



# Government College of Engineering, Amravati-444604

(An Autonomous Institute of Government of Maharashtra)

## NEWSLETTER MAY-AUGUST 2022



# Petrichor

*the essence of new beginnings..*

### 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.



**Shri. V. C. Rastogi**

Principal Secretary  
Higher & Technical  
Education



**Dr. Abhay Wagh**

Director  
Higher & Technical  
Education



**Dr. A.M. Mahalle**

Principal  
Government College of  
Engg, Amravati

## Editorial Board

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• Prof. P. M. Chouragade

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• Prof. T. C. Bhagat • Prof. M. B. Waghmare • Prof. R. R. Harne • Prof. D. R. Uike • Prof. M. T. Shete

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- |                                |                                   |                               |
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# VISION

"TOWARDS GLOBAL TECHNOLOGICAL EXCELLENCE"

# MISSION

- Creating Human Resource of global competence
- Providing Excellent academic and research environment
- Striving for development through technology transfer
- Inculcating the attitude of Entrepreneurship

## Civil Department

Important portfolios and other academic assignments handled at University/Institute/Industry level

**Prof.Arvind.M.Mokadam**

1.Chairman Indian Water Works Association AMRAVATI Center.  
2.Member,Editorial Board,Journal of IWWA.

**Prof.S. W. Thakare**

DLO Amravati district for MHTCET2022.

Assets created in the department through various projects/schemes/budgets

**Prof.Arvind M. Mokadam** (Associate professor) IRG through testing of road materials.

Proposals pending with state government

**Dr..M.N.Hedau**

Administrative approval for two new buildings obtained for mechanical & electrical dept. Technical sanction awaited from PWD costing 17 crores per building.

## Applied Mechanics Department

### Papers Published

• **Dr.S. K. Hirde and S. P. Nagpure**

**Title:** SEISMIC BEHAVIOUR OF STEEL PLATE COMPOSITE WALL SUBJECTED TO MONOTONIC AND CYCLIC LOADING: A STATE OF ART.

**Journal:** International Journal of Multidisciplinary Educational Research.

**Publication Date:** 10th May 2022.

• **Dr. S. K. Hirde and Aartika Mohabansi**

**Title:** SEISMIC EVALUATION OF STEEL SILOS WITH DIFFERENT ASPECT RATIO.

**Journal-** International Journal of Multidisciplinary Educational Research.

**Publication Date:**10th June 2022.

• **Dr.S.K.Hirde and Sankalp Shewale**

**Title:** SEISMIC BEHAVIOUR OF SMA FOR OFFSHORE STRUCTURE

**Journal:** International Journal of Multidisciplinary Educational Research.

**Publication Date:**10th May 2022.

• **Dr. S. K. Hirde and Ajay Sanjay Dhamale.**

**Title:** A Review on Structural Health Monitoring using EMI Technique.

**Conference:** National Conference on Advances in Science, Engineering and technology for sustainable development (NCASETSD-2022) May 21-22.

### Section G

Purchase of multipurpose cannon Xerox machine of cost Rs 285000/- in the month of August.

## Mechanical Department

### SAE TIFAN COMPETITION 2022

(15th May 2022)

A National Level Onion Harvester Building competition organized by the **OffHighway Board of SAE INDIA** and sponsored by big MNCs like John Deere, Mahindra and Mahindra, ANSYS, etc. With the motive of Innovation and Mechanization in traditional farming ways by the ideas of young mechanical engineers from all over India. GCOEA is a team of 25 innovative and consistent mechanical engineers led by **Mr. Dnyaneshwar Mulay** under the consistent guidance and support of **Dr. A. M. Mahalle** (Principal), **Dr. R. S. Dalu** (HOD, Mechanical) and **Prof R. S. Mohod** (Faculty Advisor) with **Mentor Mr. Neeraj Dubey** (John Deere) and **Co-Mentor Mr. Pulkit Jha** (John Deere). The physical round was held in 3 stages Presentation Evaluation, Static Evaluation and Dynamic Evaluation.



### Expert Lectures (5th August 2022)

- An Expert Lecture was arranged under career guidance cell in association with MESA with permission of Respected HOD **Dr. R. S. Dalu Sir** and assistance of Faculty Incharge **Prof. N.D. Solanke** and **Prof. S. G. Kamble** Dept. Of Mechanical Engineering on 5th August 2022.
- **Dr. D. V. Rojatkarsir** gave the expert talk on "GATE EXAM". The lecture covered in depth the advantages of GATE (Graduate Aptitude Test in Engineering) Exam .Sir told us about GATE Exam which is created to test the knowledge and understanding of undergraduate students in various subjects of engineering and science.

Benefits of GATE Exam can be used to obtain admission into M.E/M.Tech/M.Sc. Programs of top institutions of India such as IISC ,IITs ,NITs,etc. Expert also told us about the enriching experience as they provide a conducive environment for intellectual satisfaction as well as future financial security. All in all it was a knowledge packed and energetic Session that helped students get insight about opportunities they had about GATE Exam. Students from 1st, 2nd and Final year attended the Session.





## MATLAB Workshop (5th-6th August 2022)

**MATLAB WORKSHOP** was organized under the **EESA** on the 05th and 6th of August 2022. Under the guidance of **Dr. R. B. Sharma** Faculty coordinator (EED). The workshop was led by **Prof. P. P. Bedekar** and EESA Members Volunteered for the session.

The inauguration of the program was done by **Dr. V. M. Ghate** faculty coordinator (EED). The main objective of the workshop was to get familiar with MATLAB and learn its basics along with its use in **Electrical Engineering**. Various topics like matrix calculations, function formation, problem-solving and 2D and 3D plotting were covered in this 2-day workshop.

### Program Outcomes:

1. Hands-on experience with MATLAB.
2. Learned various problem-solving techniques.
3. Syntaxes and the functions of MATLAB.
4. Using FOR, IF, ELSE, ELSEIF and their ladder structures.
5. Performing matrix calculations and using various operations on MATLAB.
6. Solving engineering problems in MATLAB with ease.
7. Plotting and editing 2D and 3D plots, graphs, etc.



## Electronics and Telecommunications Department

### Circuit Mania (7th June 2022)

ETAS (Electronics and Telecommunication Association of Students) arranged a minor project exhibition "**CIRCUIT MANIA**" in CT-10 of the Electronics and Telecommunication Department on 07 June 2022. In this exhibition, 3rd-year students prepared, explained, and displayed their minor projects. This exhibition was arranged for the 1st and 2nd-year students, to get knowledge about how the projects are built and executed. There was a huge response from all three years. 1st and 2nd year students interacted with the 3rd year seniors about how they made the projects and what were the requirements for the completion of the projects during the exhibition by asking various questions related to projects. Towards the end of the program the winners were announced. At the time of conclusion, team proposed their gratitude towards Head of Department **Dr. P. R. . Deshmukh** and **Prof.R R. Harne**(ETAS Faculty In-charge), 3rd year ETAS Convenor **Sarthak L. Khandagale** and the students present over there for their support.



## Placement Guidance (3rd June 2022)

ETAS (Electronics and Telecommunication Association of Students) arranged a interaction session in CT-10 of Electronics and Telecommunication Department on 3rd June 2022 at 2pm. In this session recent pass out student of the department **Mr.ANUJ TELKHADE** guided about the placement, How to develop resume effectively and a lot more. This workshop was arranged especially for the first, second and third year students, to guide them for the upcoming events like placements, interviews and company environment. There was a huge response from all the three years, they interacted with Anuj during the entire session by asking various questions related to topic. At the time of conclusion Anuj proposed his gratitude towards Head of Department **Dr. P. R. . Deshmukh Sir** and **Prof.R.R.Harne** (ETAS Faculty In-charge), 3rd year ETAS Convenor **Sarthak L. Khandagale**, 1st and 2nd year convenors and the students present over there for their support.



## Career Guidance (29th July 2022)

An enlightening session of career guidance was conducted by respected HOD of Electronics department, **Dr. P. R. Deshmukh Sir** was by ETAS on 29th July 2022. The session began with heartfelt welcome of Deshmukh Sir by **Prof.R.R.Harne**. Afterwards, the 2nd year co-convenor of ETAS, **Sukhada Mohod** welcomed Harne ma'am. **Saurabh Patil** translated the motive of the session in brief and requested the HOD Sir to share his valuable words of wisdom.

HOD Sir warmly greeted everyone and highlighted the importance of learning. He exaggerated on the need of basics. "**Clarity of basic concepts helps you excel in any career you choose.**". He also explained the advantages of core electronics job. He answered the queries of the students and also shared his personal experience as a student and as a faculty. He shared stories of few of his students as to elaborate some of his points.

The session ended with the satisfactory response of students. 2nd year ETAS convenor **Saurabh** thanked HOD Sir for his much-valued time and concluded the session.





On 06 Jan 1674, Chhatrapati Shri Shivaji Maharaja was enthroned at Raigad. It is an important day in the public welfare swaraj of this great man Shiv Swaraj Abhishek Din. This day inspires the independence and sovereignty of Swarajya. In order to emphasize the importance of such day, on June 6 "**Shivswarajya Day**" is celebrated. Accordingly, on Shivaswaraj Day in the Government College of Engg. Amravati, various activities were organized to celebrate. Department of Electronics and

Telecommunications, "Madhatipar of Chhatrapati Shri Shivaji Maharaja's Gadakalli "Photography and Laghput exhibition" was organized. The exhibition was organized by the Department in ET - 10 and was conducted in this classroom. Guest of honor **Shri Avinashji Kothe**, Hon. Principal Incharge, **Dr. G. A. Dhokane, Dr. D. V. Rojatkar, Prof. R.V. Mante, Prof. A. M. Shah** Inaugurating the program in the presence of chief guest. Short films produced by the students under this program were presented and certificates by dignitaries were distributed. A total of 184 students of the institute registered their presence in this program. The program was organized by **Prof. N. G. Pardesi** and **Prof. R. R. Harne** and it was conducted successfully.

## Bhagyashri Gajanan Tekade

International Journal of Creative Research Thoughts is hereby awarding this certificate to Bhagyashri Gajanan Tekade In recognition of the publication of the paper entitled TO DEVELOP A NOVEL METHOD FOR COVID-19 PNEUMONIA IN LUNGS WITH GENERATION OF APPOINTMENT Published In IJCRT ( www.ijcrt.org ) & 7.97 Impact Factor by Google Scholar. Volume 10 Issue 6 June 2022, Date of Publication: 24-June-2022

## Paper Publication by PHD Scholars

**Roshan G. Belsare**, Devrankar Sir: research paper titled "Pragmatic evaluation of privacy preservation & security models targeted towards fog-based deployments", submitted to SN Computer Science journal in julyx2022 and is under review.

**Himanshu V. Taiwade**, Devrankar Sir: Research paper titled "Statistical Analysis of Blockchain Models from a Cloud Deployment Standpoint" has been accepted for publishing in Scopus indexed Springer LNNS.

**Ankush Deshmukh**, Devrankar Sir: Rsearch paper titled "A pragmatic study of machine learning models used during data retrieval : An imperial perspective " has been submitted to CIS springer conference scopus indexed 2022 and is under review.

## ETAS magazine inauguration (7th June 2022)

On this day, ETAS reached its new milestone. It successfully launched its own magazine, '**ETAS Magazine**'. This occasion took place in ET-10 at 1 pm. The chief guests were Honourable Principal **Dr. A. M. Mahalle**, Head of the department **Dr. P. R Deshmukh**, founder of ETAS **Dr. D.V. Rojatkar**, Etas faculty in charge Prof. Radhika Harne, along with other faculty members **Prof. A. M. Shah**, **Prof. Neha Pardesi**, **Dr. S. S. Thakare**, **Prof. Shweta Meshram**. The program started with the warm welcome of all the chief guests. It was hosted by **Rohit Keole** (3rd-year)

The magazine was inaugurated by the Principal and the Head of the department in the presence of other guests and students, which was a much anticipated moment for everyone. It was followed by disquisition by the chief guests, starting with the principal, then, the ETAS founder, Dr. D.V Rojatkar Sir.

This entire program was viable due to countless efforts of ETAS faculty incharge **Prof Radhika Harne** and the Magazine committee ( **Gaurang Deshpande** (Convenor) ; **Sarthak Khandagale** ( Convenor 3rd year); **Prathamesh Bhonkhade**; **Radhika Bakare**; **Abhishek Patwardhan**; **Pranav Thakare**).

## NBA Visit (20th August 2022)

Visit to Central Facilities: NBA Expert Committee, Principal, Dean Academics and NBA Coordinators visited to Centralize Computing Center at Department of Computer Science & Engineering.



## Smart India Hackathon (25th August 2022)

A team of **6 participants of 2nd yr CSE** got selected for grand finale of smart india hackathon 2022. And they built a unified form of database that can search text within any form of file such as jpeg,png,word,excel etc using **inverse indexing,multithreading and tesseract model for image processing**.

The team members were:  
Dipesh Marathe  
Anurag Hagawane  
Omkar kanchalwar  
Sarthak Chandurkar  
Snehal Bharsakle  
Arti manputra



## Computer Science Department

### Paper Publication by M.Tech students

#### Ms. Sayali Mahulkar

She has participated in the Two Days Online International Conference on Recent Trends and Advancement in Science, Technology, Commerce & Management- 28th & 29th June 2022 Organised by Sanjivani College of Engineering, Department of MBA, Kopergaon, Maharashtra, India in Association with Jordan River University, USA.

## Information Technology Department

### Shiv Swarajya Divas (6th June 2022)

The program was hosted by the department of Information Technology under the guidance of **Prof.A.D. Wankhede** along with a team of 15 student coordinators from IT itself .**Rangoli and Poster making competition** were organized The whole program was a grand success and the presence of respected principal sir and all other respected faculties made it more successful. All the participants got participation certificates and best performers got the rank certificates.





Dept. Of Instrumentation Engineering had an mentoring session organised for the students of second and final year under IESA (Instrumentation Engineering students Association) The session was organised under the supervision of **Prof. S. P. Bijwe** , Topic for the session was “ **Self Branding** ” by **Ms.Aradhana Joshi** she guided the students **how to resume the corporate life after break ,whether the break was taken for educational or personal purpose**, many of us find it difficult to resume the professional life after having short term or long term break in career. She instructed them how self branding can open a pool of opportunities for us and how this Self Branding can a give a boost to careers in various sector. Our students got motivated and inspired by the journey of Ms. Aradhana Joshi mam . At last we thanked HOD Instrumentation Dept. (Prof Dr.G.G.Bhutada), IESA faculty coordinator (**Prof. S.P.Bijwe**) and Students for successfully carrying out the event .



## Faculty Development Program

Convener: **Prof. A. W. Bhade**, Head of Department, Department of Information Technology, GCOE, Amt

Coordinator: **Prof. S. R. Wankhade**, Assistant Professor, Department of Information Technology, GCOE, Amt

### OBJECTIVES of FDP

- 1: Understanding of the underlying concepts of Machine Learning.
- 2: To appreciate use of Machine Learning in different domains in research / real life.
- 3: Learning basic practical skills to apply simple Machine learning tools.

## Instrumentation Department

### Projects selected under Ignited Innovators Of India

#### Solar Tracking System with MPPT-

The project aims to design such a Dynamic Solar Energy Tracking System which absorbs maximum solar radiation using 555 IC and LDR sensor which will regulates output and motion of solar panel in the direction of sun. We will use a concept of single axis and MPPT which will be economical and increases efficiency and power output. The idea is intellectual but the concept is general. The aim is to make people aware of significance of renewable resources.

#### Motor Operation (SCADA+Arduino).

The aim of this report is to show how DC motor can be controlled by using a PID controller in LabVIEW. DC Motor will be interfaced with LabVIEW using an Arduino UNO Microcontroller. To show integration of IoT with SCADA will help to analyze data in more advance way rather than just collecting it. To show technique for how an Arduino UNO can be interfaced with SCADA software via Arduino OPC Server to develop Arduino based SCADA project.

## Session On – Self Branding

( 25th August 2022)



## IE & ISTE

### Expert Lectures

ISTE Students Chapter of Computer Science and Engineering Dept. organized Expert Lecture on **IT Industry Orientation-The Untold Facts** conducted By **Er. Sanket Shiralkar** presently working in techno. firm prior to associated with FIS Global, TCS and BNP Paribas etc. Faculty Incharge **Prof. Naresh G. Gadge** coordinated this activities.

ISTE Students Chapter of Computer Science and Engineering Present Expert Lecture By **Pravesh Jamgade PhD student at IIT Ropar**

Topic: Computer science: a way to solve engineering problems. Expert Lecture Organized by Prof. Naresh G. Gadge In-charge ISTE Department Computer Science and Engineering.



## Technical Quiz (1st August 2022)

Conducted Technical Quiz Competition for 1st, 2nd and 4th year students under ISTE Students Chapter of Computer Science and Engineering Department.





## Celebration of World Environment Day (9th June 2022)

Celebration of **World Environment Day 2022** was held by Civil Department under **IE (I) Student's Chapter, Government College of Engineering Amravati & Indian Water Works Association Amravati Centre**. **Dr. Sangeeta Pradeep Ingole** (Assoc. Prof. & Head, Dept. Of Environmental Sciences, Shri Shivaji Science College, Amravati) was invited as a **guest speaker** who gave an informative talk on the topic '**Critical Role of Environmental Sciences in Sustainable Development**'.

**Prof S. P. Tak** (Faculty I/C, I.E (I) Student's Chapter (Civil Dep.) hosted the programme. **Principal Dr. A. M. Mahalle**, **Er. A. W. Jawanjal** Hon. Secretary of IWWA Amravati Centre, **Er. A. M. Mokadam** Chairman of IWWA Amravati Centre, **Er. S. J. Deshmukh** Hon Secretary of I.E (I) Amravati Local Centre, **Er. P. R. Khawale** Chairman of I.E (I) Amravati Local Centre & **Dr. S. P. Taterwar** HOD of Civil Dep were also present. All the students of Civil Department attended this event which went smoothly.



## Essentials to Get Industry Ready (4th August 2022)

Expert Lecture on "**Essential Skills to Get Industry Ready**" was organized under the **IE (I) Students' Chapter** on 04th August 2022.

Under the guidance of **Dr. R. B. Sharma sir** Faculty coordinator (EED). **Mr. Sumedh Avadhare**, Founder Director at **Pragma Engineers** was the Expert Lecturer on the topic "**Essential Skills to Get Industry Ready**". Inauguration of the program was done by the **Hod Dr.G. A. Dhomane sir** along with **Dr. V. M. Ghate sir** and **Prof. P. P. Bedekar sir**. The main motive of the lecture was to make the students aware of the skills they need to have to land at a good position and job in today's industry.

### Program Outcomes

#### 1. The Market Trend:

- Industries nowadays require skilled individuals for their jobs which we need to learn apart from academics.
- Scope of different sectors and skills in the upcoming market.

#### 2. Gap/Opportunities:

- Jobs in the industry require proficient skills and they are also highly paid while the jobs in the colleges don't require much skill and also the pay is low.
- New generation has the advantage to choose from many career paths.

#### 3. Framework:

- There is no formula or holistic approach to learn.
- In schools, we learn independent concepts but we never use them separately.



## Expert Lecture (4th June 2022)

Speaker: **Pallavi Bidwe**

Data Analytics Engineer, Excelr Solutions Pune

Topic: Introduction to Python Programming



## Overseas Education

(4th August 2022)

An Expert Lecture was arranged by the Institute of Engineers (Students Chapter), With permission of Respected **HoD Dr. R.S. Dalu Sir** and assistance of Faculty Incharge **Prof. N.D. Solanke Sir** Dept. Of Mechanical Engineering on 4th August 2022. The Topic of the lecture was Overseas Education: Awareness & Opportunity. The Experts **Prajakta Kale ma'am** and **Ashwin Alsi Sir**, Directors of '**Proefficient Test Prep & Abroad Solutions**' which is a small team of alumnus from the university of Illinois, Chicago and Northern Illinois University who has set up the institute with an Objective to help students achieve their dreams and pursue their masters abroad in the best possible University/program. The lecture covered the Advantages of pursuing Higher studies abroad in depth and in the presentation they also acquainted students with the procedure they need to follow to get into some of the worlds reputed universities. The basic information about several exams like IELTS, TOEFL, GRE and GMAT was also covered. All in all it was a knowledge packed and energetic Session that helped students get insight about Opportunities they had in Overseas learning. All students attended the Session.



## How to Prepare for GATE Examination (20th August 2022)



Dept. Of Instrumentation Engineering had a mentoring session organised for the students of second and final year under IE student chapter . The session was organised under the supervision of **Prof. S.P.Bijwe**, Topic of the session was "**How to Prepare for GATE Examination**" by **Mr. Devashish Fadnis** , he guided the students by telling the way to prepare for gate for electrical and instrumentation domain. He also reflected light on important aspects of GATE Examination and how it is beneficial. He also told important subjects to prepare and monthly time table. Everyone was thankful to IE for organising this session on such an untalked topic .Our students got motivated and inspired by the journey of Ms.Devashish Fadnis sir. In the end, vote of thanks was given to the HOD of Instrumentation Dept. (**Dr.G.G.Bhutada**), IE student faculty (Prof. S.P.Bijwe) and Students for successfully carrying out the event .





## Corporate Communication Skills (5th August 2022)

IE and ISTE team of Electronics and Telecommunication department conducted an interactive one-day workshop on '**Corporate Communication Skills**' by **Prof. Pinki Khandelwal** (Board member of Study, Director at Khandelwal English Hub) at ET 10 classroom at 1 pm. The event commenced with the welcome of mentor Prof. Pinki Khandelwal Ma'am by **Prof. Neha Pardesi Ma'am** (Faculty Coordinator of IE/ISTE) by sapling as a token of love and warmth.

The program was hosted by **Miss. Shravani Bhuyar**. She introduced the guest speaker to the audience and handed over the command to the speaker.

Prof. Khandelwal greeted the students and started the interactive session. It was followed by some fun activities where the audience was asked to perform roles of employees and act likewise. In the second part of the session, Pinky Ma'am presented the correct way of preparing a resume and creating emails in corporate sectors.

The program was concluded by making students understand certain vocabulary to be used frequently. Overall, Vote of thanks was delivered by **Janhavi Kharpache** from 2nd Year. The entire workshop was successful because of countless efforts of IE and ISTE faculty incharge Prof. Neha Pardesi and the IE and ISTE team.



## MOVIE MAKING COMPETITION (8th-25th August)

Movie making competition for all of the GCoE Amravati students has been organized successfully under **Instrumentation Engineering Department**. The Competition was organized Between **8th Aug - 25th Aug 2022** till 10 AM. All volunteer participants were required to submit their movies by mentioned deadline with instructed Rules. The competition was conducted by departmental Indian Society for Technical Education student chapter council committee during academic year 2022-23. Four participants had participated in the competition. The top three winners were awarded with cash prizes. Prizes were as follows: First Prize: Rs. 1000/- Second Prize: Rs. 750/- Third Prizes: Rs. 500/-



## Instrumentation Industry and Ethical Engineering Practices (29th August 2022)

Department of Instrumentation had a Mentoring session organised for the students of second and final year under IE(Institute of Engineer) Student chapter. The session was organised under the supervision of Prof. S. P. Bijwe. Topic for the session was "**Instrumentation Industry and Ethical Engineering Practices**" by **Mr. Manish Tapase**. He guided the student about the importance of market strategy making and its importance in business industry. He also guided student about the startup and how to find the niche to build a startup and to make it successful. He flashed light on what are the difficulties we face and how to overcome it. There were many questions from students and he gave practical answers to all of them sorting their difficulties. We are thankful on behalf of students to IE for organising this session. Our students got motivated and inspired by the journey of **Mr. Manish Tapase** Sir. At last we thank HOD Instrumentation Dept. **Dr.G.G.Bhutada**, IE student faculty **Prof. S. P. Bijwe** and students for successfully carrying out the event.



## PLC Training Program (6th August)

The center of excellence lab for Instrumentation department prides itself of being equipped with the latest State - of - the - Art equipment on PLC Scada; Pneumatics, and Sensorics. The center is designed to cater to the needs of the B.Tech Instrumentation students with the present day industries going in for large scale automation. The working of this center will expose the students to different aspects of automation and to improve their knowledge in pneumatic drives, logic circuits and sensor technology. The center will function on the concept of Industrial environment in the Institute by providing hands on training to the students in different fields of automation. To understand about the basics of PLC Scada, ISTE- Student Chapter Council of Instrumentation Engineering Department organized a one-day workshop on **PLC training program**. The speaker for the training program was **Mr. Vaibhav Deshmukh**, student of final year Instrumentation Engineering. The program was organized on **6th August 2022** at Center of Excellence lab at Instrumentation Department. The program was conducted smoothly under the guidance of Prof. S. P. Bijawe and Hod **Prof. Dr. G. G. Bhutada**.



## PREPARATION FOR MS IN DIFFERENT UNIVERSITY (29th August 2022)

Studying a Master's degree in abroad can be one of the most thrilling experiences in one's personal and professional life. But making this choice isn't exactly easy, especially when other options like studying in your home country or online studies are available. To make this decision easier ISTE- Student Chapter Council of Instrumentation Engineering Department had organized a seminar on Preparation for MS in different universities. The seminar was held on **29th August 2022** at Instrumentation Engineering Department for the final year students of GCoE Amravati. The speaker for the seminar was **Mr. Mayur Khadse**. He is alumni of this institute, 2019 pass out student of instrumentation engineering. The seminar was then followed by an amazing Q&A session for the final year students by the speaker. The seminar was conducted smoothly under the guidance of **Prof. S. P. Bijawe** and **HoD Prof. G. G. Bhutada**.



## Faculty Achievements

### Dr. Kishor Wagh

- Delivered **expert lecture** on **Machine Learning** in Short term training program
- Two papers are presented in **scopus indexed conferences**

### Dr. S. P. Tatewar (HOD Civil Dep)

-Worked as an **expert** for **BOS at GCOE, Jalgaon** on April 29, 2022.

-Worked as **judge** for **Annual National Project Competition, Startup & Business Plan Competition SGBAU Startup Fest 2022** on May 5-6, 2022.

### Prof. Archana Bhade

"Comparison of Preprocessing and Feature Extraction Techniques for Alzheimer Detection using MRI Images" in (CCICT-2022 IEEE conference) on (8-9 July 2022), DOI 10.1109/CCICT56684.2022.00020, Archana W. Bhade





## Robo -Tech Forum (13th – 19th July 2022)



The ROBO TECH FORUM (RTF), is one of the few technical clubs in our college. It is a platform that kindles the student's curiosity to learn.

The main Motive of this club is to participate in DD-ROBOCON Competition every year. This year the Organising country for the International Competition of ROBOCON 2022 in India came with the Game theme of Lagori. For this purpose, they have created two Semi-autonomous Bots, mechanically it is manufactured by Amit Kendre, Niraj Thakre, and Muskaan Jaiswal and Electronically controlled by Aniket Yenpreddiwar, Sriшти Golchha, and Mayur Kandalkar, with the support of team leader **Nikesh Mankar** and under the guidance of **Vaibhav Shende**. The Team Robo-Tech Forum has represented our college in the National Competition of DD ROBOCON held at Tyagraj Stadium, Delhi (13 – 19 July 2022). Team RTF won the league match against Dwarkadas Jivanlal Sangvi College of Engineering, Mumbai with a score of 30 points, and the Group also with an aggregate score of 30 points. The Robo-Tech Forum has participated in Fusion 360. Niraj Thakare prepared the CAD models under the guidance of **Amit Kendre** and acquired a very good rank in the top 14 teams to make the cut.

In the Aeronautical sector, RTF successfully developed many projects like Tricopter, Quadcopter, RC-Trainer, VTOLA and other Multirotor and Planes, etc, carried out in RTF by the Aeronautical head **Prathamesh Kalaskar** and team member Ayush Patorkar. Recently the team is also working for the MATLAB Minidrone competition, which was organized by MathWorks. Team Robo-Tech Forum also participated in ROS i.e. Robot Operating System. The team participated in the Micromouse competition in Techfest, by IIT-Bombay. Our team members Dhanashri Dhandhare and Mayur Kandalkar participated under the guidance **Aniket Yenpreddiwar**. Also, the team will be participating in the IIT-Bombay Techfest 2022 for various competitions like Cozmo-Clench, Meshmarize, Micromouse challenge and AL-VTOLA.



## Photography Club GCOEA (21st August 2022)

The purpose of this photography club is to appreciate the art of photography and share our love for it. All students are more than welcome to join, and no previous photography experience is needed. All you need is an interest in photography and a willingness to share and learn with us! We will learn much more about photography together and generate interest for the whole college by hosting photography competitions.

A photography contest was organised by GCoEA Photographers club in collaboration with Annual College magazine of GCoEA. Students were given one hour to photograph around the campus. The response for the contest was very good and it was really nice to see students taking active part in extra-curricular activities like photography. The competition was arranged by **Shashank Nasre** from 2nd year Civil and was guided by **Shaunak Sakhare** Final yr CSE head of GCoEA photographers Club and **Puneet Kharche**, Co-Editor of Arts and photography section of the Annual college magazine.



## Entrepreneurship Cell GCOEA (Estd-28th July 2022)

E - cell GCoEA believes in creating a self-sustaining system, thus we encourage students, inventors and entrepreneurs to learn, observe and create a solution driven business. The developed products or services must be effective, efficient and highly sustainable. Our E-Cell mainly focuses on supporting social impact startup, sustainable technology startup, product and services based startups.

In our E-Cell the model we are planning to adopt for providing funds and resources to startups is a self-sustaining model in the long term. In this model both R&D base startup and Business startup can get seed funding. This seed funding can be recovered back in the form of royalty from R&D base startups and ten times return amount from business startups. In this E-Cell there will be another group named as 'Learners' consisting students who want to work in startups to gain experience. E-Cell will act as a platform for these learner students to learn and test their new skills. This learner group will be the main human resources of E-Cell that can be utilized by the incubated startups as per their requirement. Thereby E-Cell will create an environment for students and entrepreneurs to learn, observe and create their business ideas to create a positive impact towards society.

### Vision

To create a self sustaining system by nurturing and supporting the entrepreneurship mindset.

### Mission

To empower students to learn, observe and create their business ideas thereby creating a positive impact towards society and inculcating the attitude of entrepreneurs.

### Startups

**Bottleworld** : A startup which provides refilling service for FMCG cleaning products

**ISE** : A platform which gives initial funding for startups from public and small investors in return for some percentage of equity.

**Sehej** : A social startup which provides caretaking services for the elderly in the form of companionship.

**Meta-Sip** : A mutual fund set up for cryptos and other blockchain assets like NFT.



## ART Club GCOEA (24 June 2022)

An Aura of Arts event was organised by Art and Craft and Value Education of Govt. College of Engineering Amravati to provide opportunities for the creative minds of our college. The guests for events were Prof. S. R. Waghmare, Prof. N. G. Gadge and Prof. S. P. Bijwe. **Prof. A. W. Bhade** and **Prof. K. A. Waghmare** were the faculty incharge for the event. Committee organised many competitions in the event like T-shirt painting, Face painting, Sketches and Rangoli making. In events there were more than 35 participants and Many innovations were contributed by the students. Guest selected 4 winners from each competition as follows :

1. Sakshi Bhoyar in Rangoli making
2. Achal Tarale in Sketch Art
3. Nilesh Pinjarkar in Face Painting
4. Ayush Pande in T-Shirt painting.

Students took part in the event with great passion and vigour to learn skills and have also gained insights and experiences which will help them grow and excel in their lives. The program had successfully conducted due to efforts of convener of the event **Ashish Kakne**, **Co-Conveners Zeba and Shriyukta** with other committee members. The winners were awarded trophies in the ZENITH which encouraged others too to participate in such forecoming events.



## “Role of Education in Holistic Development”

**Chief Guest: Dr. Umesh Jadhav** (25th July 2022)

An event was conducted on 25 July, 2022 in Government College of Engineering Amravati under Students Council GCOEA. **Dr. Umesh Jadhav Sir** holds Master's degree in Tourism Administration and pursued PhD work on “Socio-Economic impacts of Tourism on local residents of Paro, Bhutan”. The Session commenced with a presentation, during the presentation sir was mainly focused on the Universal Human Values. The whole session was about important roles of UHV. Dr. Umesh Jadhav Sir gave an example and said, when a child enters in a school, his/her behavior depends on the home culture that is the family circle. The entire event was anchored by **Dr. S. S. Thakare Ma'am**. Faculty coordinator **Dr. M. V. Jape Ma'am** along with a team of student coordinators took remarkable and genuine efforts to conduct this event in a perfect manner. The program continued for 2 hours and it was concluded with a Vote of Thanks delivered by **Dr. P. P. Bedekar Sir**. The event was attended by the trained faculties of “Universal Human Values” from all colleges in the Amravati region and showed active participation in the event. The event was a grand success.



## “Har Ghar Tiranga” Speaker: Dr. Sunil Sadashiv Ingale

(10th August 2022)

An event on the occasion of 75th Independence Day was conducted on 10th August in Government College of Engineering Amravati under Students Welfare Association to celebrate the “Azadi Ka Mahotsav”. The event was hosted at Civil A.V Hall in the presence of **Dr. A. M. Mahalle Sir**, honorable Principal of GCoEA. Chief guest **Capt. Dr. Sunil Sadashiv Ingale Sir** along **Paikrao sir** and **Mante sir**. Students and their parents were also present for the program. To demonstrate the program and for spreading awareness about “Har Ghar Tiranga” Campaign, a presentation was made by students of college. Everyone appreciated their efforts and congratulated them. We also appreciated Commonwealth Game Players for their great Performance at Birmingham 2022 Commonwealth Games. Capt. Dr. Sunil Sadashiv Ingale enlightened everyone with his incredible thoughts. The entire event was anchored by **Jaydeep Gedam** from 2nd Year IT and **Prajwal Deshmukh** from 2nd Year Civil. **Abhiruchi Korde** from 2nd Year CSE shared her views on the program. Event coordinators **Paikrao Sir** along with a team of faculty and student coordinators took remarkable and genuine efforts to conduct this event perfectly. The program was concluded with a Vote of Thanks delivered by **Rutam Pimplapure** from 4th Year Mechanical. Students from Second Year and Final Year showed active participation in the session. The event on the occasion of “Har Ghar Tiranga” Campaign was a grand success.



## “Indian Armed Forces: A Way of life”

**Chief Guest: Major Abhishek Dhok**

An event was conducted on 26th April in Government College of Engineering Amravati under Students Council GCOEA to averse the students with the way of life in the Armed Forces. The program was commenced by welcome of our chief guest by **Dr. M. V. Jape Ma'am** and other dignitaries on the dias were welcomed by each other with a flower and gift, followed by the Introduction of Chief guest by Shruti Deshmukh from 3rd Year IT. **Maj. Abhishek Dhok Sir** has served in Indian Army for more than 12 Years and currently posted to Army HQ at Sena Bhavan, Delhi. The Session was on the topic “Indian Armed Forces: A way of life”, Sir had prepared a presentation for the Session. The entire event was anchored by **Rutam Pimplapure** from 3rd Year Mechanical and **Shruti Deshmukh** from 3rd Year IT. Faculty coordinator Dr. M. V. Jape Ma'am along with a team of student coordinators took remarkable and genuine efforts to conduct this event in a perfect manner. The program continued for 2 hours and it was concluded with a Vote of Thanks delivered by Rutam Pimplapure from 3rd Year Mechanical. Students from All Years and Branches showed active participation in the session. The event was a grand success.



## “Nirman Session” Speaker : Mr. Amrut Bang

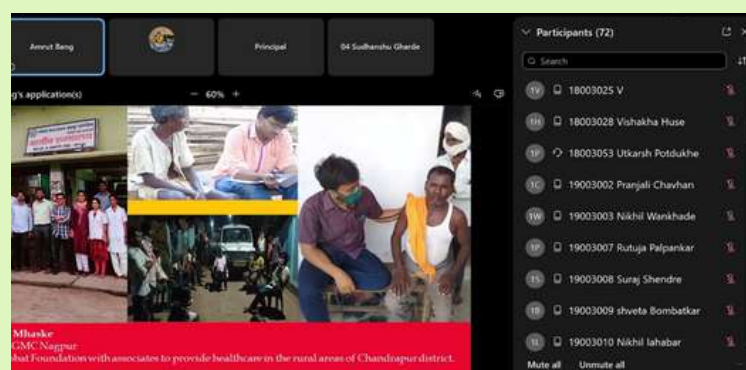
(18th August 2022)

An online webinar by honourable **Amrut Bang** was conducted on 18th August in Government College of Engineering Amravati under the Student Council. The session was inaugurated in the presence of **Dr. A. M. Mahalle**, Honorable Principal of GCoEA. Anchors of the program welcomed everyone and gave a brief introduction to Bang Sir.

### Program Outcomes:

1. Learned various problem-solving techniques.
2. Framework of the NIRMAN.
3. Opportunities and Guidance offered by the NIRMAN.
4. Using core knowledge in different fields.

The entire event was anchored by **Radhika Bakare** from 4th Year ENTC and **Rutam Pimplapure** from 4th Year Mechanical. In charge of student welfare, **Dr. M. V. Jape Ma'am** along with a team of faculty and student coordinators took remarkable and genuine efforts to conduct this event perfectly. The program continued for 1.5 hours and it was concluded with a Vote of Thanks delivered by **Pranay Khandelwal** from 4th Year Electrical. Students from Second Year and Final Year showed active participation in the session. The online webinar thus turned out to be a grand success.







## SSB Experience (14th August 2022)

"The only source of knowledge is experience." As rightly quoted by Albert Einstein, the NCC cell of the Government College of Engineering organized an **SSB talk** by experienced cadets.

The session was organized on 14th August 2022 wherein Cdt. **Rutam Pimplapure** and Cdt. **Rahul Agarkar** shared their SSB experiences.

First of all Cdt. Rutam Pimplapure presented all 4 SSB experiences with very minute details and self-explanatory photographs. He explained all the technical details with many funny incidents. After this Cdt. Rahul Agarkar also shared his SSB experience. He clarified many doubts of students and gave tips for fellow aspirants.

The talk not only motivated all the cadets to join the armed forces but also ignited feelings of patriotism among us.

This session was truly fruitful while we are celebrating **Azadi Ka Amrut Mahotsav**. The session commenced with a self-promise made by everyone to contribute something or anything towards nation-building.



## Combined Annual Training Camp (20th-29th June 2022)

Combined Annual Training Camp (CATC) camp was conducted at **8 Maharashtra Battalion NCC Amravati** from **20-06-2022 to 29-06-2022** and 5 Cadets from Government College of Engineering Amravati participated in this camp. It was along with the cadets of 47 MAH BN NCC YAVATMAL. The focus of the camp was to train cadets to be prepared for Best Cadet Selection. Cadets trained for **Firing, Drill, Written Test as well as Personal interviews**. It was a great learning experience that imbibed in us the values of Unity and Discipline.

## Maharashtra Day (1st May 2022)



Every year **Maharashtra day** is celebrated on the 1st of May to celebrate the statehood, legacy and culture of Maharashtra. It is one of the prime events of the College which is celebrated every year with full enthusiasm. This year too the college with all its NCC cadets, well dressed and prepared, celebrated the event in josh.

The chief guest for the event was our honourable Principal **Dr. A. M. Mahalle Sir**. The commander for the event was Cdt **Vaishnavi Talan** with 2 Sargents CDT **Rakhee Shionkar** and CDT **Nisha Singh** and 13 other cadets. The students and staff were asked to assemble in the admin garden at 7.30 am for the flag hoisting ceremony. The event started with the unfurling of the tricolour by our chief guest. It was then followed by the Salute to the national flag with utmost patriotism in the souls followed by the National Anthem. The event was conducted smoothly by all the NCC cadets which were guided by **Dr. S.A. Lohi sir**.



## Annual Gathering Zenith 2022

(28th- 30th June 2022)

The most awaited annual and social gathering of Govt. College of Engineering, Amravati, **Zenith** for the academic year **2021-22** became a memorable event in the history of the college. Principal, **Dr. A. M. Mahalle**, Vice President Gymkhana, **Prof. R. V. Mante**, Faculty In-charge, **Prof. R. H. Sarda**, Gathering Secretary, **Mr Ankush Tayde** from 4th year Civil and Joint Gathering Secretary, **Miss Shruti Wadgaokar** from 3rd year EXTC were the backbone of the event. The decided date turns out to be the **28th and 29th of June**, the venue being **Sangeet Surya Keshavrao Bhosale Hall** for the two days program and 30th June for lunch, the venue being Jijau Girls Hostel for Faculties and all non-teaching staff, New Girls Hostel for all girls, Seminar Hall CSE Dept and College Canteen for all boys and Jijau Girls hostel for all workers and guards.

For Day 2's Prize Distribution Ceremony, **Karan Pareek Sir**, Social Media Manager at Amravati Municipal Corporation- the local governing body of Amravati city, Skills trainer at Leap Skills, Delhi, Special Advisor and Board Member at the Zenith Order, Former journalist at Nation Next. was decided as the Chief Guest. Various events under Zenith Expression were conducted to make students enthusiastic about Zenith. Various days like **Black Day, Formal Day, Group Day and Traditional Day** were also organized to make a vibe of Zenith throughout the campus. Students gave a tremendous response to making these days colourful. The traditional day became a hit. Students expressed their traditions by their attire and clicked photographs throughout the campus. And finally, the day arrived. The ribbon-cutting ceremony took place and the Principal in charge **Dr.G.A.Dhokane** entered the hall along with the Faculty in charge and the Vice President of Gymkhana,

And the program started with the Saraswati puja done by the dignitaries present on the dais. Also, Inaugural Song and Dance are performed by students. The following structured events, Non-Departmental Dances showing the dancing talent of GCOEA, mesmerizing Dramas performed by the talented students giving moral values, Drama of GCOEA, Rosetime, Sugam Sangeet- Gandharva made the more interesting when faculties performed songs with their melodious voice, ending Day 1 with the most awaited event, Spirit of GCOEA which brought goose bumps to all.

The prize distribution ceremony took place where the awards were given away to the best sports player, Secretaries of Gymkhana, winners of various events under zenith expressions, Aura of Arts, NonDepartmental Dances, Sugam Sangeet, Departmental Dances, Drama, Drama of GCOEA, Spirit of GCOEA, Gymkhana -Inter class and Inter-Departmental sports events by the hands of dignitaries present on the dais, Chief guest Mr Karan Pareek, principal in charge Dr.G.A.Dhokane vice president gymkhana prof. R. V. Mante, Faculty In-charge Zenith Prof. R. H. Sarda. Fishpond and a Variety of entertainment gave a delightful ending to the Day 2 evening. The event revealed many aspects of our culture to the students and faculties.





## Football



FOOTBALL tournament was organized for BOYS & GIRLS in which 7 departments participated in this event. Games were played in very sporting manner and in sportsmanship way in the duration of **24/06/2022 to 26/06/2022**. The final match of GIRLS FOOTBALL departmental was played between **Civil and Electrical** in which **Electrical girls won the match by 2-0**. The final match of BOYS FOOTBALL departmental was played between Civil and Electrical in which **Electrical boys won the match by 2-1**.



## Badminton



All the seven departments Boys and Girls showed their enthusiastic participation. The game format was such that each department had to send one team comprising 5 players who will play singles and doubles. The final match of Badminton boys took place on 26-06-22 between Civil Engineering And Computer Science Engineering Which **Computer Science Engineering Boys won**. On the other hand girls were never behind showing their love for the game and the results came in the favour of **Electronics was the winner of the final match** which took place between Electronics & Telecommunication Engineering Vs Civil Engineering.



## Volleyball



The departmental volleyball tournament was organized for BOYS & GIRLS in which all departments participated actively. The final match of GIRLS volleyball departmental was played between Computer Science and Electrical in which **Computer Science girls won by the set difference of 2-1**(points 15-9,7-15,15-11).The final match of BOYS volleyball departmental was played between Civil and Electrical in which **Civil boys won by the set difference of 2-0**(points 25-21, 25-16).



## Cricket



The departmental cricket tournament was organized for BOYS & GIRLS in which all the 7 departments participated. The final match of GIRLS Cricket departmental was played between Civil and Electrical in which **Electrical girls won the match**. Before the first match of BOYS cricket departmental, **Prof. K. Waghmare** sir of our college came to the Cricket ground to encourage the boys of both the team, and the final match of BOYS cricket departmental was played between Civil and Electrical in which **Civil boys won the match**.

## Indoor Games



For Chess, Individual entries for 7 departments for girls and boys were taken. The format of the Carrom game was such that each department had to send one team which comprises 5 players who will play singles and doubles.

- The final match of Chess Boys took place on **27-06-22** between Civil Engineering And Information Technology Which **Information Technology Boys won**.
- The final match of Chess Girls took place on **26-06-22** between Mechanical Engineering And Information Technology Which **Mechanical Girl won**.
- For Carrom Final for single boys match which held on **27-07-22** in between Civil vs Instru in which **Civil won**.
- For Carrom Final for single Girls match which held on **27-07-22** in between Civil vs Elpo in which **Elpo won**.
- For Carrom Doubles Final Boys match which held on **26-07-22** in between Civil vs Mech in which **Mech won**.
- For Carrom Doubles Final Girls match which held on **26-07-22** in between Case vs Etc in which **CSE won**.



## Training and Placement cell MAY-AUGUST

The training and Placement cell strives for the facilitation of placement-related activities in the institute like recruitment drives, the conduct of interviews, training for skill enhancement etc. The cell comprises of training and placement officer, one faculty member from each department and student coordinators from each department. The team works hard with full enthusiasm to conduct the recruitment drives smoothly. The Institute boasts of consistently good placement over the years. For the last three years, more than 90% of the students were offered lucrative postings by some of the premier software and engineering companies like **L&T, Reliance Industries Limited, Reliance Retail, Samsung Research India limited, Amazon, TCS, and Cognizant**. Training and Placement cell also conducts a comprehensive training programme for 120 Hrs to prepare the students in **soft skills, Aptitude and Interview techniques**. The institute is under the Premier Institute for the **Cognizant digital nurture 2.0** initiatives to transformative training and recruitment approach from 6 to semester onwards [Fourteen students selected]. The institute is registered with the AICTE internship portal where students can get internship opportunities. This academic year 200+ students are pursuing their internships in premier organizations.

## Student Development Programme

Sr.no.	Name of the Programme conducted	Duration
1.	SDP- Generic, Soft & Programming Skill Development Programme	July -August 2022

## Recent MoU Signed :

SR	Company Name
1.	Cesare-Bonetti International Pvt Ltd Nashik
2.	4A Financial Technologies ,Private Limited Pune
3.	Groplis Solutions Private limited Thane
4.	Scholiverse Educare Pvt Ltd Gurgaon (Internshala)
5.	Zen works solution Pvt Ltd Pune
6.	Lingot Meditech Private Limited ,Amravati
7.	Inventrom Private Limited (Bolt-IoT)Bangalore

## Placement percentage branch wise:- Till August 2022



## Online/Offline Seminar conducted for Higher studies:

iSchool Connect -Studying Abroad Made Esy 22 April 2022

iNfinity Academy -Career opportunities in Govt 17 May 2022





## Inauguration of Data Centre and Centre of Excellence (25th May 2022)

On 25th May, the inauguration of **Data Centre**, took place in presence of **Shri Udayji Samant**. Government College of Engineering, Amravati, along with DIVY IT Solutions, Pune, the industry partner had conceptualized for establishment of a Centre of Excellence in IoT-who is market leader in drives and control equipments. Inauguration of Center of Excellence in Department of Instrumentation and Information Technology was held on 25th May 2022 in the presence of Minister of Higher and Technical Education **Shri. Udayji Samant** with honorable Principal **Dr. A. M. Mahalle**, Head of The Instrumentation Department **Dr. G. G. Bhutada**, Head of the Information Technology Department **Prof. A. W. Bhade**, **Prof. S. P. Bijawe**, **Prof. H. P. Rewatkar** and **Prof. U. M. Thorkar**. 3rd year Students were also there for presenting the lab models to the honourable Education Minister and Principal Sir. The primary objective of this center is to produce trained manpower for IoT. This is a state-of-the-art training facility for Smart Home Control Platform with smart sensor, I/O link platform, industrial control with Servo and VFD drive development platform with IBOTICS interactive designer, Device management and administration. Upon establishment GCOEA will act as an independent center to cater the needs of the technical institutes like polytechnics, engineering institutes, and industries in this region specifically in Amravati Region. The Industry Partner DIVY IT Solutions, Pune then introduced SENSITAL PYT-Australia for collaboration in setting up of this center primarily to act as an enabler which will drive the various initiatives by leveraging the knowledge of industry, academics, government and start-ups to democratize innovation in IoT industry.



## Students' Extracurricular Activities

Pranay Khandelwal	July 2022.	4th year Electrical	INTERNSHIP AT CHANDRAPUR FERRO ALLOY PLANT-SAIL
Sarthak Raut	June 2022	4th year Instrumentation	INTERNSHIP AT COGNIZANT FOR FROM GCOEA JUNE 2022.
Mansi Shirbhate	8th June 2022	2nd year Computer Science	SELECTED AS A VOLUNTEER AT 44TH CHESS OLYMPIAD
Snehal Bharsakle	Aug-Sept	2nd year Computer Science	1. REGISTERED FOR NATIONAL ENTREPRENEURSHIP CHALLENGE CONDUCTED BY IIT BOMBAY 2. PARTICIPATED IN GRAND FINALE OF SMART INDIA HACKATHON 2022
Nirnay Chahande	July 2022	4th year Mechanical	INTERNSHIP AT CHANDRAPUR FERRO ALLOY PLANT-SAIL
Zeba	Aug 2022	2nd Year IT	GOT 2 GOLD MEDALS IN NCC CAMP IN AUG 2022 FOR 1. BEST CADET 2. BEST IN WRITTEN TEST
Aniket Patil	JULY 2022	4th year Electrical	BASIC TRAINING COURSE IN AJNI LOCOSHIDE, NAGPUR
Farhan Khan	July 2022	4th year Electrical	INTERNSHIP AT CHANDRAPUR FERRO ALLOY PLANT-SAIL

