



GOVERNMENT COLLEGE OF ENGINEERING AND RESEARCH, AVASARI KHURD

Affiliated to
Savitribai Phule Pune University
College Code-CEGP014980

“QUEST”

2023-24



Vision of the Institute

- Educational institution for Empowerment through technological excellence towards sustainable development

Institute Mission Statement

- Value based and demand driven education using best practices
- Promotion of research, innovation and entrepreneurship
- Commitment to sustainable solutions in service of society
- Capability to face local and global challenges

Principal's Message

Greetings!

As we turn the page on another academic year, it fills me with immense pride to see the vibrant tapestry of achievements and experiences woven into the fabric of our college magazine. The spirit of innovation, perseverance, and creativity that shines through these pages is a testament to the exceptional individuals who make Government College of Engineering and Research Avasari (Khurd) thriving institution it is today.



This year has been a year of significant milestones. We've welcomed a fresh batch of bright minds brimming with potential, witnessed our students excel in academics and competitions, and celebrated the dedication of our faculty who nurture and guide them.

We've inaugurated new facilities, launched groundbreaking research initiatives, and strengthened our ties with the community all contributing to a vibrant learning environment that fosters excellence in every domain. As a government college of engineering, we carry a special responsibility. We are entrusted with moulding the minds and shaping the futures of not just individuals, but the architects of tomorrow's. Remember, your journey extends beyond classrooms and laboratories. Embark on this adventure with open minds, embrace the opportunities that come your way, and don't shy away from challenges.

Let us leverage the power of collective intellect, push the boundaries of knowledge, and strive for solutions that benefit society. Let us, together, be the engineers who not only build bridges and structures, but also bridges of understanding and progress.

With immense pride and optimism

Dr. D. R. Pangavhane
Principal
GCOEARA

Faculty Co-ordinator's Message

I am delighted to extend a warm welcome to all of you to our college magazine, an outstanding creation by our talented and dedicated students. I want to congratulate the students of Government College of Engineering and Research, Avasari (Khurd) who have taken the initiative and made valuable contributions to this edition of the college magazine, Quest-2023-24. Magazines of this nature provide a platform for Engineering students to showcase their hidden talents, express ideas, and share thoughts through articles, poems, and reflections on life and experiences both within and beyond the college campus.

I extend my gratitude to our Principal, Dr. D. R. Pangavhane all Heads of Departments, faculty members, staff, student incharge, and contributing students for their immense support in making this magazine possible.

Thanks,

DR. Nivedita.P.Wagh
Magazine In-charge



Magazine Secretary message

Dear Readers,

It is an honour to present this year's edition of our college magazine! This magazine is a wonderful platform to showcase the creativity, talent, and achievements of our students and faculty. As the magazine secretary, I had the privilege of being part of this exciting journey. From gathering submissions to coordinating with the team, every step has been a learning experience filled with hard work and collaboration.

I am truly grateful to all the contributors, editors, and faculty members who made this magazine possible.

This magazine is a celebration of our college community and the amazing talents we have. I hope it inspires you, entertains you, and fills you with pride.

Happy reading!

Warm regards,

[Mayuri Vidhate]

[BE Instrumentation and control]

Magazine Secretary



Magazine Student Co-ordinator's Message

Dear Readers,

I am excited to share this year's college magazine with all of you!

This magazine is a collection of the hard work, creativity, and talent of our students and faculty. It reflects the ideas, stories, and achievements that make our college special.

Working on this magazine has been an amazing journey.

From gathering articles and artworks to editing and designing, it has been a true team effort. I'm grateful to everyone who contributed their time and talent to make this magazine possible.

I hope you enjoy reading it as much as we enjoyed creating it.

Let this magazine inspire you, make you think, and fill you with pride in being a part of our college.



Happy reading!

Warm regards,

[Tejashri Jagtap]

[BE Instrumentation and control]

Student and Magazine Coordinator

Dear Friends,

It brings me great joy to present this year's college magazine to you.

This magazine is a reflection of the creativity, ideas, and efforts of our wonderful college community.

Creating this magazine has been a rewarding experience.

From collecting articles, poems, and artwork to putting it all together, it has been a journey filled with teamwork and enthusiasm.

I am truly thankful to everyone who shared their talents and worked hard to make this magazine a reality.

I hope you enjoy reading it and feel inspired by the amazing contributions of your fellow students. This magazine is for all of us to celebrate and cherish.



Happy reading!

Best wishes,

[Megha Shrirame]

[BE Instrumentation and control]

Student and Magazine Coordinator

Index

Sr.no	Title	Page no
1	Club And Activities	8 - 22
	i. Hackathon club	
	ii. Robotic Research Lab	
	iii. Team CSAC	
2	The art section	23-33
i. Poems		
ii. photography		
iii. sketches		
3	The Articles	34-38
4	The Departmental Reports	39-110
i. Department Of Automobile Engineering		
ii. Department Of Civil Engineering		
iii. Department Of Computer Engineering		
iv. Department Of Electrons And Telecommunication Engineering		
v. Department Of Instrumentation and Control Engineering		
vi. Department Of Mechanical Engineering		





Hackathon Club Report

2023-24

Hackathon Club

Email: hackathon_gcoearagcoeara.ac.in

Website: <https://gcoearahackathonclub.netlify.app>

INTRODUCTION



The Hackathon Club of the Computer Engineering Department is more than just a student organization; it is a thriving ecosystem that nurtures the technical skills and innovative spirit of aspiring engineers.

The club serves as a platform for all engineering students, regardless of their year or specialization, to showcase and enhance their coding knowledge. Through a variety of club-organized courses, industrial projects, and competitive events like hackathons, the club offers students a unique opportunity to bridge the gap between academic learning and real-world application.

Mission:

The mission of the Hackathon Club is to empower students by providing them with the tools, knowledge, and opportunities needed to excel in the field of computer engineering. The club is dedicated to fostering an environment that encourages continuous learning, creativity, and collaboration. By organizing workshops, managing hackathons and facilitating industrial projects, the club aims to prepare students for the challenges of the tech industry and equip them with the skills required to be future leaders and innovators.

Vision:

The vision of the Hackathon Club is to be a leading platform in the college that not only cultivates technical expertise but also inspires a culture of innovation and entrepreneurship among students. The club envisions itself as a driving force behind the technological advancements in the college, where students are motivated to think beyond the conventional, challenge the status quo, and contribute to meaningful projects that have a real-world impact.

Key Activities and initiatives

Monthly Workshops:

- Conducted on various domains including AI, ML, Web Development and more.
- Focused on both beginners and advanced learners to cater to the diverse student body.



Image: Python Workshop April 2024

Inter College Hackathon:

- A competitive event where students from various colleges participate to solve real-world problems.
- Encourages innovative thinking and teamwork among participants.



Smart India Hackathon Management:

- The club is responsible for the complete management of the Smart India Hackathon in the college.
- This includes organizing, coordinating with participants, and ensuring smooth execution of the event.
- Internal Hackathon is conducted by hackathon club and Computer Department



Image: Internal Smart India Hackathon 2023

Achievements

Successful Workshops:

One of the standout events organized by the Hackathon Club this year was the Python Workshop, a 3-day intensive training session designed to equip participants with the fundamental and advanced skills needed in Python programming. The workshop saw enthusiastic participation, with up to 30 students attending and actively engaging in the hands-on sessions.

Participation & Feedback:

- The participants were highly motivated, with consistent attendance throughout the 3 days. Feedback was overwhelmingly positive, with many students expressing appreciation for the clear instruction, the pace of the workshop, and the real-world examples provided.
- The interactive nature of the workshop, coupled with coding challenges and quizzes, kept the participants engaged. This approach allowed the instructors to gauge understanding and provide immediate feedback.

Recognition:

- To encourage excellence, the club recognized the top performers of the workshop. These students demonstrated exceptional coding skills and problem-solving abilities throughout the sessions. As a reward, they received gifts, which served not only as a token of appreciation but also as a motivation for continued learning.



Python Workshop Completed Successfully ✨🔥

Internal Smart India Hackathon:

In preparation for the national-level Smart India Hackathon, the Hackathon Club organized an Internal Smart India Hackathon to provide students with a platform to showcase their problem-solving abilities and innovative ideas. This event was a significant undertaking, with 37 teams participating, each consisting of 6 members.

Event Overview:

- The internal hackathon was a simulation of the actual Smart India Hackathon, designed to replicate the intensity and competitive spirit of the national event. It provided students with an opportunity to work on real-world problems under tight deadlines, fostering both creativity and teamwork.
- The challenges were diverse, covering multiple domains such as healthcare, education, environment, and smart cities. Teams were required to develop working prototypes or detailed plans that could address the specific problems presented.

Domains for the Hackathon Club

1. **Artificial Intelligence & Machine Learning**
2. **Web Development**
3. **Mobile App Development**
4. **Cyber security**

5. Game Development

6. Open Source Contribution

7. Entrepreneurship & Start-ups

Future plans

- **Expansion of Workshops:** Introducing new domains and more advanced sessions.
- **Collaboration with Industry:** Partnering with companies for more industrial projects.
- **Increased Participation:** Strategies to increase student participation in both workshops and hackathons.

CONCLUSION

The Hackathon Club of the Computer Engineering Department has had a transformative impact on the student community over the past year. Through a series of well-organized workshops, hackathons, and industrial projects, the club has successfully created an environment where students can explore, learn, and excel in various technical domains.

The successful execution of the Python Workshop, with high participation and positive feedback, highlights the club's commitment to skill development and practical learning. Similarly, the internal Smart India Hackathon provided a critical platform for students to test their abilities, foster innovation, and prepare for national-level competitions. The recognition and positive feedback from both the administration and participants underscore the effectiveness of these initiatives.

As the club moves forward, it remains dedicated to expanding its activities, introducing new domains, and fostering an even stronger community of learners and innovators. The Hackathon Club's vision of becoming a leading platform for technical excellence and innovation continues to guide its efforts, ensuring that it remains a cornerstone of the Computer Engineering Department's educational mission. With a clear focus on continuous improvement and a commitment to student success, the Hackathon Club is well-positioned to achieve even greater accomplishments in the coming years.

ROBOTICS RESEARCH LAB

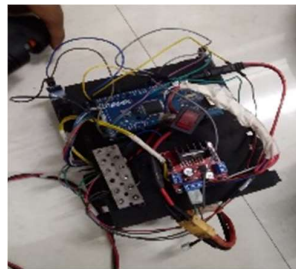
- The Robotics Research Lab was established in 2013.
- It is team of 30 students from our college.
- It is a platform where students perform hands-on work and gain pre-industrial knowledge
- Lab focuses on an Interdisciplinary approach that combines the skills and knowledge associated with other Fields.
- Developed various projects on robotics and automation
- Our team mainly focus on competition named ABU ROBOCON at the International level and DD ROBOCON at the national level held at IIT Delhi.
- Team also participates in other events like IIT Bombay Techfest, Mind spark at COEP, Spectrum at PCCOE, Credenz at PICT and other College-Level Robotics Competition.

COMPETITIONS WE PARTICIPATED

1) Tech Fest (IIT Bombay)

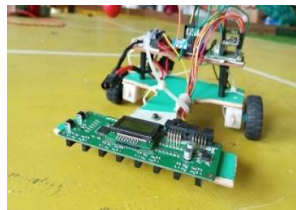
It is one of National level event held at IIT Bombay.

In this Competition our team has made 2 bots -Line Follower and Cozmo Clench



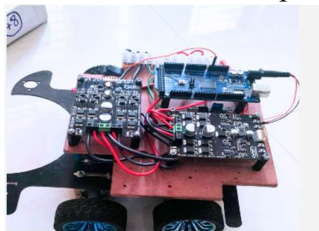
2) Mind Spark (COEP)

This event is organized by College of Engineering Pune. In this competition our team has made Maze Solver bot. Among 40 teams our team achieved 5th rank.



3) Credenz (PICT)

This competition is organized by Pune Institute of Computer Technology. For this competition our team has made Robo Soccer bot. Our team secured 7th place out of 18 teams.



4) ROBOCON 2024 (IIT Delhi)

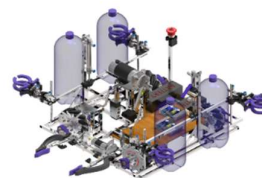
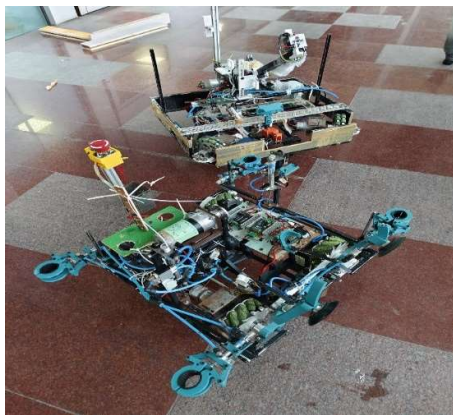
The ABU Asia-Pacific Robot Contest (ABU ROBOCON) was founded in 2002 by the Asia Pacific Broadcasting Union

In India, DD ROBOCON is organized by IIT Delhi and Prasar Bharati

In the competition, Robots compete to complete a task within a set time. Every year it is hosted by one country from the Asia-Pacific Region which is based on their Cultures

In year 2024 Vietnam is hosting country with theme of Harvest Day.

Drawing inspiration from cultivation on terraced fields, the ABU ROBOCON 2024 contest hosted by Vietnam, has developed robot tasks that depict the stages of rice cultivation. These tasks include sowing, harvesting, and transporting the harvested grains to the warehouse. The underlying message is ‘Efficient cultivation brings a warm and prosperous life for everyone’



PROJECTS

1) OBJECT DETECTION AND TRACKING USING COMPUTER VISION

- Trained an object detection model using CNN to detect ball positions.
- Utilized the Euclidean distance algorithm to predict balls movement.



- This robot was manufactured for robocon competition.
- Main purpose of this robot is to perform task of HORSE GAIT



2) QUADRUP

Government college of engineering and research, Avasari Khurd
3) SWERVE DRIVE ROBOT

- Swerve drive, also known as homonimicromni directional drive, which gives more precise control
- In this type of drive system 2 BLDC motors are used to control wheel



3) DRONE

- Developed a drone using Arduino, IMU, and FlySky for control and navigation.
- Utilized PID tuning to achieve stable and smooth flight performance





HARVEST DAY
AIR 06
Fusion Innovator Award



CASTING FLOWERS OVER
ANGKOR WAT
AIR 07
FUSION SUSTAINABILITY
LEADERSHIP AWARD



LAGORI
AIR 02
INTERNATIONAL RANK 5



THROWING ARROWS INTO
POT
AIR 06

TIMELINE

OUR SPONSORS



ROBOCON 2024

Team Name: Team Abhedya

Rank: All India Rank 6

Awards: Fusion Innovator Award and TRS Award being in top 8

TEAM CSAC

Civil Services Aspirant's Club



INSIGHTUS

The Civil Services Aspirant's Club was established in 2021. We are preparing environment for various government exam's like UPSC, MPSC, CDS, AFCAT. It is a platform for aspirants to exchange Knowledge, Resources and strategies to succeed in these highly competitive exams. Club focuses on Holistic preparation, Collaborative Learning, Guidance from Experts, Resources Accessibility, and Current Affairs Mastery. We are arranging Guidance session from Officers to provide a relevant strategy.

We are also arranging events like Group discussion, Debates which are focused on personality development for competitive exam aspirants is a valuable initiative. These events can significantly enhance the overall preparedness of aspirants by building skills that are crucial beyond academic knowledge.

EVENTS

CSAC WEEK2K24

We arranged CSAC WEEK2K24 from 14th April 2024 to 21st April 2024. In which we held various competitions at college level that create a platform for community-building exercise, where participants can network, share knowledge, and gain inspiration beyond academics.

- Speech Competition
- Debate Competition
- Quiz Competition
- Field Visit
- Work for Country

This event is initiated and inaugurated on 14th April which is Dr. Babasaheb Ambedkar Birth anniversary. On this day our Principle Dr. D. R. Pangavhane sir gave us an intellectual guidance to increase the approach towards developing personality skills and other soft skills which are very important in every domain.

This event is a unique opportunity to engage with fellow aspirants, exchange ideas and grow together as a community. This week is all about pushing our limits and preparing us for the future.



MENTAL HEALTH AWARENESS SESSION

On 8th May 2023, the Civil Services Aspirants Club successfully organized a Mental Awareness Session aimed at addressing the psychological well-being of aspirants. The session was conducted by Dr. Sanad Pawar (MBBS, DPM, MIPS, KEM Hospital and Research center, Pune) a renowned mental health professional, who provided valuable insights into managing stress, anxiety, and maintaining a balanced mindset during the rigorous preparation for civil services exams.

INTERACTION WITH OFFICER

CAPF Officer Ankush Dange Sir

Ankush Dange sir is an Alumini of GCOEARA who is first guidance person of our club. His expertise is widely recognized for helping aspirants navigate the complexities of various competitive examinations.

IPS Karan More Sir

Karan More sir is an Alumini of GCOEARA from Mechanical branch. He get AIR 648th in UPSC 2022 and recommend as an IPS Officer. His intellectual strategies are helping us to seek the UPSC rank.

SUBREGISTRAR Amol Dhurpate Sir

Amol sir is selected as Sub Registrar from MPSC. Before this he also cracked STI, ASO and other Group B exams, now he appeared for interview as a Class 1 Officer. He gave meet to CSAC club as per our request. He gave briefly Guidance of all MPSC exams to club aspirants. He is an Alumini of GCOEARA from Mechanical branch



THE ART SECTION

आनंदाश्रू

तुझ्या डोळ्यातील वेदनांना,
एकदा मी अश्रूंत रूपांतरित होताना अनुभवलं होतं,
तुला एकदा दिलखुलास रडताना पाहिलं होतं.

माहित आहे मला,
तू आता रडणं का सोडलयं ?
कारण परिस्थितीनेच तुला कणखर बनवलंयं.

पण आज एक सांगायचंयं आई तुला,
तुझ्या प्रयत्नांच फळ तुला मिळणारचं आहे,
तुझ्या पेरलेल्या बियाण्यांचं वृक्ष होणारचं आहे.

फक्त तू थोडा धीर घे ना,
तुझ्या या चिमूरड्या रोपांना खतपाणी दिलयस तू,
आता वाढीला थोडा अवकाश ही देना.

आम्ही वेगालाही मागे सोडणार आहोत,
कारण तुझ्या संस्कारांची ज्योत हाती घेणार आहोत,
या तुझ्या अश्रूंना आनंदाश्रू बनवणार आहोत.

आम्ही तुझी प्रतिष्ठा वाढवू पाहतो,
तू फक्त खंबीर विश्वास ठेवना,
आम्ही तुझ्यासाठी यशस्वी होऊन दाखवतो,
तू फक्त डोक्यावर मायेचा आशीर्वाद ठेवना.

**By-Dhananjay
Kalamkar**

FROM THE FITZGERALDS

लिहली पाहिजे कविता.....

कधी प्रेमरूपी रंगामध्ये रंगली पाहिजे कविता..
कधी विरहाच्या आठवणीतच रडली पाहिजे कविता..
मग कधी ओल्या डोळ्यांनी वाचली पाहिजे कविता..
तर कधी ओले होतील डोळे अशी लिहली पाहिजे कविता...

मग कधी स्वतःच्याच शृंगाराने लाजली पाहिजे कविता..
तर कधी शौर्याचा साज घेऊन गाजली पाहिजे कविता..
कधी क्रांतीची आग घेऊन पेटली पाहिजे कविता..
आव्हानांच्या उंबरठयाना थेट खेटली पाहिजे कविता...

दगडाच्याही काळजामध्ये घुसली पाहिजे कविता..
शस्त्रांपेक्षा जास्त वाराने लागली पाहिजे कविता..
व्यवस्थेच्या छाताडावर नाचली पाहिजे कविता..
लाख होतील हल्ले त्यांचे तरी जगली पाहिजे कविता..

शेषराव गुंड
(BE Computer)

फुलपाखरू

हल्ली आपण जास्त बोलत नाही,
कदाचित माझ्या काळजाची हाक तूझ्या काळजापर्यंत पोहचत नाही,

खरं वाटलं नवत कधीच इतकंप्रेम होईल म्हणून पण बघता बघता,..
सुंदर साजऱ्या स्वप्नातली तू सावली बनू लागली,
भातुकलीच्या खेळातली माझी बाहुली बनू लागली.

धावणार पाऊल सुद्धा तुझी चाहूल लागताचतुझ्या दिशेने सरकत होत,
देवाला दिवा लावताना दिव्यापेक्षा तुझ साजर रुपच चमकत होत.

शब्दात वावरणार मन माझं आता तूझ्या भोवती बागडू लागलंय
अन् तुची वाट बघता बघता आता वाट बघणंच आवडू लागलंय

तस तुझ्या मनातल्या रानात फिरताना मन रानपाखरू व्हायचं ...
तुझ्या केसातल्या फुलाच सुद्धा आता फुलपाखरू व्हायचं...

प्रेमात सर असाच असतं ,
सप्तरंगी स्वप्नातला सुरेल असा राग आहे तू..
वेगळी होतील आयुष्य तरी आयुष्याचा भाग आहे तू..

म्हणून तुझ्या माझ्या नात्याला चंद्राच्या पूर्णत्वाचा आकार यावा
आपल्या प्रेमाच्या पौर्णिमेला ताऱ्यांचा सुद्धा होकार यावा
तशी चंद्राच्या सावलीतूनतू काही क्षणात उडून जाणार...
पण आठवणीच्या ऊन्हात मी पुन्हा एकटा पडून जाणार...
शेवटी तुझ्यावरच माझ प्रेम याच कवितेसारखं वाटेवरती वाट पाहत अपूर्ण.....

शेषराव गुंड
(BE Computer)

दोन दोरींचा पतंग...

११ वी १२ वी च वर्ष होत

बापानं खर्च होता..

आणि त्याचीच जाण ठेवून आवडणाऱ्या एका मुली समोर व्यक्त होण्यापासून तुमचा हा मित्र जरा दूरच होता....

बारावीची परीक्षा संपली , CET ही पुढे गेली...

आणि नवीनच अभ्यासासाठी घेतलेल्या मोबाईल वर इंस्टा ला तिची रिक्वेस्ट आली...

चालता बोलता ,उठता बसता चॅटिंग सुरू झाली..

आणि थोड्याच दिवसात मी तिचा प्रियकर आणि ती माझी प्रेयसी झाली..

नाव तर तीचं अमृताहूनही गोड होत

सकाळच्या गुड मॉर्निंग पासून रात्री गुड नाईट पर्यंत दिवस कसा जायचा माझं मलाच कळत नव्हतं..

आता नकोशी वाटणारी निब्बेगिरी तेव्हा हवी हवीशी वाटायची...

अन् तिच्याशी फोन वर बोलण्याच्या नादात गोठ्यात बांधलेली म्हैस मात्र नेहमीच सुटायची..

फर्स्ट इयर पार पडणार होतं, सेमीस्टर चे पेपर आले...आणि तिचे माझे बोलणे अचानक बंद झाल ..

(आता नाना कारणं ती देऊ लागली..)

बहीण तिची बाळंतपणाला आली होती..

ती हीचा मोबाईल पाहते म्हणून ही माझ्याशी बोलयच बंद झाली होती..

वाटलं तिची काही अडचण तर नसेल? की ती मला टाळत तर नाहीय ..

पण नंतर म्हटलं नाही माझीवाली अशी नाहीय...

दुरावा वाढत होता , काय करावं ते समजत नव्हतं ...

चूक कुठ झाली ते काही केल्या उमगत नव्हतं....

आणि हे सगळं दुःख सोबत घेऊन हा पळ्या रानात कांदे उपटत होता..

आणि उपटणाऱ्या प्रत्येक कांद्याला अपराध काय केला हे विचारत होता..

(दुःखात नेहमी मित्रच आठवतात तसा मी माझ्या बारावीच्या रूममेटला फोन केला,

आयुष्यात कुणी आहे की नाही माहित असो वां नसो पण काय म्हणतायत वहिनी हे"constant")

आणि मी त्याला विचारलं काय म्हणतात वहिनी..

तो म्हणे वहिनी होतील दुसऱ्याच्या गृहिणी.

आता जास्त काही बोलत नाही..

ऐकून जरा बर वाटलं..

मीही माझं दुःख त्याच्याशी वाटून घेतलं..

मी म्हटलं लेका सगळं झालं नाव नाही सांगितलं..

आणि जे नको तेच झालं...

ती तीच आहे हे त्यानं फोटो पाठवून पटवून दिलं..

एकाच पायरीवर बसून आम्ही दोघं एकच पतंग दोन वेगळ्या दोरीनी उडवत होतो ...

आणि ती मात्र दोन्ही दोर कापून पसार झाली होती...

महाडिक वैभव शहाजी

E&TC

रुप कशास कोणत द्यायच..

पाषाण होऊन तो मिरवतो पण
त्याला देव बनवल जात..
हे आपल्यावरच असत की कोणाला
कस रुप द्यायच..

लाटांपासुन दुर दुर जायचं की,
कीनारी बसून मन रमवायच
हे आपल्यावरच असत की क्षणाला
कस जगून घ्यायच..

दिवसा दिनकरावर चिडायच की,
रात्रीस तारे मोजुन हसायच
हे आपल्यावरच असत की मनाचेही
मन कस वळवायच ..

काही कारणाने रुसुन बसायच कि,
हसतमुखाने साऱ्यांना माफ करायच
हे आपल्यावरच असत की कोणतही
नात कस निभवायच..

-Sujata Biradar..
Instru

PHOTOGRAPHY

Photographs by Prasad Bagle



Photographs by Rohan Noronha, TE Computer



by Bhushan Nande



Government college of engineering and research, Avasari Khurd



SKETCHES



**By Aarati Jagtap
B.E. Computer**



By Abhijeet Godase



**By Aarati Jagtap
BE Computer**



**By Megha Shrirame
BE Instrumentation & Control**

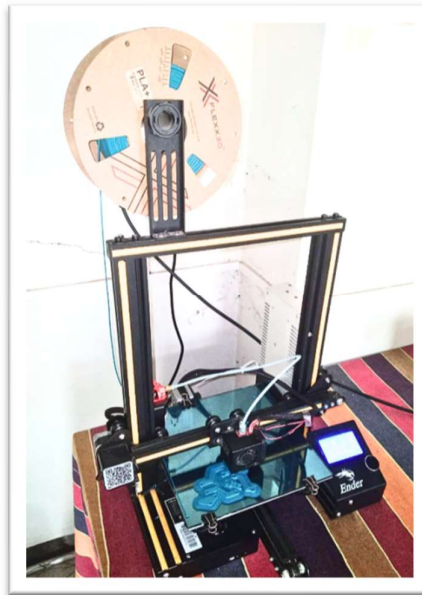
THE ARTICLES



Additive Manufacturing (FDM)

Fused Deposition Modeling (FDM) is a widely-used **3D printing** technology that creates objects layer by layer by extruding thermoplastic material through a heated nozzle. The process starts with a digital 3D model, which is sliced into layers and then converted into machine instructions.

During printing, a filament—typically made of materials like **PLA, ABS, PETG, or nylon**—is heated until it becomes semi-liquid and is deposited on the build platform following the model's layer pattern. The material solidifies almost instantly, bonding to the layer beneath it. This process is repeated until the object is fully formed. FDM is valued for its simplicity, reliability, and ability to produce strong parts with intricate geometries, making it accessible for both beginners and professionals.



FDM finds extensive applications across various sectors. **In prototyping**, it enables rapid testing and iteration of design concepts, allowing engineers and designers to refine products before mass production. The technology is also used in producing end-use parts for industries like automotive, aerospace, and consumer goods, particularly for low-volume production runs or custom components. Materials like **carbon-fibre**-reinforced filaments or high-temperature polymers are often used in industrial applications for their enhanced mechanical properties. FDM's affordability, material versatility, and scalability make it a popular choice not only for hobbyists but also for industrial manufacturing, medical devices, tooling, and education.

-Raviprakash Mishra
TE AUTO
Robotics Research Lab

AI and Robotics

Where Intelligence Meet Automation

Imagine a world where robots not only do the heavy lifting but also think, learn, and adapt just like humans. We're not talking about the stuff of sci-fi movies—this is the reality we're stepping into, thanks to the explosive combination of AI and robotics. From factory floors buzzing with smart machines to hospitals where robot assistants never get tired, the fusion of intelligence and automation is creating the next wave of technological marvels.

The fusion of AI and robotics is transforming machines from mere tools into intelligent entities capable of learning, adapting, and making decisions. What was once the realm of science fiction is now reality, with robots that can not only perform tasks but also "think" and respond dynamically to their environment. AI technologies like computer vision, natural language processing, and reinforcement learning have supercharged traditional robots, allowing them to recognize objects, understand speech, and even learn through experience. This powerful combination is driving innovation across industries—from smart factories where cobots work seamlessly with human operators to healthcare systems using precision robotics for surgeries and patient care. The rise of intelligent automation is not just about efficiency; it's reshaping how we live and work, pushing the boundaries of what robots can achieve.



However, as we embrace this future, we must also navigate the ethical dilemmas that come with it. The same AI that empowers robots also raises critical questions: How do we ensure these systems are fair and unbiased? Will automation lead to widespread job displacement? And where do we draw the line between beneficial technology and machines that could potentially infringe on our privacy or security? As we move forward, striking a balance between innovation and responsibility is crucial. For aspiring engineers and tech enthusiasts, this is an exciting time—the future of intelligent robotics is in your hands, offering endless opportunities to shape a world where smart machines can truly enhance our lives while addressing the challenges they bring.

-Vaishnavi Devre
TE ENTIC

Convolutional Neural Network (CNN)

Convolution neural network is a class of deep learning methods which has become dominant in various computer vision tasks and is attracting interest across a variety of domains, including radiology. And it is a type of deep learning model for processing data that has a grid pattern, such as images, which is inspired by the organization of animal visual cortex and designed to automatically and adaptively learn spatial hierarchies of features, from low- to high-level patterns.



CNN is a mathematical construct that is typically composed of three types of layers (or building blocks): convolution, pooling, and fully connected layers. The first two layer performs the feature extraction, whereas third layer, the fully connected layer, maps the extracted feature into final output, such as classification. CNNs highly efficient for image processing, since a feature may occur anywhere in the image. As one layer feeds its output into the next layer, extracted features can hierarchically and progressively become more complex. The process of optimizing parameters such as kernels is called training, which is performed so as to minimize the difference between outputs and ground truth labels through an optimization algorithm called back propagation and gradient descent, among others.

- Ramchandra Potadar
TE Computer
Robotics Research Lab

The Growing Importance of Cybersecurity in a Digital Age

Cyber security is increasingly vital in today's digital age as threats to personal and organizational data continue to grow. With the rapid expansion of online activities, from e-commerce to remote work, the need for robust cyber security measures has never been more critical.

Cyber threats come in various forms, including phishing attacks, ransom ware, data breaches, and malware. These can lead to significant financial losses, reputational damage, and legal consequences. For businesses, a single cyber attack can compromise sensitive customer information, disrupt operations, and erode trust.



Effective cyber security strategies involve a combination of technology, processes, and awareness. Technologies like firewalls, encryption, and multi-factor authentication help safeguard data. However, human factors remain a significant vulnerability. Cyber security awareness training for employees can prevent many common attacks by educating them about potential risks, such as suspicious emails and unsafe browsing habits.

Furthermore, staying updated with the latest security patches and investing in regular security audits can help organizations identify and mitigate vulnerabilities before they are exploited. As cyber threats evolve, so must our defences. Ensuring robust cyber security is not just about protecting information; it's about preserving the integrity and trust that underpin our increasingly connected world.

- Kalyani Jadhav
TE COMP
Robotics Research Lab

THE
DEPARTMENT
REPORTS

DEPARTMENT OF APPLIED SCIENCE

Applied Sciences Department bridges a gap between basic sciences and engineering technology. This department takes care of first year as well as second year engineering subjects like Engineering Mathematics I, II and III, Engineering Physics, Engineering chemistry, Environmental studies I, Environmental Studies II, Democracy Election and Governance, Physical Education, Communication Skills, Business Communication Skills, and Soft Skills/Employability Skills Development. The department has total 06 full time teaching faculty, 2 laboratory assistants and a support staff.

Faculty members:

Sr.No	Name of Faculty	Designation	Qualification	Date of Joining
1	Dr.(Smt) M. Y. Khaladkar	Associate Professor in Chemistry [CAS]	M.Sc., Ph.D [Chemistry]	29-07-2023
2	Dr.(Smt.) S.P. Kavishwar	Assistant Professor in Mathematics	M.Sc., Ph.D[Mathematics]	04-09-2024
3	Dr.(Mrs.) L.V. Ekhande	Assistant Professor in Physics	M.Sc., B.Ed., Ph.D. [Physics]	14-07-2023
4	Smt. H. H. Rakshe	Assistant Professor in Mathematics	M.Sc.[Mathematics], B.Ed	23-11-2009
5	Dr.(Smt.) Y. N. Chaudhari	Assistant Professor in Physics	M.Sc.,Ph.D. [Physics], B.Ed.	17-01-2012
6	Dr. M. D. Panchal	Assistant Professor in English	M.A., NET, SET, Ph.D [English]	27-01-2016
7	Mr. V.P. Jadhav	Assistant Professor in Chemistry	M.Sc., NET, SET [Chemistry]	17-07-2017

List of 3 Topper First Year Students in A.Y 2023-24

Sr. No	Name of Student	Branch	SGPA or %
1	Tambe Nikhil Shankar	Instrumentation & Control Engineering	9.78
2	Nerpagar Suvrana Bharat	Mechanical Engineering	9.68
3	Lokhande Abhijeet Dattatray	Instrumentation & Control Engineering	9.68

AUTOMOBILE ENGINEERING

Department Overview:

About the Department:

The department of Automobile Engineering was established in the academic year 2009-2010. Since its commencement, the primary objective of the department has been to impart quality education, training and research at the undergraduate level in various areas of Automobile Engineering with broad emphasis on design, analysis and development of Automobile Systems. Over the last fourteen years, efforts have been taken for the development of laboratories as per curriculum of Savitribai Phule Pune University, Pune and A.I.C.T.E., Delhi norms. Major laboratories in the department are I.C. Engine, Automotive Systems and Testing, Vehicle Maintenance and Garage Practice, Automotive Transmission, Automotive Electrical and Electronics, Vehicle Dynamics, TOM, MQC, CAD/CAM, Project and Motor Sports Laboratory. Recently, Rs. 2.4 Crore have been sanctioned for 'Electric Vehicle Laboratory' by the Government of Maharashtra. Major subjects taught in the department are Hybrid & Electric Vehicle, AIML, FEA, Automotive Chassis & Transmission, Machine & Vehicle Dynamics, Automotive System Design, Numerical Method and Optimization Method, AEE. Expert lectures and visits to nearby industries are arranged to keep the students updated regarding latest developments. Since 2015 to 2024, Twenty-one students from the department have qualified GATE/CAT and got admission in IITs, IIMs and NITs for higher studies. About 15 students have progressed for International Postgraduate programs in different countries like the USA, U.K., Canada, and Germany etc. Teaching and Supporting-Staffs of this department are well qualified, young and dynamic. Out of 10 teaching faculties, 2 are Ph.D. holders and 5 are pursuing their PhD. Department has three Technical Lab Assistants and two Auto Technicians along with two Laboratory Attendants for guiding the students during practical performance. Department is responsible for developing eminent engineers as professionals, researchers and entrepreneurs for sustainable development. Department assures that each and every student passing out from Automobile Engineering Department will have diversified knowledge and capable to work in any field of life and will be ready for lifelong learning.

Faculty Members:

Sr. No.	Name of the faculty	Designation	Qualification	Date of joining
1	Dr.D.R. Pan-gavhane	Professor and Incharge Principal	Ph.D.(Energy),M.E. (Mechanical),B.E. (Mechanical)	04/03/2016
2	Dr. M. J. Pable	Associate Professor and Head of the Department	Ph.D. Optimization of Passive Suspensions M.E. /M.Tech. Machine Design B.E./B.Tech (Mechanical)	25/08/2016
3	Mr.V.Y.Dhepe	Assistant Professor	M.E.(Mechanical- Heat Power)	13/10/2016
4	Mr. KB.Basode	Assistant Professor	M.Tech (Design of Machine Element)	
5	Mr. R.P.Kakde	Assistant Professor	M.Tech (Thermal & Fluid Science)	30/09/2016
6	Mr.A.J.Bhosale	Assistant Professor	M.Tech (Automotive Engineering)	30/09/2016

7	Mr.S.D.Patil	Assistant Professor	M.Tech. (CAD/CAM)	04/10/2016
8	Mr.D.S.Lengare	Assistant Professor	M.Tech (Design)	04/10/2016

List of Non-teaching Staff:

Sr. No.	Name of the faculty	Designation	Qualification	Date of joining
1	Smt. K. P. Ubale	Instructor (T.L.A.)	B.E. Electronics Engg.	07/06/2019
2	Smt. R. K. Dawane	Instructor (T.L.A.)	Diploma in Metallurgy	02/05/2015
3	Shri. S. S. Bhong	Auto technician	Diploma in Automobile	07/03/2014
4	Shri. R. S. Warghat	Auto technician	Diploma in Automobile	07/03/2014
5	Shri. G. A. Shaikh	Instructor (T.L.A.)	Diploma in Mechanical	01/09/2009
6	Smt. S. N. Gutte	Laboratory Attendant	B.A.	01/06/2015
7	Smt. A. Kadam	Laboratory Attendant	S.S.C.	09/06/2023

Details of Laboratories in the Department:

Sr. No.	Name of Laboratory	Area	Total Cost of Equipment	Name of Lab In-charge	Name of Lab Assistant
1	CAD CAM Lab	231sq.m.	3488368/-	Dr. M. J. Pable	Smt. K. P. Ubale
2	Metrology & Quality Control	106 sq.m.	891970/-	Prof. P.B. Pimpalkar	Smt. R. K. Dawane
3	Automotive Transmission	102sq.m.	165848/-	Arvind J. Bhosale	Shri. R. S. Warghat
4	Automotive Electrical & Electronics	216sq.m.	431353/-	Arvind J. Bhosale	Shri. S. S. Bhong
5	Automotive Refrigeration & Air Conditioning	98sq.m.	128105/-	V. Y. Dhepe	Shri. G. A. Shaikh

7	(A)Automotive Systems & Testing (B)Vehicle Maintenance & Garage Practices	273sq.m.	735245/-	Arvind J. Bhosale	Shri. R. S. Warghat
8	Internal Combustion Engine	100sq.m.	1704446/-	Ravi Prabhakar Kakde	Shri. S. S. Bhong
9	Seminar Hall	231sq.m.	41819/-	-	-

10	Systems In Mechanical Engineering	102sq.m.	84855/-	Mr. K.B.Bansode	Shri. S. S. Bhong
11	Project Lab & Motor Sport Lab	273sq.m.	-	Ravi Prabhakar Kakde	Shri. R. S. Warghat

Seminars/Webinars/Expert Talks Organized by the Department/Faculty :

Sr. No.	Name of the faculty	Name of the Expert	Title of Seminar/ Expert Lecture	Date	Number of students/ participants attended
1	Prof. P. B. Pimpalkar	Mr. Dinesh Dattatray Jadhav RTO Officer	Road Safety Awareness and Career Guidance	22/02/2024	75



Expert Lecture on Road Safety Awareness and Career Guidance



Details of STTP / FDP / NPTEL Courses / Workshop / Seminar / Webinar Attended by Faculties:

Sr. No.	Name of the faculty	Title of STTP / FDP	Organizing Institute	Duration with dates
1	Mr. A. J. Bho-sale	Industry led Innovation and Cutting Edge Technologies	MSFDA, Pune	11/09/2023 to 15/09/2023
2	Dr. M. J. Pable	Electrifying the Future: A Comprehensive FDP on Electric Vehicle	COEP Technological University Pune	08/01/2024 to 13/01/2024
3	Prof. P. B. Pimpalkar	Recent Developments in Materials and Manufacturing Processes	SKNCOE,Pune	15/01/2024 to 27/01/2024

Paper published/Presented by Faculty in International/ National Journals and conference:

Sr. No.	Name of the faculty	Title of Paper/Book Published	Name of Journal/Conference / Publisher	Date of publication
1	Dr. M. J. Pable	V.R. Shinge & M. J. Pable, "Enhancing Machining Performance of AISI D3 Steel with combined SiO ₂ and TiO ₂ Nanofluids: Surface Roughness and Cutting Temperature Analysis".	The International Journal of Advanced Manufacturing Technology (Springer Publication)	Under Review
2	Mr. A J Bhosale	A comprehensive assessment of emerging trends in battery thermal management systems.	Journal of the Brazilian Society of Mechanical Sciences and Engineering (Springer)	21/02/2024
3	Mr. A J Bhosale	Fundamentals of Hybrid and Electric Vehicles	Khanna Publisher, New Delhi	May 2024



Industrial visit at Chinchwad Auto Cluster Development & research Institute, Chinchwad, Pune



Industrial visit at M/S. Forbes Marshal, Chakan, Pune

List of Class Representatives:

Sr. No.	Class	Name of CR
1	BE	Balkrishna pawar
2	TE	Samrudhha Bugade
3	SE	Rayate prajakta

Top Three Class Toppers with CGPA:

Sr. No.	Name of Students	Class	Year	CGPA/S GPA
1	PATIL KHUSHAL RAVINDRA	BE	FIRST TOPPER	9.57
	KUMBHAR POONAM SANTOSH		SECOND TOPPER	9.35
	REURE PRATHAM SHIVSHARAN		THIRD TOPPER	9.22
2	SAMRUDDHA ANAND BUGDE	TE	FIRST TOPPER	9.43
	RAHANGADALE SAKSHI RAJU		SECOND TOPPER	9.02
	LAMKHADE SANKET SANTOSH		THIRD TOPPER	9.00
3	POWAR SUHANI SUNIL	SE	FIRST TOPPER	7.95
	CHOPADE SHUBHAM NARAYAN		SECOND TOPPER	7.86
	AKASH NAVNATH JARHAD		THIRD TOPPER	7.45

Details of Automobile Engineering student's Association for A. Y. 2023-24

Sr. No.	Name of Student	Class	Selected Post
1	Tejas Ubhedal	BE	President
2	Vedant Jadhav	TE	Vice-President
3	Unnati Baviskar	BE	Ladies Representative
4	Kunal Bisen	BE	Cultural Secretary
	Sakshi Rahangdale	TE	Cultural Co-Secretary
5	Balkrishna Pawar	BE	Sport Secretary
	Prasad Doke	TE	Sport Co-Secretary
	Shravani Pawar	TE	Sport Co-Secretary

6	Anant Jadhav Chaitanya Duse	TE TE	Treasurer Joint Treasurer
7	Namrata Tapre Prathamesh Hukre	BE TE	Event Head Event Co-Head
8	Om Topale Harshal Tiwari Suhani Powar	BE SE SE	Magazine and Newsletter Head Magazine and Newsletter Co - Head Magazine and Newsletter Co - Head
9	Kaustubh Thokpatil Shravani Modhave	BE TE	Discipline Head Discipline Co - Head
10	Aditi Jadhav Raviraj Shekokar	TE TE	General Coordinator General Coordinator

GATE Qualified Students:

1. PRAJAWAL A. JADHAV
2. TEJAS P. VANJARI

Students Enrolled in Higher Education:

1. TAPRE NAMRATA SUBHASH
2. KARAN NANAJI SALUNKE

Spoken Tutorial Courses:

Sr. No.	Class	Number of Students	Courses Offered	Total Number of Passed students / %result	Date of Exam
1	BE Automobile	66	Blender	66/100	22/09/2023
2	TE Automobile	40	Scilab	40/100	21/09/2023
3	SE Automobile	36	QCAD	36/100	21/09/2023

Training and Placement Details: (with photo)

Sr. No.	Name of students	Name of company	CTC in Lakh
1	AGRE SAURABH CHANDRAKANT	TATA MOTORS	3
2	AMAR BHARAT BHOSALE	MSKH	2.16
3	ARBAJ EKBAL PATHAN	LEAR CORPORATION MSKH	4 2.16
4	BUGDE NINAD ANAND	LEAR CORPORATION TATA MOTORS	4 3
5	KARPE TEJAS KAILAS	TATA MOTORS	3

CIVIL ENGINEERING

ABOUT DEPARTMENT

Along with the other 05 branches, Department of Civil Engineering is established in AY2009-10 with intake of 60+15 other lateral entries. Academic of the department for the students is completed as per the guidance of SPPU and by the faculty appointed by the MPSC with the support of visiting faculty appointed by the Principal. Department has 09 laboratories to cater the need of academics as per SPPU, Pune. Department arranges the site visits, expert talks, workshop/webinars/training, soft skill development programme, etc., to meet requirement of student and to make them competent civil engineer to cater the need of society.

Department motivates the students to take part in curricular, co-curricular and extracurricular activities and technical activities to make them grown up citizen to work for nation. These activities are like learning /certification of NPTEL courses, swayam, and Spoken tutorial, gathering, technical event in the institute. Students are asked to participate in technical & non-technical activities arranged by the institute and other colleges in SPPU and other state of Maharashtra.

Faculties /staff are motivated to attend the workshops/seminars/FDP/STTP to upgrade their knowledge to share with the students. Faculty works for the SPPU Pune for conduct of various examinations, Committees, paper assessment through CAP organised by The GCOEARA/SPPU, Pune. A department aims in future to go for NBA accreditation after the criteria of faculty and infrastructure.

Department looks after the civil maintenance of buildings in the campus in association with the PWD and Grampanchayat in the form of correspondence/communication with them. These maintenance includes following

- Annual maintenance of Sewage Treatment Plant (STP) of capacity 3MLD in the campus from agency appointed.
- Routine Civil repairs and maintenance asked by the various departments, quarters and hostels, etc. in the campus.
- Cleanliness drives in the campus / department to provide hygienic environment.

List of Faculties:

S N	Name of faculty	Designation	Qualification	Department Joining
1	Dr.W.N. Deulkar	Associate Professor and Head	PhD in Civil Engg.	21.11.2016
2	Dr.S.B.Kharmale	Assistant Professor	PhD in Civil Engg.	05.04.2011
3	Dr. H. K. Munot	Assistant Professor	PhD in Civil Engg.	01.08.2023

List of Supporting Staff:

S N	Name of faculty	Designation	Qualification	Department Joining
1	Mrs. A. D. Bhat	Instructor (TLA)	Diploma in Civil Engg	07.08.2015
2	Mr.S.V.Bharambe	Instructor (TLA)	BSc (Physics)	19.07.2019
3	Ms. S. B. Palve	Instructor (TLA)	BE Computer	20.08.2021

4	Ms.S.M.Wadekar	Instructor (TLA)	B.Sc.(Electronics)	11.11.2022
5	Mr.V.B.Wavhal	Instructor (TLA)	DME	01.08.2023
6	Mr. P. K. Tak	Lab Attendant	HSC	27.03.2019
7	Mr.S.K.Gilbile	Lab Attendant	HSC	20.12.2022

Number of Students in the Department for AY2023-24:

Class	FE	SE	TE	BE
Intake	60	60+15	60	60
No of students	56	60	46	73
No of girl student	14	26	18	24
No of boy student	42	34	28	49

Details of Laboratories in the Department:

S N	Name of Laboratory	Area as per AICTE Sqm	Available areas Sqm	Cost of Lab Rs.	Lab In charge	Lab Assistant
1	Surveying	66	64.778	927172	W N Deulkar	A D Bhat
2	Environmental Engg	66	75.075	1012523	S B Kharmale	A D Bhat
3	Geotechnical Engg	66	153.3	576971	S B Kharmale	A D Bhat
4	Engineering Geology	66	64.778	222750	W N Deulkar	S M Wadekar
5	Computer Engg	66	181.742	2244131	H K Munot	S B Palve
6	Engineering Mechanics	66	60.28	106002	H K Munot	S B Palve
7	Fluid Mechanics	66	181.742	742483	S B Kharmale	A D Bhat
8	Transportation Engg	66	153.3	210137	W N Deulkar	A D Bhat
9	Concrete Technology + Consultancy	66	153.30	3089643	S B Kharmale	V B Wavhal

List of Major Equipment's:

<ul style="list-style-type: none"> • Universal Testing Machine-100 Tone Capacity • Compression Testing Machine -200 Tone Capacity • Accelerated Curing Tank • Rebound Hammer NDT Testing • UV Spectrophotometer • Direct Shear Test • Unconfined Compression Test • Filtration Assembly With Vacuum Pump • Flame Photo Meter 	<ul style="list-style-type: none"> • Total Station • Auto Levels with LC • Digital Plannimeter with LC • GPS System with LC • Nautical Sextant with LC • Turbulent Flow Apparatus • Hydraulic Tilting Flume • Ductility Of Tar Test Apparatus • Film Stripping • Impact Of Jet On Vane
---	--

Details of Site Visit Arranged for the students:

- 1) Dr W N Deulkar organized the site visits for the students at RMC plants of Manchar to study the details of Concrete for SE Civil Student.
- 2) Dr. M. G. Shaikh organized the visits for the SE-Civil students at MERI-Nashik to study the details of Concrete on date 16/05/2023
- 3) Dr W N Deulkar / Mr. R.S. Tiwari organized the visits for the BE-Civil students at RSCOE’S JSPM College Tathavade, Pune to study the details of Earthquake Engg. on date 25/05/2023
- 4) Dr W N Deulkar / Mr.R.S.Tiwari organized the visits for the TE-Civil (5th Sem.) students Water treatment Plant Kasarwadi, Pune to study the details of Water Supply Engg. On date 02/11/2023.
- 5) Mr.Kunal Pavar /Manish Barve organized the visits for the TE-Civil (6thSem) students at Sewage treatment Plant Kasarwadi, Pune, to study the details of Waste Water Treatment Plant on date 15/03/2024.
- 6) Dr W N Deulkar organized motivational and counselling speeches for students frequently to release the stress of the students, many more times in the year.

Details of Seminar/webinar/expert talk, organized by department/faculty for the students:

S N	Name of Activity With Title	Level	Duration	Dates	Participants
1.	One Day Seminar on “Higher Education and Its Preparation” by Alumni Students of Civil Engineering, Government of College of Engineering and Research, Avasari(Kh) [Ms Samata Tayde, S T Pawar, Salim Khan, S R Bhojane)	National	01 Days	27.03.2023	120 (TE&BE Class)
2.	Expert Talk on “Non Destructive Testing on Concrete” By Mr S M Shinde, NDT Consultant Pune	National	01 Days	05.04.2023	120 (TE&BE Class)
3.	One Day Seminar on “Quality Test for Highway” by Mr Nilesh Jain, Consultant ant Pune	National	01 Days	07.04.2023	60 (BE Class)
4.	Training to the Students for “Importance of Field Education” (how to read the Drawing, how to do the Site supervisor” by Dr W N Deulkar	National	01 Days	12.05.2023	60 (TE&BE Class)
5.	Site visit to “Geology Museum” at COEP, Pune by Dr W N Deulkar	National	01 Days	12.05.2023	60 (SE Class)

PART B:-FACULTY ACHIEVEMENTS

1. Books Published:

- Dr W N Deulkar Published a book on “Structural Mechanics” and “Concrete Technology” with Nirali Prakashan, Pune
- Dr. S. B .Kharmale Worked as subject expert in DTE Mumbai appointed committee for finalization of syllabus of Civil Engineering programme in accordance with National Education Policy 2020 (NEP 2020)
- Dr. S B Kharmale & Dr. W.N. Deulkar Worked as subject expert for the committee appointed in RO for inspection of various institutes for starting new AICTE courses
- Dr. S.B. Kharmale Worked as member of Student Counselling Committee (AY 2023-2024) of GCOEARA
- Dr. S.B. Kharmale Worked as Post Graduate Dissertation Evaluator and Examiner for M. tech students at GEC Chhatrapati Sambhajanagar (Aurangabad)

2. Paper/ Journal Publication by Faculties :

Sr. No.	Faculty Name	Subject of Paper / Journal Published by Faculty
1	Dr. Wasudeo N. Deulkar	Umesh T. Jagadale, Wasudeo N. Deulkar, (2024), "Evaluation of Damage Severity And Strength Of Structural Member Using Macro-Molecular PZT Sensor" at Macromolecular Symposia, Journal of Micro-Controller in Free and Radical Polymerization, ISSN:1022-1360, Vol 413, Issue 1, p1, 21 February 2024, DOI- https://doi.org/10.1002/masy.202300002
2	Dr. Wasudeo N. Deulkar	Umesh T. Jagadale, Wasudeo N. Deulkar, (2024), "Polymeric Macro-Molecular Piezoelectric Sensors for Evaluation of Structural Damage" at Macromolecular Symposia, Journal of Micro-Controller in Free and Radical Polymerization, ISSN:1022-1360, Vol 413, Issue 1, p1, 21 February 2024, DOI- https://doi.org/10.1002/masy.202300072
3	Dr. Wasudeo N. Deulkar	Jyoti C Bhong, Wasudeo N Deulkar and Kamlesh K Tripathi, (2024), "A review on the Hydraulic Conductivity of Geosynthetic Clay Liner", presented at International Conference on Engineering, Science and Technology (ICEST 2k24), Research paper ID 6-OCIVIL, organized by S.B. Patil College of Engineering, Indapur on May 24th & 25th, 2024 and published at International Journal of Scientific Research in Science, Engineering and Technology, Print ISSN:2395-1990, Online ISSN:2394-4099, Volume 11, Issue 7, Pp 939-960, May-June-2024. DOI: https://ijsrset/paper/12020.pdf
4	Dr. Wasudeo N. Deulkar	Akshaya A. Taware, Wasudeo N. Deulkar and Swapnil B. Kharmale, (2024), "Seismic Analysis using Inelastic Constant Ductility Response Spectra for Performance Based Plastic Design of Steel Moment Resisting Frame", Iranian Journal of Science and Technology, Transactions of Civil Engineering, April 2024, DOI- https://link.springer.com/article/10.1007/s40996-024-01408-7
5	Dr. Wasudeo N. Deulkar	W. N. Deulkar, K P Pawar, Yuwraj Wable, Lokesh Hatzade, Ashlesha Patil and Kalyani Kale, (2024), "Impact of Pesticide on Ground Water Quality", International Research Journal Of Modernization In Engineering Technology And Science, ISSN :2582-5208, Volume6, Issue 5, May 2024
6	Dr.S. B Kharmale	Taware, A. A., Deulkar, W. N., and Kharmale, S. B. (2024). "Seismic Analysis using Inelastic Constant Ductility Response Spectra for Performance Based Plastic Design of Steel Moment Resisting Frame", Iranian Journal of Science and Technology, Transactions of Civil Engineering, 1-12.
7	Dr.S. B Kharmale	Kharmale, S. B., Patil, C. S., and Patil, V. B. (2023). "Seismic Vulnerability Assessment of Steel Moment Resisting Frame Equipped with Friction Damper", SSRG International Journal of Civil Engineering, 10(9), 29-43.
8	Dr.S. B Kharmale	Kharmale, S. B., Sathe, P. S., and Kolekar, Y. A. (2023). "Effect of Cooling Conditions, Retrofitting on Strength of Concrete Subjected to Elevated Temperature", Civil Engineering Journal, 9(7), 1737-1752.

3. NPTL Course attended by Faculty & Students:

S N.	Name	Date	Course	Score
1	Shinde Vishal Santosh	July-Oct 2023	Soil Mechanics/Geotechnical Engg.	32/100
2	Shinde Vishal Santosh	July-Oct 2023	Design of Steel Structure	32/100

4. STTP/FDPs Attended by Faculties:

S. N.	Faculty Name	Level	Title of FDP /STTP	Organizing Institute	Duration with dates
1	Dr. W. N. Deulkar	National	Foundation training to the class I officers under Higher and Technical education	YASHADA, Pune	17/4/23 to 28/5/23
2	Dr. W.N. Deulkar	National	AICTE approved FDP on “Inculcate in Universal Human Values In Technical Education” organised by AICTE	AICTE	9 to 13/01/2023
3	Dr.H.K.Mu-not	National	“ Use of ICT to Build Capacity of technical Teachers” (Short term Training Programme conducted by National Institute of Technical Teachers Training and Research, Bhopal at NITTTR Extension Centre Pune)	NITTTR Extension Centre Pune	24/06/2024 to 28/06/2024

5. Training/ Workshop/Conference/Seminar/Webinar Attended by Faculty : 03

S. N.	Name of Faculty	Details	Date
1.	Dr. S. B. Kharmale	Completed the training in the course of three months Industrial Training On “Staad Pro & BIM” From 19-02-2024 to 18-05-2024 and Secured A1Grade during Performance evaluation by the national small industries corporation Ltd. Technical Services Centre	02/2024 to 18/05/2024
2.	Dr. W.N. Deulkar	One day workshop on White Technology and RMD Technology organised by Ultratech Cement Pune on 01.07.2023	01/07/2023 one day

6. R and D activities:

S N	Name of faculty	Details of PG/PhD Guidance:
	Dr. W. N. Deulkar	PhD. Completed-01 (Pre-synopsis over), PhD Ongoing = 04
	Dr. S. B. Kharmale	PhD. Completed-01, PhD Ongoing = 03

7. Expert talk delivered by faculty

S N	Name of faculty	Details
1.	Dr. W. N. Deulkar	<ul style="list-style-type: none"> Delivered expert talk to BE students on “How to write the project report” on 31.03.2023 and same reviewed on 03.06.2023 Delivered expert talk to TE students on “How to select seminar Topic and write a Report” on 01.05.2023 and same reviewed on 03.06.2023 Delivered expert talk to MTech student at Govt College of Engineering, Aurangabad on 30.07.2023

PART C: - STUDENTS ACTIVITIES

1. List of Class Representatives :-

Class	SE	TE	BE
Student Name	1. Harshad Mahamuni	Vishal Santosh Shinde	Abhishek Sanjay Tambe

2. Annual Result by SPPU:

S. N.	Class	SE	TE	BE
1	Total student	89	53	76
2	All clear	43.82%	49.06%	93.42%
3	ATKT	50.56%	39.62%	5.26%

3. List of Class Toppers with CGPA :

Class	Rank	Name of Student	SGPA/CGPA (Marks)	Class
SE	1 st	Jagtap Pratiksha Rajendra	9.23	First Class With Distinction
	2 nd	Abhang Satyam Vikas	8.57	First Class With Distinction
	3 rd	Aniket Yadav	8.48	First Class With Distinction
TE	1 st	Bhuske Gauri Prakash	9.10	First Class With Distinction
	2 nd	Dikale Dhanshree Shashikumar	9.00	First Class With Distinction
	3 rd	Kadam Vishal Dattatrya Salunkhe Sanika Sanjay	8.57	First Class With Distinction
BE	1 st	Tambe Abhishek Sanjay	8.94	First Class With Distinction
	2 nd	Gambhire Madhav Dattatray	8.87	First Class With Distinction
	3 rd	Andhale Dhanshri Raosaheb	8.77	First Class With Distinction

4. Details of Student representative at Departmental Level for A.Y.2023-24

S N	Name	Class	Mobile No.	Selected Post
1	Abhishek Sanjay Tambe	BE Civil	9021885944	CESA President
2	Atharva Pramod Patil	BE Civil	9702902345	CESA Vice President
3	Paresh Prashant Phalke	SE Civil	9145332331	CESA Secretary
4	Vishal Santosh Shinde	TE Civil	9404177528	CESA Treasurer
5	Vivek Pashuram Karche	TE Civil	7249333496	Dept. Sports Secretary
6	Virendra Gopal Patil	TE Civil	7755937874	Dept. Cultural Secretary

5. Details of Curricular & Co-curricular Activities participation & Achievements, AY2023-24

S N	Name of	Name of event	Organised By	Prize Secure	Event Date	Class
1	Trisha	Science & Technology for Rural Development-2023	Samarth Group of Institutions College of Engineering, Belhe	Event Participation	19-Apr-23	SE-Civil
2	Sanika					
3	Tithee Kul-					
4	Sanskriti					
5	Pranjali D					
6	Dhanashri					

7	Trisha Warpe	Volleyball-Girls	GCOEARA-COMBAT-2023	WINNER	Apr-23	SE-Civil
8	Mohamad Musaddiq Shaikh	Volleyball-Boys	GCOEARA-COMBAT-2023	WINNER	Apr-23	SE-Civil
9	Renuka Mali	Volleyball-Girls	GCOEARA-COMBAT-2023	WINNER	Apr-23	SE-Civil
10	Harshal Barde	Sahyadri Formula Racers - Supra Saeindia Student Forula-2023	Buddh International Circuit Grater Noida	Participation	10-13July 2023	SE Civil
11	Harshal Barade	SUPRA SAEINDIA	Buddh International Circuit Grater Noida	Participation	10-13 July 2023	SE Civil
12	Ghadmode Khushi	Chess	GCOEARA-COMBAT-2024	Winner	2024	SE Civil
13	Sakshi Sattalkar	Volleyball-Girls	GCOEARA-COMBAT-2023	Winner	2023	FE Civil
14	Sakshi Sattalkar	Volleyball	GCOEARA-COMBAT-2024	Runner Up	2024	SE Civil
15	Sakshi Sattalkar	TableTennis, Langadi,Box Cricket,Kho-Kho	GCOEARA-COMBAT-2024	Participant	2024	SE Civil

PART C:-SOCIAL ACTIVITIES

1. Details of Testing and Consultancy

Department runs the Testing and Consultancy cell to cater the need of Civil Engineering Industry, in which civil engineering materials are tested and infrastructure is consulted. Different type of consultancy undertaken in the year are like TPQA of infrastructure, vetting of RCC drawing, Geotechnical investigation of soil, etc. Revenue generated for Government of Maharashtra is approximately 10 to 12 lac.

2. Major Customers for the consultancy by the department are,

<ul style="list-style-type: none"> • Nagarparishad, Chakan, • Nagarparishad, Rajgurunagar • ZillaParishad, Pune • Maharashtra Jeevan, Pradhikaran • Kendriya Vidyalaya, and Z P Schools • Nagarparishad, Junnar, 	<ul style="list-style-type: none"> • Pooja electrical, Ahemednagar • M/s V S Patel, Pune • Mangalmurti Enterprizes, Khed • Trimurtee RMC plant. Khed • HEF, Khadaki, Pune
--	--

3. Details of Cleanliness Drives conducted by department.

S N	Duration/ Dates	Area Cleaned	Co-ordinated By	Remark if any
1.	22.1.2023 3.00pm to 5.00 pm	Faculty cabins, Labs, Surroundings	Dr M G Shaikh	Participation in Cleanliness Drive by All faculty + TLA +

2.	2.9.2023 3.00pm to 5.00 pm	CT Lab, Surrounding	Dr.S.B.Khar- male	SE/TE/BE students of the dept
3.	10.6.2024 3.00pm to 5.00 pm	Faculty cabins, Surrounding	Dr.W.N. Deul- kar	

4. Societal/honorary works and Grants Received: By Dr. W.N. Deulkar

- Prepared & Submitted proposal for developing the Heavy Structural laboratory in the department to consult heavy jobs of industry and Service station for vehicle in Automobile Engineering.
- Attended Unnat Maharashtra Abhiyan at Aurangabad along with students to study the canal Irrigation nearby Awsari on 23 and 24.02.2023
- Worked as expert/chairman to check the facility available at government institutes in Maharashtra at Government Polytechnics Pune, Hotel Management Catering and Technology, Pune,, Government college of Engineering Avsari (Khurd) from 13 to 17.03.2023
- Undertaken the consultancy work HEF Khadaki Pune worth Rs 15.67 Lac.
- Worked as a Co-Project Investigator for Centre of Excellence in Digital Simulation, sanctioned by GoM for 3 years from AY2023-24 onwards for Rs 70 Lac
- Nominated on Board of Studies in Civil Engineering for 05 years from July 2023
- Attended the RPS seminar of PhD for students at JSPM College of Engineering, Pune and College of Engineering Pune on 26.7.2023
- Nominated as College Development Committee member for at Government college of Engineering and Research Awsari for duration 2023 to 2028

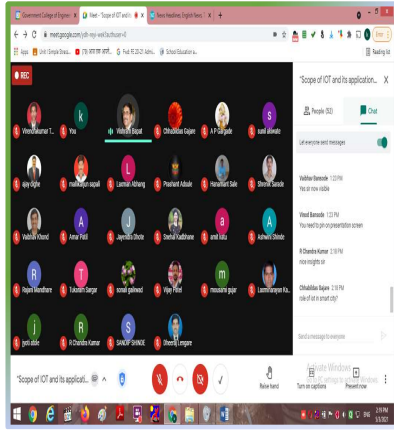
PART E:-ANY OTHER ACTIVITY

- Prof R.P. Thanedar and Dr. Suhasini Madhekar are retired from Government service on Oct.
- Mr. S.V. Bharambe, TLA is retired from Government service on June 2024.
- Dr. W.N. Deulkar is the incharge of SC/ST/Handicap students committee member.

Membership of Professional bodies:

S N	Name of Faculty	Professional Body	Membership No	from
1.	Dr. W.N. Deulkar	ISTE	32190	2001
2.		ASCE	Associate	2002
3.		Institute of Engg.	125741/7	2003
4.		Chartered Engineer	125741/7	2005
5.		Indian Society of Wind Engg.	467	2010
6.		International Association of Engineers	137057	2023

List of Sample Photographs of activities



Online One Day seminar on “Life Cycle Management of Civil Engg Projects” by Mr. Pralhad V Rao, Director, Shanti Computers and Systems, Mumbai



One Day workshop on “Mix Design of Concrete” by Dr W N Deulkar, Head of Department, Civil Engineering, GCOEARA



One Day Seminar on “How to Join Indian Arm Forces” by Alumni Students of Civil Engineering, Government of College of Engineering and Research, Awsari(Kh) [Ms KshitijaSulakhe]



One Day Seminar on “Higher Education and Its Preparation” by Alumni Students of Civil Engineering, Government of College of Engineering and Research, Awsari(Kh) [MsSama-taTayde, S T Pawar, Salim Khan, S R Bhojane]



Expert Talk on “Non Destructive Testing on Concrete” By Mr S M Shinde, NDT Consultant Pune



One Day Seminar on “Quality Test for Highway” by Mr Nilesh Jain , Consultant ant Pune



Site visit to Geology Museum at COEP, Pune by Dr W N Deulkar



Training to the Students for Importance of Field education (how to read the Drawing, Site supervision” by Dr W N Deulkar



Training to the Students for Importance of Field education (how to read the Drawing, Site supervisor” by Dr W N Deulkar



Training to the Students for Importance of Field education (how to read the Drawing, Site supervisor” by Dr W N Deulkar

DEPARTMENT OF COMPUTER ENGINEERING

About Department:

The Computer Engineering department was established in 2009 with the aim of providing quality education and excelling in all the endeavours it undertook.

The Department has state-of-the-art infrastructure and computing equipment supported by high speed internet connection. Student organizations (COMPSA, ERC(Enlectic Research Centre) and Hackathon are dynamic and organize a number of academic as well as extracurricular activities .The Department has a pool of experienced, dedicated and committed faculty members who aim at delivering top class education to students. Highly skilled technical laboratory assistants help us to keep all laboratories updated with the latest software. Department organizes industry visits and expert sessions on latest technologies to expose the students to the rapid change in computer engineering domain. Student of our department have won prizes in various national and international level paper presentation and project exhibition

List of Faculties:

Sr. No.	Name of faculty	Designation	Qualification	Joined the Dept on
1	Dr. S. U.Ghumbre	Professor and Head	PhD	May 2016
2	Dr. V. S. Inamdar	Associate Professor	PhD	13 August 2021
3	Prof D. J .Periera	Assistant Professor	M Tech PhD (Pursuing)	2011
4	Prof P.V.Kulkarni	Assistant Professor	ME (CSE) PhD (Pursuing)	31/12/2020(20/01/2011)
5	Dr S.A.Thorat	Assistant Professor	PhD	08/06/2022
6	Prof R.P Bagvade	Assistant Professor	ME	08/06/2022
7	Prof K.B.Sadafale	Assistant Professor	ME(Com-puter),PhD (Pursuing)	08/06/2022
8	Prof.S.G.Farakade	Assistant Professor	M.Tech(CSE)	03/08/2022
9	Prof. S.S.Supanekar	Assistant Professor	M.Tech(CSE)	12/10/2023

List of supporting staff:

Sr. No.	Name	Designation	Qualification	Joined the dept on
1	Mr. P. V. Darandale	Instructor (T.L.A.)	B.E in Computer Engg	11/03/2014
2	Mr. D.M.Chougule	Instructor (T.L.A.)	Diploma Electronic Engg.	6/8/2022
3	Ms. P. . Gophane	Instructor (T.L.A.)	D.Ed	10/11/2022
4	Mr. Mahesh Kale	Instructor (T.L.A.)	B.E in Computer Engg	1/6/2023
5	Mr. D. S. Gupta	Instructor (T.L.A.)	B.E in Computer Engg	10/7/2013
6	Mr. Ganesh Jadhav	Lab At- tendant		02/6/2023
7	Ms. Nirmala Ugale	Lab At- tendant		06/12/22

List of Major Equipments:

- Desktop computers Total 140 Nos
- Lenovo Thinkcenter All in one 22Nos Configuration - CPU- Core i3 3.07GHz, RAM- 2GB HDD - 300 GB
- Wipro 20 No Configuration - CPU- Core 2 Duo 3.07GHz , RAM- 2GB HDD - 300 GB
- DELL Optiplex 780 - 60 Nos CPU- Core 2 Duo 2.93GHz , RAM- 1.9GB HDD - 300 GB
Linovo Think center (with CPU): 20 No
- Core i5 2.8 Ghz RAM 4GB HDD 500GB

STTP/FDPs Attended by Faculty

Sr. No.	Name of the participant	Title of the FDP / professional development / administrative training program	Dates (from-to) (DD-MM-YYYY)
1	Prof K.B.Sadafale	Generative AI Models and Applications of Machine Learning	21-05-2024 to 25-05-2024
2	Prof R.P. Bagawade	Artificial Intelligence: Knowledge Representation and Reasoning	10-01-2024 to 30-04-2024
3	Prof R.P. Bagawade	Artificial Intelligence using Prolog Programming	10-01-2024 to 27-05-2024
4	Prof K.B.Sadafale	A digital Hygienic approach in Blockchain Technology	26-02-2024 to 01-03-2024
5	Prof R.P. Bagawade	Faculty Development Program for Maharashtra DTE	01-07-2024 to 05-07-2024
6	Prof K.B.Sadafale	RECENT TRENDS IN MULTIDISCIPLINARY RESEARCH (Part 1 & 2 & 3)	29-04-2024 to 03-05-2024
7	Prof K.B.Sadafale	Next Generation Artificial Intelligence	11-03-2024 to 16-03-2024
8	Prof K.B.Sadafale	Cognitive Computing For Smart Application	18-03-2024 to 22-03-2024
9	Prof K.B.Sadafale	AI for sustainable Development	05-08-2024 to 9-08-2024
10	Prof K.B.Sadafale	Emerging Trends in Blockchain Technology	05-07-2024 to 20-07-2024
11	Prof S.S. Supnekar	Cognitive Computing for smart applications	18-03-2024 to 22-03-2024
12	Dr. S.A. Thorat	Emerging Trends in Blockchain Technology	15-07-2024 to 20-07-2024
13	Prof S.S. Supnekar	Ensuring research integrity: a digital hygiene approach in blockchain technology	26-02-2024 to 01-03-2024

14	Prof P.V.Kulkarni	Natural Language Processing and LLM's	28-02-2024 to 09-03-2024
15	Prof. S. G. Farkade	Cognitive Computing for smart applications	18-03-2024 to 22-03-2024
16	Prof. S. G. Farkade	Ensuring research integrity: a digital hygiene approach chain technology	26-02-2024 to 01-03-2024
17	Prof. S. G. Farkade	Emerging Trend in AI and Machine Learning	08/08/2023 to 12/08/2023
18	Prof. S. G. Farkade	Innovative Pedagogical Practices	03/07/2023 to 08/07/2023
19	Prof. S. G. Farkade	Next Generation Artificial Intelligence	11-03-2024 to 16-03-2024
20	Prof. S. G. Farkade	DELNET: Resources and Services	1/2/2024
21	Prof S.S. Supnekar	DELNET: Resources and Services	1/2/2024
22	Prof. S. G. Farkade	National level FDP on Mathematics Behind AI/ML	17/05/2023 to 18/05/2023
23	Prof. S. G. Farkade	ICT tools for Effective Teaching Learning	29/05/2023 to 3/6/2023

Part B:- Faculty Achievements

1. Paper/ Journal Publication by Faculties :

Title of paper	Name of the author/s	Name of journal	ISSN number	Year of publication
R Agri-Tech: Crop Recommendation Model	Ramdas Bagawade	Journal of engineering technology and innovative research	2349-5162	2023
Hardware Obfuscation Based Watermarking Technique for IPR Ownership Identification	Vandana Inamdar	International Journal of Reconfigurable Computing Volume 2023, s		2023
Helmet Detection and Number Plate Recognition	Vandana Inamdar	International Journal for Research in Applied Science & Engineering Technology	2321-9653	2023
Real-Time Social Distancing Detection	Vandana Inamdar	International Journal for Scientific Research & Development Vol. 11, Issue 3,	2321-0613	2023
Improving performance of recommendation systems using sentiment patterns of user	Dr. S. A. Thorat	International Journal of Information Technology	41870-023	2023

R and D activities:

S N	Name of faculty	Details
1.	Dr.S. U Ghumbre	Guided 02 candidates for their PhD
2.	Dr. V.S. Inamdar	Guided 02 candidates for their PhD

Part C:- Students Activities

List of Class Representatives:

Class	SE	TE	BE
CR	Sidharth Basale	Ranjitsing Gunjal	Namita Gawai

Annual Result by SPPU:

S.N.	Class	SE	TE	BE
1	All clear (%)	80.72	88.61	98.65
2	Total students appeared	83	79	74

1. List of Class Toppers with CGPA :

Class	Rank	Name of Student	SGPA/CGPA (Marks)	Class
SE Comp	1 st	1. THIKOLE ASHWINI PANDURANG	9.82	First Class With Distinction
	2 nd	2. RAUT RUSHIKESH DATTATRAY	9.68	First Class With Distinction
	3 rd	1. PATHADE ASHLESHA MOTHA	9.55	First Class With Distinction
TE Comp	1 st	1. GUND TEJAL VITTHAL	9.79	First Class With Distinction
	2 nd	2. KOTHALE MANASI SACHIN	9.60	First Class With Distinction
	3 rd	3. NIDAN PURVA KISHOR	9.43	First Class With Distinction
BE Comp	1 st	1. MALI EKNATH BHAGWAN	9.32	First Class With Distinction
	2 nd	2. TAWARE SAKSHI SUNIL	9.30	First Class With Distinction
	3 rd	3. KULKARNI PRADNYA SHARAD 3. KOTKAR AISH- WARYA DADASAHEB	9.18 9.18	First Class With Distinction

Government college of engineering and research, Avasari Khurd
Gate Qualified Students (23-24)

Sr. no.	Registration number/roll number for the exam	Names of students selected/ qualified	GATE	Marks
1	CS23S12064378	KHARAT ROHIT SUNIL	GATE 2023	64.67
2	CS23S12027174	MATASAGAR KOSHOR PRALHAD	GATE 2023	39.67
3	CS23S12021032	PRADNYA SHARAD KULKARNI	GATE 2023	31
4	CS23S12072204	YUGANDHAR SHRIKRUSHNA THAKARE	GATE 2023	31
5	CS23S12077042	ADITYA SHAM THOMBARE	GATE 2023	30.33
6	CS23S12058039	RUTWIK DEELIP BAGALE	GATE 2023	28.67
7	CS23S12058294	SANDIP YADAV WAGH	GATE 2023	22.67
8	DA24S12126042	ABHISHEK GUNWANT MOHITE	GATE 2024	38
9	DA24S12129023	ADITYA SHAM THOMBARE	GATE 2024	42.67
10	CS24S62130040	SANDIP YADAV WAGH	GATE 2024	31.24
11	CS24S52075392	SAUMYA SANTOSH TIWARI	GATE 2024	32.52
12	DA24S12129003	SOHAM SACHIN KARANJKAR	GATE 2024	34
13	CS24S52119015	SUSHANT SHANTARAM GAN-GURDE	GATE 2024	43.8

Training and Placement Details :

Year	Name of student placed	Program graduated from	Name of the employer with contact details / Name of institution joined	Pay package at appointment (In INR per annum)
2023-24	ABHISHEK GUN-WANT MOHITE	Computer	TCS Digital	7
2023-24	AVISHKAR GAIKWAD	Computer	TCS Digital	7
2023-24	KATARE DHANANJAY SANJAY	Computer	TCS Digital	7
2023-24	JAGDALE DIKSHA SUBHASH	Computer	TCS Ninja	3.36
2023-24	GOURAV SHARMA	Computer	TCS Digital	7
2023-24	ANSARI MOHAMMAD AYAJ HAYAT MOHAMMAD	Computer	TCS Prime	9
2023-24	JAGTAP NACHIKET NITIN	Computer	TCS Ninja	3.36
2023-24	MORE PIYUSH GIRISH	Computer	TCS Ninja	3.36
2023-24	MAHADIK RA-DHAKRUSHNA SHAMRAO	Computer	TCS Digital	7
2023-24	SAKSHI SUNIL GALBALE	Computer	TCS Digital	7
2023-24	WAGH SANDIP YADAV	Computer	TCS Digital	7
2023-24	TIWARI SAUMIL SANTOSH	Computer	TCS Prime	9
2023-24	GAWALI VAIBHAV TUKARAM	Computer	TCS Ninja	3.36
2023-24	SONAJE AKSHAY BHALCHANDRA	Computer	TCS Prime	9
2023-24	ABHIJEET TODARMAL PATIL	Computer	TCS Ninja	3.36

1. Students enrolled for Higher education :(23-24)

Year	Name of student who enrolled for higher education	Program graduated from	Year of graduation	Name of institution joined	
2023-24	Sushant Shantaram Gangurde	Computer	2024	Indian Institute of Science, Kanpur	M.Tech(Computer Science and Engineering)
2023-24	Aditya Sham Thombare	Computer	2024	Sardar Vallabhbhai National Institute of Technology, Surat	M.Tech (Data Science)
2023-24	Soham Sachin karanjkar	Computer	2024	Dr. B.R. Ambedkar National Institute of Technology, Jalandhar	M.Tech(Mathematics and Computing)

2. Details of Student representative at departmental & institute level for A. Y. 2023-24

Sr. No.	Name	Classes	Name of Association	Selected Post
1	Suyash Patil	BE	COMPSA	General Secretary
2	Rahul Gawade	TE	COMPSA	Joint General Secretary
3	Shubham Gadekar	TE	COMPSA	Technical Secretary
4	Yojit Waghmare	TE	COMPSA	Cultural Secretary
5	Abhishek Thange	TE	COMPSA	Boys Sports Secretary
6	Vrushali More	TE	COMPSA	Girls Sports Secretary
7	Snehal Dikey	BE	COMPSA	Finance Secretary

3.Details of Curricular & Co-curricular Activities participation and Achievements

Sr. No	Name of the student	Name of the event	Organized By	Achievements (Prize Secure)	Event Date
1	Pankaj Dattatray Dhawale	Samarth Technical Festival 2k24	Samarth Group of Institution college of engineering and Samarth Polytechnic Belhe	2nd Prize	6th March 2024
	Ganesh Machindra Bodakhe				
	Tejas Sahbrao Gawali				
2	Sahil Borse	I2I Competition	COEP, COEP Tech BHAU University	1st Prize	5th May 2024
	Pranav Patil				
	Kashish Sharma				
	Ganesh Lakhe				
	Amruta Pawar				

Part E:- Clubs

1. Elenctic Research Centre (ERC):

S N	Class	Courses Offered	Course Name	Total student Participated	No of Students Completed
1	B.E	Spoken tutorial	Java	34	32
2	T.E	Spoken tutorial	Python	59	59
3	S.E	Spoken tutorial	Advanced CPP	22	21

Date	Name of Student	Name of Event	Organized by	Achievement Prize
5 march 2024	Ganesh Bodakhe	Samarth technical Festival 2024	Samarth group of institution and engineering and polytechnic college.	2 nd prize
	Pankaj Dhawale			
	Tejas Gawale			
	Pranav Patil		COEP , COEP TECH	1 st prize
4 may 2024	Sahil borse	I2I competition	BHAU university and EATON	
	Ganesh Lakhe			
	Amruta Pawar			

DEPARTMENT OF ELECTRONICS AND TELE-COMMUNICATION

Part A:-About Department

The department of Electronics and Telecommunication Engineering is established in AY 2009-10 with intake of 60. Academic of the department for the students is completed by the faculty appointed by the MPSC with the support of visiting faculty appointed by the Principal. Department has 08 laboratories to cater the need of academics as per SPPU, Pune. Department arranges the site visits, expert talks, workshop/webinars/training, soft skill development programme, etc., to meet requirement of student and to make them competent engineers to cater the need of society.

Department motivates the students to take part in curricular, co-curricular and extracurricular activities and technical activities to make them grown up citizen to work for nation. These activities are like learning /certification of NPTEL-courses, Swayam, Spoken tutorial by IITB,. Students are asked to participate in technical &non-technical activities arranged by the institute and other colleges in SPPU and other state of Maharashtra.

Faculty members are motivated to attend the workshops/seminars/FDP/STTP to upgrade their knowledge to share with the students. Faculty works for the SPPU Pune for conduct of various examinations, Committees, paper assessment through CAP organised by The GCOEARA/SPPU, Pune. Departments aim in future to go for NBA accreditation after satisfying the criteria of faculty and infrastructure.

Department looks after the maintenance of Electrical related work in the campus in association with the PWD. Our faculty members are involved in the Academic related activities: such as AQAC In-charge at Institute Level (2022-2023), Exam coordination

List of Faculties:

S N	Name of faculty	Designation	Qualification
1	Dr. M. S. Nagmode	Professor and Head	PhD in E&Tc Engg.
2	Dr. K. V. Thakur	Assistant Professor	PhD in E&Tc Engg.
3	Dr. N. P. Futane	Assistant Professor	PhD in E&Tc Engg.
4	Shri G. R. Phulay	Assistant Professor	M.E.in Electronics Engineeering
5	Dr. A. S. Mane	Assistant Professor	PhD in Electrical Engg.
6	Shri A. P. Gargade	Assistant Professor	M.E.in E&TC Engineeering
7	Shri T. T. Waghmare	Assistant Professor	Ph.D. pursuing
8	Smt.D.B. Maheshwari	Assistant Professor	M.E.in E&TC Engineeering

List of Supporting Staff:

S. N.	Name	Designation	Qualification	Joined the dept on
1	Smt. M.V. Deshpande	Instructor(Technical Lab Assistant)	Diploma in Electronics & Telecommunication Engg	14.06.2023
2	Smt. A.V. Danure	Instructor(Technical Lab Assistant)	Diploma in Electronics & Telecommunication Engg.	13.08.2021
3	Shri K.G. Kambale	Instructor(Technical Lab Assistant)	Diploma in Electronics & Communication Engg	09.12.2021
4	Smt. S.B. Morde	Instructor(Technical Lab Assistant)	BE in Information Technology	01.08.2015
5	Shri G. P. Burde	Lab Attendant	SSC FAIL	
6	Smt. R. U. Raghuvanshi	Lab Attendant	SSC FAIL	

Details of Major Laboratories in the Department:

S.N.	Name of Laboratory	Lab Incharge	Lab Assistant
1	Computer Centre Lab	Dr. K.V.Thakur	Smt. S.B.Morde
2	Microcontroller & VLSI Lab	Dr. N. P. Futane	Smt. S.B.Morde
3	Digital Electronics & LIC Lab	Shri A. P. Gargade	Shri K.G. Kambale
4	Analog Communication & EDC Lab	Shri G.R. Phulay	Smt.M.V. Deshpande
5	Basic Electronics Lab	Dr. K.V.Thakur	Smt.M.V. Deshpande
6	Basic Electrical Engineering Lab	Dr. A.S. Mane	Smt.A.V.Danure
7	Power Electronics Lab	Smt. D.B. Maheshwari	Shri K.G. Kambale
8	PCB Lab	Shri G.R. Phulay	Smt.M.V. Deshpande

List of Major Equipment's:

<ul style="list-style-type: none"> • TMSS320C6748DSP Development Kit (Model TMDLCK6748) Original from Texas Instrument • Video processing kit • PLD kit • Digital IC tester • CDMA Trainer Kit • PSTN TST Switching Trainer Kit • Antenna Trainer Kit (RF Transmitter +RF Receiver + Steeper Motor Controller) (Amitec Make) • DSO (Aplab 60MHz 1Gs15 colour Digital Storage Oscilloscope) • Antennas (Amitech make) • Optical Power Meter(fiber test meter) • Link B and Link C Optical Trainer Kit • OTDR • Satellite Trainer (Transponder + Uplink Transmitter + Downlink Receiver) • Spectrum Analyzer (9Khz-1.5 Ghz) • Generator Set 	<ul style="list-style-type: none"> • Microwave Text Bench (Microwave components + Klystron Power Supply + Gunn Power Supply) • Trainer Kit for Voltage And Current Relationship In balanced 3 phase Star and Delta connected load • DC Series motor with loading arrangement 1 HP 1500 rpm,230 Volt • DC Shunt motor with loading arrangement 1 HP 1500 rpm,230 Volt • Variable DC Rectifier 0-230V at 20 Ampere • 3 Phase Induction load Bank- 3 KV 12 Ampere with Ammeter And Voltmeter • Squirrel cage Induction Motor with mechanical loading arrangement without DOL starter • Online UPS for single Phase AC Input And Output 3KVA, 30 minutes backup
---	---

Industrial Visit to Maha Metro Pune 31/08/2023



1. STTP/FDPs organized by department: Advancements in Deep learning and its engineering applications.
(DTE sponsored FDP: Duration 13/02/2024 to 17/02/2024)





FDP Participants Visit to GMRT

2. STTP/FDPs Attended by Faculty : organized by department/faculty:

Sr. No.	Name of the participant	Title of the FDP / professional development / administrative training program	Dates (from-to) (DD-MM-YYYY)
1	A.P.Gargade	AI Evolution: From Foundations to Regenerative AI	29-01-2024 to 2-02-2024
2	A.P Gargade	Applied ML: Exploring Real World Applications	15-01-2024 To 19-01-2024
3	A.P.Gargade	Embedded Systems in Real Time and Applications of IOT	25-09-2023 to -29-09-2023.
4	A.P.Gargade	Future Trends in 5G and 6G: Challenges, Architecture and Applications	16-08-2023 to 20-08-2023
5	A.P.Gargade	Recent Trends in artificial intelligence and data science	24 -07-2023 To -28 -07- 2023
6	D.B. Maheshwari	Advancement in Deep Learning and its Engineering Applications	13-02-2024 to 17-02-2024
7	D.B. Maheshwari	Recent Trends in Artificial Intelligence & Data Science	24-7-2023 to 28-7-2023
8	Dr. N. P. Futane	Certificate Course in 5G Mobile communications	10-04-2024 to 14-04-2024
9	Dr.K.V. Thakur	Recent Trends in Electronic Communication and Semiconductor	10-6-2024 to 14-6-2024
10	Dr.M.S. Nagmode	5G and its impact on IoT Applications in Agriculture and Manufacturing sectors	27-11-2023 to 02-12-2023.
11	G.R Phulay	Advancement in Deep Learning and its Engineering Applications	13-02-2024 to 17-02-2024
12	G.R Phulay	Emerging Trends in Quantum Computing ,Embedded system Block Chain and Imaging	31-01-2024 to 05-02- 2024
3	G.R Phulay	Future Trends in 5G and 6G	16-08-2023 to 20-08- 2023
14	G.R Phulay	Implementing IoT & Machine Learning Applications on Raspberry Pi	03-07 -2023 to 07-07-2023
15	G.R Phulay	Recent Trends in Artificial Intelligence &DataScience	24-07-2023 to 28-o7-2023

Part B:-Faculty Achievements Publications

Super twisting approach of a higher order sliding mode controller for a flyback DC–DC converter in photovoltaic applications	Tushar Tanaji Waghmare	E&TC Dept	International Journal of Circuit Theory and Applications	2023
Sliding mode controller for multiphase bidirectional flyback converter topology in hybrid electric vehicle applications	Tushar Tanaji Waghmare	E&TC Dept	Energy Reports	2023
Adaptive Deep CNN Classifier for Suspicious Activity Detection from Surveillance Video	Dr M S Nagmode, Deepali Potdar,	E&TC Dept	ISTE Indian Journal of Technical Education Journal, Vol. 47, special issue, , pg. 198-203.	January 2024,

Part C:- Students Achievement

E-yantra Competition Participation at IITB Mumbai

- **e-Yantra Robotics Competition 2023-2024**

- **Theme – GEO-GUIDE**

- 1) Chetan Sawant
- 2) Azar Javeed Pathan
- 3) Rahul Bharti
- 4) Prachi Dadasaheb Devram

- **Robocon Students Participation and achievement in different competition.**



ROBOCON2024 AIR 6 Fusion Innovator award



SCIENCE DAY 2024 3RD RANK POSTER PRESENTATION



TECHFEST 2024 PARTICIPATION LINE FOLLOWER AND COZMO CLENCH



WEB WIZARD 2.0 2ND RANK WEB DESIGNING



CREDENZ 20245TH RANK ROBOSOCGER



MINDSPARK 20242ND PRIZE FUSION ID COMPETITION

DEPARTMENT OF INSTRUMENTATION &

CONTROL ENGINEERING

About Department:

The department of Instrumentation and Control Engineering is established in academic year 2010-11 with intake of 60. At present around 300 students from FE to BE Instrumentation and Control are taking the education in department. Department has six laboratories to cater the need of academics as per SPPU, Pune. Department arranges the industrial visits, expert talk, training, soft skill development programme, etc, to meet requirement of student to make them a complete Instrumentation and Control Engineer by education and to take care of the society. Department motivate the students to take part in curricular/co-curricular and extracurricular activities. These activities are like online certification of NPTL courses by Swayam, Spoken tutorial by IIT Bombay, ABINITIO a technical event in the institute, Project Competitions through Innovation club, ROBOCON club etc. Students are encouraged to take part in activities arranged by the institute and other colleges in SPPU or at State and National level too.

Faculty /staff are motivated to attend the workshops/seminars/FDP/STTP to upgrade their knowledge to share among the students. Faculty works for the SPPU Pune for conduct of various examinations, designing of syllabus, Committees, attend the paper evaluation at CAP organised by the GCOEARA/SPPU, Pune.

Department took participation in cleanliness drive in the campus / department to keep the area hygiene. Department aims in future to go for NBA accreditation after meeting the criteria of faculty and infrastructure.

Laboratories in the Department:

- Computer Lab
- Forbes Marshal Centre of Excellence
- Process Instrumentation Lab
- Electronic Instrumentation Lab
- Measurement Lab
- Sensor Lab
- Control System Lab
- Project and Innovation Lab
- Seminar Hall

List of Major Equipment's:

<ul style="list-style-type: none">• DCS Trainer Kit• PLC trainer kit• Flow Measurement Setup using various sensors• Open loop and close loop system with PID controller• Hydraulic and Pneumatic Trainer kit• Digital Flame Photometer	<ul style="list-style-type: none">• Load Cell Trainer• LVDT Setup for displacement measurement• Dead Weight Pressure gauge Tester• Liquid Level Measurement setup• Temperature measurement setup• Photoelectric Colorimeter• 8051/AVR Microcontroller Kits
---	--

Application Software's

- Virtual instrumentation interface
- Labview Make NI software
- Automation Studio Software
- Codesys Software
- MOVICON Software Setup
- JM Suite Software

Department Library:

No. of Titles	77
No. of Volumes	2
No. of Journals/Magazine	1

List of Faculties:

Sr. No.	Name of the Faculty	Designation	Qualification
1	Dr. N. S. Nehe	Professor and Head of Department	BE, ME, PhD
2	Dr. M. R. Bongulwar	Asso. Professor	BE, ME, PhD
3	Dr. D. K. Maghade	Asso. Professor	BE, ME, PhD
4	Prof. S. R. Patil	Asso. Professor (CAS)	BE, ME, PhD(Pursuing)
5	Prof.M.M.Akole	Asst.Professor	BE, M.Tech., Ph.D.(Pursuing)
6	Prof. N. M. Karajanagi	Asst. Professor	BE, ME
7	Dr. N. P. Wagh	Asst. Professor	Ph.D., M.E. Process Instru, B.E. Instrumentation
8	Prof. (Smt) D. B. Trimukhe	Asst. Professor	BE, M. Tech
9	Prof. (Smt) A. V. Kulkarni	Asst. Professor	BE, ME
10	Dr. Kalyana Sundaram	Professor of Practice	BE, M.Tech, PhD.

List of Instructors (Technical Lab Assistant):

Sr. No.	Name of faculty	Designation	Qualification
1	Shri. G. S. Shirke	Technical Lab Assistant	B.E. Computer
2	Shri D. T. Rathod	Technical Lab Assistant	B.E. (Etx. & Telecomm. Engg.)
3	Smt.Swati Borbande	Technical Lab Assistant	Diploma in Instrumentation, BA
4	Shri.M.A. Muley	Technical Lab Assistant	Diplomain Mechanical Engg.

List of Laboratory Attendant:

1. Shri. Akash Sarke
2. Smt. S.M. Landge
3. Shri.R.R. Rokde

Department Student Association A.Y. 2023-24:

Sr. No.	Name of the Post	Name of Student	Class
1	President	Mangesh Arote	BE
2	Vice-president	Vivek Todkar	TE
3	Secretary	Gayatri Gidadkar	TE
4	Treasurer	Swarup Phatangare	TE
5	Treasurer	Om Gaikar	SE
6	Ladies Representative	Tejal Kharote	FE
		Sakshi Lothe	SE
		Nikita Gore	TE
		Swaroop Kanade	BE
7	Class Representative	Prathmesh Nighot	FE
		Ketan Gore	SE
		Lokesh Chinchore	TE
		Janhavi Deshpande	BE

Workshop Seminar/Expert talk / Project Exhibition/ Industrial Visit etc, organized in the department:

1. Seminar/ Expert talk organised is as follows:

Sr. No.	Title of Activity	Date of conduct	Beneficiary
1	Dr. M.R. Bongulwar, Associate Professor, Instrumentation & Control Department, gave a knowledgeable lecture on the subject of "Role of Instrumentation Engineer."	4 th September 2023.	SE Students
2	Ms. Pratiksha Shidruk, a BMS Engineer, delivered an expert lecture on "Building Management System."	12 th October. 2023	TE & BE Students
4	Prof. N.M. Karajangi, Assistant Professor, Instrumentation and Control Department, conducted a session of yoga.	27 th Jan 2024 to 4 th Feb 2024	NSS students
5	Dr. Nivedita Wagh, Assistant Professor, conducted Webinar on "DELNET Resources & Services"	1 st Feb 2024	To all Students and Teaching and Non-Teaching faculties of GCOEARA
6	Expert discussion on "Analytical Instruments & Techniques" by Dr. Manisha Khaladkar, Assistant Professor, Applied Science Department	12 th February, 2024	TE Students
7	Dr. Nivedita Wagh, Assistant Professor, conducted One Day Workshop on "Awareness of Virtual Laboratory"	1 st March 2024	FE,SE, TE, BE students of Instru and teaching and non-teaching faculties

8	Dr. D.K. Maghade, Associate Professor, Instrumentation & Control Department, gave one-day hands on training on "Labview" software.	16 th April, 2024.	TE & BE Students
9	Dr. D.K. Maghade, Associate Professor, Instrumentation & Control Dept., delivered a one-day expert session named "Technical Report Writing with LaTeX."	21 st May, 2024.	TE & BE Students

2. The DTE-sponsored Faculty Development Program on "Advances in Deep Learning and Its Engineering Applications" was jointly organized by the Department of Instrumentation & Control Engineering with Electronics and Telecommunication Engineering, on February 13–17, 2024.



(Inauguration of Faculty Development Program)

- **Registration details:** A total of twenty-five participants from government polytechnics and engineering institutions registered for the course.
- **Resource Person for the FDP:**
 1. An expert discussion by Mr. Amol Madane of Tata Motors in Pune about "AI and ML applications in the automotive trade."
 2. Professor B.K. Mohan of IIT Bombay gave an expert talk on "Machine learning and deep learning."
 3. Dr. Varsha Harpale of Pimpri Chinchwad College of Engineering in Pune gave a knowledgeable discussion on "The use of deep learning to recognize speech and emotions."
 4. Dr. Bartakke from COEP Technical University, Pune delivered the expert session on "Deep learning applications in data mining."
 5. A technical session on "5G mobile communication and deep learning" led by Dr. Munnir Sayyad of Jio Private Limited in Mumbai.

Government college of engineering and research, Avasari Khurd

- **Expert talk by the departmental faculties:**

1. An expert lecture on “Deep Reinforcement Learning” was given by Prof. S.R.Patil.
2. An expert session on “Deep Learning using Convolutional Neural Networks” was conducted by Prof. D.B. Trimukhe.

- **Faculty field visit**

A field trip to GMRT Khodad in Pune, arranged by the department for enrolled faculty participants.



(FDP participants at GMRT Khodad, Pune)

7) Industrial Visit

- On February 20, 2024, the department arranged industrial visit for third-year students to study analytical instrumentation at the National Chemical Laboratory in Pashan, Pune. Dr. M.R. Bongulwar and Prof. A.V. Kulkarni coordinated the field trip.
- The department arranged field visit for third- and final-year students to study the fundamentals of Process Control & Industrial Automation at Forbes Marshall, Chakan Plant, Pune, on February 28, 2024. Professors S.R.Patil & D.B.Trimukhe organized the visit.



(Forbes Marshall, Chakan Plant, Pune)

- Industrial visit organised by the department to study SCADA system and process Instrumentation involved in water treatment plant application at PCMC water treatment plant, Nigdi held on 29th February, 2024.



(PCMC Water Purification Plant, Nigdi)

Forbes Marshall Centre of Excellence

Forbes Marshall Centre of Excellence equipped with Flow – Level Laboratory with Modern DCS funded by Forbes Marshall Pvt. Ltd. Pune in 2023. Inauguration Ceremony of Forbes Marshall Centre of Excellence (Flow – Level Laboratory with Modern DCS) held at Instrumentation and Control Engineering Department dated on 7th October, 2023 at the hands of Dr. Vinod Mohitkar, Director, Directorate of Technical Education, Maharashtra State and Shri. Chandrashekhar Dhamankar, General Manager, Forbes Marshall Pvt. Ltd., Pune In the presence of Dr. D. V. Jadhav, Joint Director, RO Pune, Dr. Dhanpal Kamble Dy. Director, DTE Mumbai and Dr. D. R. Pangvane, Principal, GCOEAR, Avasari. Dr. D. K. Maghade, Prof. S. R. Patil and Prof. D. B. Trimukhe explained and demonstrated the Flow – Level Laboratory with Modern DCS.



(Inauguration Ceremony of Forbes Marshall Centre of Excellence by Dr. Vinod Mohitkar, Director, Directorate of Technical Education, Maharashtra State and Shri. Chandrashekhar Dhamankar, General Manager, Forbes Marshall Pvt. Ltd., Pune)



(Flow – Level Laboratory with Modern DCS Setup)



(Demonstration of DCS Experimental Setup by Dr.D.K.Maghade, Prof.S.R.Patil and Prof.D.B.Trimukhe)



(All faculties of Instrumentation & Control Engineering Department with DTE Team and Forbes Marshall Team)

Part B: -Faculty Achievements:

Research Work:

- Prof. Smt. N. P. Wagh has completed her research work (Ph.D.) from College of Engineering Pune and under QIP scheme on 23 April 2024.
- Prof. S. R. Patil is pursuing his Ph.D. at College of Engineering Pune.
- Dr.M.R.Bongulwar worked as Reviewer and Session chair at 6h IEEE International conference on emerging smart computing and informatics held on 5th to 7th March 2024

• **Publication details (National/International/Conference/Journal):**

Sr. No.	Author Name	Research Paper
1	Dr. N.P. Wagh	<p>International Journal</p> <p>Monitoring exhaust air temperature and detecting faults during milk spray drying using data-driven framework</p> <p>Published in Drying Technology (Taylor & Francis) DOI: 10.1080/07373937.2023.2213312</p>
2	Dr. N.P. Wagh	<p>International Journal</p> <p>A data-analytic framework to monitor product density of four effect falling-film evaporator for skimmed milk production</p> <p>Published in Journal of Food Process Engineering (Wiley Publisher) https://doi.org/10.1111/jfpe.14364</p>
3	Dr. N.P. Wagh	<p>International Conference</p> <p>Framework with Data Analytic for Fault Detection and Performance Prediction of a Steam Boiler: A Case Study</p> <p>Published with Springer</p> <p>9th International and 49th national Conference of Fluid Mechanics and Fluid Power (FMFP-2022)</p>
4	Dr. N.P. Wagh	<p>International Conference</p> <p>Data-Driven Frameworks for System Identification of a Steam Generator</p> <p>Published with Springer</p> <p>Proceedings of International Conference on Data Management, Analytics and Innovations</p>
5	Dr.M.R.Bongulwar	<p>AI based fundus Image Classification using Bayesian classifier in proceeding of 10th International Conference on Communication and Signal Processing 2024, ICCSP 2024 pp.1583-1587.</p>

STTP/FDP/Workshops Attended by Faculty:

Sr. No	Faculty name	Type of FDP /STTP/ Workshop	Title of FDP /STTP	Organizing Institute	Duration with dates
1	Dr. N. S. Nehe	Workshop	Sustainable Development Goals	YASHADA, Pune	15 and 16 June 2023
2	Prof. Smt.D.B.Trimukhe	FDP	Faculty Induction Program	MSFDA, Pune	05/06/2023 to 02/07/2023
3	Prof. Smt.D.B.Trimukhe	FDP	Recent Trends in AI Tools	D.Y.C.O.E Akurdi	24/07/2023 to 28/07/2023
4	Prof. Smt.A.V.Kulkarni	FDP	Recent Trends in AI Tools	D.Y.C.O.E Akurdi	24/07/2023 to 28/07/2023
5	Prof. A.V. Kulkarni	FDP	Infosys Spring-board	Infosys Ltd. Pune	30/11/23 to 02/12/24
6	Prof. A.V. Kulkarni	Workshop	“Introduction to Embedded systems and Robotics	E- Yantra, IIT Bombay	“04/07/20 to 05/07/2024
7	Prof. A.V. Kulkarni	FDP	The new era of Bio- Engineering and Applications	“MIT WPU Pune	01/07/20 to 05/07/2024

Part C: Students Activities and Achievements:

List of Class Representatives:

Class	SE	TE	BE
CR1	Prathmesh Nighot	Pokale Ganesh Ramrao	Kambale Payal Amol

Annual Result by SPPU:

SE	TE	BE
88.24	100	100

List of Class Toppers with CGPA:

Class	Name of student	CGPA	Rank
SE (I&C)	Pokale Ganesh Ramrao	8.93	1
	Mane Ram Gopalrao	8.84	2
	Wani Chinmay Rajendra	8.57	3
	Gaikar Om Sandeep	8.5	4
	Malvekar Avadhoot Udayraj	8.45	5
TE(I&C)	Kambale Payal Amol	9.49	1
	Giradkar Gayatri Narendra	9.12	2
	Shrirame Megha Rajendra	8.86	3
	Todkar Vivek Harihar	8.83	4
	Pawar Atharva Avinash	8.76	5
BE (I&C)	Thore Anuja Sanjay	9.22	1

	Jagdale Siddhi Prashant	8.81	2
	Salunkhe Abhijit Hanamanta	8.77	3
	Deshapande Janhavi Kiran	8.72	4
	Shinde Rahul Anil	8.69	5

Spoken Tutorial Activities: Spoken Tutorial is a multi-award winning educational content activity by IIT; Bombay conducted every year to promote open source software's use among departmental students with SPPU Curriculum. Number of student registered and completed training from instrumentation department is as follows:

Class	FOSS	No. Of students completed the Training program
SE Instru. & Control	Python 3.4.3	50
TE Instru. & Control	Python 3.4.3	47
BE Instru. & Control	Python 3.4.3	15

Students Internship:

Name of Student	Duration	Industry Name	Location
ABHILASHA GAIK-WAD	15-12-2024/15-01-2024	Origin Software Solution	Pune
YASH DANT	05-12-2023/05-01-2024	RevaTech Software Solution	Pune
ATKAR SAKSHI	11-12-2023/13-01-2024	Pirsaheb Milk Product	Avasari
PARVATI MAD-DERLWAR	11-12-2023/13-01-2024	Pirsaheb Milk Product	Avasari
TEJASWINI CHAVAN	11-12-2023/13-01-2024	Pirsaheb Milk Product	Avasari
LOKESH CHINCHORE	15-12-2023/15-01-2024	Omnicient Automation	Pune
AJABE ARTI SANJAY	15-12-2024/15-01-2024	Origin Software Solution	Pune
ANSARI ISHTYBAZ SOFIYAN	20-12-2023/20-01-2023	Vilas Sahakari Karkhana	Latur
AUTADE SUMIT RA-JENDRA	29-1-2024/20-2-2024	Amrut Sanjivini Tech.Ltd.	Kopargaon
BAHATAKAR SHIVANI MANOHAR	11-12-2023/13-01-2024	Pirsaheb Milk Product	Avasari
BHAGAT VAISHNAVI RAMRAO	15-12-2023/15-01-2024	Omnicient Automation	Pune
BHALERAO ROHAN SHANTARAM	15-12-2023/14-01-2024	Green Automation	Pune
BHOSALE NEERAJ SANJAY	01-01-2024/25-01-2024	Sunfresh Agro Industry	Rahata
BIRADAR SUJATA NAGNATH	20-12-2023/20-01-2024	Romax Tech Pvt. Ltd	Pune
BIRADAR SUPRIYA SANJAYKUMAR	20-12-2023/20-01-2024	Romax Tech Pvt. Ltd	Pune
BURSE ABHISHEK SANTOSH	15-12-2023/15-01-2024	IQ Motorware Pvt.Ltd.	Pune

CHIKHALE NIRAJ ARUN	15-12-2024/15-01-2024	Finelaser Industry	Pune
DEVSINGKAR SUSMITA DATTA	11-12-2023/13-01-2024	Pirsaheb Milk Product	Avasari
DHABE YASH MANOJ	16-12-2023/16-01-2024	Viak India	Pune
GADE MADHAVI RAMDAS	25-12-2023/25-01-2024	Accurate Industrial Control	Pune
GAMBHIRE ADITYA RAMESH	15-12-2024/15-01-2024	Origin Software Solution	Pune
GHORPADE VRUSHALI RAMBHAU	15-12-2024/15-01-2024	Origin Software Solution	Pune
GIRADKAR GAYATRI NARENDRA	25-12-2023/25-01-2024	Accurate Industrial Control	Pune
GORE NIKITA RAJENDRA	11-12-2023/11-01-2024	Code Clause	Pune
HINGE VAISHNAVI ARUN	11-12-2023/13-01-2024	Pirsaheb Milk Product	Avasari
HONAWALE PRANAV TANAJI	11-12-2023/3-01-2024	Parag Milk & Foods	Manchar
HULGUTTE VAIBHAV DATTATRAY	15-12-2023/15-01-2024	IQ Motorware Pvt.Ltd.	Pune
JADHAV SHASHANK GAJANAN	15-12-2023/15-01-2024	IQ Motorware Pvt.Ltd.	Pune
JAGTAP TEJASHRI SHRIHARI	11-12-2023/11-01-2024	K.A.T.S.S. Sugar Factory	Jalna
KALSHETTI SHUBHAM BASAWRAJ	10-12-2023/10-01-2024	G.K.Hydraulics	Nanded
KAMBLE PAYAL AMOL	01-12-2024/25-01-2024	Sunfresh Agro Industry	Rahata
KHEDKAR GAURI VAIBHAV	15-12-2023/10-01-2024	AMM.FORGE Pvt.Ltd	Pune
KHEDKAR SHIVAM RAMDAS	11-12-2023/03-01-2024	Govitra Milk Industry	Avasari
KOMBE DHIRAJ GAJANAN	21-12-2023/20-01-2024	Easy Solution	Pune
MAHANKALE KSHITIJA PUNDLIK	26-12-2023/24-01-2024	Tata Power	Khopoli
MALSHETTE VANSHIKA D	20-12-2023/20-01-2024	Romax Tech Pvt. Ltd	Pune
MARKHALE AKASH MADHAV	10-12-2023/10-01-2024	G.K.Hydraulics	Nanded
MULANI ARSHIN YAKUB	1-12-2023/1-1-2024	Parvi engg pvt.Ltd.	Pune
MUNGLE CHAITANY SAMADHAN	15-12-2023/15-01-2024	Omnicient Automation	Pune
NITURE ANKITA DNYANOBA	11-12-2023/15-01-2024	Oasis Infobyte	Pune
PANDE NARENDRA SHYAMRAO	15-12-2023/15-01-2024	Ideal Solution Pvt.Ltd.	Pune
PATHAN KHAN KHIZAR KHAN AKBAR	13-12-2023/13-01-2024	Samikash Electrical Sevices	Aurangabad
PATIL VAISHNAVI KISHOR	22-1-2024/21-02-2024	Stanley Black & Decker	Pune

Government college of engineering and research, Avasari Khurd

PAWALE AISHWARYA KISAN	20-12-2023/20-01-2024	Romax Tech Pvt. Ltd	Pune
PAWAR ANUP GA-JANAN	16-12-2023/16-01-2024	Trinity Engg.Pvt.Ltd.	Pune
PAWAR ATHARV AVI-NASH	16-12-2023/16-01-2024	Viak India	Pune
SAWANT KIRAN ANANT	18-12-2023/30-01-2024	Emperical Tech	Pune
SHELAKH AAKHILESH SHIVAJI	20-12-2023/22-01-2024	Gauric Automation	Kolhapur
SHINDE ABHAY SANJAY	13-12-2023/06-01-2024	Aerocirade Automation	Pune
SHRIRAME MEGHA RAJENDRA	11-12-2023/05-01-2024	Koradi Training Center	Nagpur
SOHAM TATYASAHEB JADHAV	25-12-2023/25-01-2024	Spread IT Solution	Kolhapur
THORAT SAMIKSHA BABURAO	16-01-2023/03-02-2024	Forbes Company	Pune
TIKKAL SAKSHI RAJENDRA	11-12-2023/11-01-2024	Sofcon Training	Pune
VIDHATE MAYURI NAMADEV	03-12-2023/03-01-2024	Inotek Enterprise	Kolhapur

Students' Participation in Extracurricular Activities:

Sports Event	Date of Conduction	No. of Participants
Football Team Boys	20-Feb-24	16
Cricket Team Boys	21-Feb-24	14
Kabaddi Boys	22-Feb-24	14
Kabbadi Girls	23-Feb-24	9
Kho Kho Boys	24-Feb-24	12
Box Cricket Boys	25-Feb-24	10
Box Cricket Girls	26-Feb-24	8
Volleyball Boys	27-Feb-24	9
Volleyball Girls	28-Feb-24	10
Langadi Girls	20-Feb-24	12
Tug of War Boys	21-Feb-24	9
Tug of War Boys	22-Feb-24	10
TABLE TENNIS BOYS	23-Feb-24	3
TABLE TENNIS GIRLS	24-Feb-24	3
Carrom Boys	25-Feb-24	3
Carrom Girls	26-Feb-24	3
Chess Boys	27-Feb-24	3
Chess Girls	28-Feb-24	3
Badminton Boys	25-Feb-24	3
Badminton Girls	26-Feb-24	3

Placement:

Name of Student	Industry Name
Janhavi Deshpande	Emerson
Devavrat Bandale	Emerson
Anuja Thore	Emerson
	Adani Enterprise Ltd.
Pranjali Ghorpade	Emerson
Sejal Khade	Emerson
Swaroop Kanade	Emerson
Priyanka Pol	Teclogos Automation, Pune
	Cipla Private Ltd.

Industry Sponsored Project AY 2023-24

Gr No	Name of Students	Roll No.	Project Guide	Project Title	Industry Sponsored/ Collaborative
1	Jagdale Siddhi Prashanat	20161044	Prof. S. R. Patil	MATLAB and DCS integration with pilot plant	Collaborative Institute: COEP Technological University
	Gaulkar Sanskruti Dhananjay	20163074			
	Jagdale Omkar Anil	20161001			
	Firke Ketan Vilas	20161011			
2	Sukruti Sanjay Yeola	20161003	Dr. N. S. Nehe	Servo based needle feeder conveyor using delta PLC	Xbotic Automation, Bhosari, Pune
	Mangesh Sanjay Arote	20161014			
	Tejas Machhindra Jadhav	20161035			
	Shruti Narayan Kale	20161039			
3	Anushka Vikramrao Pawar	20161042	Prof. A. V. Kulkarni	Tank welding robot	Taknek Automation System Pvt. Ltd. Talawade, Pune
	Payal Hanumant Labade	21261105			
	Vaishnavi Rajesh Bhor	20161019			
4	Ubale Tejas Sandip	20161045	Prof. S. R. Patil	Smart energy and Irrigation management	Advantys Systems Pvt. Ltd. Tathawade, Pune
	Thore Anuja Sanjay	20162064			
	Hiremath Chaitrali Gurushant	20161030			
5	Berde Sahil Sujay	21261085	Prof. M. M. Akole	Smart farming using Arduina and PLC	Vramp Automation, Talawade, Pune
	Kadav Yash Mahendra	21261086			
	Khangle Atharv Anil	21261103			
	Gaikwad Aditi C.	21261088			

Other Activities by the departmental faculties and students:

- Under the direction of Prof. M.M. Akole, the College Cultural Team, led by Ashay Sakhare from B.E. Instrument & Control, took part in the Bhimashankar Karandak on December 2, 2024.
- On December 16, 2023, Prof. D.B. Trimukhe delivered sessions at Maharashtra State Faculty Development Academy (MSFDA), Pune, on "Experiences of Faculty Induction Program" for the Faculty Induction Program in November–December 2023.
- The Departmental Innovation Club Team, led by Professor N.M. Karajangi, took part in DIPEX 2024 in Mumbai on January 30, 2024.

DEPARTMENT OF MECHANICAL ENGINEERING

About Department:

The department was established in 2009 and has very good infrastructural facilities including fairly well-equipped laboratories and a Seminar Hall. The department has 5 Associate Professors and 4 Assistant Professors at present. All faculty members are qualified, well experienced and dedicated. In addition, there are 5 Technical Laboratory Assistants and 2 Laboratory Attendants, all of whom are also well qualified. Emphasis is given to structured curriculum coverage, by arranging industrial visits, expert talks, guest lectures, guidance sessions and trying to have industry sponsored projects as far as possible. Students are constantly encouraged to participate in sports, cultural and technical activities so as to have all round development. The department is accredited by National Board of Accreditation for 3 years from July 2022 to June 2025.

List of Faculties:

Sr. No.	Name of faculty	Designation	Qualification
1	Dr. S. V. Kshirsagar	Associate Professor	PhD in (Mech.), M.E. (Mech - Design)
2	Dr. S. S. Deshpande	Associate Professor	PhD in (Mech.), M.E. (Mech - CAD CAM)
3	Dr. C. M. Sewatkar	Associate Professor (CAS)	PhD in (Mech.), M.E. (Mech - Thermal)
4	Dr. S. V. Karmare	Associate Professor (CAS)	PhD in (Mech.), M.E. (Mech. - Power Engg.)
5	Dr. B. A. Patil	Assistant Professor	PhD in (Mech.), M.E. (Mech. - CAD CAM)
6	Mr. N. V. Sali	Associate Professor	M.E. (Mech. - Power Engg.)
7	Mr. J. M. Arackal	Assistant Professor	M.E. (Mech. - Design)
8	Mr. N. D. Padawale	Assistant Professor	M. Tech (Machine Design)
9	Mrs. S. R. Kulkarni	Assistant Professor	M. Tech (CAD CAM)

List of Instructors (Technical Lab Assistant):

Sr. No.	Name of faculty	Designation	Qualification
1	Shri. B. M. Bolkavthekar	Instructor (T.L.A.)	NCTVT,ITI
2	Smt. P. D. Borade	Instructor (T.L.A.)	Diploma in Production Engg.
3	Smt. S. S. Jaware	Instructor (T.L.A.)	Diploma in Metallurgy Engg.
4	Smt. K.P. Bhagwat	Instructor (T.L.A.)	Diploma in Computer Technology
5	Shri. M. V. Hande	Instructor (T.L.A.)	MA, NCTVT, ITI

List of Laboratory Attendant:

Sr. No.	Name of faculty	Designation	Qualification
1	Shri. A. G. Jadhao	Lab Attendant	B. A
2	Smt. C. A. Hagare	Lab Attendant	9 th Pass

No of Students in the Department for AY2023-24:

Class	SE	TE	BE
Intake	60+12	60+12	60+12
No of students	56	63	71
No of girl student	14	13	16
No of boy student	42	50	55

Details of Major Laboratories in the Department:

Sr. No.	Name of Laboratory	Area as per AICTE m ²	Available areas sqm	Cost of Lab Rs.	Lab Incharge	Lab Assistant
1	Thermo Lab.	66	120	606687	Dr. C. M. Sewatkar	Shri. B. M. Bol-kavthekar
2	RAC Lab	66	120	539255	Dr. S. V. Karmare	Shri. B. M. Bol-kavthekar
3	Turbo Lab.	66	80	424500	Mr. N. V. Sali	Smt. P. D. Borade
4	FM Lab.	66		455914	Dr. C. M. Sewatkar	Shri. B. M. Bol-kavthekar
5	CAD CAM Lab	66	240	6986552	Mrs. S. R. Kulkarni	Smt. K.P. Bhagwat
6	Internet Lab	66	140	--	Dr. S. S. Deshpande	Shri. M. V. Hande
7	TOM Lab.	66	120	922938	Dr. S. V. Kshirsagar	Smt. S. S. Jaware
8	DOM Lab.	66	120	170570	Dr. S. V. Kshirsagar	Smt. S. S. Jaware
9	MQC Lab.	66	60	790550	Dr. B. A. Patil	Smt. S. S. Jaware
10	Seminar Hall	--	180	179395	Dr. C. M. Sewatkar	Smt. K.P. Bhagwat
11	Heat Transfer Lab	66	240	353618	Dr. S. V. Karmare	Shri. B. M. Bol-kavthekar
12	BME Lab	66	120	41050	Mrs. S. R. Kulkarni	Smt. K.P. Bhagwat
13	Mechatronics Lab.	66	60	2482037	Mr. N. V. Sali	Smt. P. D. Borade
14	Metallurgy Lab.	66	70	661917	Mr. J. M. Arackal	Smt. P. D. Borade
15	HP Lab.	66	90	950623	Dr. S. S. Deshpande	Shri. M. V. Hande

List of Major Equipment's:

<ul style="list-style-type: none"> ● Ice plant trainer kit ● Design and fabrication of vapour Absorption Refrigeration test rig ● Catia V5 R21 latest version- 20 user ● Automation Studio software- version 5.7 – 5 user ● Camlab CNC software – Make CADEM ● Temperature distribution in composite wall ● Heat transfer in force Convection ● Parallel flow and counter flow heat exchanger ● Flow transducer trainer kit ● XY Position Control System ● Strain gauge trainer – Strain /force measurement 	<ul style="list-style-type: none"> ● Mechatronics lab set up ● Binocular upright metallurgical microscope co-axial body ● Brinell cum Rockwell hardness tester ● Horizontal Muffle furnace ● Fine Polishing machine Single disc ● Jominy end Quench test quenching fixture ● Charpy Izod Test (Impact Test Equipment) ● Profile Projector equipment ● Floating carriage micrometer (with standard accessories and accuracy 0.2 micron) ● Monochromatic light unit ● Cam analysis apparatus ● Prony brake dynamometer apparatus
--	--

MOUs:

S N	Details
1	CADCAMBRIDGE Solution Pvt. Ltd., Pune.
2	Skyninja Innovation Pvt Ltd., Pune.
3	M/S. Balaji Industries, Kandali MIDC, Junnar, Pune.

R&D Activities:

S N	Name of faculty	Details
1	Dr. C. M. Sewatkar	Completed 1 PhD under my guidance
2	Dr. C. M. Sewatkar	Guiding 1 PhD at COEP Tech University, Pune.
3	Dr. C. M. Sewatkar	Developed the set-up for double glazed cabinet type solar dryer for data aqulisitics and ventilation of mathematical model

Details of Seminars/Webinars/Expert Talks organized by the Department/Faculty:

Sr. No.	Date	Expert Details	Topic of Discussion	No. of beneficiaries
1	08-08-2023	Mr. C.G.Pawar, Deputy Director, Directorate of Steam Boiler, Pune	Skill Development & Career opportunity in Steam Bolier Industry	81
2	14-09-2023	Mrs. Divya, Linkedin Career Kickstarter Program by FacePrep	UtilisingLinkedin for career growth	50
3	20-09-2023	Mr. AnantBrahmankar, Director, Teamcentere Solutions & Training, M/S. PriritPLM Solutions , Wakad, Pune	Awareness of SIEMENS PLM, Technology, Temcentre PLM Live Demonstration, Industry use case of PLM Technology, Placement opportunities in PLM	81
4	18-10-2023	Mr. DivakarNatu, Pune.	5 Qualities of trues student	70
5	28-11-2023	Dr. PritamKeshvdasGujarathi, Certified Energy Auditor	Towards Electrified Vehicle: Global and local scenario, Recenet Trends in Battery Technology for Electrical vehicle	81
6	30-01-2024	Prof. S.J.Pawar, Professor, Department of Applied Mechanics Motilal Nehru National Institute of Technology Allahabad, Prayagraj, U.P.	Kinematics of Mechanisms for Machines, Essence of Pedagogy in Outcome Based Education, Question and Answer session	87
7	08-02-2024	Mr. SachinBabbanNalawade, Chief Executive Officer, M/S. Balaji Industries, Kandali MIDC, Junnar.	Nurturing motivation for 'Quality' in Engineers, Roles &Responsibilities – Social & Technological PERSPECTIVE, Future prospects – Enterpreneurship point of view, SME – Challenges & opportunities ahead, Design & Manufacturing aspects of Gears, etc.	104



Expert talk by Mr. C.G.Pawar, Deputy Director, Directorate of Steam Boiler, Pune



Expert talk by Mr. Anant Brahmanekar, Director, Teamcenter solution & Training,
Prayagraj, U.P.



Expert talk by Prof DiwakarNatu.Expert. Lecture on ‘ 5 qualities of true student’



**Expert talk by Prof. S.J.Pawar, Professor, Department of Applied Mechanics Motilal
Nehru National Institute of Technology Allahabad, Prayagraj, U.P.**



Expert talk by Mr. SachinBabbanNalawade, Chief Executive Officer, M/S. BalajiIndus-tries,Kandali MIDC, Junnar.



Expert talk by Mr. SachinBabbanNalawade, Chief Executive Officer, M/S. Balaji Indus-tries, Kandali MIDC, Junnar.

Details of Workshops/FDP/STTP/NPTEL Courses Attended by Faculty:

S. N.	Faculty Name	Type of FDP /STTP	Title of FDP /STTP	Organizing Institute	Duration with dates
1	Mr. J. M. Arackal	Industrial Training Machine learning with Python-, Online Edux Lab	FDP	IIT Madras	31 July to 17 August 2023
2	Mr. J. M. Arackal	Industrial Training AIML, Deep Learning CV, NLP, Chat GPT, Online Edux Lab	FDP	IIT Madras	21 August to 19 September 2023
3	Mr. J. M. Arackal	Advances in Industrial and Manufacturing Operations-Application and practices,	FDP	NIT Kurlshetra	Dec 15-19, 2023
4	Mr. N. D. Padawale	Industrial Training Machine learning with Python	FDP	IIT Madras	31 July to 17 August 2023
5	Mr. N. D. Padawale	Industrial Training AIML, Deep Learning CV, NLP and Chat GPT with Python	FDP	IIT Madras	21 August to 19 September 2023
6	Mr. N. D. Padawale	Power Converters for Green Energy and EV Integration	FDP	NIT Rourkela	March 13-17, 2024

Faculty Paper Publications:

Sr. No.	Faculty Name	Subject of Paper Published by Faculty	Organizer
1	Dr. C. M. Sewatkar	Simulations for flow across heated square cylinders - Heat Transfer	
2	Dr. C. M. Sewatkar	Mathematical modeling of drying characteristics for cylindrical Thompson seedless grapes under natural convection.- Journal of Food Process Engineering	
3	Dr. C. M. Sewatkar	Machine learning approach to predict the thermal performance of closed loop thermosyphon- Heat Transfer	
4	Dr. C. M. Sewatkar	On the combined influence of Reynolds number and cylinder spacing on flow around a row of heated square cylinders - Heat Transfer	
5	Mr. N. D. Padawale	Design and Development of Multipurpose Quadcopter using Fused Deposition Modeling –Advances in Science, Technology and Innovation,2024, pp 91-102	Springer

Patents :

Sr. No.	Faculty Name	Subject of Paper Published by Faculty
1	Dr. S. V. Karmare	AIRFOIL FOR SMALL WIND TURBINE BLADE

Details of Subject visits organized for SE, TE, and BE Students

S.N.	Date of Visit	Name of Industry	Subject	No. of beneficiaries
Class: B.E. MECHANICAL				
1	04-10-2023	M/S. Setco Spindles, Pune and M/S. Pradink technologies, Pimpri, Pune	Dynamics of machinery (402042)	72
	11-10-2023	Katraj Milk Processing Plant, Avasari, Pune	Heating Ventilation Air-Conditioning and Refrigeration (402041)	70
2	27-02-2024	M/S. Bhimashankar Sugar Factory, Pargaon, Tal. Ambegaon, Pune	Energy Engineering (402049)	70
Class: T.E.MECHANICAL				
1	24-08-2023	M/S. Uno MINDA, Supe MIDC, Ahmednagar	Skill Development (302047) Digital Manufacturing Lab. (302046) Mechatronics (302044) Heat and Mass Transfer (302042)	60
1	06-10-2023	1. M/S. Forbes Marshal, Chakan, Pune 2. Chinchwad Auto Cluster Development & research Institute, Chinchwad, Pune	Skill Development (302047) Digital Manufacturing Lab. (302046) Mechatronics (302044)	15
2	27-09-2023	M/S. Excel Vehicles, Manchar, Dist. Pune	Skill Development (302047)	15
3	05-03-2024	Junnar Taluka Cooperative Industrial estate, Kandali, Tal. Junnar	Fluid Power and Control (302054) Measurement Lab. (302053)	60
Class: S.E.MECHANICAL				
1	06-10-2023	1. M/S. Forbes Marshal, Chakan, Pune 2. Chinchwad Auto Cluster Development & research Institute, Chinchwad, Pune	Engineering Material And Metallurgy (202044) Electrical and Electronics Engineering (203156)	60
2	05-03-2024	Junnar Taluka Cooperative Industrial estate, Kandali, Tal. Junnar	Kinematics of Machinery (202047) Machine Shop (202051)	50



Industrial visit at M/S. Pradink technologies, Pimpri, Pune



Industrial visit at M/S. Setco Spindles, Pune



Industrial visit atM/S. Setco Spindles, Pune



Industrial visit atM/S. Bhimashankar Sugar Factory, Pargaon, Tal.Ambegaon, Pune



Industrial visit atKatraj Milk Processing Plant, Avasari, Pune



Industrial visit at M/S. Forbes Marshal, Chakan, Pune



Industrial visit at M/S. Forbes Marshal, Chakan, Pune



Industrial visit at Chinchwad Auto Cluster Development & research Institute, Chinchwad, Pune



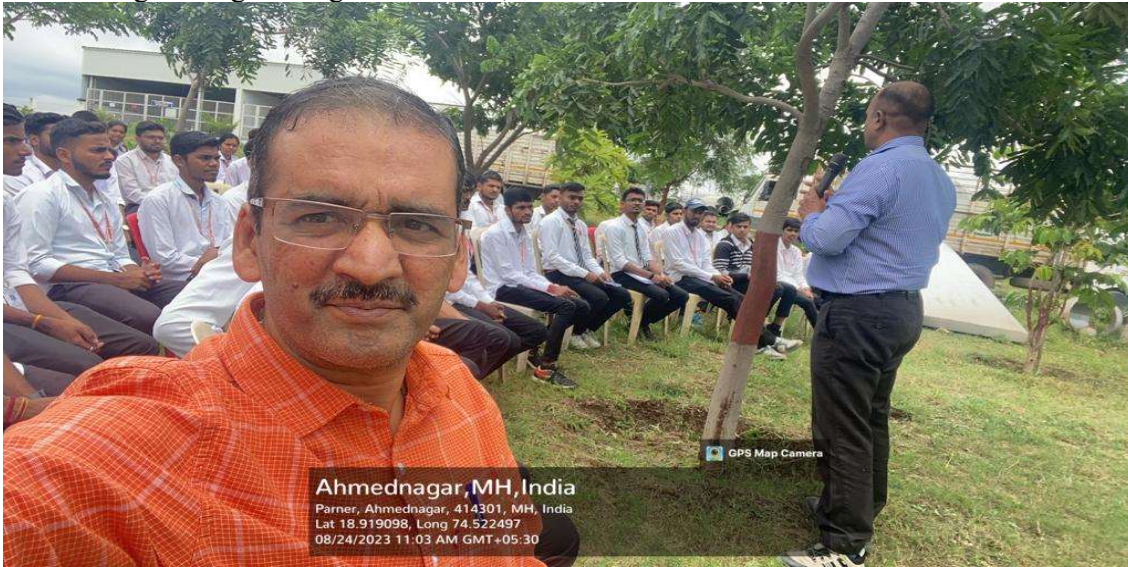
Industrial visit at Junnar Taluka Cooperative Industrial estate, Kandali, Tal.Junnar



Industrial visit atM/S. Excel Vehicles, Manchar, Dist. Pune



Industrial visit atM/S. Uno MINDA, Supe MIDC, Ahmednagar



Industrial visit at M/S. Uno MINDA, Supe, MIDC, Ahmednagar

Students Activities:

List of Class Representatives:

Class	SE	TE	BE
	MAYUR VILAS KEN-DALE	JOSHI SOMESH MA-HESH	ANANDRAO ATHARV BHIKU

Annual Result by SPPU:

Class	SE	TE	BE
All Clear (%)	41.89	63.76	94.36
ATKT (%)	58.10	36.23	5.63
Total student	74	69	71

List of Class Toppers with CGP:

Sr. No.	SE	TE	BE
1	SUTAR SHIVANAND DATTATRYA (SGPA-8.77)	JOSHI SOMESH MAHESH (SGPA-9.48)	ANANDRAO ATHARV BHIKU (CGPA-9.19)
2	NAIKARE ATHARV SAN- JAY (SGPA-8.59) SAKHARE MAULI BHA- GVAT (SGPA-8.59)	PATIL GAURAV ADHIKAR (SGPA-9.45)	KUTE SONAL RAVINDRA (CGPA-8.87)
3	ROHIT YASHWANT AM- BORE (SGPA-8.5)	POKHARKAR BHUSHAN GULAB (SGPA-9.26)	SAKSHI SAMBHAJI PAWAR(CGPA-8.54)

Student Association Details for A.Y. 2023-24:**GATE Qualified Students:**

ANANDRAO ATHARV BHIKU M Tech IIT Bhuvaneshwar

Details of Curricular & Co-curricular Activities participation and Achievements-Academic Year -2023-2024 - NIL**Details of Spoken Tutorial Courses offered by IIT, Bombay undertook of Mechanical Engineering Student**

S N	Class	Courses Offered	Total student Participated	No of Students Passed / %result	Date of Exam.
1	SE	Python 3.4.3	11	54.54%	21 October 2023
2	TE	Arduino	34	100%	21 October 2023
3	BE	Q CAD	6	83.33%	21 October 2023

Training and Placement Details:

S.N	Name Of The Student	Placement
1	Ajinkya Vinayak Waghule	MSKH
2	Akash Jogdand	FORVIA FAURECIA
3	Amruta Maruti Mohole	MSKH
4	Arya Dnyandev Shinde	KSB PUMPS
5	Ashutosh Prashant Tryambake	MSKH

6	AsmitaPradipLawand	LEAR CORPORATION
7	AsmitaPradipLawand	MSKH
8	BalajiJeevanMohite	TATA MOTORS
9	BhargavRajendra Patil	LEAR CORPORATION
10	BhargavRajendra Patil	MSKH
11	BhargavRajendra Patil	QSPIDERS
12	Bhosale Pratik Raju	LEAR CORPORATION
13	DhobaleSagarBalasaheb	TATA MOTORS
14	Gaikwad Prasad Bhagwan	ADANI
15	GauravPopatMindhe	MSKH
16	Jayesh Anandrao Shinde	LEAR CORPORATION
17	Jayesh Anandrao Shinde	MSKH
18	KiranBalajiMhetre	MSKH
19	MahamuniSiddharthPramod	TATA MOTORS
20	Mali ShrivankumarKalappa	LEAR CORPORATION
21	MallavPranavYeduram	TATA MOTORS
22	ManaliRakate	FORVIA FAURECIA
23	MandhareAbhishekSambhaji	TATA MOTORS
24	Manoj Shankar Waghmare	LEAR CORPORATION
25	More AnujVitthalrao	TATA MOTORS
26	NamrataPawar	EMERSON
27	NishantAjitBhujbal	MSKH
28	Om VijaykumarKanade	MSKH
29	Om VijaykumarKanade	QSPIDERS
30	PavanPardeshi	CHEGG INDIA
31	Prasad BhagwanGaikwad	MSKH
32	Pratik RamkrushnaPote	MSKH
33	PurvajaVitthalPande	EMERSON
34	PurvajaVitthalPande	MSKH
35	Rachana Sunil Thakare	MSKH
36	Rachana Sunil Thakare	TATA MOTORS
37	RatnaparkhiGauri Mahesh	LEAR CORPORATION
38	RushikaChandrakantGujar	MSKH
39	Shweta Kate	EMERSON
40	SonalKute	FORVIA FAURECIA
41	YashPrabhakarSalunke	MSKH

Students Enrolled in Higher Education:

S.N.	NAME OF THE STUDENT	Details
1	ANANDRAO ATHARV BHIKU	M.Tech IIT Bhuvaneshwar

Part D:-Social Activities**4. Details of Testing and Consultancy**

Sr. No.	Name of the party	Name of Party	Description of work	Date of completion
1	Mahagenco	TPS, Parali	3rd party vetting of various technical schemes	11/07/2023
2	Mahagenco	TPS, Parali	3rd party vetting of various technical schemes	11/17/2023
3	Mahagenco	TPS, Khaparkheda	3rd party vetting of various technical schemes	02/17/2024
4	Om Electronics and Water solutions, Manchar	Om Electronics and Water solutions, Manchar	RO Plant inspection and factory inspection	03/18/2024
5	Walse Patil Enterprises, Nirgudsar, Manchar	Walse Patil Enterprises, Nirgudsar, Manchar	RO Plant inspection and factory inspection	03/18/2024
6	Sunandan Services, PimpalgaonKhadaki, Manchar	Sunandan Services, PimpalgaonKhadaki, Manchar	RO Plant inspection and factory inspection	03/18/2024

Details of Cleanliness Drives conducted by department

Sr. No.	Duration/ Dates	Area Cleaned	Co-ordinated By	Remark if any
1	16/09/2023	Corridor, Surroundings, out Premises,	Mr. J. M. Arackal	All Mechanical Faculty, Staff and Students
2	20/01/2024	Passage, Ground		
3	17/02/2024	Steps.		

Departmental Clubs:

Sr. No.	Name of the Club	Name of Students
1	Team Otus Technology	AdityaAbhang
2		VishwajeetNashte
3		Vibanshu Hire
4		Sham Maid
5		PranjaliMhatre
6		HujeefSayeed
7		DevavratBandale



© Government college of Engineering and Research, Avasari
Khurd

Taluka- Ambegaon, Dist. -Pune.
412405

[Tel:02133-230582](tel:02133-230582)

Fax:02133-230583

Email:

office.gcoeavasari@dtmaharashtra.gov.inwww.gcoeara.ac.in