



GOVERNMENT COLLEGE OF ENGINEERING, AMRAVATI-444604

(AN AUTONOMOUS INSTITUTE OF GOVERNMENT OF MAHARASHTRA)

NEWSLETTER The Garden Journal

January to April 2025

VISION

"Towards Global Technological Excellence"

INSTITUTE CORE VALUES

- Excellent Students.
- Globally Competitive Academic Environment.
- Integrity and Commitment of Staff and Faculty.
- Active Industry Institute Interaction.
- Consistent Training and Placements.
- Graduates with High Employability Ph.D. Centre with QIP.
- R & D Activities with Patent.
- Testing and Consultancy Centre.
- Technology Transfer to Society.
- Standard Report, Dissertation and Thesis Writing.

MISSION

Creating Human Resources of
Global Competence.
Providing An Excellent
Academic & Research
Environment Striving For
Development through
Technology Transfer
Inculcating The Attitude Of
Entrepreneurship

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Department of Civil Engineering

Blueprint Quest



1st February 2025

The Civil Engineering Students' Association (CESA) successfully organized Blueprint Quest on 1st February 2025, an event meticulously designed to assess participants' technical expertise, problem-solving skills, and teamwork capabilities. A total of 12 teams, comprising students from the first to the final year, actively participated in the competition. The event was structured into two distinct and intellectually stimulating rounds, each designed to challenge the participants in different aspects of their knowledge and reasoning abilities.

The first round, the Technical Quiz Round, focused on fundamental and advanced civil engineering concepts. Participants were tested on subjects such as structural analysis, concrete technology, surveying, geotechnical engineering, and construction materials. The round aimed to evaluate their grasp of core civil engineering principles, analytical thinking, and problem-solving skills. This was followed by the Non-Technical Quiz Round, which included general knowledge, logical reasoning, and problem-solving challenges.

Following a highly competitive contest, five teams demonstrated exceptional skills and knowledge, earning their place in the subsequent stage the much-anticipated Treasure Hunt Event. This thrilling round was designed to test not only technical understanding but also teamwork, coordination, and decision-making skills. The five finalist teams navigated through a series of clues and challenges, applying their engineering knowledge and critical thinking abilities to advance through each stage. Among the five finalist teams, the most outstanding performers emerged as winners.

The First-Year Civil Girls' Team secured the prestigious first prize while the First-Year Civil Boys' Team claimed the second prize. The winners were felicitated by Dr. A. I. Dhattrak, the esteemed CESA Faculty Incharge, who praised their dedication, perseverance, and outstanding performance throughout the event.



Retirement Felicitation Ceremony



20th March 2025

The Civil Engineering Students Association (CESA) of the Government College of Engineering, Amravati, organized a grand Retirement Felicitation Ceremony on 20th March 2025 to honor the invaluable contributions of esteemed professors from the Civil Engineering Department.

The event commenced at 2:45 PM in the Civil A.V Hall, which was beautifully decorated for the occasion. The ceremony witnessed the presence of faculty members, students, alumni, and staff, all gathered to express their gratitude and admiration for the retiring professors:-

- Dr. M.L. Gulhane
- Dr. P.S. Lande
- Prof. A.M. Mokadam
- Dr. S.W. Thakare
- Dr. M.N. Hedao

The ceremony began with a warm welcome address by the President of CESA, who highlighted the immense impact these professors had on students' academic and professional growth. Following this, various faculty members and students took the stage to share their experiences and cherished memories.

They spoke about the guidance, mentorship, and inspiration they received from the retiring professors, emphasizing their dedication and unwavering commitment to education. Each professor was honored with a beautifully crafted memento as a token of appreciation. Their work in research, academic development, and student mentorship was duly recognized and applauded by all present. One of the most emotional moments of the ceremony was when the retiring professors took the stage to share their thoughts and experiences. The event also included a musical tribute performed by students, adding an emotional and celebratory touch to the occasion. The ceremony concluded with a vote of thanks delivered by the CESA Secretary.

Department of Mechanical Engineering

INDUSTRIAL VISIT REPORT

Venue: Uddhav Pulses Cold Storage, MIDC, Amravati
Date:21 March 2025
Time: 03:00 pm



The Department of Mechanical Engineering at Government college of engineering, Amravati organized an industrial visit for second-year students to Uddhav Pulses Cold Storage, located in the MIDC area of Amravati. The aim of the visit was to expose students to real-time industrial practices in cold storage technology and mechanical systems used in food preservation and storage. Uddhav Pulses Cold Storage is a division of the Malani Group and is known for providing innovative storage and distribution services. The facility is dedicated to keeping commodities fresh on a large scale, with a focus on value-based customer service and operational excellence.

The total cold storage capacity is of 5000 tones, having loading and unloading area 15000 Sq. Ft and Dry Insulated storage area of approximately 10000 Sq. Ft. During the visit student observed several key mechanical and thermal system works. Refrigeration system, thermal insulation, material handling equipment, energy backup, environmental controls. Real world application of refrigeration and heat transfer. Thermal insulation techniques in industrial setups. Mechanical system and material handling operations. Energy management and backup systems in cold storage units. This visit to Uddhav Pulses Cold storage was highly educational and beneficia for the students.it provided them with a comprehensive view of how mechanical engineering principles are applied in the food storage industry. The exposure to refrigeration system, insulation method and energy management has greatly enriched their practical understanding.

Department of Electrical Engineering

THREE DAY WORKSHOP ON HANDS-ON BASICS OF ELECTRICAL ENGINEERING

13-15 FEBRUARY 2025



The Electrical Engineering Department has successfully organized a three-day workshop on Hands-on Basics of Electrical Engineering. The workshop was conducted from 13th February to 15th February 2025. The workshop was organized in association with the Atul Consultancy Services, Amravati. The target audience was 2rd-year Electrical Engineering, Instrumentation Engineering and Electronics & Telcom. Engineering students. The objective of this workshop was to provide basic knowledge of electrical wiring, their types, Electrical Fixtures and their working and installations, Basic knowledge of Home appliances, their trouble shooting, safety precautions, standard working procedure, wire gauge etc.

The workshop was inaugurated by the hands of Dr. V. M. Jape, the Head of the Electrical Engineering Department. For inauguration chief guest was, the director of Atul Consultancy Services, Amravati. The other guest was Er. Priti Morey, Director of Urja Swaraj company, Amravati. The department faculty members were present for the inauguration. The coordinator, Dr. G. A. Dhokane welcomed the guests and briefed the objectives of the workshop. Dr. V. M. Jape appealed the students to attend the workshop sincerely. Ms. Hiteshwari Dhawale conducted the proceedings of the inaugural function. The expert faculty for this workshop was Er. Priti M. Morey

The day wise contents were as follows:

Day1

Theory

- Introduction of wiring, Phase, Neutral and earthing and color code
- Connection of switch and holders
- Types of holders, switches, plugs and their standard connections

Practical

- Preparation of extension board, proper connection of plug and switches
- To control six lights from separate six switches
- Control of many lights with one switch

Day2

Theory

- Identification of phase, neutral and Earthing
- Identification of faults such as neutral cut or Earthing cut or absence of phase
- Types of isolators, MCB their ratings and connections

Practical

- Live connections of Phase neutral and Earthing
- One light control from two switches
- Types of wires, insulator, conductor, measuring of gauge
- Wiring of isolator and MCB, double pole, three pole and four pole connections

Day3

Theory

- Conduit wiring, casing capping wiring
- Junction box connection, connection of ceiling rose
- Connection of single phase and three phase energy meters
- Single line diagram of one BHK apartment
- Wiring of Home appliances.

Practical

- Doing complete wiring, with fixtures of one BHK apartment with casing capping and conduit wiring
- Repairing of Cooler
- Repairing of electric Iron, mixer, ceiling fan etc.

The workshop ended with the brief valedictory function. The students narrated their experiences. Total 62 students of second year Electrical Engineering, Instrumentation Engineering, and Electronics & Telecom benefited from this workshop.

THREE DAY WORKSHOP ON HANDS-ON TRAINING ON SOLAR PV SYSTEM



The Electrical Engineering Department has successfully organized a three-day workshop on Hands-on Training on Solar PV System. The workshop was conducted from 13th February to 15th February 2025. The workshop was organised in association with the Maha Urjate Pvt. Ltd. Amravati. The target audience was 3rd-year Electrical Engineering students. The objective of this workshop was to provide practical exposure to photovoltaic (PV) solar energy systems, enhance technical skills and bridge the gap between theoretical knowledge and real-world applications. The workshop was inaugurated by the hands of Dr. V. M. Jape, the Head of the Electrical Engineering Department. For inauguration chief guest was Er. Priti more, Director of Urja Swaraj company Amravati. The other guest was Er. Atul Dighade , the director of Atul Consultancy Services, Amravati. The department faculty members were present for the inauguration. The coordinator, Dr. G. A. Dhokane welcomed the guests and briefed the objectives of the workshop. Dr. V. M. Jape appealed the students to attend the workshop sincerely. Ms. Hiteshwari Dhawale conducted the proceedings of the inaugural function. The expert faculty for this workshop was Er. Priti M. Morey.

The day wise contents were as follows:

Day1

- 1. Understanding the Solar Energy: Introduction to Solar PV Technology fundamental concepts of solar energy and PV systems, its significance, Types of renewable sources, and its growing role in sustainable energy solutions.
- 2. Solar PV system Functioning: A detailed presentation was given on the working of solar PV system

Day2

- 1. Types of Solar panels: The detail information about different types of Solar panels was given. The comparison, their efficiency and suitability of using a particular panel for a particular location was also highlighted.
- 2. System Components: The trainer provided an overview of the essential PV system components, including solar panels attachment, inverters, batteries, charge controllers and mounting structures.
- 3. Site Visit: A visit was arranged to understand the actual construction, integration of different components and erection of the Solar System.

Day3

- 1. Discussion: Discussion on installation techniques and maintenance practices to ensure the longevity and efficiency of PV systems was carried out.
- 2. Hands-on Under the Sun: To enforce the theoretical knowledge, the trainer conducted a practical demonstration on the college ground. Actual set of PV system was installed. Participants learnt the assembly of components, wiring connections, role of each component and their integration. Actual electrical energy generation was demonstrated by running fan load and light load on the solar system. Under the supervision of the expert, the students were given the opportunity to handle the various equipment. Total 60 students of third year Electrical Engineering benefited from this workshop.

“QUALITY CONNECT” Campaign by the Bureau of Indian Standards (BIS)

Introduction

The Bureau of Indian Standards (BIS), India’s National Standards Body, has initiated the ‘Quality Connect’ campaign to enhance awareness about quality standards and the significance of standardization across various sectors. This campaign focuses on educating diverse stakeholders, including students, consumers, and government officials, about BIS’s role in ensuring product quality and safety.

This Quality Connect Campaign was started in Amravati District by BIS in coordination with BIS standard Club, Government College of Engineering Amravati. This Campaign



was completed between 21st to 26th March 2025. Total Eight student Manak Mitra (Volunteers) visited total 80 Government officials in Amravati. They successfully completed the survey and objectives of the campaign.

Objectives

- Promote Standardization Awareness: Educate the public on the importance of adhering to Indian Standards for product quality and safety.
- Engage Youth Participation: Involve students and young professionals in disseminating information about BIS activities and quality standards.
- Empower Consumers: Encourage consumers to verify product authenticity using tools like the BIS Care App.

Key Initiatives and Activities

- 1. Youth-to-Youth Connect Campaign
- 2. World Standards Day Celebrations
- 3. Foundation Day Activities
- 4. Orientation Programs on Quality Consciousness
- 5. Sensitization of Gram Panchayats

Outcomes and Impact

Enhanced Awareness: The campaign has significantly increased awareness about quality standards among students, consumers, and government officials.

Youth Engagement: Thousands of students have actively participated as ‘Manak Mitras,’ spreading the message of quality consciousness within their communities.

UHV Faculty Development Program



Government College of Engineering, Amravati, in collaboration with AICTE, organized a three-day Faculty Development Program on “Universal Human Values – Introductory” from 16th to 18th January 2025. The event was coordinated by the Department of Electrical Engineering with Dr. M. V. Jape as the Coordinator and Dr. G. A. Dhomane as Co-coordinator.

The FDP was graced by eminent resource persons Dr. Dilshad Hussain and Dr. Yashwant Patil from AICTE, co-facilitators Dr. Pallavi Mandavgade and Dr. Sandeep Tatewar, and observer Mr. Vijay Deshmukh. The inaugural began with Deep Prajwalan, presided over by Dr. A. M. Mahalle, Principal, who emphasized the role of value-based education in addressing life's challenges.

Sessions across the three days focused on core concepts such as Natural Acceptance, Right Understanding, Harmony in the Self, and Human Relationships. Key themes included trust, respect, gratitude, love, happiness, and prosperity, using real-life examples and interactive discussions. Concepts like the difference between response and reaction, self and body, and the significance of human order and coexistence were thoroughly explored.

Each day concluded with group discussions and feedback sessions. Documentaries like The Story of Stuff and An Inconvenient Truth were screened, which were well received. A final assessment was conducted to evaluate understanding.

Participants gained clarity on UHV concepts, increased confidence in teaching the content, and committed to practicing and spreading value-based living. The FDP concluded with a valedictory session, where participants expressed gratitude for the well-organized and impactful program.

INDUSTRIAL VISIT REPORT TO IDEAL TRANSFORMER COMPANY AMRAVATI.



The industrial visit to Ideal Transformer Company, Nandgaon Peth was organized by Bureau of Indian Standards and BIS Standard Club, Electrical Engineering Dept, Government College of Engineering Amravati on 7th March 2025. The primary objective of this visit was to provide students with practical exposure to industrial operations, manufacturing processes, and corporate work culture. A group of 60 students along with faculty members participated in the visit.

Industry Overview:

Bureau of Indian standard organized this visit to Ideal Transformer Company is a leading organization in the field of Transformer manufacturing.

Industry Overview:

Bureau of Indian standard organised this visit to Ideal Transformer Company is a leading organization in the field of Transformer manufacturing. The company specializes in manufacturing of Step-Down Transformer, contributing significantly to the industry through innovation and quality production.

Visit Details:

The visit commenced at 12.00 PM with a briefing session conducted by Shri. Hanmate, Director of the Company. The students were given safety instructions and an overview of the company's operations. The visit included the following sections:

- Production Unit: Observation of machinery, preparation of raw materials.
- Quality Control Department: Insight into product testing and quality assurance.
- Workplace Environment: Interaction with employees to understand corporate culture.

Key Learnings:

- Practical exposure to industrial machinery and automated systems.
- Understanding supply chain management and inventory control.
- Knowledge of the latest technological advancements in the industry.
- Awareness of industrial safety measures and best practices.

REPORT ON INDUSTRIAL VISIT TO KORADI THERMAL POWER STATION

Organized by: Government College of Engineering, Amravati

Department: Electrical Engineering (3rd Year)

Date of Visit: 1st March 2025

Location: Koradi Thermal Power Station, Nagpur, Maharashtra

1. Introduction

The students of the 3rd Year Electrical Engineering Department of Government College of Engineering, Amravati, visited Koradi Thermal Power Station (KTPS) on 1st March 2025. The visit was organized to provide students with practical exposure to the functioning of a thermal power plant, power generation processes, and various electrical components involved in power production and distribution.



2. Objective of the Visit

- To understand the working of a thermal power plant.
- To observe various components such as boilers, turbines, generators, transformers, and control rooms.
- To gain insights into the efficiency and environmental impact of thermal power generation.
- To bridge the gap between theoretical learning and practical applications in the industry.

3. Overview of Koradi Thermal Power Station

Koradi Thermal Power Station is a coal-based power plant operated by Maharashtra State Power Generation Company Limited (MAHAGENCO). It has an installed capacity of approximately 2400 MW and plays a crucial role in meeting the electricity demands of Maharashtra. The plant employs modern technology to enhance efficiency and reduce environmental pollution.



4. Visit Highlights

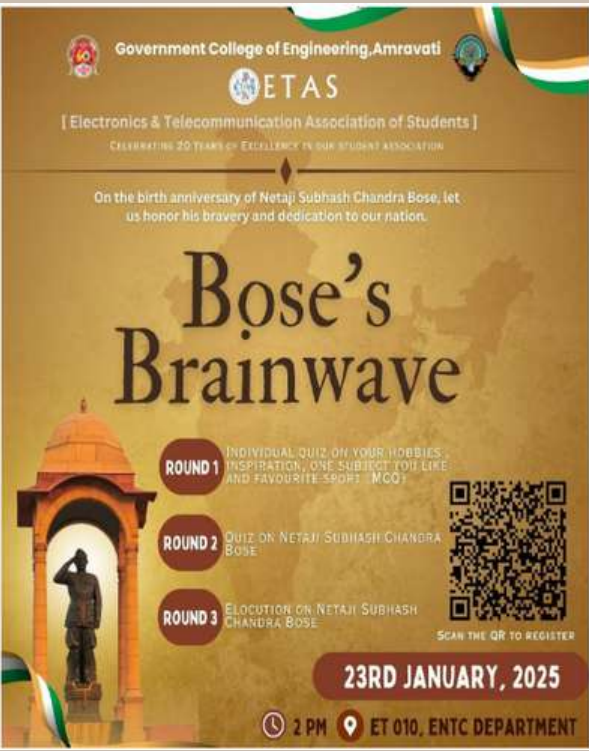
- Briefing Session: The visit commenced with an introductory session by the plant engineers, explaining the power generation process and safety protocols.
- Coal Handling Unit: Students observed the coal handling process, from transportation to crushing and feeding into the boilers.
- Boiler & Turbine Section: A detailed explanation was given about how coal combustion generates steam, which drives turbines to produce electricity.
- Generator & Transformer Section: The working of high-capacity generators and step-up transformers used for power transmission was demonstrated.
- Control Room Visit: Students experienced the real-time monitoring and control mechanisms used for power plant operations.

Environmental Measures: Discussions were held on emission control, ash handling, and the role of electrostatic precipitators in reducing pollution

Department of Electronics & Telecommunication

BOSE'S BRAINWAVE

On 23rd January 2025, the ETAS of Government College of Engineering, Amravati, organized "Bose's Brainwave" to commemorate Netaji Subhash Chandra Bose's birth anniversary. Guided by Prof. R. R. Harne and Dr. P. R. Deshmukh, the event included an MCQ quiz, a quiz on Netaji's life, and an elocution competition. It saw enthusiastic participation from students across all years. Miss Sakshi Sinha won the competition, with Miss Aarti Bhande as runner-up. The event concluded with a prize distribution and instilled a strong sense of patriotism and admiration for Netaji. The vibrant energy and active involvement of students made the celebration truly memorable and inspiring.



MEME CONTEST

On 29th January, ETAS of Government College of Engineering, Amravati, hosted an engaging online Meme Contest open to all branches. The contest aimed to promote creativity and fun while ensuring responsible content. With 45 participants submitting entries, memes were posted on the official ETAS Instagram page for public voting based on likes, views, and shares. The event received an overwhelming response, with Mr. Mayur Kasdekar winning with over 1 million views. Mr. Abhay Chorey secured the runner-up spot. The contest sparked tremendous enthusiasm and showcased students' humor and creativity in full swing.



Open Discussion For GATE Aspirants

On 7th February 2025, the ETAS of Government College of Engineering, Amravati, hosted a valuable guidance session for GATE aspirants, led by Dr. D.V. Rojatkar and organized under the mentorship of Prof. Dr. P.R.

Deshmukh and Prof. R.R. Harne. Dr. Rojatkar shared expert advice on effective preparation techniques, study plans, and the wide-ranging benefits of clearing GATE. With anchoring by Ms. Aarti Bhande, the session witnessed enthusiastic participation from students across various departments. An interactive Q&A segment helped address common concerns related to balancing academics with GATE studies. The event concluded with a vote of thanks by Mr. Mihir Jaiswal, leaving attendees inspired and well-informed.



Digital Electronics Workshop

From 12th to 14th February 2025, ETAS of Government College of Engineering, Amravati, conducted a three-day “Workshop on Digital Electronics” for first-year Electronics and Telecommunication students. Guided by HOD Prof. Dr. P. R. Deshmukh and Faculty Incharge Prof. R. R. Harne, the sessions were led by Mr. Kartik Deogade, Mr. Vedant Raut, and Mr. Nishant Bawaskar. The workshop covered number systems, logic gates, Boolean algebra, K-Maps, and hands-on circuit implementation using breadboards. Students actively participated, gaining both theoretical knowledge and practical experience. Concluding with a vote of thanks by Mr. Mihir Jaiswal, the workshop laid a strong foundation for students’ future in electronics.



Circuit Mania

On 15th February 2025, ETAS of Government College of Engineering, Amravati, hosted “Circuit Mania,” a dynamic competition centered around digital electronics. Under the guidance of Prof. Dr. P. R. Deshmukh and Prof. R. R. Harne,

the event featured three challenging rounds: an MCQ quiz, a crossword with circuit analysis, and a hands-on grand finale involving fault detection and circuit implementation. Students from various years participated enthusiastically, showcasing their technical knowledge and teamwork. Team 1 (Saee, Prit, Ashwini, and Chetan) secured first place, while Team 3 (Zaid, Mohit, Vaidahi, and Parnavi) earned the runner-up position. The event proved to be a powerful blend of learning, problem-solving, and spirited competition.



TECHNICAL TREASURE HUNT BIDDING

On 19th February 2025 at 1:00 PM, ETAS organized a thrilling bidding round for the Technical Treasure Hunt in classroom ET-11. The event was coordinated by Mihir Jaiswal, Yash Randive, and Sharwari Sawarkar. With 72 registered players and 8 team leaders, the auction involved strategic bidding within a budget of 1 crore points per leader. Base prices were set by academic year, and the highest bid reached ₹41.5 lakhs. Each team was formed with a structured mix of members across all years, creating a competitive and energetic environment.



KAILASH KSHATRIYAS – Team Leader: Shreehari Umap
SINHAGAD SPARTANS – Team Leader: Adwait Vaidya
SHIVNERI SWORDS – Team Leader: Mokshad Chole
PANHALA PANTHERS – Team Leader: Ayush Matte
TORANA TIGERS – Team Leader: Satyajeet Deshmukh
KONDHANA CONQUERORS – Team Leader: Gaurav Kawalkar
VIJAYDURG VOYAGERS – Team Leader: Vedant Raut
RAIGAD ROYALS – Team Leader: Pranay Lunge

Technical Treasure Hunt



On 7th March 2025, the Electronics and Telecommunication Association of Students (ETAS) organized the Technical Treasure Hunt at GCOEA, featuring eight teams led by final-year students. The event tested participants' technical skills, logic, and teamwork through quiz rounds, practical challenges, and an escape room finale. Raigad Royals, led by Mr. Pranay Lunge, emerged as the winners, while Kondhana Conquerors secured the runner-up position. The event saw enthusiastic participation, fostering problem-solving, collaboration, and innovation. Special appreciation was given to conveners Yash Randive and Sharvari Sawarkar for their excellent coordination.

KBC- Rise, Quiz, Win



On 23rd March 2025, the Electronics and Telecommunication Association of Students (ETAS) at GCOEA organized an exciting KBC-inspired quiz event, testing students' general knowledge and quick thinking. Held under the guidance of Prof. P. R. Deshmukh Sir and Prof. R. R. Harne Ma'am, the event featured four engaging rounds: an MCQ test, a head-to-head quiz, a Fastest-Finger-First round, and the grand Hot-Seat finale. With strategic lifelines and a simulated prize system, the competition created a thrilling atmosphere. Sudhanshu Wankhade secured the top spot with 90 lakh points, while Urvish Rode was the runner-up with 60 lakh points.

Department of Computer Science & Engineering

Intra Department Box Cricket Tournament

The Association of Computer Science (ACS) successfully organized the Intra Department Box Cricket Tournament from 23rd to 26th March



2025 at the Computer Science & Engineering Ground. The tournament followed a knockout format with six teams, each headed by a faculty member.

Four teams made it to the semifinals after fierce games, displaying incredible talent and tenacity. The final match was an exciting battle between Team Black Caps, led by Prof. Pushpanjali Chouragade, and Team 7 Up, led by Dr. Anil Deorankar, HOD of the CSE department. The crowd was captivated by both team's incredible performances throughout the match. Ultimately, Team 7 Up won, and Team Black Caps secured runner-up position.

These kinds of gatherings promote friendship and involvement. The ACS hopes to host more thrilling competitions in the future.

One Day Industrial Lecture



One Day Industrial Lecture Organized by Prof. Ravi V. Mante and Prof. Milind B. Waghmare

in the Department of Computer Science and Engg. For Third Year Students. Guest Name:- Mandar and his partner Pariksheet Deshmukh by Scilab Company. Mandar and his partner Pariksheet Deshmukh from Scilab Company are entrepreneurs who have made a mark in the tech world. They emphasize the significance of artificial intelligence (AI) and machine learning (ML) in solving real-world problems. By leveraging AI-driven solutions, they have successfully demonstrated the power of automation in business operations, improving productivity and reducing manual effort. Apart from technological advancements, they strongly believe in fostering an ecosystem of learning and collaboration. To support this, they have initiated a comprehensive hackathon program. Their hackathons serve as a platform for students, developers, and entrepreneurs to engage in hands-on problem-solving, brainstorming, and

innovation. These events are structured to simulate real-world challenges, pushing participants to develop creative and functional solutions within a limited timeframe. The hackathon program consists of various stages, including ideation, prototype development, testing, and presentation. Participants are encouraged to work in teams, fostering teamwork and collaborative problem-solving skills.

In conclusion, Mandar and Pariksheet Deshmukh's contributions to the tech industry extend beyond their technical expertise. Their hackathon program serves as a catalyst for innovation, inspiring individuals to think critically, develop problem-solving skills, and transform ideas into impactful solutions.

ISTE - CODE CLASH 2025

The Computer Science Department has organized the code competition titled "Code Clash" on 25th April 2025 under the guidance of ISTE faculty incharge of Computer Science and Engineering Department, Prof. N.G.Gadge. The competition was open to students from all the departments, and registrations were taken through a Google form , with deadline for submission being 24th April 2025. The event started at 3:00 PM and all the participants were instructed accordingly. The competition was conducted in two rounds. In the first round, participants were given 45 minutes to solve series of coding problems, and based on their performance the top 20 participants were shortlisted for second round. After the completion of first round, refreshment and snacks were provided to all the participants.

The second round had medium-level problems. At the end of the competition, two winners were declared. The first winner , Sumit Patil was awarded a cash prize of ₹2000, and the second, i.e., the runner-up, Mohammad Parvej was awarded a cash prize of ₹1000. The certificates were also awarded to all the participants for their active participation. The program was attended by energetic participation of the students and proved to be a huge success, allowing the students to sharpen their problem-solving abilities and developing an atmosphere of friendly competition among the students.

Patent File and Published

Name of Applicant :

- 1) Prof. Anil Vasant Rao Deorankar
- 2) Dr. Kishor Prakash Wagh
- 3) Prof. Prajakta Prakash Shelke

Title of the invention : Development of a Framework for Sarcasm Detection and Emotion recognition for Code-

Mixed Data Using Deep learning Approaches
The Patent Office Journal No. 06/2025 Dated 07/02/2025
PATENT APPLICATION PUBLICATION (21)
Application No.202521003280 A
(19) INDIA
(22) Date of filing of Application :15/01/2025 (43)
Publication Date : 07/02/2025

Name of Applicant :

- 1) Prof. Anil V. Deorankar
- 2) Prof. K. P. Wagh
- 3) Ms. Swati Meshram

Title of the Invention: Dynamic spatio-temporal pattern discovery: a novel grid and density-based clustering algorithm.

Application No: 202521021542 A

Publication Date: 21/03/2025

Research Papers Published by the teachers

1)Quantum Computing Optimization

Prof. Milind B. Waghmare, Nayan S. Thorat, and Dr. Kamlesh A. Waghmare published a comprehensive survey on the design and implementation of quantum circuit optimization using Qiskit, aimed at enhancing computational efficiency.

(The Indian Journal of Technical Education, Vol. 48, Special Issue, Feb 2025)

2)Machine Learning Applications

Dr. Kamlesh A. Waghmare and Pranali G. Sangode presented a review of machine learning algorithms with a focus on their diverse real-world applications.

(International Journal of Advanced Research in Science, Communication and Technology, Vol. 5, Issue 3, Jan 2025)

3)Network Security: Sponge Attacks and Data Poisoning

Aishwarya B. Bunde and Prof. A. V. Deorankar conducted a study on security vulnerabilities in multi-exit networks, specifically addressing sponge attacks and the impact of data poisoning.

(International Journal of Creative Research Thoughts, Vol. 13, Feb 2025)

4)AI-based Personal Assistants

Prof. Pushpanjali Chouragade and Nirmik Rathod developed and evaluated "Jarvis," an intelligent Python-based personal assistant designed to enhance user interaction with AI systems.

(The Indian Journal of Technical Education, Vol. 48, Feb 2025)

Department of Information Technology

2-DAY ANDROID APP DEVELOPMENT WORKSHOP

Organized by: Information Technology Students' Association (ITSA)

Dates: 23rd & 24th January 2025 **Venue:** CS AV Hall, 10:30 AM **Conducted By:** iBase Technologies



The Information Technology Students' Association (ITSA) successfully organized a 2-Day Workshop on Android App Development, which witnessed enthusiastic participation from students across various departments. The workshop was conducted in collaboration with iBase Technologies and aimed at providing hands-on experience in Android application development, enabling students to build innovative and practical solutions for real-world challenges.

Event Highlights

1. Inauguration Ceremony:

The event began with a warm welcome and inauguration by the Head of the IT Department, Prof. Archana Bhade, who shared her insights on the importance of staying updated with current technologies.

Prof. Bhushan Wakode, the ITSA Coordinator, also addressed the gathering and encouraged students to leverage such opportunities for their professional growth.

2. Guest Speaker Introduction:

The session was led by Mr. Nakul Wamanrao Deshmukh, a Senior Software Trainer and Developer at iBase Technologies. With over a decade of experience, Mr. Deshmukh has developed 500+ innovative projects, guided 50+ research initiatives, and trained over 1 lakh students in cutting-edge technologies such as Android Development, IoT, Machine Learning, Artificial Intelligence, MERN, and MEAN stacks. His expertise and passion for teaching left a profound impact on the participants.



5. Workshop Sessions:

Day 1: The fundamentals of Android app development were covered, including setting up Android Studio, designing user interfaces, and understanding Java/Kotlin programming for Android. Participants gained insights into building basic applications with practical demonstrations.

Day 2: Advanced concepts such as API integration, database connectivity, and debugging techniques were discussed. Mr. Deshmukh also shared industry tips and tricks for optimizing app performance and scalability.

6. Interactive Q&A and Feedback Session:

- The workshop included interactive Q&A sessions where students actively participated and clarified their doubts.
- The speaker appreciated the enthusiasm and technical curiosity displayed by the attendees.

Outcomes of the Workshop:

Students gained hands-on experience in developing Android applications.

Participants received a certificate of completion, adding value to their professional profiles.

The event inspired students to explore careers in mobile application development and related fields.

PROJECT COMPETITION UNDER AI YEAR – 2025

Organized by: Information Technology Department, GCoEA In association with ITSA & IIC Cell

Date: 10th March, 2025

Venue: IT Department

1. Introduction

The Project Competition under AI – 2025 was successfully held on March 11, 2025, at the IT Department, Government College of Engineering, Amravati (GCoEA). The event was organized in collaboration with the Information Technology Students' Association (ITSA) and the Institution's Innovation Council (IIC) under the theme "AI for All – The Future Begins Here."

The competition aimed to provide students with a platform to develop and showcase AI- driven innovations, encouraging practical problem-solving through artificial intelligence.

2. Objectives

The primary objectives of the competition were:

- To foster AI-based solutions for real-world challenges.
- To encourage interdisciplinary collaboration across various technical and non-technical domains.
- To enhance innovation and creativity in AI applications.

3. Participation & Guidelines

Eligibility: Open exclusively to GCoEA students.

Team Size: Maximum 5 members per team.

Project Scope: Ideas must be based on AI applications.

Equipment: Participants were required to bring their own apparatus for demonstrations.

Registration Fee: ₹100 per team.

Registration Deadline: March 10, 2025.

A total of 23 teams participated in the competition, presenting innovative AI-driven solutions aimed at addressing industry, healthcare, education, and social challenges.

4. Jury Panel & Evaluation

Projects were assessed by a panel of distinguished experts:

Mr. Ashish Deshpande – Founder & CEO, Logixspire Technologies Pvt. Ltd., Nagpur

Dr. P. B. Ambhore – Professor, IT Department, GCoEA

The evaluation criteria included:

- Innovation and Creativity
- Technical Feasibility
- Impact and Practicality
- Scalability and Future Potential



1. Prizes & Awards

The winners were rewarded with cash prizes as follows:

- 1 First Prize: ₹3000 - SmrutiPankh
- 2 Second Prize: ₹2000 - PreSage
- 3 Third Prize: ₹1000 - MentalWell

2. Organizing Committee & Support

The competition was successfully coordinated by:

- ◆ Prof. S.A. Lohi & Prof. B.V. Wakode (Faculty Coordinators)
- ◆ Prof. A.W. Bhade (HoD, IT Department)
- ◆ Dr. A.M. Mahalle (Principal, GCoEA)
- ◆ Student team of ITSA, who played a pivotal role in organizing and executing the event.

3. Conclusion

The Project Competition under AI – 2025 was a resounding success, providing students with a unique opportunity to apply their AI knowledge, receive expert insights, and collaborate with peers. The enthusiasm and innovation displayed by participants reflected the growing interest in AI-driven technologies at GCoEA. The event successfully encouraged students to explore AI applications in diverse domains, setting the stage for future advancements and fostering a culture of innovation and problem-solving.

Department of Instrumentation Engineering

Industry Interaction Session with Mr. Anupam Gandhewar

The Department of Instrumentation Engineering at Government College of Engineering, Amravati, was honored to host Mr. Anupam Gandhewar, a distinguished alumnus, as a guest speaker. The session aimed to enlighten students on the intricacies of process systems and aptitude development. Mr. Gandhewar, with his vast industry experience, delivered an engaging and informative session. He began by introducing the fundamental concepts of process systems, emphasizing their significance in instrumentation engineering. Through a series of examples and case studies, he elucidated the design, operation, and control of process systems. To make the session interactive, Mr. Gandhewar presented aptitude questions, challenging the students to think critically and solve problems. This exercise not only tested their knowledge but also encouraged them to develop their analytical and problem-solving skills. Students gained a deeper understanding of process systems, including their design, operation, and control. Sir's industry experience provided valuable insights into the practical applications of process systems and instrumentation engineering. The session conducted by Mr. Anupam Gandhewar was a resounding success, providing students with a comprehensive understanding of industrial process systems.

MatrixMaster – A MATLAB Coding Challenge

The “MatrixMaster” competition, conducted under the Instrumentation Department on 10th December, was an exciting online event designed to challenge and enhance the MATLAB skills of 2nd and 3rd-year students. Held from 12:00 PM to 12:30 PM, the competition offered a dynamic platform for participants to engage in fast-paced, matrix-based problem-solving using MATLAB. The primary objective was to encourage practical application of technical knowledge, foster collaborative coding, and identify emerging talent in the field of programming.

The event witnessed enthusiastic participation from students who teamed up to tackle a series of thought-provoking challenges. Each task was carefully designed to test the participants' logical thinking, coding efficiency, and ability to perform under time pressure. Despite the short duration, the energy and competitiveness remained

high throughout, with real-time performance tracking adding to the thrill.

Participants appreciated the engaging and compact format, with many expressing their interest in future events of a similar nature. Overall, MatrixMaster was a resounding success, achieving its goal of promoting a strong coding culture while offering an enjoyable and enriching experience. The winners, crowned as MatrixMasters, received well-deserved recognition for their technical prowess and teamwork. The event, held under the guidance of the Instrumentation Department, successfully blended learning, innovation, and student engagement.

Expert Lecture by Mr. Anupam Gandhewar



The Department of Instrumentation Engineering at Government College of Engineering, Amravati, organized an expert lecture titled “Passionate to Encourage Young Minds to Create a Bright Future” on 10th February 2025, from 11:30 AM to 1:00 PM. The session was held in Room IN111 of the Instrumentation Department.

The guest speaker for the session was Mr. Anupam Gandhewar, a distinguished alumnus of GCOEA, an accomplished Instrumentation Engineer, and a former BARC Scientist. With a remarkable career spanning major projects in the Nuclear, Oil & Gas, and Power sectors, Mr. Gandhewar has earned international recognition for his contributions to the field.

In his lecture, Mr. Gandhewar shared his rich professional experiences and emphasized the importance of innovation, dedication, and continuous learning in shaping a successful engineering career. His insights not only inspired students but also provided valuable guidance for aspiring engineers.

Abhijat Marathi Bhasha Manch Logo Competition



Date: 31st March 2025

Organized by: Department of Instrumentation, GCOE Amravati

To celebrate मराठी being officially recognized as an अभिजातभाषा, the Department of Instrumentation at Government College of Engineering, Amravati organized a creative event — the "अभिजातमराठी भाषा मंच Logo Competition".

The competition was held on 31st March 2025, encouraging students to design a digital चिन्ह (logo) that represents the pride, culture, and identity of the मराठी भाषा. The चिन्ह (logo) had to be original, colorful, creative, and meaningful. AI-generated designs were not allowed.

Students showed great interest and submitted beautiful and thoughtful चिन्ह designs. The best three entries were selected by judges based on creativity, relevance to the theme, and design quality. Winners were awarded cash prizes.

This event was a successful start to celebrating the मराठी भाषा वर्ष and gave students a platform to express their artistic and cultural ideas.

Student Council

TREE PLANTATION DRIVE



26 January 2025, On the eve of Republic Day, a Tree Plantation Drive under the “Beti Bachao Beti Padhao” theme was organized under the Student Welfare cell along with the support of the National Service Scheme (NSS), and Women Grievance Cell. The initiative aimed to promote environmental awareness and sustainability among students and faculty. The celebration began with the hoisting of the national flag, followed by the singing of the national anthem. Our esteemed principal, Honourable Dr. A. M. Mahalle Sir, along with Dr. A. I. Dhattrak Sir, Prof. N. D. Solanke Sir, Dr. M. V. Jape, and other faculty members, graced the occasion with their presence. Their speeches emphasized Republic Day's significance and students' responsibilities as future leaders of the nation. Followed by a tree plantation program. Students and faculty members planted various plants across the college campus.

SELF DEFENCE WORKSHOP



On 22 February 2025, a Workshop on Self-Defense Program for Girl Students was organized by the Women's Grievance cell with the support of the NSS Unit and the Student Council of the college.

This workshop was conducted by Gunjan Gole Mam. Dr. M.V. Jape Mam (Dean of Student Welfare Cell, Chairperson of Women's Grievance Cell), Prof. D. B. Maheshwari Mam (Warden Jijau Girls Hostel), Rudresh Deshmukh (Secretary NSS), Tanvi Chayan (Coordinator women's grievance cell) along with Female Guards and 200 girl students were present for the workshop. This program's objective was to educate the girl students about the different types of violence against them.

To provide knowledge about the different tips of self-protection to keep in mind in different situations. To showcase and give demos on different self-defense techniques.

Expert talk on Values and Moral Degradation



On the 27th of February 2025, an expert talk on “Values and Moral Degradation” was conducted by the ISTE (International Society for Technical Education) in association with Students Welfare cell with the support of the NSS Unit, and Women’s Grievance Cell of the college. Dr B N Jaju sir was the Guest of Honor for this expert talk.

Moral degradation is a serious problem that requires a multifaceted approach. Dr. Jaju sir explained how by strengthening families, promoting moral education, addressing social inequality, and fostering ethical leadership, we can work towards creating a more just, equitable, and moral society.

Chair of Program, hon'ble Principal Dr A M Mahalle, Dr. M V Jape Dean of Student Welfare, CoE Prof. Kishor Tayade sir and other faculties along with around 100 students were present for the session.

Session on “Important Aspects of Women’s Health



On Wednesday, 19 March 2025, a session on “Important Aspects of Women’s Health” was organized under the “Beti Bachao Beti Padhao” theme. The session was organized by the NSS Unit along with the huge support of the student council and the Women’s Grievance of the college. The chief speaker of the program was Dr. Neha Vidhale (Dharmale), a Gynaecologist & obstetrics. The session aimed to raise awareness, provide education, and empower women to take proactive steps toward maintaining their well-being.

The topics covered encompassed a range of physical, mental, and reproductive health concerns. This session aimed to acknowledge and solve the health issues faced by college girls.

WOMENS GRIEVANCE CELL



Two days workshop was conducted on Stress Management . This workshop was organised by WOMENS GRIEVANCE CELL . The details of workshop are as follows.

Date : 28/01/25 & 29/01/25

Venue: Government College Of Engineering, Amravati
Conducted by : Psychology Department , Government Vidarbha Institute of science and Technology (VMV),Amravati.

The session started by highlighting the importance of Stress Management by DR.M.V.Jape mam (Chairperson WGC) . The session was conducted by Students of VMV college :

- . Sanika . V. Mene
- . Shravani Pande
- . Pallavi A.Bansod

On the first day of workshop , Shravani Pande explains exact meaning of



Psychology as “The science which deals with study of soul”. The reasons of Stress in students life and hazardous impact of it.

Very interesting and new method of STRESS measurement was introduced Known as “STRESS SCALE”.

NATIONAL SERVICE SCHEME

Vachan Sankalp Maharashtra

2-26 JANUARY, 2025

The "Vachan Sankalp Maharashtra" initiative, aimed at fostering a reading culture among youth and promoting social awareness, was organized by the NSS Unit of Government College of Engineering, Amravati. The initiative included the following events:

1. Book Exhibition (Pustak Pradarshni):

Date: January 2-3, 2025



The event aimed to inspire the younger generation to adopt a habit of reading and understand its significance in personal and social development. The exhibition received an overwhelming response from students across all departments.

2. Group Reading (Samuhik Vachan):

Date: January 2, 2025



The group reading session allowed students to read books of their choice (Marathi or English) together. A list of recommended books was displayed on the library notice board. This event aimed to encourage collaborative reading habits among students and deepen their engagement with books.

3. Essay Competition:

Winner Announcement:
January 26, 2025 (by Prof. Dnyaneshwar Ghatkar)
Students were invited to write analytical and critical essays on books they had read.



4. Reading Day (Vachan Din)



The program was successfully conducted on 14 January 2025, from 11:00 AM to 1:00 PM in library Reading Hall of the Government College of Engineering, Amravati. Guest of Honor: Prof. Dnyaneshwar Ghatkar, Mahila Mahavidyalaya, Yavatmal.

Prof. Ghatkar shared his journey, emphasizing how reading books helped him overcome low confidence and improve his ability to communicate effectively with everyone. The "Vachan Sankalp Maharashtra" initiative successfully achieved its goal of promoting reading culture among students. These programs were conducted as per the directives of the Higher and Technical Education Department, Government of Maharashtra, with active participation from students and faculty members.

“MARATHI BHASHA PRACHAR”

27-28 February, 2025

The NSS unit at the Government College of Engineering, Amravati, actively promotes Marathi language and culture through diverse programs organized across various departments

1. CIVIL DEPARTMENT, (27 February, 2025):



GCOEA Amravati's NSS held a Marathi Poetry Conference on January 27, 2025, to encourage literary interest and social awareness. Dr. Anant Dhatrik emphasized the Marathi language at the opening. Students enthusiastically presented original poems judged by Dr. Sandeep Tatewar. Rutuja Barhate, Shubhangi Dhawale, and Tanvi Chavan won the top prizes. Other participants received certificates. The event, guided by Prof. Paikrao, Prof. Tak, and Prof. Thakare, successfully showcased student creativity.

2. INSTRUMENTATION DEPARTMENT

(27 February, 2025):



On January 27, 2025, the Instrumentation Department, in collaboration with NSS, successfully organized "मराठी भाषाचे प्रसार," a Marathi elocution competition, in Room IN111 at GCOEA from 3:00 PM to 5:00 PM. Students from various departments enthusiastically participated, speaking on "पर्यावरण संवर्धनाची गरज" (Need for Environmental Conservation) and "मराठी भाषा टिकवण्याची आपली जबाबदारी" (Our Responsibility to Preserve Marathi Language). The esteemed guest was Prof. Paikrao, and the judging panel included Prof. Bijawe, Prof. Rewatkar, and Prof. Pathak. Yaduraj Patil (CSE) secured the first position, Aditya Yevle (ENTC) the second, and Anuja Bhaswade (Instrumentation) the third. Winners received books, and all participants were awarded e-certificates. The event, promoting Marathi language and digital wellbeing, was well-received, and the organizers were appreciated for its success.

3. MECHANICAL DEPARTMENT

(28 February, 2025):



On January 28, 2025, at an NSS event organized by the Mechanical Engineering Department of GCOEA Amravati, Marathi expert Professor Sanjay Lohkare highlighted the significance of Marathi reading culture. Welcomed by Dr. Vasant Jape, Professor Lohkare spoke about Marathi's history, cultural importance, and the need for its preservation and increased use. He offered practical suggestions for promoting Marathi, including reading, using libraries, and encouraging its use in education and social media. Attendees pledged to support Marathi reading culture. The program concluded with a vote of thanks to Professor Lohkare and contributors.

GAS SAFETY AWARENESS PROGRAM

23 January, 2025



GCOEA Amravati, with the Surya Das group, held a "GAS SAFETY & IT'S IMPORTANCE" program on January 23, 2025, at 3:30 pm. Speakers Mr. Bhairunge and Mr. Mirza covered safe cylinder handling, leak recognition, prevention, and maintenance. Practical demonstrations and a showcase of safety devices were conducted. Organized by NSS Unit. The informative session concluded with thanks and aligned with the NSS community welfare goals.

Republic Day Celebration

26 JANUARY, 2025



Government College of Engineering, Amravati, celebrated the 76th Republic Day on January 26, 2025, with enthusiastic participation from faculty, students, and dignitaries. The event commenced with flag hoisting and the national anthem, graced by Principal Mahalle Sir, Dhattrak Sir, Solanke Sir, and other faculty members who highlighted the day's significance and students' future roles. Emphasizing environmental stewardship, an NSS, Women Grievance Cell, and Student Council-organized tree plantation drive followed, fostering a commitment to a greener future among attendees. This initiative was followed by an essay competition prize distribution where Rutuj P. Dahake (represented by Rudresh Deshmukh), Amit Datarkar (represented by Piyush Atkare), and joint third prize winners Primal Deshmukh and Samruddhi Vidhale were recognized. The celebration concluded with a vote of thanks, reinforcing patriotism and social responsibility, alongside the tangible act of planting trees for a sustainable tomorrow.

NSS SPECIAL CAMP

04-10 FEBRUARY, 2025

NSS SPECIAL CAMP From February 4th to 10th, 2025, GCOEA's NSS unit organized a 7-day residential camp at Govindpur Kondeshwar, emphasizing social awareness, community engagement, health, and rural understanding.



Volunteers resided at Shri Krishna Prabhu Seva Ashram, Bhankheda, following a daily schedule of prayer, yoga, and cleanliness.

Day 1 (February 4th):

Volunteers began by cleaning their residential area and participating in Shramdan.



Day 2 (February 5th):

The camp was inaugurated at Zilla Parishad Primary School, Govindpur, with chief guests Pravin Khandpasole, Mrs. Shobhatai Khadse, Mrs. Sandhyatai Thotange, Principal Dr. Ashish Mahalle, Dr. A. I. Dhatriak, and Narendra Solanke. Prof. Narendra Solanki also delivered a lecture at the school on cleanliness and health. At night, volunteers observed stars with binoculars under Prof. Zatale's guidance



Day 3 (February 6th):

Volunteers conducted a Prabhat Pheri in Govindpur and visited Kondeshwar temple to raise health awareness. Later, lectures were held at the Zilla Parishad Primary School, featuring Prof. Kaushik Joshi on "Vachan Sanskriti" and PI Mr. Sunil Chavan on new laws. Mr. Khandpasole spoke in the evening about crime and justice.



Day 4 (February 7th):

Volunteers visited Govindpur village and nearby brick kilns to inform people about a free health camp organized with Hedgewar Hospital. In the afternoon, the health camp took place at the Zilla Parishad School. A women's gathering was also held, with Dr. Monika Umak guiding on entrepreneurship.



Day 5 (February 8th):

Volunteers cleaned the Gaushala and then attended a session at their residence by Dr. Swapnil Sonone on nature and wildlife conservation. In the evening, they organized an entertainment program, including a voting awareness street play.



Day 6 (February 9th):
A blood testing camp was organized at the Zilla Parishad School in collaboration with Irwin Hospital. Following this, volunteers engaged in Shramdan in the residence's garden



Day 7 (February 10th):
Volunteers visited and thanked the teachers and students of the Zilla Parishad School and cleaned the entire camp premises. The camp concluded with a closing ceremony, with Dr. Dinesh V. Rojatkar as the chief guest.



The successful camp was organized by Program officer Dr. A. I. Dhatrak, Prof. Narendra Solanke, Dr. Sharma, Prof. Paikrao, Prof. Uike, and Secretary Rudresh Deshmukh.

**“JAI SHIVAJI JAI BHARAT”
RALLY**

19 February,2025

On February 19th, 2025, GCOE Amravati's NSS volunteers celebrated Chhatrapati Shivaji Maharaj Jayanti by participating in the "Jai Shivaji Jai Bharat" rally at Science Core Ground. The event, organized by the NSS, included cultural performances and lectures on Shivaji Maharaj's life and valor, attended by students from various schools and colleges. Professors N. D. Solanke and P. L. Paikrao motivated the volunteers during the mega foot march from Science Core Ground to the Regional Transport Office, where enthusiastic slogans were chanted. The program successfully promoted historical awareness and unity.



SELF DEFENSE WORKSHOP



On February 22, 2025, from 7:30 AM to 9:30 AM, the Women's Grievance Cell, Beti Bachao Beti Padhao, and the NSS unit jointly conducted a Self-Defense Workshop at Jijau Girls Hostel, Government College of Engineering, Amravati. Led by Gunjan Gole Mam, the workshop educated 200 girl students about violence, provided self-protection strategies, and demonstrated techniques.

Dr. M.V. Jape Mam emphasized the importance of self-defense, followed by Gunjan Gole Mam's session on prevention, assertive action, targeting vulnerable points, and specific defense moves. Students learned about various forms of violence and practical self-protection tips. The workshop concluded with a commitment to future similar programs.

“Marathi Bhasha Din”



On February 27, 2025, following the Maharashtra Government's declaration of Marathi as a 'Classical Language,' Government College of Engineering, Amravati, decided to celebrate the entire year as "Marathi Language Year,"

commencing with Marathi Language Day. Dr. P. L. Paikrao and Prof. Sheetal Bijwe were present for the event, which included:

- 1. Essay Competition: An essay writing competition was held to promote creativity and the importance of Marathi language conservation, receiving enthusiastic student participation for essays between 1000-1200 words.
- 2. Marathi Font Creation Workshop: A workshop on "Create Your Own Marathi Font" was organized to enhance the digital use of Marathi and enable students to contribute to its technological advancement. It provided basic knowledge of Marathi font design and saw an overwhelming response with over 75 participants.

Prof. Paikrao and Prof. Bijwe, key proponents of the program, also guided students on the art of "Poetry Appreciation" and recited poetry.

Conclusion: These initiatives promoted the richness, preservation, and technological integration of Marathi. The knowledge gained will benefit the language's future. The "Marathi Language Year" initiative received remarkable participation from students and faculty, and the college resolved to continue such programs throughout the year to further elevate the Marathi language

Drushti Jivanvidyechi Vyakhyanmala 2025



On March 16, 2025, NSS volunteers from GCOEA Amravati attended an insightful lecture on "Vishwaprarthana - Sukhacha Mantra" delivered by Shree Dasharath Sirsat, a senior motivational speaker from Jeevanvidya Mission, Mumbai. The session, part of the "Drushti Jivanvidyechi Vyakhyanmala 2025" organized by Jeevanvidya Mission, took place at Shree Sant Dhyaneshwar Sanskrutik Bhavan. Shree Sirsat elucidated the meaning and significance of Vishwaprarthana (Universal Prayer), emphasizing its power to connect individuals, foster inner peace, and cultivate happiness through mindfulness, selflessness, and compassion in daily life. He also provided practical methods for incorporating universal prayer into one's routine by highlighting the importance of self-discipline and a positive mindset. The session, attended by NSS Program Officer Dr. A. I. Dhatri, NSS Secretary Rudresh Deshmukh, and several students, left a lasting positive impact, reinforcing the crucial role of prayer and self-awareness in achieving a fulfilling life, aligning with the NSS's vision of holistic development.

Shahid Din Vyakhyan



On March 25th, 2025, NSS volunteers from GCOEA Amravati attended a poignant "Shahid Din" lecture organized by Sant Gadge Baba Amravati University's Department of Student Development. The esteemed speaker, Dr. Rajesh Mirge, a scholar of saint literature and history, delivered an insightful address on "Shahid A Azam Bhagat Singh: Ek Krantikari Zanzavat." The session honored Bhagat Singh's sacrifice and aimed to inspire the youth with his courageous story, highlighting his multifaceted personality as a revolutionary, writer, reader, translator, and journalist. Dr. Mirge emphasized the need for youth to be aware of Bhagat Singh's sacrifices and cautioned against the distractions of social media. The session concluded with patriotic songs. The NSS unit expressed gratitude to Dr. Mirge, all attendees, and organizers, including Dr. Nilesh Kadu (NSS Director SGBAU), for the enlightening and inspiring lecture, which resonated with the NSS's goals of holistic development and community service.

Dr. Babasaheb Ambedkar Jayanti



On April 14, 2025, the NSS unit of Government College of Engineering, Amravati, commemorated the birth anniversary of Bharat Ratna Dr. B. R. Ambedkar by participating in a program as per the directives of the Directorate of NSS.

The commemoration began with a rally from Sant Gadge Baba Amravati University to Irwin Square, where faculty members, including Prof. N. D. Solanke, Dr. P.I. Paikrao, and Dr. P.B. Ambhore, along with NSS volunteers, paid their respects at Dr. Ambedkar's statue.

Following the tribute, attendees collectively recited the Preamble of the Constitution of India, reinforcing the values championed by Dr. Ambedkar. Upon returning to the college campus, a tribute ceremony was held in front of Dr. Ambedkar's photograph at the administrative building, led by Principal Dr. A. M. Mahalle and NSS Program Officer Dr. A.I. Dhatri, along with other faculty and staff.

Panel Discussion Session



On April 15, 2025, an NSS program discussion session explored "Contribution of Dr. Babasaheb Ambedkar in Building the Nation". The Chief Guest, Dr. Santosh Bansod (Coordinator, Dr. Babasaheb Ambedkar Study Centre, SGBAU) highlighted Dr. Ambedkar's crucial role in drafting the Constitution and his fight for social justice. Guest of honor Dr. Nitin Koli (Director, Examination and Evaluation Cell, SGBAU) emphasized the continued relevance of Dr. Ambedkar's vision for an equitable society. Chaired by Dr. S. K. Hirde, the Chairman of the SC/ST Committee, Dr. U. V. Dongare, also attended the session. The session was organized by Dr. A. I. Dhatri, Dr. P. L. Paikrao, and Prof. N. D. Solanki, deepening the understanding of Dr. Ambedkar's impact among participating students and faculty.

The program of 12 hours of study will be conducted on 1 May 2025

NATIONAL CADET CORPS

Institutional Training



On January 23rd, the 8 Maharashtra Battalion NCC, Amravati, organized an extensive institutional training program for its cadets to prepare cadets for the theoretical aspects of the B and C cert exams, the 8 Mah BN NCC organized special sessions that focused on military knowledge, discipline, and the practical application of skills. These sessions covered important topics such as military history, tactics, and protocol, ensuring that the cadets were not only ready for the practical components but also equipped with the necessary theoretical knowledge to excel in their exams.

Republic Day (2025):



The 76th Republic Day celebration at the Admin Garden, Government College of Engineering Amravati, was a resplendent display of patriotic fervor and national pride. As the morning sun cast its golden rays, the ceremony commenced with the dignified escorting of the chief guest, Principal Dr. A M Mahalle, amidst the synchronized marching of the NCC cadets led by Commander Cdt Sumit Katwate. The air was electric with anticipation as the principal hoisted the tricolor at 7:45 AM, its vibrant hues fluttering majestically in the gentle breeze. The atmosphere reverberated with patriotism as the assembly sang the National Anthem and Maharashtra Geet ("Jai Jai Maharashtra Majha") with heartfelt devotion, their voices blending in perfect harmony. The NCC cadets then presented a mesmerizing display of precision and discipline,



The program also witnessed the attendee's taking oath of the preamble as recited by respected Dr. D. V. Rojatkarsir which was a moment of great pride for all. The atmosphere of the place came alive through the lineage of the program. The program concluded with the distribution of sweets and celebrating the spirit of nationalism and remembering the idea of republic day by far through which we are the biggest democratic republic in the world.

Wings of Honor: Opportunities in Indian Armed Forces by
Rahul Agarkar(Ex NCC CADET)



On January 30th, 2025, The NCC Cell at GCOEA hosted an enlightening and enriching online session titled "Wings of Honor: Opportunities in the Indian Armed Forces," conducted by Mr. Rahul Agarkar, a distinguished alumnus from the Information Technology department. He was recommended from 5 AFSB Guwahati and secured AIR 4 in AFCAT exam

B Certificate Exam

"B Certificate" is a 2nd Tier Certificate awarded to cadets who have completed two years of NCC training. It signifies that the cadet has undergone basic military training, including drill, weapon handling, map reading, and leadership skills.

This year the B certificate exam was conducted on 15th and 16th March 2025 where theory exam was at Vidyabharti College and practical exam at 8 Mah BN NCC. The examination aimed to assess the cadet's theoretical knowledge and practical skills and was attended with great preparation and commitment by the cadets.

This exam is conducted in two phases:

1. Practical Exam (15/03/2025)

This exam assesses the field knowledge of the cadet received during training over the past two years. It's of 150 marks. Key areas of assessment are:

- DST – Drill Square Test
- Map Reading
- Weapon Training (0.22mm rifle based)
- FCBC – Field Craft & Battle Craft
- Communication



2. Written Exam (16/03/2025)

This exam assesses the cadet's understanding of theoretical aspects of the training which includes knowledge about weapon and their types, different types of drills and also the current affairs and general knowledge. The exam duration is of 3hrs and 350 marks

C Certificate Exam

"C Certificate" is a 1st Tier Certificate awarded to cadets who have completed three years of NCC training. The NCC 'C' Certificate is the highest level of certificate a cadet can earn in the Senior Division (Boys) or Senior Wing (Girls) of the National Cadet Corps. It carries significant value, especially for careers in the Indian Armed Forces and government services like CAPF/CRPF/BSF/CISF.

The cadet must mandatorily hold a B certificate in order to be eligible for the C certificate. This year the C Certificate Exam was conducted on 15th and 16th February 2025 where theory exam was at Vidyabharti College and practical exam at 8 Mah BN NCC. It's validation of the 3 years of discipline, training, and leadership imbibed by the cadet and is highly valued in both military and civilian sectors.

This exam is conducted in two phases:

1. Practical Exam (15/02/2025)

This exam assesses the field knowledge of the cadet received during training over the duration of three years. It's of 150 marks. Key areas of assessment are:

- DST – Salami Shastra
- Map Reading
- Weapon Training
- FCBC – Field Craft & Battle Craft
- Communication

2. Written Exam (16/02/2025)

This exam assesses the cadet's understanding of theoretical aspects of the training which includes knowledge about weapons, various instruments like compass, scales, different types of drills and also the current affairs and general knowledge. The exam duration is of 3hrs and 350 marks.



Entrepreneurship Cell

Team PRADYUT at E-Summit 2025: A Defining Chapter in Our Entrepreneurial Journey

From 30th January to 2nd February 2025, the Entrepreneurship Cell of IIT Bombay hosted the prestigious E-Summit 2025 under the



theme Pursuit of Eminence. As Asia's largest business conclave, the summit united entrepreneurs, innovators and industry leaders to foster collaboration, creativity and real-world insights.

Team PRADYUT from GCOEA had the honour of representing our institute in the National Entrepreneurship Challenge (NEC) – the grand finale of a rigorous six-month journey launched in August 2024. NEC aimed to strengthen entrepreneurship cells across the country through a series of demanding challenges.

The competition unfolded across four stages: Preliminary Task, Ignite Propel, Venture Quest and Comprehensive Task. Over 17 tasks, our team demonstrated strategic thinking, innovation and resilience. Reaching the finals was a testament to our dedication and teamwork.

At the summit, we participated in events such as Bid and Build, Fish Tank, IPL Auction and Startup Expo. Highlights included The Ten Minute Million (TTMM), Corporate Duel, Ace the Case and Squid Games.

Keynotes by Nandan Nilekani, Sonam Wangchuk, Shantanu Naidu and Anupam Mittal enriched our understanding of innovation, leadership and sustainability.

CASE QUEST

On February 25, 2025, GCOEA hosted the Case Quest competition at the Civil AV Hall, organized by the E-Cell and Startup Cell in collaboration with the Institution's Innovation Council (IIC). The event aimed to enhance analytical thinking, problem-solving, and presentation skills among participants.

The inauguration was graced by distinguished faculty members including Dr. R. M. Metkar (Dean, R&D), Dr. R. B. Sharma (Faculty In-Charge, E-Cell), Dr. U. V. Dongre (Startup Cell Coordinator), Dr. S. L. Lohi, and Dr. A. W. Bhade, emphasizing the event's importance in fostering entrepreneurial spirit at GCOEA. The initial rounds featured case-based MCQs, crosswords, and

quick-thinking tasks to test participants' business acumen and critical thinking under time constraints. In the final round, top teams tackled a real-world business challenge and presented their solutions to a panel comprising Dr. Dongre, Dr. Bhade, and Dr. Lohi, who judged on creativity, feasibility, clarity, and strategy.



Team Idea Igniters emerged as the winner, with Team Eklavya and Team X as the first and second runners-up respectively. The event concluded with a Vote of Thanks, celebrating the efforts of all involved. Case Quest proved to be an intellectually rewarding experience that encouraged innovation, teamwork, and strategic thinking.

E-SUMMIT 2025 at IIT Madras

From February 28 to March 2, 2025, GCOEA's E-Cell participated in E-Summit 2025 at IIT Madras under the theme "Decade of



Dynamism." The team secured All India Rank 2 in the Entrepreneurship Development Drive (EDD) and presented innovative ideas in the Enigma competition.

The summit featured events like Pitch Fest, Startup Expo, and expert-led workshops on investment (Nagaraja Prakasam), finance (Jitender Peswani), and content creation (Drishti Sharma). Inspirit Sessions by top entrepreneurs like Phasi Kishan (Swiggy), Sandeep Jain (Geeks for Geeks), and Anshuman Singh (Scaler) offered deep insights into leadership and startups.

Overall, it was a transformative experience that sharpened entrepreneurial skills and expanded industry connections.

The Robo-tech Forum

• Qualified for stage 2 in DD Robocon 2025

DD Robocon is a national-level competition organized for robotics enthusiasts. Winning DD Robocon makes teams eligible for ABU Robocon, a national-level competition. RTF successfully qualified DD Robocon and is now eligible for the second stage of the competition, which is video submission of the bots. Every year, Robocon has a theme and problem statement around which participating teams have to make the bot to perform the given task and solve the given problem statement. This year, the theme of the competition is “Robot Basketball - Team Effort, Ultimate Success.”

• Shortlisted for stage 2 in IRoC-U 2025

IRoC-U (ISRO Robotics Challenge – URSC) is a national competition by ISRO, with the 2025 theme “Fly me on Mars”, focusing on autonomous aerial navigation without external aids like GNSS.

Team RTF successfully built and flew a tri-copter drone autonomously in a GNSS-denied environment, qualifying for the preliminary round with a submitted video solution. We aim to make the tri-copter fully autonomous for Martian-like navigation.

• AIR 2 in Aero Artistry

Aero Artistry is the competition organized by IIT Indore every year. This competition aims to find people who are enthusiastic about Aero and make them compete in the competition by giving them the task of manufacturing the plane. This plane is then made to perform various missions. We are so proud to announce that RTF has secured All India Rank 2 in the competition, beating our own previous best, which was AIR 3.



AIR 1 and AIR 4 in the Line Follower competition

Line Follower is a bot that follows a line autonomously without any human intervention. It has a microcontroller as one of its constituent component. RTF first time in the Line Follower competition organized.



TIFAN CLUB

GCOEA

ORIENTATION PROGRAM



24th March 2025

Team GCOEA successfully conducted an engaging orientation program for the SAE Tifan Club in classroom ME108, welcoming enthusiastic students from all engineering branches. The session aimed to provide a detailed introduction to the club, highlighting its objectives, departments, and the diverse opportunities it offers.

Team members thoroughly explained each department's role and emphasized the value of extracurricular activities in holistic development. They also shared useful insights on time management and essential life skills. The program saw an impressive turnout of around 50 students, reflecting strong interest.

The event concluded with an interactive Q&A session, allowing first-year students to clarify their doubts. A heartfelt vote of thanks was delivered by the Vice Captain, appreciating the participation and encouraging students to join the Tifan family.

GCOEA

MOTORSPORT

We're Team GCOEA Motorsport, and we're thrilled to present the experience that started when we unveiled our ATV grandly at GLAM 2024.



On February 19, we arrived in Hyderabad to take part in the prestigious BAJA SAEINDIA 2025 competition. On February 20, we installed our pit and plunged headlong into the Electrical and Mechanical Technical Inspections (TI).



On February 21, our ATV passed the Pull Test, pulling a 2-ton+ tractor, and glided through the Brake Test. In the surprise Rainstorm Test,



Next was —The Endurance Race. Described as one of the most rigorous tests in the event, we began well and held a sound position on the track. We have completed 5 laps of 3 KM of rough terrain. Midway, though, we ran into a calamitous problem—suspension damage and Next was —The Endurance Race. Described as one of the most rigorous tests in the event, we began well and held a sound position on the track. We have completed 5 laps of 3 KM of rough terrain. Midway, though, we ran into a calamitous problem—suspension damage and leak in the brake lines. Resolving to put things right before it was too late, our team quickly implemented the necessary fix and had our ATV back running. In spite of the challenges, we crossed the finish line and proudly achieved an All India Rank (AIR) 22!

Abhimanch The Drama Club



Victory at YIN Kala Mahotsav 2025

ABHIMANCH - The Drama Club of Government College of Engineering, Amravati, is thrilled to announce that we secured 1st Prize in the Skit Competition at YIN Kala Mahotsav 2025, held at SIPNA College of Engineering on 7th March 2025!

Our fun-filled skit, "Chuglatwadi", entertained the audience with its humorous storyline, witty dialogues, and energetic performances.

Music Club

Sakal YIN Kala Mahotsav 2025

The Sakal YIN Kala Mahotsav, a highly popular youth festival, was held on 7th March 2025. Organized by the Sakal Media Group in collaboration with the Young Inspirators Network (YIN), the event featured a wide array of competitions aimed at encouraging creativity and talent among young individuals.



The event took place at Sipna College of Engineering and Technology, Amravati, and witnessed enthusiastic participation from students across various colleges.

Miss Vividha Vaidya, a second-year student from the ENTC Department at Government college of engineering Amravati, took part in the Solo Singing Competition.

Ghazal Program

On 30th March 2025, a soulful Ghazal Program by Dr. Rajesh Umale was organized at Swami Vivekanand Theme Park, Kathora Naka, Amravati. The event featured captivating musical performances and was attended by music lovers from the city. Madhavraj Pohokar, a student of 2nd year Electrical department, from Government College of Engineering, Amravati, showcased his musical skills by performing as a guitar accompanist during the whole program.



Recording of "Ram Stuti" series for Shri Ram Navami

Swaralay – the official music club of GCOEA – initiated a special project to celebrate the divine occasion of Ram Navami by recording a beautiful series of 10 devotional songs dedicated to Lord Ram

-The first song - Hey Ram was sung by member of the music club Miss Samruddhi Kirtane from 1st year ENTC department.



- The second song - Ram Siya Ram sung by Miss Anushka Garpawar from 1st year CS department.
- The Third song - Arambhi Vandina sung by Mr Shubhankar Pachpor from 1st year Mechanical department.
- The fourth song - Hamare Saath Shree Raghunath sung by Vividha Vaidya from 2nd year ENTC department.
- The fifth song - Awadh mein Ram Aaye Hai sung by Om Pachhel from 2nd year Mechanical department.
- The sixth song - Aatma Rama sung by Mr Samarth Basarkar from 3rd year Mechanical.
- The seventh song - Shri Ram Janki sung by Mr Madhavraj Pohokar from 2nd year Electrical department.
- The Eight song - Tum Utho Siya Shringar Karo sung by Gauri Laddha from 1st year ENTC department.
- The ninth song - Ram Aayenge sung by Purva Bisne from 2nd year Electrical department.

The Tenth and final song , “Hum Katha Sunate”, was a group performance featuring all the members of the music club. This grand finale was enhanced by a fabulous tabla performance by Adwait Vaidya (4th year, ENTC) and a melodious harmonium accompaniment by Sarvesh Ingle (4th year, Instrumentation).

Additionally, Samarth Basarkar ,Vividha Vaidya and Om Pachhel took charge of videography and editing, ensuring that each song was beautifully captured and presented

Nature's Club of GCOEA

Cleanliness Drive



January 26, 2025

On the occasion of the 75th Republic Day, the Nature's Club of Government College of Engineering, Amravati, organized a Plastic Cleanliness Drive to promote environmental awareness and campus hygiene. The day began with a grand flag-hoisting ceremony, followed by a welcome address by Dr. D.V. Rojatkhar. The drive was inaugurated by the Principal with the symbolic planting of a mango sapling, emphasizing sustainability.

Starting from the Electronics and Telecommunication Department, the drive covered key areas including the Pump House, Spandan Foundation, Gymkhana, Administrative Department, and Students Section. Faculty, students, and volunteers worked together to remove plastic waste, with active participation from Principal Sir, Mr. P.L. Paikrao, Dr. S.S. Thakre, and Dr. Rojatkhar. Lily seeds were also distributed to faculty members and HoDs to encourage eco-friendly practices. The organizing committee and student volunteers ensured the event's success. Each location was cleaned thoroughly, reflecting everyone's commitment. Refreshments were provided to keep participants energized.

The drive concluded successfully, instilling a strong sense of environmental responsibility and teamwork among the college community.

Faculty Co-ordinator



Dr. S.S.Thakare

Electronics and Telecommunication
Department

Student Secretaries



Yash Thakre
2nd year Electrical



Vedanshu Sute
3rd year Mechanical

We are delighted to present the newsletter for the year 2024, an honor for our esteemed college. Leading this team has been a privilege, and we have spared no effort in facilitating our student's journey towards greater heights. Our initiatives included a series of sessions and seminars, aimed at empowering our budding engineers to confidently navigate any situation they encounter.

From January to April 2025, our students showcased exceptional progress, not only excelling academically but also in extracurricular activities, and more. Moreover, we take immense pride in highlighting the extensive list of achievements by our esteemed faculty. Together, our college community has demonstrated that no barrier is insurmountable when it comes to achieving greatness. Such remarkable accomplishments deserve appreciation. This newsletter is a small attempt to appreciate Government College of Engineering, Amravati community.

