use the test link that is shared to open the start page
- **Email ID:** Enter the email ID as per the one mentioned in the attached list. **Candidates must use only the email ID mentioned in this list to start the test, as these are registered ones. The test will not work from any other email ID**
- **Passkey:** Mentioned above.

**Along with the above details, you are required to mention your College Name as well. You will also be required to have a Photo ID proof handy while sitting for the test – for ex. Govt ID Proof / College ID Card, with your photo on it.**

**\*\*You are required to start the test at 10:00 AM. Please note that the test no one will be able to login into the assessment after 12:00 PM**

### Do's



### Don'ts



**Test pattern: Final Assessment for Ready Engineer 2.0 – Advanced Automobile Design**

**No of Questions:** 35 Questions (MCQ), 2 Marks each

**Section 1:** 18 Questions (MCQ), 2 Marks each

**Section 2:** 17 Questions (MCQ), 2 Marks each

**Time Duration:** 60 Mins

**Important instructions:**

1. The test is webcam & microphone enabled and you are being monitored throughout. If the webcam or microphone is not detected at the time of starting the test, the question paper will not load. Kindly allow the webcam and microphone access before the test





power backup available. The speed of the internet should be more than or equal to 4 MBPS.

2. Do not press backspace, refresh, or close the window during the online test
3. Once the test is complete you will get a message for the same accordingly on your screen
4. Do not submit the assessment unless you have attempted **all the questions**. Test once submitted will not be reset
5. In case of Internet failure, the test will continue to run, and you can attempt the questions without any hassles. As soon as internet is resumed, all answers gets saved automatically.
6. In case of power failure, do not panic, restart the test using the same link and the same browser, the test will start from the same question which you had left earlier and all attempted questions remain attempted and responses gets saved.
7. Please note that you are being monitoring via an online monitoring tool. In case any candidate found copying, using other websites during the test, the same will be reported to the Tata Technologies Team. Please refrain from any kind of malpractices

*Please note that this is an auto generated email. In case of any concerns please write to <aasindiatatatechsupport1@aon.com>*


Stay Safe!

Best Wishes,

Team Aon


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#### 4 attachments

 Ashokrao Mane Group of Institutions, Kolhapur.xlsx  
12K

 Candidate Assessment Guide.pdf  
360K

 System Requirement (Mobile\_Tablets).pdf  
341K

 System Requirement\_(Laptop\_Desktop).pdf  
462K

  
Spec



## Changes in Exam Date - FAD 2023 Batch & AAD Registration

message

Ready Engineer <Ready.Engineer@tatatechnologies.com>

Wed, Nov 29, 2023 at 4:55 P

Dear Ready Engineer SPOCs,

The final assessment of RE FAD 2023-24 batch was schedule in December 2023 but after interacting with many SPOCs it was observed that many colleges have their exams in month of December. Also the registration for AAD batch needs to be initiated soon to end the batch by Mar.23. Considering all these factors, the **final assessment of RE FAD batch will be conducted on 14th Jan.24 (Sunday)**, students need to complete all the module (iGETIT + Soft Skills) by 15th Dec.23. Please ensure all registered students attain the final assessment as there will be no retest.

Considering the delay for AAD batch, the registration for AAD 2023 -24 batch will be started from 1st Dec. to 15th Dec.23. AAD sessions to be started from 15th Dec.23 and end by 10th Mar.24 with final assessment on 17th Mar.24. Will share a separate mail for AAD registration.

Please share these details with RE students as well.

Look forward for continued support.

**Thanks & Regards,**

**Siddharth Yawalkar**

Associate Manager - CSR

Phone: +91-20-66529774 | Mobile: +91 8766757614

Tata Technologies,

Plot No.25 Rajiv Gandhi Infotech Park, Phase -1, Hinjawadi, Pune, India- 411057

Web: [www.tatatechnologies.com](http://www.tatatechnologies.com)      [ready.engineer@tatatechnologies.com](mailto:ready.engineer@tatatechnologies.com)



// Engineering a better world



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Email Disclaimer: The contents of this e-mail and any attachment(s) may contain confidential or privileged information for the intended recipient(s). Unintended recipients are prohibited from taking action on the basis of information in this e-mail and using or disseminating the information, and must notify the sender and delete it from their system. Tata Technologies will not accept responsibility or liability for the accuracy or completeness of, or the presence of any virus or disabling code in this e-mail.  
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Shri Balasaheb Mane Shikshan Prasarak Mandal's

# ASHOKRAO MANE GROUP OF INSTITUTIONS

NH - 4, Vathar Tarf Vadgaon, Tal: -Hatkanangale, Dist: - Kolhapur-416112

Website: www.amgoi.org



NBA accredited Programs\* | Accredited by NAAC with 'A' Grade (CGPA 3.08)

## Mechanical Engineering Department

### Ready Engineer Program

### Advanced of Automobile Design (AAD) Batch 2023-24

### Attendance Sheet

Sr. No.	Session Date	6/1	20/1	03/2	17/2	2/3	16/3
	Full Name of Student	Sign	Sign	Sign	Sign	Sign	Sign
1	AKSHAY PATIL	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]
2	KOUSHIK PATIL	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]
3	OM DOIFODE	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]
4	PRAMOD JADHAV	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]
5	PRANAV KHANDAGALE	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]
6	PRASHANT PATIL	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]
7	PRATHMESH TAMBULKAR	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]
8	PRATHMESH UTHALE	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]
9	PRATIK BHUJBAL	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]
10	RAJ DESAI	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]
11	RAJESH GHALAWADE	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]
12	RAJVARDHAN KADAM	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]
13	RANJIT KHALKAR	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]
14	SANKET MASKAR	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]
15	SHANTANU SHINDE	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]
16	SHARDAV SHINDE	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]
17	SHIVTEJ CHARANE	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]
18	SHREYASH KUMBHAR	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]
19	SUJIT JAKATE	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]
20	SUMEDH WAYADANDE	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]
21	SUMIT KIRULKAR	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]
22	SWAPNIL SOLASE	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]
23	TEJAS PATIL	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]
24	VAIBHAV KOLI	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]
25	VAIBHAV PATIL	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]
26	VASIM VATHARE	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]
27	VISHAL THERGAVE	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]
28	VISHAL YADAV	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]	[Signature]

[Signature]  
SPOC



[Signature]  
HOD





Shri Balasaheb Mane Shikshan Prasarak Mandal's

# ASHOKRAO MANE GROUP OF INSTITUTIONS

NH - 4, Vathar Tarf Vadgaon, Tal: -Hatkanangale, Dist: - Kolhapur-416112

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## Mechanical Engineering Department

### Ready Engineer (AAD) 2023-24 Batch Result

Sr. No	Student Name	Advanced Automobile Design %	Soft-Skills %	Final Marks
1	Akshay Patil	100	0	14
2	Koushik Patil	0	0	16
3	Om Doifode	0	0	28
4	Pramod Jadhav	100	0	38
5	Pranav Khandagale	0	0	30
6	Prashant Patil	100	0	28
7	Prathmesh Tambulkar	0	0	22
8	Prathmesh Uthale	100	0	12
9	Pratik Bhujbal	100	0	44
10	Raj Desai	0	0	32
11	Rajesh Ghulawade	0	0	0
12	Rajvardhan Kadam	100	94.3	16
13	Ranjit Khalkar	100	0	28
14	Sanket Maskar	3.1	0	0
15	Shantanu Shinde	100	0	34
16	Shardav Shinde	0	0	32
17	Shivtej Charane	100	100	26
18	Shreyash Kumbhar	100	0	32
19	Sujit Jakate	100	98.3	14
20	Sumedh Wayadande	0	0	20
21	Sumit Kirulkar	100	0	32
22	Swapnil Solase	12.5	0	18
23	Tejas Patil	100	0	34
24	Vaibhav Koli	100	0	46
25	Vaibhav Patil	100	0	24
26	Vasim Vathare	100	0	40
27	Vishal Thergave	100	0	56
28	Vishal Yadav	100	0	34

  
SPOC



  
HOD



Sakharam Dafade &lt;svd@amgoi.edu.in&gt;

## Gentle Reminder- Registration | Fundamentals of Automobile Design | Ready Engineer (2023-24 Batch)

1 message

Ready Engineer &lt;Ready.Engineer@tatatechnologies.com&gt;

Sun, Aug 13, 2023 at 10:35 PM

From: Ready Engineer

Sent: Wednesday, August 9, 2023 12:53 PM

Subject: Registration | Fundamentals of Automobile Design | Ready Engineer (2023-24 Batch)

Dear Principals, HODs and Ready Engineer SPOCs,

Greetings from Tata Technologies !

I am happy to inform that the registration for Ready Engineer FAD 2023-24 batch will be starting this month, the details are as follows:

COURSE	Fundamentals of Automobile Design (FAD)
ELIGIBILITY	Sem V Students from Mech/Prod/Auto Engg. branches
REGISTRATION DATES	17th Aug to 31st Aug 2023
REGISTRATION	Online thr. Ready Engineer Portal (readyengineer.tatatechnologies.com)

### Please Note:

- Ready Engineer Program is the Corporate Social Responsibility (CSR) initiative of Tata Technologies hence offered free of cost to Professors & students
- Please refer the calendar & registration guidelines for both Professor & students, same to be shared with students well in advance
- Registration starts on 17<sup>th</sup> Aug. and ends on 31<sup>st</sup> Aug 2023 eod
- Professor's to begin the course sessions from 1<sup>st</sup> Sep. 2023, hence the session plan to be updated by 25th Aug.23 and adhere to same
- iGETIT account for enrolled students will be created by 10<sup>th</sup> Sep.23
- Students need to complete the Base Engineering Soft Skills only after which the access to the modules will be open





Shri Balasaheb Mane Shikshan Prasarak Mandal's

# ASHOKRAO MANE GROUP OF INSTITUTIONS

NH - 4, Vathar Tar Vadgaon, Tal: - Hatkanangale, Dist: - Kolhapur-416112

Website: www.amgoi.org



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## Mechanical Engineering Department

Date: 11/08/2023

All the students of TY Mechanical Engineering are hereby informed that, the registration for the fundamental Batch for the Ready Engineer Program by Tata Technologies, Pune Will be starting from 17<sup>th</sup> Aug 2023. the details for the registration is as follows:

Course:	Fundamentals of Automobile Design (FAD)
Eligibility:	Sem V Students from Mechanical Engineering
Registration Timelines:	17th Aug to 31st Aug 2023
Registration:	Online through Ready Engineer Portal ( <a href="http://readyengineer.tatatechnologies.com">readyengineer.tatatechnologies.com</a> )

All the interested students complete your registration process as early as possible.

Please Note:

- Ready Engineer is Corporate Social Responsibility (CSR) initiative of Tata Technologies, hence offered free of cost to students.
- Registration starts on 17th Aug and ends on 31st Aug 2023, no registration/replacement will be entertained after 31st Aug 2023.

In case of any issue during registration, please contact to

Prof S.V.Dafade (Mob:9665515003, Email-id:svd@amgoi.edu.in)

  
SPOC



  
HOD



Ready Engineer Program Calendar (2023-24 Batch)				
Fundamentals of Automobile Design (TE Students / Sem V)				
Domain	Particulars	From	To	Due
Technical	Registration for Course	17-Aug-23	31-Aug-23	31-Aug-23
	Course Sessions	1-Sep-23	30-Nov-23	30-Nov-23
	Final Test		3-Dec-23	
	Result		20-Dec-23	
	Issue of Certificates		27-Dec-23	
Employability Assessment	Test		8-Oct-23	
Soft Skill	Registration	1-Sep-23	10-Sep-23	10-Sep-23
	Modules + Assessment (M1 to M3)	10-Sep-23	25-Nov-23	25-Nov-23

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SPQC





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## Mechanical Engineering Department

### Ready Engineer Program Fundamentals of Automobile Design (FAD) (Batch 2023-24)

Sr. No	Name of the Student
1	PATIL AKSHAY DILIP
2	PATIL KAUSHIK KIRAN
3 ✓	DDIFODE OM VINOD
4	PATIL PRAJWAL SACHINDRA
5	JADHAV PRAMOD RAGHUNATH
6 ✓	KHANDAGALE PRANAV DAYANAND
7	PATIL PRASHANT SATYAWAN
8	TAMBULKAR PRATHMESH VISHNU
9	LUTHALE PRATHAMESH ASHOK
10	BHUBAL PRATIK CHANDRAKANT
11	DESAI RAJ RAMESH
12	GHALWADE RAJESH RAMESH
13 ✓	KADAM RAJVARDHAN NETAJI
14	KHALKAR RANJIT DHANAJI
15 ✓	MASKAR SANKET RAJRAO
16	SHINDE SHANTANU PANDURANG
17	SHINDE SHARDAY SACHIN
18 ✓	CHARANE SHIVTEJ SHIVAJI
19	KUMBHAR SHREYASH DILIP
20 ✓	JAKATE SUJIT BHAGWAN
21 ✓	WAYADANDE SUMEDH ASHOK
22	KIBULKAR SUMIT SAMBHAJI
23 ✓	SOLASE SWAPNIL VILAS
24	PATIL TEJAS CHANDRAKANT
25	KOLI VAIBHAV ANKUSH
26	PATIL VAIBHAV SADASHIV
27	VATHARE VASIM JAVID
28	THERAGAVE VISHAL MAHADEV
29	VADAV VISHAL SHIVAJI

  
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Website: www.amgoi.org  
NBA accredited Programs\* | Accredited by NAAC with 'A' Grade (CGPA 3.08)  
Mechanical Engineering Department



Date:

## Ready Engineer Program FAD (2023-24) Batch

Roll no	Student Name	Email ID	CoCubes ID	Username	Password
330	Patil Akshay Dilip	akashaypatil622@gmail.com	4126344	patilaks65911	patil&3465
335	Patil Koushik Kiran	koushikpatil1@gmail.com	4126345	patilkoushikkiran	patil)2426
316	Doifode Om Vinod	omdoifode4903@gmail.com	4126346	doifodeomvinod	doifo(4347
321	Patil Prajwal sachindra	prajwalpatil0309@gmail.com	4126347	patilpra47131	patil!8462
320	Jadhav Pramod Raghunath	jadhavpp975@gmail.com	4126348	jadhavpr87051	jadha#6459
310	Khandagale Pranav Dayanand	pranavkhandagale6@gmail.com	4126349	khandaga23191	khand^9640
341	Patil Prashant Satyawan	pp612959@gmail.com	4126350	patilpra15681	patil^6742
311	Tambulkar Prathmesh Vishnu	tambulkarprathmesh18@gmail.com	4126351	tambulkar	tambu(7389
315	Uthale Prathamesh Ashok	prathmeshuthale@gmail.com	4126352	uthalepra	uthal(6283
302	Bhujbal Pratik Chandrakant	pratikbhujbal255@gmail.com	4126353	bhujbalp63461	bhujb_6544
319	Desai Raj Ramesh	rajdesai969798@gmail.com	4126354	desairajramesh	desai#9483
318	Ghalwade Rajesh Ramesh	ghalwade2931@gmail.com	4126355	ghalwaderajeshramesh	ghalw\$2931
328	Kadam Rajvardhan Netaji	kadamrajvardhan.edu@gmail.com	4126356	kadamrajv	kadam%3925
331	Khalkar Ranjit Dhanaji	rankhalkar00@gmail.com	4126357	khalkarranjitdhanaji	khalk(2739
418	Maskar sanket bajirao	sanketmaskar77@gmail.com	4126358	maskarsanketbajirao	maska#9990
307	Shinde Shantanu Pandurang	shantanushinde202@gmail.com	4126359	shindesh89031	shind-9741
336	Shinde Shardav Sachin	shardavshinde16@gmail.com	4126360	shindeshardavsachin	shind11495
332	Charane shivtej shivaji	charaneshivtej48@gmail.com	4126361	charanesh	chara@4565
324	Kumbhar shreyash dilip	shreyashkumbhar1969@gmail.com	4126362	kumbharshreyashdilip	kumbh#3004





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## Mechanical Engineering Department

Date: 20/8/23

### Ready Engineer Program (FAD) 2023-24 Batch Attendance Sheet

Sr.No	Session Date	2/9	30/9	7/10	2/10	4/11	18/11
Full Name of Student	Sign	Sign	Sign	Sign	Sign	Sign	Sign
1	Patil Akshay Dilip	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
2	Patil Kaushik Kiran	AB	Kpatti	AB	Kpatti	Kpatti	Kpatti
3	Doifode Orn Vinod	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
4	Patil Prajwal Sachindra	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
5	Jadhav Pramod Raghunath	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
6	Khandagale Pranav Dayanand	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
7	Patil Prashant Satyawar	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
8	Tambulkar Prathmesh Vishnu	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
9	Uthale Prathamesh Ashok	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
10	Bhujbal Pratik Chandrakant	AB	Bhujbal	Bhujbal	Bhujbal	Bhujbal	Bhujbal
11	Desai Raj Ramesh	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
12	Ghalwade Rajesh Ramesh	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
13	Kadam Rajvardhan Netaji	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	AB	<i>[Signature]</i>	<i>[Signature]</i>
14	Khalkar RanjitDhanaji	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
15	Maskar Sanket Bajirao	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
16	Shinde Shantanu Pandurang	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
17	Shinde Shardav Sachin	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
18	Charane Shivtej Shivaji	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
19	Kumbhar Shreyash Dilip	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
20	Jakate Sujit Bhagwan	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
21	Wayadande Sumedh Ashok	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
22	Kirulkar Sumit Sambhoji	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
23	Solase Swapnil Vilas	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
24	Patil Tejas Chandrakant	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
25	Koli Vaibhav Ankush	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
26	Patil Vaibhav Sadashiv	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
27	Vathare Vasim Javid	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
28	Theragave Vishal Mahadev	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	AB	<i>[Signature]</i>	<i>[Signature]</i>
29	Yadav Vishal Shivaji	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>

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READY  
Engineer



# INNOVATION -2.0

## GET READY FOR THE REVOLUTION

(Free Workshop on PLC & INDUSTRY 4.0)

Arranged by – Gokul Shirgaon Manufacturers Association (GOSHIMA) &

Tata Technologies Ltd. (TTL)

Date & Time – Tuesday 29/11/2022 to Saturday 03/12/2022. 10 am. To 5 pm.

Venue – Centre of Excellence, GOSHIMA, Opp. Police station, MIDC, Gokul Shirgaon.

Who Can Attend –

- Students of Ready Engineer TATA 2022-23 our program & diploma holder
- Students who already completed their diploma/degree holders

**Gokul Shirgaon Manufacturers Association – GOSHIMA** is one of the leading Engineering associations from Western Maharashtra. Apart from the regular activities of assisting the member industries, GOSHIMA is consistently working in the field of Training, Skill Development, Upskilling of students as well as existing employees. A special Centre of Excellence is developed solely for this purpose.

**Tata Technologies Ltd.** – Tata Technologies under its Corporate Social Responsibility initiative "Ready Engineer" intends to bridge the Industry Academia gap through hands on experience. Tata Technologies is associated with GOSHIMA for programs in this area.

**Objective of Workshop** – The core purpose of this workshop, is to make the students aware of the fast paced developments that are taking place in the field of Industrial Automation. Manufacturing sector is demanding Speed, Flexibility in production & use of Technology for maintaining consistency in Quality as well as Quantity. Hence PLC & INDUSTRY 4.0 applications are becoming a must. This Workshop will offer basic idea about PLC & Industry 4.0 & its application in Industries. Every participant will receive Participation certification as well as Top 3 ranker receive certification.



To register scan the QR code:



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Active



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Compose



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Drafts

111

More

Spaces

Meet

Labels

RE 2022-23 BATCH

We have successfully received the nominations from your college for the three-day workshop on Industry 4.0 organized from 30th Nov - 2nd Dec 2023 at GOSHIMA CFC, Gokul Shirgaon, Kolhapur

Following is the nomination from your institute -

Nominations for Industrial Training (30 Nov- 2 Dec.23)					
Sr. No.	College	Name (First & Last)	Professor/ Student	Ready Engineer Registration No. (FAD 2023 Batch)	email id
1	AMGOI,Vathar	Sakharam Dafade	Professor	NA	svd@amgol.edu.in
2	AMGOI,Vathar	Pramod Ladgaonkar	Professor	NA	psl@amgol.edu.in
3	AMGOI,Vathar	Akshay Patil	Student		akshaypatil622@gmail.com
4	AMGOI,Vathar	Prajwal Patil	Student		prajwalpatil0305@gmail.com
5	AMGOI,Vathar	Pramod Jadhav	Student		adharoo075@gmail.com
6	AMGOI,Vathar	Prathmesh Tambulker	Student		tambulkerprathmesh18@gmail.com
7	AMGOI,Vathar	Prathmesh Uthale	Student		prathmeshuthale@gmail.com
8	AMGOI,Vathar	Pratik Bhujbal	Student		pratikbhujbal255@gmail.com
9	AMGOI,Vathar	Raj Desai	Student		rajdesai909794@gmail.com
10	AMGOI,Vathar	Sujit Jakate	Student		jakatestgawrn@gmail.com

Note -

- Please ask the students to carry a laptop with them for all three days.
- Please make sure all the students reach the venue by 9:45 am.
- It is mandatory for all the students to attend the complete workshop for the three days.
- Please make sure that students maintain discipline throughout the workshop and that no damage is done to GOSHIMA's

*Sakharam Dafade*  
Prof. S. V. Dafade

*svd*

*Prathmesh*

Prof - M. A. Sutar

forwarded  
svd



Nominations for Industrial Training (07 Dec- 09 Dec.23)					
Sr. No.	College	Name (First & Last)	Professor/ Student	Ready En	email id.
1	AMGOI,Vathar	Sakharam Dafade	Professor	NA	svd@amgoi.edu.in
2	AMGOI,Vathar	Pramod Ladgaonkar	Professor	NA	psl@amgoi.edu.in
3	AMGOI,Vathar	Koushik Patil	Student		koushikpatil1@gmail.com
4	AMGOI,Vathar	Om Doifode	Student		omdoifode4903@gmail.com
5	AMGOI,Vathar	Rajvardhan Kadam	Student		kadamrajvardhan.edu@gmail.com
6	AMGOI,Vathar	Ranjit Khalkar	Student		rankhalkar00@gmail.com
7	AMGOI,Vathar	Tejas Patil	Student		patiltejas1307@gmail.com
8	AMGOI,Vathar	Vaibhav Koli	Student		kolivaibhav100@gmail.com
9	AMGOI,Vathar	Vishal Thergave	Student		vishalthergave3358@gmail.com
10	AMGOI,Vathar	Vishal Yadav	Student		yadavvishals3533@gmail.com

*Prof. S. P. C. / spoc*

*forwarded  
H. T. / 9/12/23*

*Permitted  
A. H. C.*



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**Mechanical Engineering Department**

## Ready Engineer Program

Academic Year 2023-24

### Workshop on PLC & Industry 4.0 at GOSHIMA

A three days workshop on PLC and Industry 4.0 is a joint initiative of Gokul Shirgaon Manufacturers Association (GOSHIMA), Kolhapur and Tata Technologies under its CSR program Ready Engineer.

The objective of this workshop is to make the student aware of the fast-paced developments in industrial automation. This workshop will offer basic idea about PLC, Industry 4.0 and its application in the industry.

Two professors from Ashokrao Mane Group of Institutions, accompanied by 25 enthusiastic Ready Engineer students, actively participated in the workshop on PLC and Industry 4.0 at GOSHIMA, CFC, Gokul Shirgaon, Kolhapur.

In this workshop key aspects of Industry 4.0 such as IoT integration, Cloud Computing, AI-driven automation, and data analytics for smart decision-making etc are covered. Also session provided a comprehensive overview of PLC programming principles and hands-on experience with various sensors. Discussions on data analytics and cyber security underscored the importance of safeguarding digital infrastructures.

Ready Engineer students gained a profound understanding of how smart factories enhance efficiency, reduce costs, and improve overall productivity.

The workshop provided a solid foundation for understanding the evolving role of technology in industrial processes.

In conclusion, the workshop served as a comprehensive introduction to Industry 4.0, equipping attendees with the knowledge and tools necessary to navigate the rapidly changing industrial landscape.





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## Mechanical Engineering Department



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Shri Balasaheb Mane Shikshan Prasarak Mandal's

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Website: www.amgoi.org

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Department of Mechanical Engineering



## Activity Report

Activity title: Industry- Institute Interaction (Under Internship Activity)

Mode of conduction: Offline

Date: 14<sup>th</sup> December 2023

Time: 11 to 1.30 PM

Venue: Seminar Hall

### Objective:

To understand a broader understanding of career importance of internship opportunities in software industries.

Resource person: Mr.Dnyesh Khot, Manager,EDL, Pune branch

Participants: Final Year Students of Mech and CSE.

### Details of activity:

On December 14,2023, department held a "DATA structure" session to computer, and Mechanical Engineers students.

EDL Manager Mr.Dnyesh Khot,e was the Resource Person. The seminar covered importance of internship , automation industry trends, and applications as well career in software .

The session introduced automation and software. Mr.Dnyesh Khot underlined the automation industry's requirement , programmers requirements. Second session: on software career,internship process.

Prof. Mr. M. A. Sutar (HOD, Mech Engg.) congratulated the resource person and advised students. Coordinator Prof. G.R.Gaikwad outlined seminar goals. Student Akshay Patil given vote of thanks.

### Outcome:

As a result of attending this session, the students walked away with a grasp of Internship process. They will have the opportunity to obtain an awareness Career, as well as the opportunities and needs that are associated with working in the software field and automation field.

### Publicity:

Wide publicity is given through Facebook, LinkedIn, status of staff and all students whatsapp groups.

Mr.G. R. Gaikwad  
Coordinator III



Prof. H. K. H. H.  
Professor & Head  
Department Of Mechanical Engineering  
Ashokrao Mane Group of Institution  
Vathar, Kolhapur



Shri. Balasaheb Mane Shikshan Prasarak Mandal's  
**ASHOKRAO MANE GROUP OF INSTITUTIONS**

NH - 4, Vathar, Tarf Vadgaon, Tal. Hatkanangale, Dist. Kolhapur-416112

Website: www.amgi.org

**Accredited by NAAC**

**Department of Mechanical Engineering**



**MEMORANDUM OF UNDERSTANDING**

It is the understanding of both parties to this agreement that the Ashokrao Mane Group of Institutions, Hatkanangale, Dist. Kolhapur, Maharashtra, India, shall be referred to as "First Party" and the Ashokrao Mane Group of Institutions, Hatkanangale, Dist. Kolhapur, Maharashtra, India, shall be referred to as "Second Party".

The First Party and Second Party are hereby entering into an agreement for the purpose of providing the following services to the Second Party:

**WHEREAS:**

1. The Ashokrao Mane Group of Institutions, Hatkanangale, Dist. Kolhapur, Maharashtra, India, is a well-established and reputed educational institution.
2. The Ashokrao Mane Group of Institutions, Hatkanangale, Dist. Kolhapur, Maharashtra, India, has a long history of providing quality education to its students.
3. The Ashokrao Mane Group of Institutions, Hatkanangale, Dist. Kolhapur, Maharashtra, India, has a strong reputation for its academic excellence.
4. The Ashokrao Mane Group of Institutions, Hatkanangale, Dist. Kolhapur, Maharashtra, India, has a strong reputation for its infrastructure and facilities.

IN WITNESS WHEREOF, the parties have hereunto set their hands and seals at Hatkanangale, Dist. Kolhapur, Maharashtra, India, on this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

**WITNESSES:**

For Ashokrao Mane Group of Institutions, Hatkanangale, Dist. Kolhapur, Maharashtra, India:

\_\_\_\_\_  
 Ashokrao Mane Group of Institutions, Hatkanangale, Dist. Kolhapur, Maharashtra, India.

For Ashokrao Mane Group of Institutions, Hatkanangale, Dist. Kolhapur, Maharashtra, India:

\_\_\_\_\_  
 Ashokrao Mane Group of Institutions, Hatkanangale, Dist. Kolhapur, Maharashtra, India.





Shri Balasaheb Mane Shikshan Prasarak Mandal's  
**ASHOKRAO MANE GROUP OF INSTITUTIONS**

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**Department of Mechanical Engineering**

