



**SHREYASH PRATISHTHAN'S  
SHREYASH COLLEGE OF ENGINEERING & TECHNOLOGY,  
AURANGABAD (POLYTECHNIC)**



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## ❖ VISION

To be a source of skilled technocrats serving industry and society

## ❖ MISSION

To nurture the students with quality technical education.

To foster practical skills and ethics in students to contribute towards industry and society.

To ensure the satisfaction level of all stakeholders.

## ❖ QUALITY OBJECTIVE

To provide a sound academic environment to students for a complete learning experience.

To train the staff for all-round development of academic record.

To improve the industry institute interaction.

To promote R & D activity.

To Strive for students' placement.

To organize co-curricular and extra curricular activities.

To improve probability of teaching & non-teaching staff to improve internal communication.

To increase the quality consciousness at all levels of the institute by conducting monthly review meetings.

## ❖ QUALITY POLICY

We are Committed to Follow par Excellence teaching practices to meet global demand of Competent and Trained Human Personnel in Engineering and technology Sector by remaining accountable through self-evaluation and operate with continual improvement within the statutory and regulatory framework and review its policy and objectives regularly to ensure its effectiveness.

## THE CHAIRMAN'S MESSAGE



As we move on from century of specialization and technique to century of connectivity and relationship, along with every other profession and institution in our society. Technical education is also being asked to justify its usefulness to society.

Our College aims at providing service to all communities by inculcating the spirit of leadership qualities, through the noble values of devotion discipline, politeness, tolerance and culture in the minds of our students. In the light of globalization of Indian economy and capitulation of Indian brands, it is imperative for future leaders to be aware of ground realities so that they can face with confidence in the emerging global challenges of international markets.

Our mission is to disseminate high quality technical education among the youth and inculcate values and ethics. In pursuit for excellence our purpose is to further to practice technical education, research and science. Our faculty and research, teaching and service reflect core assets of Shreeyash Pratishthan.

Our primary purpose is to enhance the professional life of students and through them improve the organizations they lead. We support our students to understand how the better life of the society can influence the peoples well-being and what is the real meaning and value of social and mental wellness for the humanity and to make the students proud of their deep rooted ethos, the ancient .



**Best Wishes**

**Er. Basawaraj Mangrule,  
Chairman, Shreeyash Pratishthan.**

## CEO's Message



Our strength lies in outstanding infrastructure, excellent faculty and facilities with strong values, ethics and culture to provide excellent opportunities for technical & professional education. We are highly committed to a process, systems and best practices that assure excellence in education and produce outstanding engineers and professionals to realize their maximum potential in their personal and professional life.

Shreeyash College of engineering & technology is creating the environment that is conducive to learning, developing the skills, attitudes and caliber by promoting teaching, training, research and creativity. We ignite nurture and transform innovations by establishing strong network & collaboration with institutes, industries and universities of repute at national & international level. My priority is to take all institutes as a center of academic excellence.

We invite you to explore our website to learn more about us and welcome & feel privileged to be a part of the Institute of Shreeyash Pratishtan Aurangabad.

**Col. Joy Daniel (Retd.)**  
**Chief Executive Officer**  
**Shreeyash Pratishtan.**

## Principal's Message



Dear Parents and Students, You are welcome to Shreeyash Polytechnic, Aurangabad. The institute offers Three Years Diploma Programs in 6 disciplines (Computer Engg, Artificial Intelligence and machine learning, Civil Engg, Electrical Engg, Mechanical Engg, Electronics & Telecommunication.)

The Shreeyash Polytechnic College exemplifies the hard work and dedication of staff and students. It provides the Engineering community with an opportunity to welcome the world of Technology to our Institutes Student and to celebrate and share in our successes. Life is not a set of instructions but is a series of experiences and learning processes. Engineering is no exception. This is where Shreeyash Polytechnic steps in to make a difference and where learning is not just a device of instruction but a passion, which goes beyond books, beyond instructions, beyond horizons.

There is a great opportunity for one to prove one's self and serve the community for the betterment of human beings. Best of Luck for Your Bright Future!!!

**Mr. S.S. Khandagale**  
**Principal Shreeyash Polytechnic.**

## ACTIVITY REPORT

**Department :- College Level**

**Name of the event: 78<sup>th</sup> Independence Day**

**Date of the event: 26/01/2026**

**Class: All**

**Name of the Industry/Company: AMPHI-  
THEATER, SHREEYASH COLLEGE OF  
ENGINEERING & TECHNOLOGY**

### PHOTOGRAPH OF THE EVENT:



The 78th Independence Day was celebrated at Shreeyash Pratishthan wherein various colleges of the institution including Shreeyash Polytechnic College participated. The Chief Guest of the program was the Chairman of the Institute, Engg. Mr. Baswaraj Mangrule, other guests were Mrs. Mangrule, Mr. Advait Mangrule, Ms. Aishwarya Mangrule, Admin Manager Tayade sir, Principal of the Polytechnic College Mr. S. S. Khandagale and other principals.

The event commenced with the flag flaring ceremony and salutation to the photo of Gandhiji. The program was organized by the Pharmacy College and comparison was done by Prof. Rashmi Tambare.

Mime act was presented by the students of SY & TY Electrical and Mechanical of Polytechnic reflecting the life of an Army Officer. The sacrifices he and his family made for the country. Next in line were the singing performances presented by the students of Polytechnic, Pharmacy and Engineering. There were also solo as well as group dance performances.

A Street play was presented creating awareness about the duties and responsibilities of an Indian. It made everyone understand how to still serve the nation without being in the army, military or navy. The performance was vibrant and created enthusiasm in all. The institution also published its first E-magazine on this event. And later the inauguration of the Bird Sanctuary was done by the hands of Mrs Mangrule.

#### **Outcome:**

Students along with the staff celebrated Independence Day thus remembering our great leaders who sacrificed their lives or the love of our country.

Number of Students present for the event: 600  
Numbers of students present in the event: 60

## Cultural Event

The Cultural Committee strives to celebrate the cultural diversity in the college by organizing various competitions, events, activities, programs, in each and every year. The Committee provides various opportunities for the students to relax and to enhance their skills and talents. These are organized by the Coordinator of the Cultural Committee in the college to address the inhibitions and stage fear of the students and these encourage them to open up.

The cultural activities play a large role in building the mindset and attitude of the students. While performing specific art forms from other states and regions the students learn to respect the large cultural diversity that India has and the programmes showcase the harmonious relations amongst students.



## Electronics Department

**Name of the event:** Industrial Visit

**Date of Industrial Visit:** 20/09/2025

**Class:** SYEJ / TYEJ

**Name of the Industry/Company:** Deogiri Electronics Cluster Pvt. Ltd., Shendra, MIDC, Chh. Sambhajinagar.



**Name of the event:** "Drone Design Workshop"

**Date of the Workshop:** 17/03/2026 & 18/03/2026

**Class:** TYEJ

**Name of the Contact Person with Contact No:** Mr. Bablu Jadhav (7387818911)



**Name of the event: Expert Lecture/ Guest Lecture**

**Date of the event: 20/09/2025**

**Venue of the event:**

**SHREEYASH COLLEGE OF ENGINEERING & TECHNOLOGY**

**(POLYTECHNIC) AURANGABAD**

**Class: SYEJ & TYEJ**

**Mr. Pankaj Dhas**

**Senior Associate,**

**Cognizant Technologies, Pune**



1. The lecture aimed to provide insights into the cutting-edge technologies driving the Fourth Industrial Revolution and their impact on various industries.
2. Definition of Industry 4.0: The presenter commenced the lecture by defining Industry 4.0 as the ongoing automation of traditional manufacturing and industrial practices, using modern smart technology. It encompasses cyber-physical systems, the Internet of Things (IoT), cloud computing, and cognitive computing.

### **Outcomes :**

**During this guest lecture by Mr. Pankaj Dhas has delivered a speech regarding cutting edge technology in industry**

**4.0. Students also acquired the knowledge regarding Substation**

**& testing in Substation.**



**Department: Electronics and Telecommunication Engineering**

**Name of the event:** Industrial Visit

**Date of Industrial Visit:** 17/01/2026

**Class:** SYEJ / TYEJ

**Name of the Industry/Company:** Khushi Wiring System, Chakan, MIDC, Pune.

**Summary of the event:**

An industrial visit was organized with the objective of gaining practical exposure to industrial manufacturing processes and workplace practices related to wiring systems. The visit provided an opportunity to bridge the gap between theoretical knowledge and real-time industrial applications.



**Department: Electronics & Telecommunication Engineering**

**Name of the event: Workshop on PCB Designing**

**Date of the Workshop: 16/01/2026 & 17/01/2026**

**Class: FYEJ & SYEJ**

**Name of the Contact Person with Contact No: Mr. Bablu Jadhav (7387818911)**



## Department Mechanical Engineering

1. Name of the Event: Techspark project concept presentation

2. Date of Event: 14/03/2026

3. Class (FY/SY/TY/All): All

4. Venue / Industry / Company Name:

### Summary of the event:

Tech Spark is an innovative platform that encourages students to present creative and practical project ideas addressing real-world problems.

The concept presentation focuses on originality, technical feasibility, and potential societal or industrial impact.

It helps students enhance skills like problem-solving, communication, and design thinking.

Overall, TechSpark promotes innovation, teamwork, and the transformation of ideas into implementable solutions.

**Outcome / Learning:** It helps students enhance skills like problem-solving, communication, and design thinking.



## Civil Department

1. Department Name : Civil
2. Name of the Event : Industrial Visit
3. Date of Event : 31/07/2025
4. Class: SY
5. Venue / Industry / Company Name :  
A S Buildcon RMC Plant
9. Number of Students participated :  
54
10. Number of Faculties involved : 03



Name of the event: Expert Lecture

Date of the visit: 05/02/2026

Class:TYAN

Name of the Expert Lecture : Expert Lecture on Leadership Skills and Team Building Activity

Name of the Contact Person with Contact No: Yogesh Patil (7666127027)

**Summary of the event:**

The Department of Artificial Intelligence and Machine Learning Engineering organized an Expert Lecture on “Leadership Skills and Team Building Activity” on 05th February 2026 for the students of TYAN. The session was conducted by Mr. Yogesh Patil with the objective of enhancing students’ leadership qualities and strengthening their teamwork abilities.



**Name of the event: Expert Lecture**

**Date of the visit: 03/10/2025**

**Class:TYAN**

**Name of the Expert Lecture : Cloud Computing and DevOps**

**Name of the Contact Person with Contact No: Mr.**

Mohammad Shoaib Ul Haque, Research and Development Engineer, VMware, Bangalore (8197015437)

**Organized By:**

Department of AI & ML

SYCET Polytechnic, Chh. Sambhajinagar, Maharashtra

### **Discussion Overview**

**03/10/2025**

The session commenced with a warm welcome of the guest speaker, Mr. Mohammad Shoaib Ul Haque, followed by a brief introduction highlighting his role as a Research and Development Engineer at VMware, Bangalore, and his expertise in cloud technologies and DevOps practices.

Mr. Haque began the session with a comprehensive introduction to Cloud Computing. He explained the evolution of traditional computing to cloud-based infrastructure, emphasizing the need for on-demand resource availability and cost efficiency. He elaborated on:



**Department: Artificial Intelligence and Machine Learning**

**Engineering**

**Department:** Artificial Intelligence and Machine Learning Engineering

**Name of the event:** Student Educational Visit

**Date of the visit:** 07/03/2026

**Class:** TYAN

**Name of the Visit:** Student Visit to DIPEX Exhibition

**Place of Visit:** Ground of MIT Aurangabad, Chhatrapati Sambhajnagar

**Event:** DIPEX

**Name of the Contact Person with Contact No:**

DIPEX Exhibition Coordinator (Contact No: 0240-2375109)



**Name of the event:** Educational Visit  
MASSIA'A Advantage Maharashtra Expo  
2026, Chh. Sambhajinagar.

**Date of the visit:** 10 January 2026

**Class:** SY & TY

### **Student Visit Report**

**Advantage Maharashtra Expo 2026**

**Name of Institute:** Shreeyash College of  
Engineering and Technology, Polytechnic, Chh.  
Sambhajinagar, Maharashtra

**Department:** Computer Engineering and  
Technology (SYCET)

**Number of Students:** 150

**Accompanying Faculty:** 10

**Venue:** MASSIA'A Advantage Maharashtra  
Expo 2026, Chh. Sambhajinagar.

**Date of Visit:** 10/01/2026

### **Objective of the Visit**

The main objective of the visit was to provide students with practical exposure to recent industrial developments, new technologies, startup innovations, and government initiatives presented at Advantage Maharashtra Expo 2026. The visit aimed to bridge the gap between academic knowledge and real-world industrial applications.

### **About the Expo**

Advantage Maharashtra Expo 2026 is a large industrial and technology exhibition showcasing innovations from various sectors such as Information Technology, Manufacturing, Automation, Robotics, Artificial Intelligence, Startups, and Government projects.



Photograph of Event :



## Report on Guest

### Lecture on

### “Interview Technique”

Organized by: Training and Placement  
Cell

Date: 27 February 2026

Target Audience: Final Year Diploma  
Students

Total Students Attended: 250+

Guest Speaker: Mr. Vaibhav Guttee

Organization: Vedika Foundation Pvt.  
Ltd.

Experience: More than 10 Years

Contact No.: 8624016556



## Activity Report

**Department: Artificial Intelligence and Machine Learning Engineering**

**Name of the event: Expert Lecture**

**Date of the visit: 10/03/2026**

**Class:TYAN**

**Name of the Expert Lecture : Importance of Python**

**Name of the Contact Person with Contact No: Dnyaneshwar Thombre**

**(9975515150) Giri Tech Hub**

**Organized By:**

Department of Computer / AI & ML

SYCET Polytechnic, Chh. Sambhajinagar, Maharashtra

**Date and Time:**

10/03/2026

Time: (1:30 PM – 3:25 PM)

### Summary of the Lecture

During the lecture, Mr. Thombre explained the importance of Python as one of the most widely used programming languages in the world.

He highlighted the following key points:

- Introduction to Python programming language
- Features of Python such as simplicity, readability, and flexibility
- Applications of Python in **Artificial Intelligence, Machine Learning, Data Science, and Web Development**
- Importance of Python in the software industry



## Industrial Visit Report

**Institution:** SYCET (Polytechnic), Department of Artificial Intelligence and Machine Learning, Chh. Sambhajinagar

**Visit Date:** 03/01/2026

**Place Visited:** Pimpri Chinchwad Science Park

**Visiting Students:** 46 students with 03 faculty members (SY AIML)

### **Purpose:**

To provide practical exposure to scientific principles, automation systems, robotics technologies, and interactive STEM exhibits that help Artificial Intelligence and Machine Learning students understand real-world applications of sensors, intelligent systems, and modern technological innovations.

## 2. About Pimpri-Chinchwad Science Park

Pimpri-Chinchwad Science Park (PCSP) is an interactive science and technology learning centre developed jointly by the Pimpri-Chinchwad Municipal Corporation (PCMC) and the National Council of Science Museums (NCSM). It was inaugurated in February 2013 and spans approximately 7 acres.

The main objective of the science park is to promote scientific curiosity, innovation, and hands-on learning among students. The park contains various galleries, science demonstrations, robotics activities, and interactive models that help students understand scientific and technological concepts through real-life experiences.

## 3. Exhibits & Facilities Observed

### A. Automobile Gallery

### B. Energy Gallery



### 1. Industrial Visits Summary

#### AY 2025–26

- **Tech Surya IT Solution, Chh. Sambhajinagar (3 Jan 2026)**  
Students explored real-time software development processes and industry practices.  
 110 students benefited
- **ISRO NRSC Outreach Facility (7 Jan 2026)**  
Gained insights into satellite technology and remote sensing applications.  
 69 students benefited



#### AY 2024–25

- **CIEPT, Chikhalthana (7 Feb 2024)**  
Focus on industrial training and skill development programs.  
 88 students
- **Sumago Infotech Pvt. Ltd., Nashik (8 Oct 2024)**  
Understanding of SDLC and IT services.  
 51 students
- **Nashik Engineering Cluster (8 Oct 2024)**  
Exposure to quality testing and R&D facilities.  
 51 students
- **Web Sums Software Pvt. Ltd. (11 Feb 2025)**  
Learning software product development and project execution.  
 59 students
- **GMRT, Pune (28 Mar 2025)**  
Study of radio signal analysis from space.  
 65 students



Photograph of Event :



Women's Day Program



Cultural Activity



Yoga Day Celebration



Anand Nazari



Fresher's Party

Photograph of Event :



Swatch Bharat Mission



Fire safety Demo



NCC Camp



School Connect Program



Blood Donation Camp At Shreeyash Pratishthan, Chh. Sambhaji Nagar

Photograph of Event :



Personality Development And Carrier Guidance Session



Participation In Udyojakta Vikas Melava At Devgiri Institute, Chh. Sambhajinagar



Job Fair At Shreeyash Pratishtan, Chh.SambhajiNagar

# Electrical Department

## Continuous Assessment in Laboratory

The Computer Department follows the guidelines of the MSBTE for continuous assessment in laboratory sessions.



## Soft Skills & Career Development Activities (AY 2025–26)

To enhance students' employability and professional readiness, the department organized various expert lectures and training sessions focused on soft skills, communication, and career development.

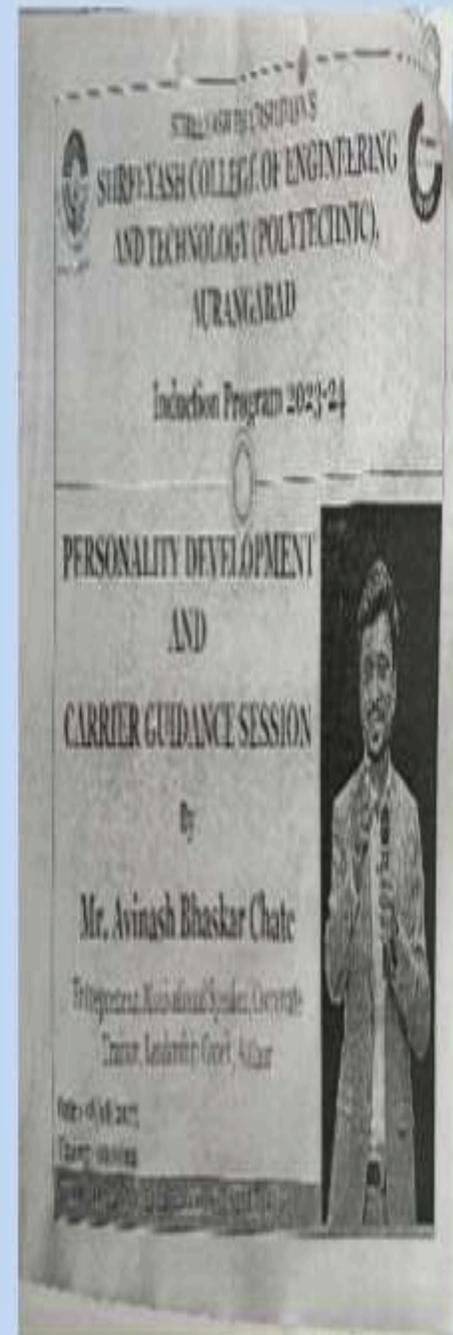
Sessions on **Interview Techniques** and **Mock Interviews with Resume Building** helped students understand the recruitment process, improve confidence, and prepare effective resumes. These sessions were conducted by experienced professionals like Mr. Vaibhav Gutte (Founder, Vedika Education Pvt. Ltd.) and Mr. S.S. Sathe (TPO, SYCET).

A session on **Leadership Skills & Team Building** guided students in developing teamwork, decision-making, and leadership qualities essential for workplace success. Additionally, training on **English Communication & Interview Skills** strengthened students' communication abilities and overall personality development.

### Outcome

These activities helped students:

- Improve communication and interview skills
- Build professional resumes
- Develop leadership and teamwork qualities
- Enhance confidence for placements



## EDSA Sports Activity Report

EDSA organized sports activities in February 2026 to promote teamwork and fitness among students.

Volleyball (05/02/2026): 3 participants

Football (05/02/2026): 12 participants

Cricket (16/02/2026): 3 participants

Kabaddi (05/02/2026): 2 participants

Conclusion:

Students actively participated in all events, with Cricket having the highest participation. The activities helped in developing team spirit and physical fitness.



## NAME OF THE EVENT: " FIRE EXTINGUISHER PRACTICAL"

Date of the event: 2025-2026

Class: All Classes of Polytechnic

No. of participants: 645

Time- 11:30 am

Discussion Topic:

Briefing by trainer

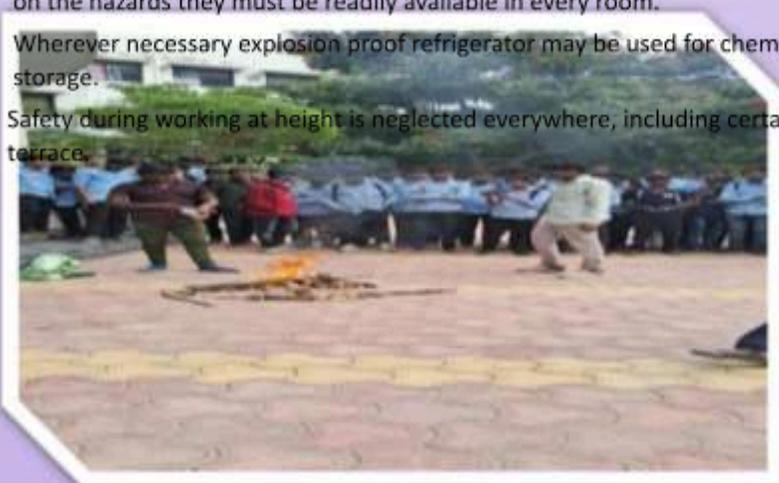
### Fire Training Report

- What is Fire, Classes of Fire, Causes of Fire, Fire Hazards, How to prevent fire from First place
- What to do if fire catches a person and what to do in dense smoke?
- Use & Function of Smoke Detector.
- How to extinguish the Fire and how to evacuate.
- Type of Fire extinguisher, How to use Fire extinguisher
- Location of Fire Alarm, when and how to use Fire Alarm.
- Use of Fire hose reel/pipe.
- Use of Gas mask, Bitter, Blanket, Gum boot, Hook, Stretcher, Manila rope, Lock cutter and other equipment.
- Duty & Responsibility of Cordon team, Rescue team & First aid team.

### Areas of Improvement:

- Reduction in fire load is required to be done by removing non – required item
- Japanese method of housekeeping i.e. 5-S should be used for housekeeping
- Newer equipment such as vacuum cleaner may be used for cleaning
- Dangling wires, unclean panel room, open main switches, access behind main panel, no rubber mats, clutter of wiring etc are the electrical problem. All problems needs improvement
- Maintenance of earthing, checking its resistance is neglected, See that it is done.
- N no. of combustible fire hazards are lying in every area of college, regular removal is a must.
- Maintenance of fire fighting arrangement should be done regularly. Depending on the hazards they must be readily available in every room.
- Wherever necessary explosion proof refrigerator may be used for chemical storage.
- Safety during working at height is neglected everywhere, including certain area of terrace.

## PICTURE OF FIRE TRAINING:



## SCHOOL CONNECT PROJECT

### Introduction

In case a student wishes to take admission 'Polytechnic' a er 10 standard, he or she generally wants the information about:

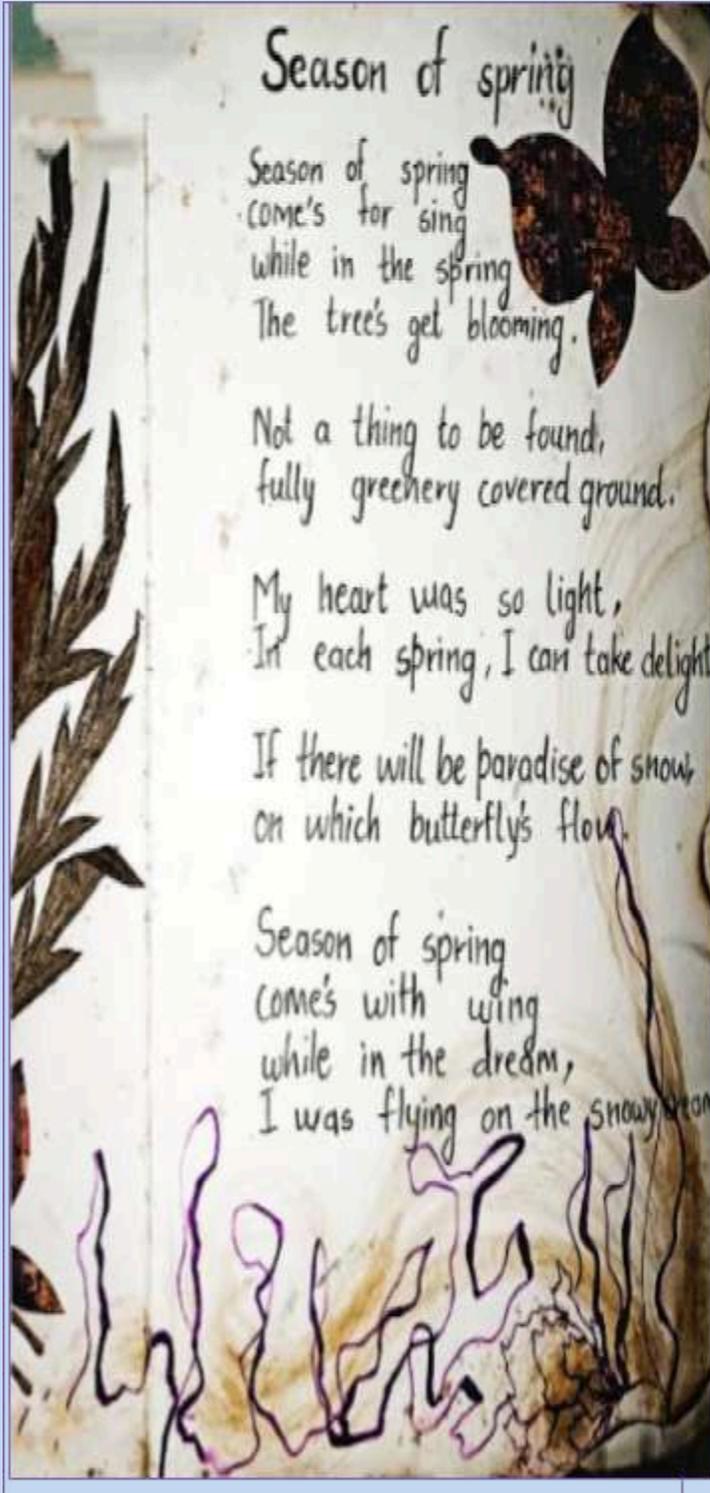
- Which are the different programs or branches available under Polytechnic? Which are the best courses in it?
- What is the admission process of Polytechnic? How to apply for online admission process and when it starts?
- What are the opportunities in higher education after diploma?
- What is the nature of placements or jobs or entrepreneurship avenues available after completing diploma?

The program involves a face-to-face interactive session with students of class Xth. The main purpose of this initiative was not only to provide answers to the questions mentioned above but also to spread the awareness about importance of diploma in technical education among the students studying in class Xth at various schools in Maharashtra. Various activities generally conducted under School Connect include Students and Parents Counseling, Information Dissemination, Screening of Informative Films, Motivational Lectures, Industry Representative / Government Officials guidance during the program and so on.



## STUDENTS THOUGHTS OR PAINTINGS AND TECHNICAL WRITEUPS

Shreyash Engineering & Polytechnic Students Represent The Poem For "Alchemy Of Words" And Mandala Drawing ,Ghazal And Poster Presentation.



### What is a mandala?

In the ancient Sanskrit language of Hinduism and Buddhism, mandala means "circle." Traditionally, a mandala is a geometric design or pattern that represents the cosmos or deities in various heavenly worlds. "It's all about finding peace in the symmetry of the design and of the universe," says artist Saudamini Madra.

### The Digital Drawing Advantage

You don't have to draw in sand or gel pen to create a beautiful mandala. Bonafini loves drawing on her tablet. "I can create and if I don't like it, I can erase. I can do the same pattern multiple times. With paper, if I imagine something and then it doesn't work, I lose the whole thing." Plus, a tablet allows you to bring all of your art supplies with you wherever you go. You can add to your mandala whenever the mood .

**\*\*राजस\*\***

**\*\*जरबखश साहिर करीम\*\*  
\*\*एआईएमएल प्रथम वर्ष\*\***

रोज़ वफा का दीप जलाना पड़ता है,  
दुश्मन को भी गले लगाया पड़ता है।

हदस की बात लबों पर लानी पड़ती है,  
प्यार हक्या तो प्यार जलाना पड़ता है।

कड़वी बातें तो िली ि रिली है,  
लेहकन कुछ भीठा भी खाना पड़ता है।

ररस्ते नाते अक्सर रुठ भी जाते है,  
आगे बढ़कर िसे मनाना पड़ता है।

जैसे भी िं अपने, अपने िते है,  
जो कुछ भी ि प्यार लुटाना पड़ता है।

कूठ बातों से हदल खट्टा ि जाता है,  
कुछ बातों को भूल भी जाना पड़ता है।

प्यार बढ़े तो सब दरवाजे खुलते है,  
हर एक हदल तक आना जाना पड़ता है।

हजन जुलफों से धूप में हमलता है  
साया, उन जुलफों में फूल सजाना पड़ता है।

इस बस्ती में तेज़ िवारें चलती है,  
और हदया भी यी ां जलाना पड़ता है।

जाने कैसा खेल रचाया जीवन में,  
हर पॉसे पर सोंप का खाना पड़ता है।

शपया पैसा काम िीं आता 'जरबखश',  
सब दुइनया में छोड़ के जाना पड़ता है।

**Name-Khan Zarbakhsh Sahir Khan  
Class:- 1<sup>st</sup> Year -AIML Department**

SHREYASH COLLEGE OF ENGINEERING AND TECHNOLOGY POLYTECHNIC  
DIGITAL INDIA  
Chat generative pre-trained transformer open AI platform

**Introduction**  
Artificial Intelligence (AI) is a branch of computer science that aims to create machines capable of performing tasks that normally require human intelligence. This includes learning, reasoning, problem-solving, perception, and language understanding.

**Applications**  
AI has a wide range of applications, including:  
1. Natural Language Processing (NLP): Enabling machines to understand and generate human language.  
2. Computer Vision: Enabling machines to interpret visual information from the world.  
3. Robotics: Enabling machines to perform physical tasks in the real world.  
4. Recommendation Systems: Suggesting products or services based on user preferences.  
5. Healthcare: Assisting in diagnosis, treatment, and drug discovery.

**Advantages**  
1. Efficiency: AI can process large amounts of data much faster than humans.  
2. Accuracy: AI can perform tasks with high precision and consistency.  
3. Scalability: AI systems can be scaled up to handle large volumes of data and tasks.  
4. Automation: AI can automate repetitive and mundane tasks, freeing up human resources for more complex work.

**Disadvantages**  
1. Job Displacement: AI automation may lead to the loss of certain jobs.  
2. Bias and Discrimination: AI systems can inherit biases from the data they are trained on, leading to unfair outcomes.  
3. Privacy Concerns: AI often requires access to large amounts of personal data, raising privacy issues.  
4. Security Risks: AI-powered systems can be vulnerable to cyberattacks and data breaches.

**Ethical Challenges**  
1. Accountability: Determining who is responsible for the actions of an AI system.  
2. Transparency: Understanding how AI systems make decisions and recommendations.  
3. Explainability: Providing clear and understandable explanations for AI outputs.

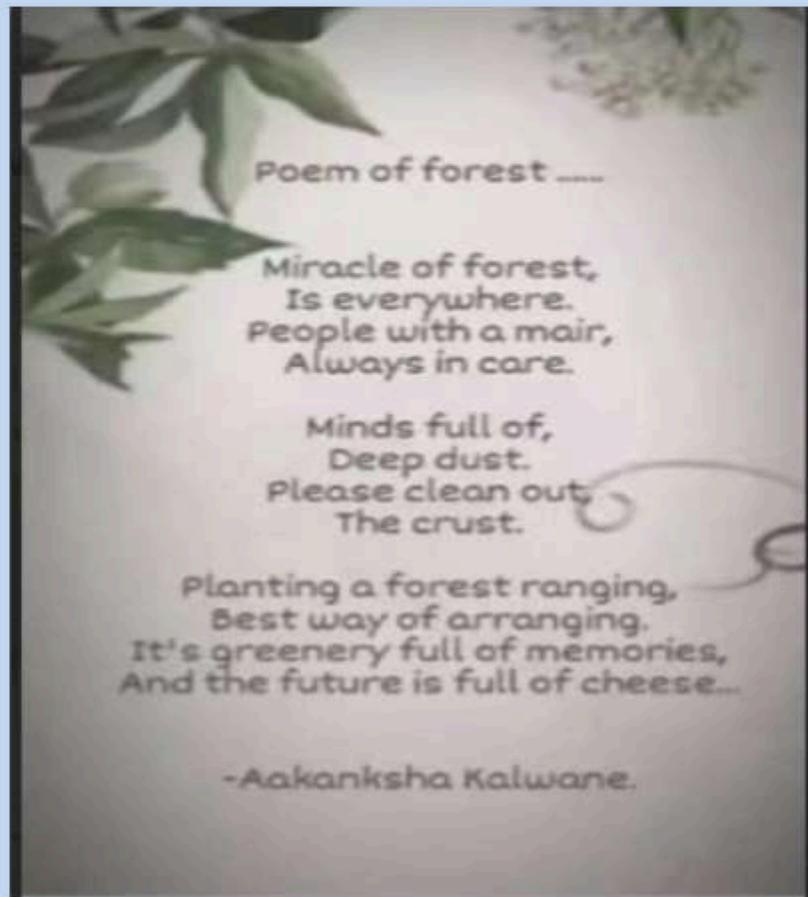
**Future of AI**  
The future of AI is bright, with ongoing research and development in areas like deep learning, reinforcement learning, and quantum computing. AI is expected to continue to revolutionize various industries and improve human lives.

**Key Takeaways**  
AI is a powerful tool that can enhance human capabilities and solve complex problems. However, it also poses challenges and ethical considerations that need to be addressed. Responsible AI development and deployment are crucial for maximizing its benefits and minimizing its risks.

**References**  
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**ARTIFICIAL INTELLIGENCE AND MECHINN LEARNING**

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