



**Government College of Engineering
and Research, Avasari (Kh)**

**Affiliated to Savitribai Phule Pune University, Pune
College Code- CEGP014980**



ZENITH

2021-22

TRIBUTE TO SAVITRIBAI PHULE



VISION OF INSTITUTE

Educational institution for Empowerment through technological excellence towards sustainable development

MISSION OF INSTITUTE

- 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 MESSAGE



Dear Students,

It is with great pleasure that I welcome you all to yet another exciting academic year at our college. As the Principal, I feel privileged to lead an institution that is committed to nurturing young minds and empowering them with knowledge, skills, and values that will help them succeed in their personal and professional lives.

Over the years, our college has emerged as a center of excellence, with a strong focus on academic excellence, research, and innovation. Our faculty members are among the best in the field, with a deep commitment to teaching and research. They bring a wealth of knowledge and experience to the classroom, and they are dedicated to helping our students achieve their full potential.

As we move forward, I urge our students to take advantage of the opportunities that our college offers. Be curious, be creative, and be persistent in your pursuit of knowledge. Set high goals for yourself, and work hard to achieve them. Remember that success is not just about getting good grades, but also about developing a strong sense of ethics, responsibility, and social consciousness.

I wish you all the best for the academic year ahead. May you find joy, inspiration, and fulfillment in all your endeavors.

Sincerely,

Dr. D. R. Pangavhane

FACULTY CO-ORDINATOR MESSAGE



It is my earnest delight to welcome you all into our college magazine-Zenith. Zenith is an online magazine that is an excellent creation by our bright and dedicated students. I congratulate the students of Government college of Engineering and Research, Avasari (Khurd) who have taken the initiative and contributed to this edition of the 'Zenith-2022'.

Magazine of this kind provides an opportunity to the Engineering students to express their hidden talent, ideas and thoughts in the form of articles, poems, views about the life and experiences inside and outside the college campus. I thank to our Principal Dr. D. R. Pangavhane, All Head of departments, Faculty members, staff, all students of magazine committee and students contributed through their huge support for this magazine.

Thank you with best wishes!!!

**Prof. Prajakta B. Pimpalkar
Magazine In-charge**

MAGAZINE COMMITTEE MEMBERS



R. K. DAWANE
TLA, Automobile



S. B. PALVE
TLA, Civil

TEAM ZENITH

Note from MAGAZINE CO-ORDINATOR & EDITOR



RUTWIK BAGALE
BE Computer

Dear Readers, I am glad to publish this edition of Zenith 2021-22 for our institute. Despite of being in online mode of learning, all the students have supported and participated for magazine is really great gesture to witness. The magazine committee has done really great work and appreciate all the magazine committee members for their contribution for making this magazine edition possible.

Message from MAGAZINE EDITORS



SAKSHI VARTAK,
TE Computer

Dear Readers, we are excited to present the latest edition of our college magazine. Our team has worked hard to bring you another year magazine of our college, ZENITH with all our best work in it. As working on this, we have learned a lot of things throughout the process. We hope you will enjoy reading it as much as we enjoyed putting it together!



MRUNAL AADE
BE Civil

Hello Readers, we hope you enjoy reading about the latest happenings on campus, student achievements, and diverse perspectives on a range of topics. We're proud of the hard work and dedication that our contributors have put into this issue, and we can't wait for you to dive in. Thank you for your continued support of our magazine. We couldn't do it without you.



RUTURAJ AHER
TE Computer

I would like to express my sincere gratitude for giving me the opportunity to be a part of college's magazine committee. The experience has been nothing short of enriching and rewarding. Overall, my time on the magazine committee and drafting departmental reports has been an incredible learning experience. Thank you to everyone involved for making this experience unforgettable.

Message from MAGAZINE CO-EDITORS



ANUSHKA SINGH
TE Automobile

This issue includes departmental information, teams & clubs of our college, articles, poems, anecdotes, art-works, & a host of many other things. We hope you enjoy reading this issue as much as we have enjoyed making it. Amidst the tight schedule of our semesters, we lose track of simple things. Hence this magazine is an attempt to embrace it.



OM TOPALE
TE Automobile

I learned a lot while working on our college magazine as a member of the magazine editorial team, and I want to express my gratitude to all the faculty who helped us throughout the magazine publishing process as well as to everyone on my team who cooperated, supported one another, and brought it to a wonderful level.

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**THE
ART
SECTION**

.. प्रयत्न करुण तर बघ..

तू मनातल व्यक्त करताना एक झुमका,
तिच्यासाठी जवळ ठेवून बघ...
निस्वार्थ न बदलणार प्रेम
एकदा व्यक्त करून बघ.....

तिच्या मनाला थोड समजून बघ.....
आलाच नकार तर स्वताला थोड सावरून बघ.....
विचाराव तू तिला नकारच कारण,
कमी पडलास कुठे तर थोड तिच्यासाठी बदलून बघ.....
कारण आलच समोरून,
घरच्यांना अस काही पटणार नाही.....
वाईट वाटून घेण्यापेक्षा आनंदी थोड होऊन बघ.....
विश्वास तिच्यावर ठेऊन बघ.....
न बदलणार, अपेक्षा नसणार, प्रेम वेड्या तिच्यावर करून बघ.....

तिची तुझ्यासाठी असणारी
काळजी अनुभवून बघ...
राहीली मनात ती तर तिला पाहिजे त्या नात्यात तिचा स्विकार करून बघ ...
नाही देणार ती दुसऱ्या कोणाला होकार..
फक्त तिच्यासाठी थोड जगून बघ.....

~ मेघा वाळुंज
BE Mechanical

The Art of Mechanical Engineering

**A machine so complex with intricate parts,
It works with precision to complete its tasks.
From the gears to the bolts, each one has its role,
In the intricate design of a Mechanical Engineer's goal.**

**Robots and drones, machines of all sizes,
From the large and the small, they come in all shapes and sizes.
From the cars to the planes, they are used with care,
To serve the needs of our world with engineering flair.**

**Automation, robotics, and mechanics of all kinds,
Are used in factories and offices to run our daily lives.
Programming and algorithms are used too,
To ensure that machines always complete their tasks true.**

**The study of Mechanical Engineering,
Is a complex science, with knowledge that's rarely seen.
Its principles and theories, no matter the size,
Will keep the machine working and running with precision and pride.**

*~Aditya Abhang
TE Mechanical*

SOMEDAY

**Someday won't be like this day
Waiting when the sky won't be gray
On my weak knees I will again rise
I'm just collecting the blocks for my paradise**

**I will strive hard for that day
When happiness on my cheeks forever stay
I will be, even wounded, the bravest knight
Proudly, will I say I survived the plight**

**Hoping for the light of that day
When no one will ever try to betray
Dedicate my day and night for my name
Waiting when I won't need to proclaim**

**It won't just happen in one day
But I will be the one to lead the way
I won't stop till of me I am proud
Even if my thoughts are being aloud**

~ Ankita Patil

Cyber Shield

Cybersecurity is the practice of protecting networks, devices, and programs from digital attacks. These attacks are usually aimed at accessing, changing, or destroying sensitive information, extorting money from users, or interrupting normal business processes. With the increased use of technology and the internet, cybersecurity has become a major concern for both businesses and individuals. The power of cybersecurity is immense. It can protect both individuals and organizations from security threats, such as viruses, malware, phishing, and other malicious attacks. It is a vital tool for protecting digital information and networks, as well as mitigating the risks associated with cyberattacks. Cybersecurity also helps to protect an organization's reputation and brand, as well as its financial data.

For businesses, cybersecurity is important for ensuring the safety of their sensitive data and information. This data can include customer information, financial records, and other confidential business information. Without effective cybersecurity measures, businesses are exposed to data breaches, which can lead to financial losses, lawsuits, and reputational damage.

For individuals, cybersecurity is important for protecting their personal information. This information can include passwords, credit card numbers, and other sensitive information. By using strong passwords, two-factor authentication, and other security measures, individuals can protect themselves from identity theft and other malicious attacks. Overall, the power of cybersecurity is undeniable. By using the right tools and strategies, both businesses and individuals can protect themselves from digital threats. Cybersecurity is essential for protecting valuable data and networks, as well as mitigating the risks associated with cyberattacks.

*~Vrushali More
SE Computer*

Navigating the Stock Market: Separating Fact from Fallacy

Navigating the stock market can be a daunting task, as there are a lot of opinions and conflicting information out there. One of the most important things to remember is to separate fact from fallacy.

One common fallacy in the stock market is the idea of "hot tips" or insider information. It is illegal for someone to share non-public information about a company, and even if someone were to share such information with you, there is no guarantee that it would be accurate or useful. It is also important to remember that past performance does not guarantee future results. Just because a stock has done well in the past, it does not mean that it will continue to do well in the future.

Another fallacy is the idea that you can predict the market. The stock market is unpredictable and no one can consistently predict its movements. It is important to have a well-diversified portfolio and to not make investment decisions based on short-term market fluctuations.

One fact to keep in mind is the importance of doing your own research. This means looking at a company's financial statements, reading analyst reports, and keeping up with industry news. It also means being aware of your own risk tolerance and investment goals.

Another fact is the importance of having a long-term investment strategy. The stock market can be volatile in the short-term, but over the long-term, it has historically provided solid returns. Investing for the long-term allows you to ride out short-term market fluctuations and gives your investments time to grow.

In conclusion, navigating the stock market requires separating fact from fallacy. Don't rely on hot tips or insider information, don't try to predict the market, do your own research, have a well-diversified portfolio and a long-term investment strategy.

*~Aniket Khillare
TE ENTC*

EXPLORING THE THRILL OF ENGINEERING

Engineering is a field of science and technology that involves the application of mathematics, physics, and other sciences to solve real-world problems. It is a creative and challenging field, and for many people, it is a source of great enjoyment and satisfaction. Engineering can be a lot of fun when approached in the right way.

One of the most enjoyable aspects of engineering is the ability to use creativity to solve problems. Engineering requires problem solving skills and the ability to think outside of the box to come up with innovative solutions. This can be incredibly satisfying as it is rewarding when a solution is found. Additionally, it can be exciting to work on a project that requires a range of different skills and knowledge. This often means that engineers are able to use their imagination to come up with novel solutions, which is an enjoyable experience.

Another fun aspect of engineering is that it can be a team sport. Working with others in a team to develop a solution is often more enjoyable than working alone. This is especially true when the problem is complex and requires different perspectives to come up with a successful solution. It can also be fun to collaborate with others and share ideas. Finally, engineering can also be fun because it involves a lot of learning. Engineering is an ever-evolving field and so engineers have to stay up to date with the latest technology and developments. This can be enjoyable as it provides a sense of accomplishment when new skills and knowledge are acquired.

In conclusion, engineering can be a lot of fun when approached in the right way. It is a creative and challenging field which requires problem solving skills, the ability to think outside of the box, and the willingness to learn new things. It can also be a team sport with the added benefit of collaboration and sharing of ideas. All of these factors make engineering a fun and rewarding experience.

~Aditya Abhang
TE Mechanical

THE PARTICLE RELATIONSHIPS

“You can't blame gravity for falling in love.”

-Albert Einstein

We entanglement is kind of a relationship but a long-distance relationship among the quantum particles. Well entanglement can be defined by an example, consider a particle closer to you and you disturb the properties of this particle, now this disturbance will also occur in a particle which is billions of lightyears from earth. Well in simplified form Measurements of physical properties such as position, momentum, spin, and polarization performed on entangled particles can, in some cases, be found to be perfectly correlated.

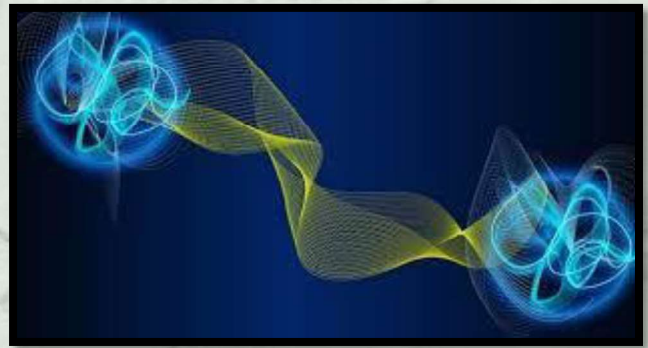
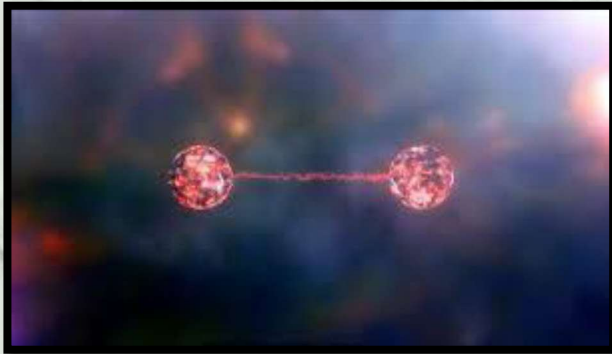
Well, the lure for this theory was from the time when Einstein publish his papers on general relativity. Einstein found some loopholes in his theory which allowed the phenomena of a wormhole to exist. And a second paper with Rosen where he approved that this wormhole are possible phenomena. After which he published a paper with Rosen and Podolsky where he talked about some hidden variable and consider some of these phenomena as Impossible and violated the local realism and stated that quantum mechanics must therefore be incomplete.

“Spooky action at a distance”

-Albert Einstein

In 2022, three physicists, Alain Aspect, John Clauser, and Anton Zeilinger, proved that the theory is incorrect and no such hidden variable exists. They argued that somehow a pair of quantum particles are entangled. For this Discovery they were awarded the Noble prize.

This discovery had a opened a possible explanation on the existence of wormhole in space. When two black holes are entangled together, they form a link, and this link is wormhole. Well, it is very unstable and last for only the time which is equal to a decay of quantum particle. To stabilise this link some form of negative energy is used in a theoretical means. Consider a particle on one side of this wormhole which is about to enter it. The properties of this particle are defined and now as it enters the wormhole this set of properties are distributed on the both side of the wormhole. Now, this is where the entanglement takes place, as the particle moves the information is shared by other particle in the system and entanglement takes place and the particle refocuses and emerges from the other side of the wormhole.



This was performed on a quantum scale and for the first time in history scientist were able to create a wormhole in the lab. They work with Quantum Computer at the Google Research centre. They Devised an experiment where basically a normal computer work on bits but this quantum computer works with qubit and this qubit was successfully passed through a wormhole which was traversable. Hence a wormhole was created by computer simulation.

Hoping this might help us to improve our understanding of the universe quantum mechanics and solving the big problem of unification of gravitation with quantum mechanics. This might lead us to solving big problem in Physics like the string theory and birth of universe, our existence and moreover to improve our understanding of the universe.

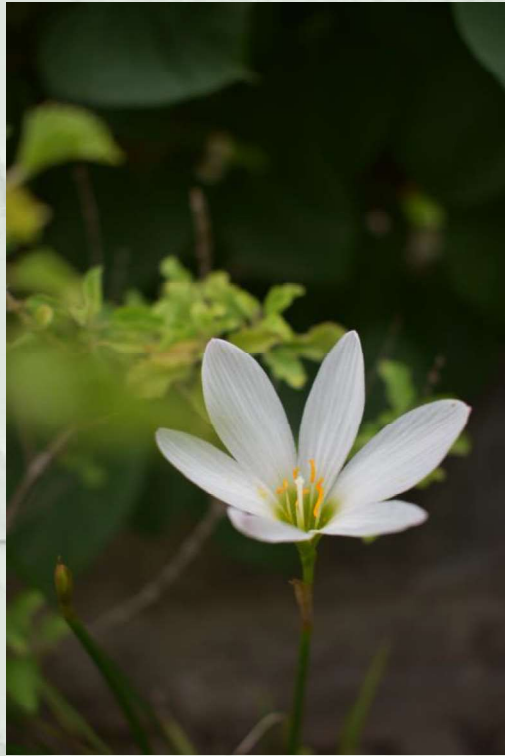
“Consciousness cannot be accounted for in physical terms. For consciousness is absolutely fundamental. It cannot be accounted for in terms of anything else.”

— Erwin Schrödinger

~Vibhanshu Hire

T.E MECH

PHOTOGRAPHY



~Somesh Mahesh Joshi
SE Mechanical



~ Sahil Shirsat,
BE Civil

The background features several overlapping, glowing blue circular patterns that resemble light trails or orbits, set against a solid black background. The patterns are centered around the text.

**THE
CLUB
SECTION**

TEAM PHALANX E-BIKE & GO-KARTING DIVISION

ABOUT US

Team Phalanx is student's club of Government College of Engineering & Research, Avasari, Pune. We participate in various National Level Competitions such as Society of Automotive Engineer's ETWDC (Electric Two-Wheeler Design Competition) , Indian karting championship (IKC), BFKCT, FKRC, Edgeline championship, All India racing championship (AIRC) etc. participation since 2016.

We have always found many intriguing and interesting technologies, motivating us to investigate and research as many sources of information as we could get our hands on. Looking back, it's that passion and commitment to exploration and discovery that has contributed to our research and success.

VISIT REPORT

TEAM PHALANX VISIT TO PUNE AFC

Pune AFC 2022 will host India's largest vehicle exhibition exclusively focused on alternate fuel technologies, conducted across the four days of the Conclave. Two-wheelers, three-wheelers, cars, goods vehicles, and buses from leading manufacturers like Tata Motors, Piaggio, Skoda, Volkswagen, KPIT, etc. powered by electricity, hydrogen fuel, and biofuels will be on display. Companies are also expected to launch new products on the auspicious occasion of Gudi Padwa.

Several small entrepreneurs, new startups, and private manufacturers displayed their technologies, each of them with their unique ideas and specifications. The noteworthy startup offered rechargeable and swappable batteries which had sensors to show how much charge is consumed. Entrepreneurs from different places of the state took part and displayed their EVS and charging station to end consumers.

Automotive giants like Audi, Tata, MG, Ola, and there were also displaying their finished products which were already dominating the market. Tata Motors' major focus was on passenger vehicles while another homegrown giant the Mahindra and Mahindra motors were majorly focused on commercial vehicles like autorickshaws. The company named joy e-bike was the center of attraction since it displayed the chassis alongside 6 models to be precise 3 scooters and 3 sports electric bikes, the visitors seemed to be impressed by the aesthetics of the vehicle. Joy e-bike displayed their best-selling models named wolf plus as well as nanu plus, sharing the same chassis and same battery pack of Lithium-Ion(NMC) which is also detachable. This detachable motor is a DC Brushless Hub Motor, offering 3 speeds with Regenerative braking with reverse gear for convenience. Another talk of the town was an EV manufacturer with the name Tork Motors displaying their latest model named Tork Kratos. Alongside the already reputed EV makers like Ola and Ather were there to showcase their latest offering with new features and improved products.

The conclusion an auto enthusiast can draw from the vehicles displayed is that even though the exhibition is about alternate fuels, you will see that almost all the vehicles were based on an electric powertrain, some on solar while others on hydrogen which depict that future is electric. Also, some vehicle models were straight knock-offs of famous automotive models, taking a glance at joy EBIKE's model labelled as 'BEAST' were showing a clear resemblance to MV Augusta Brutale, another example of knock-off was done by the UK based brand called 'One Moto' that most of the models show resemblance to Piaggio Vespa. In the end, the data depicts it will take almost 20 years to make at least 50% of vehicles to be electric. Still, there is a huge gap in the Indian automotive market for EVs due to the lack of charging stations, scarcity of batteries compatible with the Indian environment, and also the infrastructure of electric vehicles. After visiting the conclave one can confidently state that passenger EVs have much more potential market than commercial EVs.

ACHIEVEMENTS:

1. IKC (INDIAN KARTING CHAMPIONSHIP) - 1 BEST INNOVATION
2. IKC (INDIAN KARTING CHAMPIONSHIP) - 2 SKID PAD WINNER
3. IKC (INDIAN KARTING CHAMPIONSHIP) - 4 AUTO CROSS RUNNER UP
4. IKC (INDIAN KARTING CHAMPIONSHIP) – 4 BEST INNOVATION
5. IKC (INDIAN KARTING CHAMPIONSHIP) – 4 SKID PAD WINNER
6. ZEAL DRAG 2.0 ENDURANCE SECOND RUNNER UP
7. ZEAL DRAG 3.0 DRAG RACE – FIRST RUNNER UP
8. ZEAL DRAG 3.0 OVERALL SECOND RUNNER UP

'इलेक्ट्रिक टू व्हीलर डिझाइन' स्पर्धा : अवसरी येथील अभियांत्रिकी महाविद्यालयाचे यश विद्यार्थ्यांनी बनविलेल्या दुचाकीला तिसरा क्रमांक

मंचर, ता. १० : 'एसएई इंडिया र्विष्ण विभाग (SAEISS) चेवई यानी आयोजित केलेल्या 'इलेक्ट्रिक टू व्हीलर डिझाइन' स्पर्धेत अवसरी खुर्द (ता. आवेगाव) येथील शासकीय अभियांत्रिकी व संशोधन महाविद्यालयाचा भारतात तिसरा क्रमांक आला आहे," अशी माहिती महाविद्यालयाचे प्राचार्य डॉ. दिलीप पानगव्हाणे यांनी दिली.

एस. आर. एस. इन्स्टिट्यूट ऑफ सायन्स अँड टेक्नॉलॉजी (कॅम्पस - चेवई) येथे स्पर्धा झाल्या. देशातून जवळपास सर्व राज्यांतील महाविद्यालयांनी स्पर्धेत सहभाग नोंदविला. शासकीय अभियांत्रिकी महाविद्यालयाचे विद्यार्थ्यांचा सल्लागार प्रा. किरण बनसोडे, शुभम कोठावडे, सार्धक सावळे, गुरु दुधाळकर, सिद्धार्थ पन्हाळकर,

इकोव्होल्ट (ECOVOLT BATTERIES) अगदी कमी खर्चात तयार केली. पुणे व महाविद्यालयाच्या सहकायनि स्वयंचल विभागाचे विभागप्रमुख

बॅटरीज संपूर्ण विद्युत दुचाकी विद्यार्थ्यांनी अगदी कमी खर्चात तयार केली. स्वयंचल विभागाचे विभागप्रमुख

डॉ. एम. जे. पावळे, डॉ. पानगव्हाणे यांचे त्यांनी मार्गदर्शन लाभले. राण्याचा धनादेश देऊन सन्मानित

महाविद्यालय, अवसरी खुर्द (ता. आवेगाव)

डॉ. एम. जे. पावळे, डॉ. पानगव्हाणे व ३० हजार रुपयांचा धनादेश देऊन सन्मानित करण्यात आले.

या दुचाकीचे वजन ९० किलो आहे. चार्जिंग केल्यानंतर ती ७० किलोमीटर अंतर पार करू शकते. सिंगल फेजवर घरी चार्जिंग होते. मोठ्या संख्येने उत्पादन सुरू केल्यास बाजारात ही दुचाकी ५० ते ६० हजार रुपयांत मिळू शकते.

शासकीय अभियांत्रिकी व संशोधन महाविद्यालयाच्या विद्यार्थी पथकाने पहिल्याच प्रयत्नात यश संपादन केले. दुचाकीचा वापर युवकांपासून न्येष्ट्रांपर्यंत सर्व वयोगटांतील लोक सहजपणे करू शकतात. विद्यार्थ्यांनी व मार्गदर्शक प्राध्यापकांनी परिश्रम घेऊन महाविद्यालयाचे नाव देशपातळीवर नेण्याचे काम केले, याचा सार्ध अभिमान आहे.

- डॉ. दिलीप पानगव्हाणे, प्राचार्य, शासकीय अभियांत्रिकी व संशोधन महाविद्यालय, अवसरी खुर्द (ता. आवेगाव)

Pune, District-Today
11/11/2022 Page No. 4





ROBOTICS RESEARCH LAB



ABOUT TEAM

The Robotics Research Lab was established in 2013. It is the place where students perform hands-on work and gain pre-industrial knowledge. The students of the lab Design, Manufacture, 3D Print parts of the Robot, control, Automate a variety of Mechanisms and various Robotics Drives using Advanced Software. It is a platform that enables an individual to work on their Innovative Ideas and develop their Soft Skills. Lab focuses on an Interdisciplinary approach that combines the skills and knowledge associated with other Fields. We focus mainly on the competition named ABU ROBOCON held at IIT Delhi. The team also participates in other events like IIT Bombay Techfest, Robo Races, Robo Soccer, Mitsubishi Electric Cup, and other District-Level Robotics Competition.

ABOUT COMPETITION

The ABU Asia-Pacific Robot Contest (ABU Robocon) was founded in 2002 by Asia Pacific Broadcasting Union. In India, Doordarshan Robocon India (DD Robocon) is organized by IIT Delhi. In the competition, Robots compete to complete a task within a set period of time. It is hosted by one country from the Asia Pacific Region which is based on their Culture.

JOURNEY AND ACHIEVEMENTS:

2013: We participated in ABU ROBOCON 2013 Competition first time, the Game Theme was "GREEN PLANET" and we got AIR 17, which was a good beginning for us.

2014: We started developing our lab and students were taking an active part in the experimental processes and the atmosphere of our lab was continuously promoting us to perform better. We got AIR 78 in DD ROBOCON 2014, the Game Theme was "SHABBAS".

2015: We begin to develop our Practical skills, Teamwork Abilities, Scientific reasoning and understanding. The approach and methodology of the task were proceeding well and the emerging ideas of the students were taking a new form. We participated in DD ROBOCON 2015 which had the Game Theme "ROBO MINTON" and we achieved AIR 22.

2016: When students themselves get the opportunity to take part in experimental processes, then their area of experience gets widened and their level of visualization also gets developed. As a result, we achieved AIR 5 in 2016 on the Game Theme "CHAI-YO" and were awarded "BEST ROBOT DEVELOPED BY RURAL INSTITUTE".

2017: As our students were going through new experiences which engaged them in formulating questions, finding solutions, designing and creating more effective mechanisms. We came up with AIR 7 in 2017 and the Game Theme was "APPARE".

2018: As we were taking part in various Robotics Lab experiments which hold the potential to enhance students to recognize the significance and the dynamic relationship between Technology and Robotics. We came up with flying colours that consist of AIR 2 in 2018 and the Game Theme was "Rongbay". We were awarded one of the most Precious Awards "SMART AND SIMPLE ROBOT AWARD".

2019: Our team started introducing various technologies in our lab, students were learning and performing the tasks in a way that achieves maximum productivity and minimum waste of time. We participated in DD ROBOCON 2019 held at IIT Delhi and the Game Theme was "GREAT URTUU". The score of the first and second Preliminary rounds against IIT Delhi and PCCOE was 70 and 100 respectively. Then, we won the Quarterfinals against IIT Roorkee. We got AIR 4 for our deserving performance and were Awarded by "JUDGES SPECIAL AWARD".

2020: Achievement without hard work is impossible, one can never gain anything if they sit and wait for a better opportunity to come. So, we started working accordingly to increase our productiveness, efficiency, approach and understanding. As a result, we came up with AIR 14 in 2020, the Game Theme was "Robo Rugby 7s".

2021: Students carried out their charge of gathering information, doing research on it, identifying problems, finding further information to solve the problems and taking further discussions. We got 100% scores in the first and second rounds of the 2021 JIMO ABU ROBOCON Competition and achieved AIR 6 which was a great success for us.

2022: After the Covid-19 Pandemic, the tournament was offline and organized at Thyagraj Sports Complex in New Delhi. The team made history and represented Team India on an International platform.

The team played two league matches against St. Francis Institute and U.V. Patel College of Engineering and secured 65 in both, the Highest Score of the Day. The Quarter Finals and Semi-Finals were played against KJ Somaiya College of Engineering and Pimpri-Chinchwad College of Engineering respectively and achieved 65 scores.

The Final match was against Nirma University and we secured AIR 2. Our team qualified for Internationals and competed against Mongolia, Indonesia, and Nepal and we earned the Fifth-Highest International Ranking.

SAHYADRI FORMULA RACERS

The student formula competitions challenge teams of university undergraduate and graduate students to conceive, design, fabricate, develop and compete with small, formula style vehicles.



Formula SAE challenges students to conceive, design, fabricate and compete with small formula style vehicles. The concept behind Formula SAE is that a fictional manufacturing company has contracted a student design team to develop a small Formula-style race car. The prototype race car is to be evaluated for its potential as a production item. The target marketing group for the race car is the non-professional weekend autocross racer. Each student team designs, builds and tests a prototype based on a series of rules, whose purpose is both ensuring on-track safety (the cars are driven by the students themselves) and promoting clever problem solving. The prototype race car is judged in a number of different events.





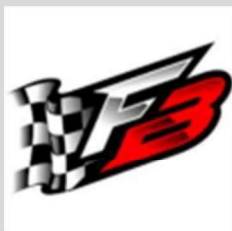
Achievements of SAEINDIA SUPRA 2022

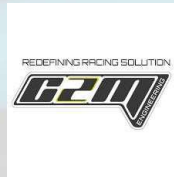
Air 14 in Business Plane Presentation
Air 17 in Design Report
Overall rank Air 22



Our Team Sahyadri Formula Racers is the formula Student Team of GCOEARA Comprised of Highly Exuberant and Hard-working Race Car Enthusiasts. Since its Origin is in 2021, the team has done tremendous progress in designing and production with systematic planning, work distribution, knowledge transfer and task-oriented supervision, the team aims to improve the quality and efficiency of its products and to contribute towards betterment of the Indian automotive industry.

Our Sponsors:





“OUR GOAL IS TO MAKE THE BEST OF EVERY OPPORTUNITY WE’VE BEEN GIVEN”

TEAM FALCON

We are Team Falcon from Government College of Engineering and Research, Avasari (Khurd). We aim to conceive, design and manufacture RC planes, Drones (Manual and Autonomous) and Purpose Driven Robots. It's a team of young and talented engineers who comes from various engineering streams. We work together to make multidisciplinary products which will bring revolution in the sector of Aero design, space robotics and automation.

Vision

Competency through the designing and engineering

Mission

Developing the innovation culture and hard-working ethics. Design and manufacture the best possible aircrafts Making India sustainable through technical excellence.

YASIN SAYYED- Team Leader

NAYAN PATIL- CHIEF MARKETING HEAD AT TEAM FALCON

NIKHIL SIR SOLANKI- CHIEF FINANCE OFFICER

Teams & Competitions –

Guru Dhvani Antenna Designing Challenge

Team Aero design - Drone Development Challenge 2023 (Aero design)

Team Drone - Autonomous Drone Development Challenge 2023

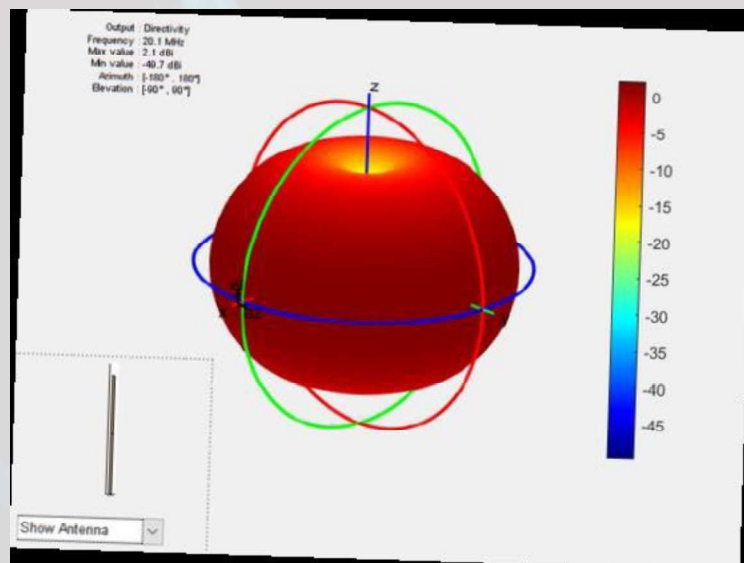
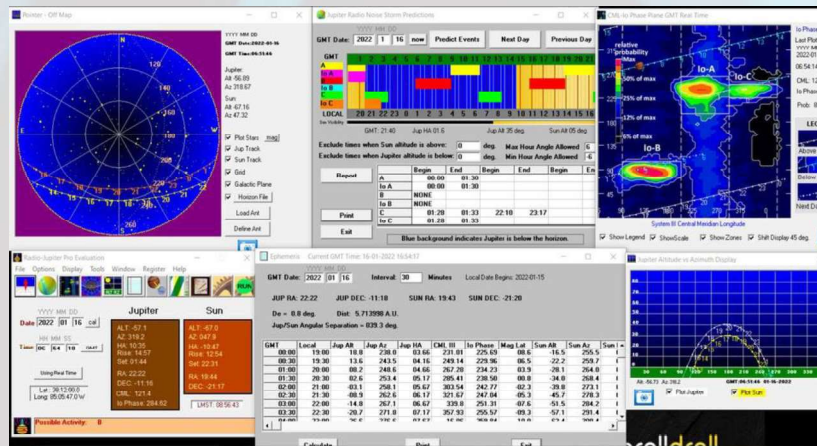
Team Roboclub

Guru Dhvani Antenna Designing Challenge

The competition was conducted by Fergusson College by the IUCAA Community The competition aimed to design an antenna which can capture radioactive rays emitted from Jupiter planet and understand climatic conditions of the universe

MENTOR:- NIRANJAN PADAWALE SIR

CAPTAIN:- ASMITA LAWAND



Team Aero design

DRONE DEVELOPMENT CHALLENGE 2023 (AERODESIGN)

COMPETITION :-

The competition comprises of design report submitted virtually and an oral presentation explaining everything in detail. The second round comprises of flight test

WORKSHOPS ATTENDED

We attended the Chennai workshop provide by the SAE INDIA community and also manufactured a plane with experts also we tested it on the field

OBJECTIVE

The competition aims to create a regular class remote controlled electronic plane whose dimensions add up to 150 inches and the weight of the plane shall not exceed more than 4 kg

“The mission comprises of carrying a payload of 200 gm and maneuvering on an open field with respective path given, also keeping other given criteria's to be followed in the rulebook”

LIMITS BEYOND THE SKY!!!

-KIRAN MHETRE



Team Drone

AUTONOMOUS DRONE DEVELOPMENT CHALLENGE 2023

PREDATOR 380

Concept - A 3D printed drone which has a claw mechanism attached which works on the manually controlled servo

IMPLEMENTATION : -

We used bldc motor as a powertrain for the drone and a 2.4Ghz transmitter and receiver to control it



Team Roboclub

Team Leader – NIKHIL SOLANKI



Cosmo Clench

FEATURES :

1. Manual pick and place.
2. Rough terrain dynamics.
3. Arduino controlled
4. Wireless mechanism.
5. 10m maximum range.
6. 3D printed gear claw.
7. All wheel drive.
8. Aluminum frame chassis.



Fastest Line Follower Robot

International Rank 4 WORLD ROBOTICS CHAMPIONSHIP, DELHI

TEAM AAYUDH 2.0



We are Team Aayudh 2.0 from Government College of Engineering and Research, Awasari Khurd, participating in SAE TIFAN 2023 Event. The objective of the competition is to solve agricultural problems using modern solutions. For SAE TIFAN 2023 we are manufacturing “Automated Multi Vegetable Transplanter”.

SAEINDIA is India's leading resource for mobility technology. As an individual member-driven society of mobility practitioners, the ownership of SAEINDIA wrests with its members who are Individuals from the mobility community, which includes Engineers Executives from Industry, Government Officials, Academics and Students.

TIFAN stands for “Technology Innovation Forum for Agricultural Nurturing”. The real objective of TIFAN’s competition is to provide a platform for Agricultural product innovation by generating a talent pool for the off-highway industry. It provides a platform for connecting the bright and prosperous agricultural and engineering talent available in the country with the real-life challenges of the farmer community. This competition will also provide undergraduate students with hands-on experience in the agricultural/off-highway product development process. Eventually, such endeavors will help society by enabling the small and marginal farmers with farm mechanization for yield and productivity improvement.

We have participated in this competition as “Team Aayudh” in TIFAN 2017-18, TIFAN 2019-20 and TIFAN 2021-22. Team Aayudh finished AIR Rank 19th in the TIFAN 2019-20 event and have successfully Qualified Virtual Round also performed well in the Final Round for TIFAN 2021-22. The theme for the competition was “Self Propelled Onion Harvester” till last year. The total number of members in the team were 25 for last year.

The Self-Propelled Onion Harvester made in the event TIFAN 2021-22:



This year's theme for SAE India-TIFAN is "Automated Multi Vegetable Transplanter" for Chili, Brinjal, Tomato saplings, which can be used for a new and emerging market. The team consist a total of 15 members in which members belongs to all departments present in college. The team is led by the Team Captain Mr. Balaji Mohite, student of TE Mech, GCOEARA. The team is working on the theme and is preparing for the Virtual round 2023. The challenges faced by us are to study about Automobiles Industry along with their working skill, management skill and productivity skill, to manufacture the Cost-Efficient Agricultural Machinerics, to apply our Engineering knowledge to Design and Manufacture Agricultural Machinerics, to manufacture a vehicle with better working efficiency, to innovate an Agricultural Machinerics which is different and unique from all other Machinerics present in market.

The students in Team Aayudh 2.0 are – Mr. Balaji Mohite (Captain), Mr. Kiran Mhetre, Mr. Pratik Pote, Mr. Vishal Phisphise, Mr. Pratik Patil, Mr. Sahu Kedarnath, Mr. Savata Tilekar, Mr. Parshuram Nandiwale, Mr. Tejas Karpe, Mr. Prathamesh Kotkar, Miss. Siddhi Jagdale, Miss. Rachana Thakare, Mr. Somesh Joshi, Miss. Gayatri Giradkar. The team is guided by the faculty advisors – Prof. B.A. Patil and Prof. G.S. Datar and our seniors. The girls in the team are motivation for other girls to participate in such events.



**THE
DEPARTMENT
REPORTS**



DEPARTMENT OF APPLIED SCIENCES

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 and Soft Skills/Employability Skills Development.

The department has total 06 full time teaching faculties:

- ❖ **Dr. U.S.Kakade :-** Associate Professor in Physics as well as Head of Department and First Year Coordinator. He also works as a Member of College Development Committee as per Maharashtra University Act, 2016, In-charge of ARC and In Charge Change of Branch Committee after First Year.
Paper published- “ Effect of guided recitation of pradnyavivardhan stotra on memory, mental and scholastic abilities among growing children” published in International Journal of Medical Research & Health Sciences (IJMRHS) ISSN : 2319-5886 Indexed in : ESCI (Thomson Reuters) in Aug- 2021
- ❖ **Smt. H.H.Rakshe :-** Assistant Professor in Mathematics. She also member of Women Grievances Redressal Committee. First year co-ordinator, In A.Y.2021-22 Sem-II senior supervisor FE In semester & End Semester exams.
Training -1)"Life Skill Management 2020- STTP National Sir Visvesvaraya Institute of Technology, Nashik 05/07/21 to 09/07/21 2) "Artificial Intelligence and Machine Learning" Faculty Development Programme National Directorate of Technical Education, Maharashtra 08/03/22 to 12/03/22
- ❖ **Dr. Smt. P. V. Damre :-** Assistant Professor in Chemistry. She also works as Assistant Programme Officer of NSS, NBA coordinator for Engineering Chemistry, Chemistry laboratory in charge, Class Teacher First Year Electronics and Telecommunication, Mentor for First year Mechanical Batch students(M3 Batch)
Training- One Week FDP on “Tools & Techniques in Characterization of Compounds” organized by CSIR-CERI, KARAIKUDI, during January 17-21, 2022
- ❖ **Smt.Y.N.Chaudhari :-**Assistant Professor in Physics. Member of Women Grievances Redressal Committee, student welfare cell, TATA Samarth Scholarship, CSR and student aid activities. Also taken the exam of Spoken tutorial for FE students. Worked as member in women’s harassment and redressal committee. Presented poster at RMC, Savitribai Phule Pune University, Pune.
- ❖ **Shri. M.D.Panchal :-**Assistant Professor in English. He also works as Programme Officer of NSS, At the institute level, He has also worked as a member of Covid-19 vaccination committee of this institute under ‘Mission Yuva Swastha’. He is a member of Gender Equality Cell, Students’ Development Committee and Anti-Ragging Committee of this institute. In the early half of this academic year, he had also worked as Boys’ Hostel Rector and In-charge Coordinator of Covid-19 Care Centre functioning at college hostels.

- ❖ He has worked as an In-charge of cleanliness drives conducted at Applied Sciences Department under Swatantryacha Amrut Mahotsav. He is also In-charge of Language Laboratory of the department. He also looks after departmental NPTEL/MOOCs activities. He has received Corona Warriors Appreciation Certificate from National Service Scheme Department of Savitribai Phule Pune University, Pune for his dedicated service towards Covid-19 awareness programmes and for conducting various activities during pandemic for welfare of the masses. He is a Life Member of The Indian Society for Technical Education (ISTE). In this academic year, he has successfully completed One week FDP on Enhancing Soft Skills and Personality jointly conducted by NPTEL and AICTE. He has also successfully completed All Eight Modules of National Initiative for Technical Teachers Training (NITTT) – A Comprehensive Training Policy for Technical Teachers under the initiative of AICTE.
- ❖ **Shri.V.P.Jadhav :-** Assistant Professor in Chemistry. He also works as a Member of Water Supply and First Year Coordination Committee. First year Time table in charge, Class Teacher First Year CIVIL, Departmental Library Coordinator, NBA coordinator for Environmental Studies – I and Environmental Studies – II subject, Mentor for First year Instrumentation Batch students (I3 Batch). Also handled implementation of First year Physical Education Scheme.
Training- 1) One week FDP on Basics of Fluorescence Spectroscopy , Organized by NPTEL-AICTE ,during Jan-Mar-2022

In current academic year 2021-2022 the department organized following programs for First Year students.

- 1) Welcome program for newly admitted first year students.
- 2) Induction program for newly admitted first year students
- 3) Health Check-up of all FE, DSE and Hostellers.
- 4) Physical Education Scheme of Savitribai Phule Pune University.
- 5) Spoken Tutorial courses like LINUX & LATEX for all desired first year students.
- 6) Parents Meet.

Apart from regular teaching learning activities, Applied Sciences Department faculty and staff is associated with activities like 1) ARC for Engineering, Pharmacy, MBA/MCA etc. 2) First year and Direct Second year admissions 3) Internal as well as University Examinations etc.

Faculty of this department always encourages First year students to participate in various co-curricular & extra-curricular activities like ROBOCON, GO KARTING, ABINITIO, BAHA, IAPT, NSS, Unnat Bharat Abhiyan and all sports & cultural events.

DEPARTMENT OF AUTOMOBILE ENGINEERING

The department of Automobile Engineering was started in the academic year 2009-10. Since from ten years we are striving for continuous development of our department and with that effort now department is having full equipped Laboratories with almost all Teaching resources, also higher qualified Teaching and non-Teaching staff. The department is committed for overall development of students which will help them to achieve top position of their career.

Department Vision

“To develop proficient automobile engineers for sustainable development.”

Department Mission

- M 1 To impart application-oriented education with creative thinking and human values.
- M 2 To develop Automotive Technological skills of the students for enhancing the employability and entrepreneurship.
- M 3 To prepare the students for higher studies, research and innovation.
- M 4 Develop the graduate engineers for continual learning to serve the society.

Program Educational Objectives (PEOs)

- PEO 1 Be successful in career with a sound knowledge of basic fundamentals of mathematics, engineering sciences and engineering.
- PEO 2 Develop the ability to solve real time engineering problems using core knowledge of automobile engineering.
- PEO 3 Developing the inter-disciplinary skills and professional ethics to analyze and solve the engineering issues towards sustainable development.
- PEO 4 Build up interpersonal skills, leadership, and team spirit and entrepreneurship qualities for successful profession along with life-long learning.

Infrastructure Status

- Total Laboratories = 09 + 01(CAD Lab),
- Total Classrooms = 03 + 01(Drawing Hall),
- Total Staff-rooms = 04+01 (HOD Cabin)
- Seminar Hall = 01,
- Girls Common Room = 01
- Boys Common Room = 01
- Departmental Library = 1

Staff Position

- FE Intake= 60,
- Total Intake = 240,
- Total Teaching Faculties=10
(1 Prof. + 1 Asso. Prof. + 08 Asst. Prof.)
- Total Tech. Lab Assistants = 03
- Total Auto Technician = 02
- Total Supporting Staff (Class IV) = 02

Department Achievement

This department always taking efforts to inculcate the best practices to impart outcome-based education among the students and as a result, this Automobile Engineering Program has been accredited by National Board of Accreditation (NBA) for three years.

राष्ट्रीय प्रत्यायन बोर्ड

चीफ सन, इन्स्ट टावर, एन. बी. सी. प्लेस, भीष्म पितामह मार्ग, प्रगति विहार, लोदी रोड, नई दिल्ली - 110003

NATIONAL BOARD OF ACCREDITATION

4th Floor, East Tower, NBCC Place, Bhisham Pitamah Marg, Pragati Vihar, Lodhi Road, New Delhi 110003

NBA
NATIONAL BOARD
OF ACCREDITATION

File No: 28-630-2021-NBA Date: 10-06-2022

To,

The Principal,
Government College of Engineering and Research,
A/P Avasari (Khurd), Tal. Ambegaon,
Dist. Pune, Maharashtra – 412405.

Govt. C.O.E. Avasari
Dt. 25 JUL 2022
Inward No. 3592

Subject: Accreditation status of UG Engineering programs applied by Government College of Engineering and Research, A/P Avasari (Khurd), Tal. Ambegaon, Dist. Pune, Maharashtra – 412405.

Sir,

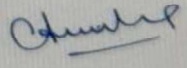
This has reference to your application I.D. No. 5380-25/02/2021 seeking accreditation by National Board of Accreditation to UG Engineering programs offered by Government College of Engineering and Research, A/P Avasari (Khurd), Tal. Ambegaon, Dist. Pune, Maharashtra – 412405.

2. An Expert Team conducted onsite evaluation of the programs from 22nd to 24th April, 2022. The report submitted by the Expert Team was considered by the concerned Committees constituted for the purpose in NBA. The Competent Authority in NBA has approved the following accreditation status to the programs as given in the table below:

Sl. No.	Name of the Program(s) (UG)	Basis of Evaluation	Accreditation Status	Period of validity	Remarks
(1)	(2)	(3)	(4)	(5)	(6)
1.	Mechanical Engineering	Tier II June 2015 Document	Accredited	Academic Years 2022-2023 to 2024-2025 i.e. upto 30-06-2025	Accreditation status granted is valid for the period indicated in Col.5 or till the program has the approval of the Competent Authority, whichever is earlier
2.	Automobile Engineering		Accredited		

3. It may be noted that only students who graduate during the validity period of accreditation, will be deemed to have graduated with an NBA accredited degree.

4. The programs have been granted accreditation for 3 years. Government College of Engineering and Research, A/P Avasari (Khurd), Tal. Ambegaon, Dist. Pune, Maharashtra – 412405 should submit the Compliance Report at least six months before the expiry of validity of accreditation mentioned above so as to be eligible for consideration by the concerned Committee in NBA for further processing of the accreditation status.


Contd./...

Tel: +91 11 2436 0620-22, 2436 0654; Telefax: +91 11 4308 4903

Higher Education and Placement

Many students from previous batches were preferred to go for higher studies. Magar Sameer Ashok from the class of 2016, Chakka Venkat Siva Kanna and Bhiram Suresh Kumar from the class of 2016 has secured admission for **M.S. (Mechanical Engineering) at Rochester Institute of Technology, New York**, also Kunal Laxmangiri Gosavi from the class of 2018 has secured admission for **Mechanical Engg. Tech- Industrial** at Centennial College, Toronto, Canada. As like Lalit Deepak Shendage and Sumit Rajaram Yelpale from the same class has secured admission for M. Tech. at MIT Pune & NIT Raipur. Students were also placed in reputed companies, details of Student placement for 2021-22 are tabulated as follows.

Sr. No	Name of students	Name of company	Designation	CT C
1	Anuja Deshpande	Capgemini	Analyst	4
2	Hrithik Veer	Capgemini	Analyst	4
3	Om Wagh	Infosys	Associate Analyst (A1)	4.8
4	Sushant Harale	Mahindra And Mahindra Ltd	Get	4.8
5	Onkar Mohole	Mahindra And Mahindra Ltd	Get	3.36
6	Nikhil Londhe	Mahindra And Mahindra Ltd	Get	3.36
7	Sunil Khokle	Mahindra And Mahindra Ltd	Get	2.28
8	Ajinkya Bairagi	Meerkle	Gat	2.28
9	Om Satish Wagh	Plastic Omnium Auto Exteriors Pvt Ltd.	Gat	2.28
10	Bhagya Jayakumar	Rudder Analytics	Associate Analyst (A1)	2.28
11	Preeti Srivastava	Rudder Analytics	Associate Analyst (A1)	2.28
12	Ashwajeet Ingole	TATA Motors	GAT	2.28
13	Kunal Khairnar	TATA Motors	GAT	2.28
14	Onkar Mohole	Tata Motors	Gat	2.28
15	Sanket Bhutambare	Tata Motors	Gat	2.28
16	Sarthak Suryawanshi	Tata Motors	Gat	1.2
17	Shripad Pate	Tata Motors	Gat	2.75
18	Shubham Arkas	Tata Motors	Gat	6.5
19	Sunil Khokale	Tata Motors	Gat	6.5
20	Sushant Harale	Tata Motors	Gat	6.5
21	Ajay Anarse	Tcs	Systems Engineer	6.5
22	Om Wagh	Tcs	Systems Engineer	3.6
23	Ritesh Rajkumar Jogi	Technologies Global Pvt. Ltd,	Get	4.68
24	Khose Jaydip Fulchand	TVS Supply Chain Solutions Limited	Get-Cad	4.5
25	Shivam Sunil Potghan	Ashok Layland	Junior Engineer	4

Industry sponsored project... (Academic Year, 2021-22)

For final year project, students have got sponsorship from various Industries. Tabulated details are as follows

Sr. No.	Name of Company	No. of students	Title of Project
I	DRDO	04	Solid Modelling and Finite Element Analysis of Directional Fragmentation Munition system
II	ARAI	04	High Fidelity Mathematical Model of Electric Drive- Train using MATLAB Simulink

Collaborations with Industries and Corporate Sectors, Premiere institutes etc.

Sr. No	Name of the Industry/ Company	Date of MoU	Collaboration Scope of Activities & benefits accruing to DEI	Academic Year
1	Terminal Technology Pvt. Ltd, Pune	28 th July 2021	1. To impart industrial exposure/Training as per available industrial facilities to both students and Faculties.	2020-21
2	Cyberlytics Pvt. Ltd, Pune	1 st July 2021	1. To impart industrial exposure/Training as per available industrial facilities to both students and Faculties.	2020-21
3	MCED, Pune	11 th Oct. 2019	1. To inculcate entrepreneurship amongst the students. 2. To help students to set up Enterprise/Business 3. To train the students in entrepreneurship programs.	2019-20
4	E-Cell, IIT Bombay	29 th June 2017	1. To motivate entrepreneurship among the students 2. To help students to set up Enterprise/Businesses 3. To help students to generate business ideas etc. 4. To motivate students to participate in Techfest conducted by IIT Mumbai	2017-18

Academic Achievement:

Sr. No.	Name of Students	Year	CGPA/SGPA	REMARK
1	Kshatriya Abhishek Sanjay	BE	9.469	FIRST TOPPER
2	Bhutambare Sanket Santosh	BE	9.34	SECOND TOPPER
3	Sonawane Shisheer Kailas	BE	9.26	THIRD TOPPER
1	Ghotekar Sakshi	TE	9.45	FIRST TOPPER
2	Lade Pranjali	TE	9.36	SECOND TOPPER
3	Deshmukh Harsh	TE	9.33	THIRD TOPPER
1	Patil Khushal Ravindra	SE	8.70	FIRST TOPPER
2	Kumbhar Poonam Santosh	SE	8.39	SECOND TOPPER
3	Reure Pratham Shivsharan	SE	8.18	THIRD TOPPER

Photo Gallery



Main Dynamic Round BAJA SAE INDIA (Radiance Racing)



GO KART (Team Phalanx)

DEPARTMENT OF CIVIL ENGINEERING

About Department

The department of Civil Engineering is established in AY 2009-10 with intake of 60+15 others. 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 programmes, etc., to meet requirement of student to make them competent civil engineer cater the need of society.

Department motivate 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, ABINITIO a Technical event in the institute. Students are asked to participate in technical & non-technical activities arranged by the institute and other colleges in SPPU & 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 organized by The GCOEARA/SPPU, Pune. Departments aim in future to go for NBA accreditation after the criteria of faculty and infrastructure.

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

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

List of Faculties:

S N	Name of faculty	Designation	Qualification	joined the Dept on
1	Dr. W. N. Deulkar	Associate Professor and Head	PhD in Civil Engg	21.11.2016
2	Dr. S N Madhekar	Associate Professor	PhD in Civil Engg	17.08.2021
3	Dr. M. G. Shaikh	Associate Professor	PhD in Civil Engg	11.06.2019
4	Prof. R. P. Thanedar	Assistant Professor	ME in Civil Engg	08.06.2018
5	Dr. S. B. Kharmale	Associate Professor	PhD in Civil Engg	05.04.2011

List of supporting staff:

S N	Name	Designation	Qualification	Joined the dept on
1	Mr. S. S. Gurav	Technical Lab Assistant	Diploma in Com. Engg	05.07.2013
2	Mrs. A. D. Bhat	Technical Lab Assistant	Diploma in Civil Engg	07.08.2015
3	Mr. S. V. Bharambe	Technical Lab Assistant	BSc (Physics)	19.07.2019
4	Ms. S. B. Palve	Technical Lab Assistant	BE Computer	20.08.2021
5	Mr. P. K. Tak	Technical Lab Attendant	HSC	27.03.2019

No of students in the department for AY2021-22:

Class	FE	SE	TE	BE
Intake	60+15	60+15	60+15	60+15
No of students	55	77	91	68
No of girl student	14	22	27	21
No of boy student	41	55	84	47

Details of Major Laboratories in the Department:

S N	Name of Laboratory	Area as per AICTE Sqm	Available areas sqm	Cost of Lab Rs.	Lab Incharge	Lab Assistant
1	Surveying	66	64.778	927172	S B Kharmale	A D Bhat
2	Environmental Engg	66	75.075	1012523	R P Thanedar	A D Bhat
3	Geotechnical Engg	66	153.3	576971	R P Thanedar	A D Bhat
4	Engineering Geology	66	64.778	222750	R P Thanedar	A D Bhat
5	Computer Engg	66	181.742	2244131	S B Kharmale	S B Palve
6	Engg Mechanics	66	60.28	106002	S B Kharmale	S B Palve
7	Fluid Mechanics	66	181.742	742483	S B Kharmale	S S Gurav
8	Transportation Engg	66	153.3	210137	R P Thanedar	S S Gurav
9	Concrete Technology + Consultancy	66	153.30	3089643	S B Kharmale	S S Gurav

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 Planimeter 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
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Details of Site Visit Arranged for the students:

- Dr W N Deulkar organized the site visits for the students at RMC plants, Manchar to study the details of Concrete.

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

- Dr S S Shahapure delivered expert talk for subject surveying of TE civil Engg students on 09.04.2022 organised by Dr W N Deulkar
- Shri Pravin Mehetare delivered expert talk on topic “Ferrocete Construction” under Concrete Technology Subject for SE students on 04.04.2022 organised by Dr W N Deulkar
- Shri Nilesh K Jain delivered expert talk on topic “Recent Civil Engineering Materials” under Concrete Technology Subject for SE students on 21.05.2022.
- Dr W N Deulkar delivered expert talk on “20 points programme for SC/ST students by State and Central government” under कौमी एकता सप्ताह on 25.11.2021.
- Dr M G Shaikh organised the programmes under कौमी एकता सप्ताह between 22-27.11.2021.
- Dr W N Deulkar organised Webinar on “Retrofitting of the structure” jointly with BVB college of engineering and Technology Hubli for Civil engineering fraternity on 26-5-2021.
- Dr W N Deulkar organized motivational and counselling speeches for students online via YouTube in a semester to release the stress of the students, many more times via Google meet.

Faculty Achievements

1. Books Published:

- Dr W N Deulkar Published a book on “Structural Mechanics” with Nirali Prakashan.
- Dr W N Deulkar Published a book on “Concrete Technology” with Nirali Prakashan.
- Dr S. N. Madhekar Published a book on “Passive Vibration Control of Structures” with Taylor and Francis , USA.

2. Paper/ Journal Publication by Faculties :

Sr. No.	Faculty Name	Subject of Paper / Journal Published by Faculty	Organizer
1	S. N. Madhekar	Manisha V. Waghmare, Suhasini N. Madhekar and Vasant A. Matsagar, "Performance of RC elevated liquid storage tanks installed with semi- active pseudo-negative stiffness dampers", Journal of Structural Control and Health Monitoring Wiley online library.com/journal/stc, 2022.	John Wiley & Sons, Ltd.
2	S. N. Madhekar	Prajakta Shete, Suhasini Madhekar, and Ahmad Fayeq Ghowsi. "Numerical Analysis of Steel Buckling-Restrained Braces with Varying Lengths, Gaps, and Stoppers". Practice Periodical on Structural Design and Construction, © ASCE, ISSN 1084-0680, Vol, 27(1): 04021051., 2022	American Society of Civil Engineers

3. NPTL Course attended by Faculty and students :

- Dr. W. N. Deulkar had registered and successfully completed the NPTEL course on Soil Structure Interaction during Jan to April 2022 and but could not appear for examination held on April 2022 due to family reason/s.
- About 60 students of SE to BE had registered and successfully completed the NPTEL courses like Blender, Open Foam in AY 2021-22 as follows

4. STTP/FDPs Attended by Faculty :

S. N.	Faculty Name	Type of FDP /STTP	Title of FDP /STTP	Organizing Institute	Duration with dates
1	Dr. W. N. Deulkar	AICTE- One week ATAL FDP	"Earthquake Response and Vibration of Control of Life Line Structures"	College of Engineering Pune	05 to 09 July 2021
2	Dr. W. N. Deulkar	AICTE- One week ATAL FDP	"Smart and Sustainable Infrastructure Development for New India"	Birla Institute Mahavidyalaya Engineering College,	20 to 24 Dec 2021
3	Dr. S. N. Madhekar	AICTE ATAL FDP	"Advances in Earthquake Engineering"	Department of Civil Engineering, LBS College of Engineering, Kasaragod, Kerala	26-30 July 2021 (1 week)
4	Dr. S. N. Madhekar	AICTE ATAL FDP	"Disaster Resilient Infrastructure"	Department of Civil Engineering, University Institute of Technology (UIT), Himachal Pradesh University, Shimla	9-13 August 2021 (1 week)
5	Dr. S. N. Madhekar	AICTE ATAL FDP	"Structural Dynamics and Earthquake Resistant Design of Structures"	Department of Civil Engineering, Government College of Engineering, Salem, An Autonomous Institution affiliated to Anna University, Chennai)	24-28 August 2021 (1 week)
6	Dr. S. N. Madhekar	Online National Webinar	"Foundations for Infrastructure Facilities: Principles and Sustainable Practices"	Don Bosco College of Engineering, Fatorda, Goa – 403 602	2-3 September 2021
7	Dr. S. N. Madhekar	One-week STTP	"Advances in Geotechnical Earthquake Engineering" (AGEE 2021)	G.S. Mandal's Marathwada Institute of Technology, Aurangabad & Dr. BATU, Lonere, Raigad, in Association with IGS Aurangabad Chapter & Soil Dynamics Forum, ISET	25th to 29th October 2021

8	Dr M G Shaikh	One-week STTP	Fabrication of Structural Bamboo Components	KONBAC, Kudal, District Sindhudurg, Maharashtra	31.08.2021 to 04.09.2021
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5. Training/ Workshop/Conference/Seminar/Webinar Attended by Faculty : 03

Sr. No.	Name of Faculty	Details	Date
1.	Dr. W. N. Deulkar	Attended and presented the paper on “Plastic Formwork For Sustainable Construction” At National Conference on Energy and Environment For Sustainable Development (NCEESD-2022) organized by online workshop of GCOEAR, Avasari.	5-6 July 2022
2.	Dr. W. N. Deulkar	Attended TE Civil syllabus drafting SPPU Pune at AISSPMS, Pune .	Jan 2021.
3.	Dr. W. N. Deulkar	Attended Online Advanced Course On Computational Mechanics And Simulation For Material and Structures (CMMS 2022) conducted by CSIR-SERC, Chennai .	19-21 Jan 2022
4.	Dr. W. N. Deulkar	Attended Sports Quiz on the occasion of Azadika Amrit Mahotsav organized by DYPCOE, Akurdi Pune	13-15 Aug 2021
5.	Dr. W. N. Deulkar	Attended Webinar on Retrofitting Techniques For Concrete Structure delivered by Ravi Rande and or organized by KLE School of Engg, Hubballi and GCOEAR, Avasari.	29.05.2021
6.	Dr. W. N. Deulkar	Attended one day online Conference on “Field and Institute Laison in Education (FILE) organized by Water Resource Department, Government of Maharashtra in association with KKWagh Institute of Engg and Research, Nashik	17 Dec 2021
7.	Dr. S. N. Madhekar	Attended Online Workshop for drafting of “T. E. Civil 2019 Pattern Syllabus”, Organized by SPPU AISSMS COE, at Pune.	3-5 May 2021
8.	Dr. S. N. Madhekar	Attended Online STP on “Advanced Modeling of Hysteresis Phenomena in Mechanical Systems and Materials” Organized by Polytechnic University of Turin.	4-7 May 2021 (1 week)
9.	Dr. S. N. Madhekar	Attended Webinar on UltraTech. “Building Geometries and Structural Systems for Earthquake Resistant Buildings” by Sangeeta Wij organized by Ultra tech	15th May 2021
10.	Dr. S. N. Madhekar	Attended Webinar on “Construction of Bahai Temple,” organized by UltraTech, New Delhi	22nd May 2021
11.	Dr. S. N. Madhekar	Attended Webinar on “Performance Based Seismic Design and Nonlinear Analysis of Tall Buildings”, Prof. Yogendra Singh organized by EPICONS	24th July 2021
12.	Dr. S. N. Madhekar	Attended Webinar on “Story of the bridge that could not be built”, K. P. Abraham, Former Chief engineer, CPWD by UltraTech.	7th August 2021
13.	Dr. S. N. Madhekar	Attended workshop on "Implementation and Execution of Third Year Civil Engineering 2019 Pattern Syllabus”, organized by SPPU, ABMSP's Anantrao Pawar College of Engineering & Research Parvati, Pune	7-9 September 2021
14.	Dr. S. N. Madhekar	Attended webinar on “Self-Healing Concrete: Promising New Development in Concrete Technology – Dr Rizwan Ali Khan, NIT Aligarh organized by UltraTech	8th January 2022
15.	Dr. S. N. Madhekar	Attended webinar on Bridges with external prestressing – Future of bridge construction in India - Alok Bhowmick organized by UltraTech	26th February 2022
16.	Dr. S. N. Madhekar	Attended webinar on Ductile detailing of tall buildings, Prof. Yogendra Singh organized by EPICONS	19th March 2022
17.	Dr.M G Shaikh	Bamboo structures for sustainable infrastructure, Dr Charoochandra Korde, CTARA, IIT Bombay, Dr Supratic Gupta, IIT Delhi	10.09.2021
18.	Dr.M G Shaikh	Bamboo in construction industry, Dr Jagdish Vengala, PVPSIT, Vijayvada	10.09.2021

19.	Dr.M G Shaikh	Bamboo entrepreneurship for income generation in rural areas, Dr K K Seethalaksmi	11.09.2021
20.	Dr.M G Shaikh	Bamboo for empowering the voiceless and marginalized, Fr Saju K Mathai, Keeppanasseril, Kerala	12.09.2021
21.	Dr.M G Shaikh	Bamboo- A treasure trove, fast renewable and biodegradable fibre, Dr E M Muralidharan, Retd Senior Principal Scientist, KFRI, Kerala	14.09.2021
22.	Dr.M G Shaikh	Bamboo industry, Bamboo Pecker Lifestyle Crafts Pvt Ltd	15.09.2021
23.	Dr.M G Shaikh	Selection of bamboo species and propagation methods, Dr K K Seethalaksmi, Former KFRI Scientist and Coordinator, BTSG, BSI Member	16.09.2021
24.	Dr.M G Shaikh	Initiatives for bamboo sector development, Dr K K Seethalaksmi, Former KFRI Scientist	17.09.2021
25.	Dr.M G Shaikh	Agricultural sustainability through bamboo farming, Dr Sandeep Chopde, Mumbai	18.09.2021
26.	Dr.M G Shaikh	Bamboo charcoal, Dr T K Damodharan, IWST Bengaluru	18.09.2021
27.	Dr.M G Shaikh	Bamboo for energy, Dr Barathi, Growmore, Hosur	18.09.2021
28.	Dr.M G Shaikh	Rethinking bamboo in culture through design, Dr Neelam Manjunath, CGBMT, Bengaluru	19.09.2021
29.	Dr.M G Shaikh	Role of technology and entrepreneurship in development of bamboo sector, Rohit Agrawal, MPSBM, Bhopal	24.09.2021
30.	Dr.M G Shaikh	The bamboo expert, Dr Ram Narayan Pandey	29.09.2021
31.	Dr.M G Shaikh	Incense sticks production: growing employment prospect, Dr V D Tripathi, B S Konkan Krishi Vidyapeeth, Dapoli, Ratnagiri	01.10.2021
32.	Dr.M G Shaikh	Advanced bamboo processing techniques and its utilization for structural applications, Dr S R Shukla, IWST, Bengaluru	02.10.2021
33.	Dr.M G Shaikh	Bamboo charcoal, Runumee Devi Borthakur, RFRI, Jorhat, Assam	02.10.2021
34.	Dr.M G Shaikh	Bamboo cultivation, value addition and marketing, Dr V M Illorkar, Senior Scientist, Agroforestry, Nagpur	05.10.2021
35.	Dr.M G Shaikh	Say no to single use plastics, Shakti Singh Chauhan, IPRITI, Bengaluru	06.10.2021
36.	Dr.M G Shaikh	2G ethanol from ligno-cellulosic biomass of bamboo, Dr N Barathi, Grow more Biotech Ltd, Hosur	16.10.2021
37.	Dr.M G Shaikh	Bamboo in architecture, Dr Neelam Manjunath, CGBMT, Bengaluru	22.10.2021
38.	Dr.M G Shaikh	Regionwide suitability of bamboo species across India, Dr Raghu H B, Zonal Agricultural Research Station, Mandya	30.10.2021
39.	Dr.M G Shaikh	Innovations in bamboo sector, Dr N Barathi, Growmore Biotech Ltd, Hosur	12.11.2021
40.	Dr.M G Shaikh	Value addition in bamboo through heat treatment, Dr S R Shukla, IWST, Bengaluru	13.11.2021
41.	Dr.M G Shaikh	Bamboo carbonisation techniques, Dr V Y Karadbhajane, Laxminarayan Institute of Technology, Nagpur	13.11.2021
42.	Dr.M G Shaikh	Low input cost cultivation of bamboo-Natural farming, BSI webinar series	11.12.2021
43.	Dr.M G Shaikh	Bamboo nursery management, bamboo flowering perspective and measures, Dr Yogeshhwar Mishra, Institute of forest productivity, Ranchi	18.12.2021
44.	Dr.M G Shaikh	Career Katta-Startup Ecosystem, MITSC	30.12.2021
45.	Dr.M G Shaikh	Potential use of bamboo and its composites in housing technology, Amitava Sil, Scientist, IPIRTI, Kolkata	22.01.2022

46.	Dr.M G Shaikh	Evolution of bamboo sector in India and current challenges, V Giriraj, CEO, Maharashtra Bamboo Promotion Foundation, Mumbai	29.01.2022
47.	Dr.M G Shaikh	Facility for research in technical acoustics, Prof M L Gunjal, AICTE Distinguished Chair Professor, NSA Honorary Scientist	07.03.2022
48.	Dr.M G Shaikh	Quality planting material in bamboo for improved productivity, Dr E M Muralidharan, Senior Principal Scientist Retd, KFRI, Kerala	11.03.2022

6. R and D activities:

S N	Name of faculty	Details
1.	Dr. W. N. Deulkar	Guiding 04 candidates for their PhD under SPPU.
2.	Dr. S. B. Kharmale	Guiding 03 candidates for their PhD under SPPU.
3.	Dr. M. G. Shaikh	Submitted FDP proposal on “Need of Bamboo” to AICTE under ATAL scheme.
4.	S. N. Madhekar	Guiding 03 candidates for their PhD under SPPU.

Students Activities**1. List of Class Representatives:**

Class	SE	TE	BE
CR1	Sameer Sahebrao Pagar	Chaudhari Vaishnav Digambar	Shivani Kailas Ingole
CR2	Gambhire Madhav Dattatry	Shruti Sanjay Kate	Mane Harshvardhan

2. Annual Result by SPPU:

S.N.	Class	SE	TE	BE
1	All clear (%)	68%	56%	99%
2	ATKT(%)	32%	35%	01%
3	Total student	77	91	68

3. List of Class Toppers with CGPA :

Class	Rank	Name of Student	SGPA/CGPA (Marks)	Class
SE Civil	1 st	Gambhire Madhav Dattatray	8.91	First Class With Distinction
	2 nd	Gaikwad Sakshi Vikas	8.75	First Class With Distinction
	3 rd	Patil Atharva Pramod	8.64	First Class With Distinction
TE Civil	1 st	Shruti Sanjay Kate	9.62	First Class With Distinction
	2 nd	Raundal Bhagyashri	9.57	First Class With Distinction
	3 rd	Parale Utkarsh Vasant	9.52	First Class With Distinction
BE Civil	1 st	Gavalee Ganesh Tulashidas	9.80	First Class With Distinction
	2 nd	Pohare Vijay Babanrao	9.71	First Class With Distinction
	3 rd	Maharnwar Krushna Jaysing	9.56	First Class With Distinction

4. 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	Prathemesh Dhumal	Townplanning	Dr. Vishwanath Karad MIT WPU, Pune	National Level-2 nd Runner-up Team	29th ,30th April 2021
2	Vikas Ankush Shinde	FDP & SOP - Laboratory Experiments for wastewater characterization	Civil Engg.- Sinhgad college of Engg., pune	Participation	8th , 9th October 2021
3	Utkarsh Madhukar More	FDP & SOP -on Practical's in Environmental Engg. I	civil Engg.- Sinhgad college of Engg., pune	Participation	29th , 30th May 2021
4	Akash Pravin Vansale	FDP & SOP -on Practical's in Environmental Engg. I	civil Engg.- Sinhgad college of Engg., pune	Participation	30th , 30th May 2021
5	Akash Pravin Vansale	FDP & SOP - Laboratory Experiments for wastewater characterization	Civil Engg.- Sinhgad college of Engg., pune	Participation	8th , 9th October 2021
6	Akash Pravin Vansale	Course-Google Ads for Beginners	Coursera Project Network	Course Certificate	2021
7	Akash Pravin Vansale	Test-Python 3.4.3	GCOEARA	Training	29th march 2021
8	Prathemesh Dhumal	AutoCAD Training -Six Weeks	GCOEARA	Training	8th July 2021
9	Vaishali Rajendra Gaikwad	loknete sharadravji Pawar Rajyastriy Mahavidyalaya vakrutv sphardha	GCOEARA - Online	Participation	9th Dec. 2021
10	Shubham Gautam Sabale	Industry Ready Civil RCC Module - Internship	know how Schools	Certificate of Completion of Training	19th July to 23th August 2021

11	Shrikrushna Chakkar	Qcad Training	GCOEARA	Certificate of Training	29th march 2021
12	SHIVANI Kailas Ingole	Industry Ready Civil RCC Module - Internship	know how Schools	Certificate of Training	31st March to 16th April 2021
13	SHIVANI Kailas Ingole	National Engineering Olympiad 5.0- Round One	National Engineering Olympiad 5.0	Certification	22nd Dec. 2021
14	Mrunalini Prakash Jadhav	TCS' goIT Student Innoovation Program	TCS	Participation	1st March 2021
15	Mrunalini Prakash Jadhav	Microsoft AI Classroom Series	Microsoft	Participation	1st Feb. 2021
16	Harshwarshan Mane	IGBC's Student Chapter Annual Meet 2021	IGBC-Indian Green Building Council -CII	Participation	17th Nov. 2021
17	Harshwarshan Jitendra Mane	Webinar on "Valuation of Land and Building /Real Estate"	Karmaveer Bhaurao patil College of Engineering , Satara	Webinar	5th , 6th June 2021
18	Shrikant Chepat	Design F1 Mercedes Race Car's Steering System	ETGBITE'21	Participation	11th July 2021
19	Shrikant Chepat	Intershala Classroom-Online Internship Talk on " Easiest way to earn Pocket Money and gain Expreience"	Intershala	Internship	3rd May 2021
20	Shrikant Laxman Chepat	adopted the integrity Pledge	Central Vigilance Commission	Certification of Commitment	2021
21	Shrikant Laxman Chepat	Azadika Amrut Mahotsav Quiz on Occasion of Gandhi Jayanti	GCOEARA	Quiz Participation	2nd Oct 2021
22	Shrikant Laxman Chepat	Azadika Amrut Mahotsav Quiz	GCOEARA	Quiz Participation	5th Sep. 2021

5. Details of Spoken Tutorial Courses offered by IIT, Bombay and by Civil Dept. for student

S N	Class	Courses Offered	Total student Participated	Date of Exam.
1	SE Civil	Blender	44	09-02-2022
2	TE Civil	Open FOAM	60	09-02-2022
3	BE Civil	Open FOAM	56	09-02-2022

S.N.	Class	Name of the Student	Name of the subject	Duration of the course	exam conducted by which IIT
1.	SE Civil	Abhishek Korde	Blender	July 2021	IIT Bombay
2.	SE Civil	Kalpesh Pote	Blender	July 2021	IIT Bombay
3.	SE Civil	Omkar Mali	Blender	July 2021	IIT Bombay
4.	SE Civil	Hitanshu Shinde	Blender	July 2021	IIT Bombay
5.	SE Civil	Shrikant Chepat	Blender	July 2021	IIT Bombay
6.	SE Civil	Shubham Thigale	Blender	July 2021	IIT Bombay
7.	SE Civil	Manisha Sawant	Blender	July 2021	IIT Bombay
8.	SE Civil	Atharva Bhadange	Blender	July 2021	IIT Bombay
9.	SE Civil	Aditya Parve	Blender	July 2021	IIT Bombay
10.	SE Civil	Jyalin Rathod	Blender	July 2021	IIT Bombay
11.	SE Civil	Vivek Pawar	Blender	July 2021	IIT Bombay
12.	SE Civil	Sakshi Gaikwad	Blender	July 2021	IIT Bombay
13.	TE Civil	Yogita Deshmukh	Open FOAM	July 2021	IIT Bombay
14.	TE Civil	Shivani Ingole	Open FOAM	July 2021	IIT Bombay
15.	TE Civil	Pratik Gawali	Open FOAM	July 2021	IIT Bombay
16.	TE Civil	Vaishnav Chaudhari	Open FOAM	July 2021	IIT Bombay
17.	TE Civil	Dnyaneshwari Shelar	Open FOAM	July 2021	IIT Bombay
18.	TE Civil	Divya Labade	Open FOAM	July 2021	IIT Bombay
19.	TE Civil	Prashant Kakulte	Open FOAM	July 2021	IIT Bombay
20.	TE Civil	Abhishek Korde	Open FOAM	July 2021	IIT Bombay
21.	TE Civil	Girish Patil	Open FOAM	July 2021	IIT Bombay
22.	TE Civil	Shreya Daga	Open FOAM	July 2021	IIT Bombay
23.	TE Civil	Gururajsing Patil	Open FOAM	July 2021	IIT Bombay
24.	TE Civil	Ronak Khajekar	Open FOAM	July 2021	IIT Bombay
25.	TE Civil	Mrunal Aade	Open FOAM	July 2021	IIT Bombay
26.	TE Civil	Pawan Gurnule	Open FOAM	July 2021	IIT Bombay
27.	TE Civil	Kalyani Kharade	Open FOAM	July 2021	IIT Bombay
28.	TE Civil	Payal Khairnar	OpenFOAM	July 2021	IIT Bombay
29.	TE Civil	Rushikesh Bande	OpenFOAM	July 2021	IIT Bombay
30.	TE Civil	Adinath Gole	OpenFOAM	July 2021	IIT Bombay
31.	TE Civil	Jaydeep Karande	OpenFOAM	July 2021	IIT Bombay
32.	TE Civil	Pruthviraj Pawar	OpenFOAM	July 2021	IIT Bombay
33.	TE Civil	Ashwini Raut	OpenFOAM	July 2021	IIT Bombay
34.	BE Civil	Sahil Bhat	OpenFOAM	July 2021	IIT Bombay
35.	BE Civil	Kamleshwar Giri	OpenFOAM	July 2021	IIT Bombay
36.	BE Civil	Nishant Deshpande	OpenFOAM	July 2021	IIT Bombay
37.	BE Civil	Shubham Dandnaik	OpenFOAM	July 2021	IIT Bombay
38.	BE Civil	Pratiksha Munde	OpenFOAM	July 2021	IIT Bombay
39.	BE Civil	Nitin Kamble	OpenFOAM	July 2021	IIT Bombay
40.	BE Civil	Dipraj Bhabad	OpenFOAM	July 2021	IIT Bombay

41.	BE Civil	Yogita Deshmukh	OpenFOAM	July 2021	IIT Bombay
42.	BE Civil	Rani Divekar	OpenFOAM	July 2021	IIT Bombay
43.	BE Civil	Shivani Ingole	OpenFOAM	July 2021	IIT Bombay
44.	BE Civil	Abhishek Shinde	OpenFOAM	July 2021	IIT Bombay
45.	BE Civil	Prafull Kadam	OpenFOAM	July 2021	IIT Bombay
46.	BE Civil	Vaibhao Ambhore	OpenFOAM	July 2021	IIT Bombay
47.	BE Civil	Rushikesh Khade	OpenFOAM	July 2021	IIT Bombay
48.	BE Civil	Renuka Bhapkar	OpenFOAM	July 2021	IIT Bombay
49.	BE Civil	Priti Sapate	OpenFOAM	July 2021	IIT Bombay
50.	BE Civil	Shashikant Khurange	OpenFOAM	July 2021	IIT Bombay
51.	BE Civil	Pratiksha Vaidya	OpenFOAM	July 2021	IIT Bombay
52.	BE Civil	Vikas Shinde	OpenFOAM	July 2021	IIT Bombay
53.	BE Civil	Govind Kale	OpenFOAM	July 2021	IIT Bombay
54.	BE Civil	Manoj Jadhav	OpenFOAM	July 2021	IIT Bombay
55.	BE Civil	Vijay Pohare	OpenFOAM	July 2021	IIT Bombay
56.	BE Civil	Harshwardhan Mane	OpenFOAM	July 2021	IIT Bombay
57.	BE Civil	Gaikwad Gaikwad	OpenFOAM	July 2021	IIT Bombay
58.	BE Civil	Kailas Phad	OpenFOAM	July 2021	IIT Bombay
59.	BE Civil	Ganesh Gavalee	OpenFOAM	July 2021	IIT Bombay
60.	BE Civil	Ameey Sul	OpenFOAM	July 2021	IIT Bombay

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 consultee undertaken are like TPQA of infrastructure, vetting of RCC drawing, Geotechnical investigation etc. Revenue generated is share with Government of Maharashtra development of laboratories & etc other. Approximately 10 to 15 lac revenue is generated by the department.

Major Consultancy undertaken by departments is,

1. Third Party Audit of high mask pole installed by for Z P Pune at villages Manchar/Ambegaon, District Pune
2. RCC drawing vetting & construction of ESR, GSR, Concrete Road, retaining walls, etc. for Nagar parishad, Junnar, Rajgurunagar, Ambegaon, Dist. Pune
3. Vetting of drawing of bridges for m/s vrs Patel Construct & CO, Pune.
4. TPQA of indoor & outdoor Gym equipment for consultancy work of नगर पररषदमहावितरण on 2-3-2022, ESR , GSR vadgaon , Chakan on 3-02-2022 gymon GSR nashik on 27-01-2022 & 04- 05-2022 , 27-28.01.2022

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

<ul style="list-style-type: none"> • Pooja electrical, Ahmednagar • M/s V S Patel, Pune • M/s Nirmal Solutions, Nashik • Mangal murti Construction, Khed, Pune • Trimurtee RMC plant. Khed • Gosavi Baba Construction, Chakan, Pune 	<ul style="list-style-type: none"> • Nagar parishad, Junnar, • Nagar parishad, Chakan, • Nagar parishad, Rajgurunagar • Zilla Parishad, Pune • Maharashtra Jeevan Pradhikaran • Kendriya Vidyalaya,
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DEPARTMENT OF COMPUTER ENGINEERING

About Department :

The Computer Engineering department was established in year 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 and ERC (Enlectic Research Centre)} are dynamic and organize a number of academic 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 assistant helps us to keep all laboratories updated with latest software. Department organizes industry visits and expert session 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
<u>1</u>	Dr. S. U. Ghumbre	Professor and Head	PhD	May 2016
<u>2</u>	Dr. V. S. Inamdar	Associate Professor	PhD	13 August 2021
<u>3</u>	Prof. D. J. Periera	Assistant Professor	M Tech PhD (Pursuing)	2011
<u>4</u>	Prof. P. V. Kulkarni	Assistant Professor	ME (CSE)	31/12/2020
<u>5</u>	Dr. S. A. Thorat	Assistant Professor	PhD	08/06/2021
<u>6</u>	Prof. R. P. Bagvade	Assistant Professor	ME	08/06/2021
<u>7</u>	Prof. K. B. Sadafale	Assistant Professor	ME(Computer)	08/06/2021

• List of supporting staff :

Sr. No	Name	Designation	Qualification	Joined the dept on
1	Mr. Chetan Chaudhari	Instructor (T.L.A.)	Diploma in Computer Engg. BSc BIS	10/7/2013
2	Mr. C. P. Borse	Instructor (T.L.A.)	Diploma in Industrial Electronics Engg.	10/3/2014
3	Mr. P. V. Darandale	Instructor (T.L.A.)	B.E in Computer Engg	11/03/2014
4	Mr. D. S. Gupta	Instructor (T.L.A.)	B.E in Computer Engg	10/7/2013
5	Mr. Arun Jadhav	Lab Attendant	B.A	21/5/2015

• **No. of students in the department : for AY2021-22:**

Class	FE	SE	TE	BE
Intake	60+15	60+15	60+15	60+15
No of students	55	77	91	68
No of girl student	14	22	27	21
No of boy student	41	55	84	47

• **List of Major Equipments:**

- Desktop computers Total 140 Nos
- Lenovo ThinkCentre 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
- Lenovo ThinkCentre (with CPU): 20 No
- Core i5 2.8 Ghz RAM 4GB HDD 500GB

• **Details of Seminar/Webinar/Expert talk, organized by department / faculty:**

- Technical Session on “Software Development and Internship Awareness” organized on 23/08/2022 in association with the “Women in Tech Fellowship Program” for female students.
- Technical Session on “Artificial Intelligence” organized on 17/09/2022 and 24/09/2022 in association with “Edunet Foundation” under TechSaksham for female students.
- CV Builder Workshop organized on 14/10/2022 – 15/10/2022 in association with the “The Student Promise”.

• **NPTEL Course attended by students :**

- Ruturaj Shamkant Aher (SE) : – Programming In Java, Indian Institute of Technology Kharagpur.

Duration :	12 weeks
Start Date :	24 Jan 2022
End Date :	15 Apr 2022
Exam Date :	24 Apr 2022 IST

• **Training/ Workshop/Conference/Seminar/Webinar Attended by Faculty :**

Sr. No.	Name of Faculty	Details	Date
1.	P. V. Kulkarni	Internship Program on Machine Learning (Online) Organized by its college of Engineering Greater Noida under Center of Excellence National Instruments Innovation Center	1 Nov to 25 Dec 2021

• **R and D activities:**

Sr. No.	Name of faculty	Details
1.	Dr. V.S. Inamdar	Guided 03 candidates for their PhD.

Students Activities

• **List of Class Representatives**

Class	SE	TE	BE
CR	Namita Gawai	Rutwik Bagale	Pushkar Marathe

• **List of Class Toppers with CGPA :**

Class	Rank	Name of Student	SGPA/CGP A (Marks)	Class
SE Comp	1 st	Mali Eknath Bhagvan	9.34	First Class With Distinction
	2 nd	Taware Sakshi Sunil	9.25	First Class With Distinction
	3 rd	Mahadik Radhakrishna Shamrao	8.98	First Class With Distinction
TE Comp	1 st	Bachkar Tejashri Shivaji Ghadge Akash Suresh	9.81	First Class With Distinction
	2 nd	Antre Pratibha Rakhama Chintanwar Vaishanvi Ramchandra Sale Divya Tukaram	9.79	First Class With Distinction
	3 rd	Gholap Ankita Budhaji	9.76	First Class With Distinction
BE Comp	1 st	Maske Mahesh Vitthal	9.60	First Class With Distinction
	2 nd	Markali Vaishali Rajendra Rode Puja Khandu	9.59	First Class With Distinction
	3 rd	Patil Yogendra Ekanath	9.49	First Class With Distinction

• **Annual Result by SPPU :**

Sr. No.	Class	SE	TE	BE
1	All clear (%)	75%	87.34%	98.59%
2	ATKT(%)	23.68%	12.66%	2.8%
3	Total student	76	79	71

• **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	Pradnya Kulkarni	Ignited innovators of India (i2i 2021-22)	Organized by COEP BHAU and EATON INDIA	First Prize in Social sector	27-28 September 2022
2	Aditya Thomabare				
3	Poonam Salbande				
4	Harshada Kangude	Ignited innovators of India (i2i 2021-22)	Organized by COEP BHAU and EATON INDIA	First Prize in Environment sector	27-28 September 2022
5	Prashant Dhole				
6	Pranav Patil				
7	Team Abhedya	National DD Robocon contest	IIT Delhi	Second Prize	20 July 2022
8	Team Abhedya	ABU Robocon 2022	Asia-Pacific Broadcasting Union		

• **Details of Spoken Tutorial Courses offered by IIT, Bombay:**

Sr. No.	Class	Courses Offered	Total student Participated	Date of Exam.
1	SE Comp	Git	50	09-02-2022
2	TE Comp	Git	30	09-02-2022
3	BE Comp	Git	10	09-02-2022

Sr. No.	First Name	Last Name	Name of Course	Duration	Exam Conducted by
1	ABHAY	PARDESHI	Git	2021	IIT Mumbai
2	DIVYA	SALE	Git	2021	IIT Mumbai
3	KOMAL	GORDE	Git	2021	IIT Mumbai
4	MAYUR	GAIKWAD	Git	2021	IIT Mumbai
5	Priyanka	Gadhane	Git	2021	IIT Mumbai
6	ROHIT	KHARAT	Git	2021	IIT Mumbai
7	ROHIT	JAGTAP	Git	2021	IIT Mumbai
8	VAISHNAVI	CHINTANWAR	Git	2021	IIT Mumbai
9	ABHIJEET	PATIL	Git	2021	IIT Mumbai
10	ABHISHEK	MOHITE	Git	2021	IIT Mumbai
11	ADITYA	THOMBARE	Git	2021	IIT Mumbai
12	AISHWARYA	KOTKAR	Git	2021	IIT Mumbai
13	AKSHAY	SONAJE	Git	2021	IIT Mumbai
14	ANKITA	PANDHARE	Git	2021	IIT Mumbai
15	AVISHKAR	GAIKWAD	Git	2021	IIT Mumbai
16	CHINMAY	BAGUL	Git	2021	IIT Mumbai
17	DEV	MAGAR	Git	2021	IIT Mumbai
18	DHANANJAY	KATARE	Git	2021	IIT Mumbai
19	DHRUVA	PATIL	Git	2021	IIT Mumbai
20	DNYANESHWAR	CHAVAN	Git	2021	IIT Mumbai
21	EKNATH	MALI	Git	2021	IIT Mumbai
22	JOEL	GAVIT	Git	2021	IIT Mumbai
23	MOHAMMAD AYAJ	ANSARI	Git	2021	IIT Mumbai
24	NACHIKET	JAGTAP	Git	2021	IIT Mumbai
25	NAMITA	GAWAI	Git	2021	IIT Mumbai
26	NIKITA	MORE	Git	2021	IIT Mumbai
27	NILAM	WADHAVANE	Git	2021	IIT Mumbai
28	PIYUSH	MORE	Git	2021	IIT Mumbai
29	PRADNYA	KULKARNI	Git	2021	IIT Mumbai
30	PRANAV	MULE	Git	2021	IIT Mumbai
31	PRATHAMESH	DEOTARE	Git	2021	IIT Mumbai
32	PRATIYKSHA	GOPHANE	Git	2021	IIT Mumbai
33	RADHAKRUSHNA	MAHADIK	Git	2021	IIT Mumbai
34	RUTURAJ	AHER	Git	2021	IIT Mumbai
35	SAKSHI	GALBALE	Git	2021	IIT Mumbai
36	SAKSHI	VARTAK	Git	2021	IIT Mumbai
37	SAKSHI	TAWARE	Git	2021	IIT Mumbai
38	SAKSHI	INGOLE	Git	2021	IIT Mumbai
39	SAMEER	SHAIKH	Git	2021	IIT Mumbai

40	SANDIP	WAGH	Git	2021	IIT Mumbai
41	SANKET	KOLHE	Git	2021	IIT Mumbai
42	SANTOSH	ZORE	Git	2021	IIT Mumbai
43	SAUMIL	TIWARI	Git	2021	IIT Mumbai
44	SAUMYA	TIWARI	Git	2021	IIT Mumbai
45	SNEHAL	TIRPUDE	Git	2021	IIT Mumbai
46	SUSHANT	GANGURDE	Git	2021	IIT Mumbai
47	SUYASH	PATIL	Git	2021	IIT Mumbai
48	SWARAJ	CHAVAN	Git	2021	IIT Mumbai
49	TANMAY	JADHAV	Git	2021	IIT Mumbai
50	TUSHAR	THORAT	Git	2021	IIT Mumbai
51	UTTKARSH	CHAVAN	Git	2021	IIT Mumbai
52	VAIBHAV	GAWALI	Git	2021	IIT Mumbai
53	VARAD	BHAVSAR	Git	2021	IIT Mumbai
54	YASH	MAVARE	Git	2021	IIT Mumbai
55	AISHWARYA	CHEMATE	Git	2021	IIT Mumbai
56	AKASH	GHADGE	Git	2021	IIT Mumbai
57	ALISHA	DHAVALE	Git	2021	IIT Mumbai
58	ANIKET	RANDHAVAN	Git	2021	IIT Mumbai
59	ANJANI	DHOBALE	Git	2021	IIT Mumbai
60	ANURADHA	PALVE	Git	2021	IIT Mumbai
61	ANUSHKA	AUTADE	Git	2021	IIT Mumbai
62	ASHLESHA	SANKPAL	Git	2021	IIT Mumbai
63	BHAVANA	NARAYAN	Git	2021	IIT Mumbai
64	CHAITANYA	JAMNERKAR	Git	2021	IIT Mumbai
65	HARSHADA	KANGUDE	Git	2021	IIT Mumbai
66	JYOTI	GANGANMALE	Git	2021	IIT Mumbai
67	KISAN	JADHAV	Git	2021	IIT Mumbai
68	PRAGATI	SHENDRE	Git	2021	IIT Mumbai
69	PRANAV	RANAWARE	Git	2021	IIT Mumbai
70	PRATIBHA	ANTRE	Git	2021	IIT Mumbai
71	PRIYANKA	MADANE	Git	2021	IIT Mumbai
72	RUTUJA	NIGHOT	Git	2021	IIT Mumbai
73	RUTUJA	SHIRKE	Git	2021	IIT Mumbai
74	SHUBHAM	BORKAR	Git	2021	IIT Mumbai
75	SHUBHAM	SINGH	Git	2021	IIT Mumbai
76	SPANDAN	PAGAR	Git	2021	IIT Mumbai
77	SUSHANT	PHALKE	Git	2021	IIT Mumbai
78	TEJASHRI	BACHKAR	Git	2021	IIT Mumbai
79	TWINKAL	MESHARAM	Git	2021	IIT Mumbai
80	VAISHNAVI	YELURE	Git	2021	IIT Mumbai
81	VIVEK	CHOWGULE	Git	2021	IIT Mumbai
82	YASH	PATIL	Git	2021	IIT Mumbai

Social Activities

• Details of Cleanliness Drives conducted by department

Sr. No.	Duration/ Dates	Area Cleaned	Co-ordinated By	Remark if any
1.	19/3/2022 3:00 to 5:00pm	CN Lab, Corridor 2nd Floor, DBMS Lab, Corridor 1st Floor	P. V. Kulkarni	Involved Staff 1. Dr. S. U Ghumbre HOD, Computer Engineering 2. Dr. V.A.Inamdar Associate Professor 3. Mrs. P.V.Kulkarni (SPOC) Assistant Professor 4. Mr. Pravin Darandale Technical Lab Assistant 5. Shri. Chetan Chaudhari Technical Lab Assistant 6. Shri. Dhananjay Gupta - Technical Lab Assistant 7. Shri. Arun Jadhav and students
2.	17/12/2021	Project Lab, Corridor First Floor	Staff and Students	



Cleanliness Drive in department

Clubs

1. Enlectic Research Centre (ERC):

Achievements:

- In use Admission Reporting System in GCOEARA.
→ <https://gcoeara.ac.in/Report-Admission/>
- Website for National Energy and Environment for Sustainable Development Conference held by GCOEARA in 2021
→ <https://www.gcoeara.ac.in/nceesd2022/>
- Branch Change Portal for GCOEARA.
- Android Application For Zoho Creator.

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION ENGINEERING

About Department

The Department of Electronics and Telecommunication was established in 2009-10 with 60 Intake. Since its commencement, the primary level of the department has been to value based quality education, training and research at the undergraduate in various areas of Electronics and Telecommunication Engineering with broad emphasis on design aspects of electronic systems.

The Department has always been on a high growth path and has experienced and dedicated faculty members with a strong commitment to Engineering education. To keep pace with the current technological trends, all the undergraduate curricula have been upgraded by Savitribai Phule Pune University.

Laboratory facilities are utilized by students for the extensive project work. The department focuses on preparing its students to meet new industry challenges and making them aware of the recent advances in the technological field by emphasizing on

- A strong technical training in modern electronics technology
- Skills in analysing and design of microelectronic circuits and system
- Latest trends in simulation
- Practical skills in, Image processing, VLSI Design, Fibre Optic Communication and Advance Communication

• Strengths:

- Experienced and Qualified Faculty Members (MPSC selected), 03 Doctorate faculty members
- Well Equipped Laboratories

All Labs fulfils Practical requirement as per Curriculum of SPPU.

List of Faculties and details:

Sr. No	Name of Staff	Qualification	Designation	Experience (Years)	Paper Publications	Books	Patent (Published/Granted)
1	Dr. M.S.Nagmode	Ph.D	Professor & HOD	24 Years	42	03	02 published/01 Granted
2	Dr. N. P. Futane	Ph.D	Associate Professor (CAS)	32 Years	17	--	01
3	Dr. K.V. Thakur	Ph.D	Assistant Professor	20 Years	13	--	-

4	Prof. G. R. Phulay	M.E.	Assistant Professor	18 years	07	01	-
5	Prof. A.P.Gargade	MTech.	Assistant Professor	12 Years	01	--	--
6	Prof. D.B. Maheshwari	M.E.	Assistant Professor	08 Years	03	--	--

List of Faculties: Electrical

Sr. No	Name of Staff	Qualification	Designation	Experience (Years)	
1	Prof. T. T. Waghmare	M.E.Pursuing Ph.D	Associate Professor (CAS)	17 years	Pursuing Ph.D from July 2019

Paper Publication by Faculty (AY 2021_22)

Dr Manoj S Nagmode

- Dr. Manoj S. Nagmode, R R Borhade “Epileptic Seizure Prediction Using Exponential Squirrel Atom Search Optimization-Based Deep Recurrent Neural Network,” in International Journal of Ambient Computing and Intelligence(IJACI), IGI Global, vol. 12(3), pages 166-184, **July 2021**. Publisher: IGI Global Publishing, Publication Type: Journal, ISSN: 1941-6245, 1941-6237, H Index: 14, Quartile: Q3,SJR: 0.26 ,Indexing: Scopus.

Departmental Faculty Coordinators

- Academic Coordinator, Annual Magazine coordinator: Dr M. S Nagmode
- E-Yantra, Robotics Lab, Project coordinator, Spoken Tutorial coordinator : Dr. N. P. Futane
- Exam Coordinator: Prof. A. P. Gargade
- NPTEL/ETeSA, Exam, class teacher, Students feedback: Mrs. D. B. Maheshwari
- SPPU Exam coordinator: Prof G. R. Phulay
- Mini project, visiting faculty Incharge: Dr. Mrs. K. V. Thakur

Institute Activity Faculty Coordinators

- AQAC Incharge: Dr M. S Nagmode
- Student Welfare Technical: Dr. N. P. Futane
- EPABX Incharge, AQAC Co coordinator: Prof. Mrs Maheshwari
- Electrical Maintenance Incharge : Prof Phulay
- Girls Hostel Rector: Dr. Mrs. K.V. Thakur

Details of Testing and Consultancy:

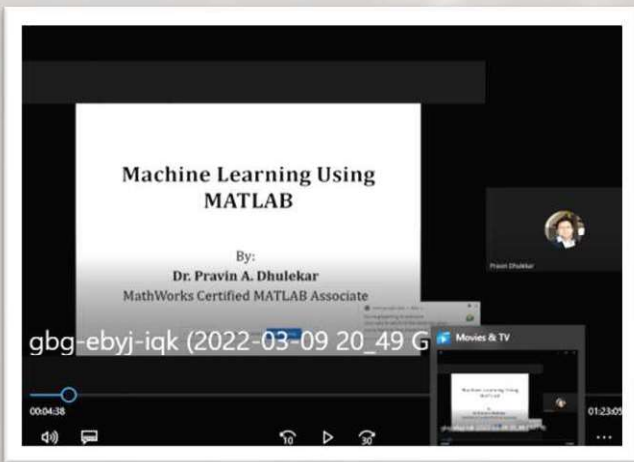
High mast and Street Light Testing: by Shri. G. R. Phulay Sir. Rs 10.000/-

Summary of Events in the Department:

- **DTE sponsored One week Faculty Development Program based** on “Artificial Intelligence and Machine Learning” from **08/03/2022 to 12/03/2022** Organized by Government college of Engg and Research Avasari, E&Tc Dept, Sponsored by Directorate of Technical Education, coordinators: Prof. Dr. M. S. Nagmode and Smt. K.V. Thakur.



Speakers: Dr. Aditya Abhyankar and Dr. Pravin Dhulekar



• **Patent Published by Faculty (A.Y. 2021-22).**

Sr. No.	Name of the faculty	Application No.	Date of Grant	Title and Description
1	Dr. M. S. Nagmode	201921051414 A	08/09/2021	Title of invention: System and method for abnormal event detection.

• **Research Activity/Domain and Faculty Expertise**

Dr. Manoj S. Nagmode : Video and Signal Processing

- FDP Expert talks : 02
- SPPU : 02
- PhD Guide : 04 students

Dr. N. P. Futane : VLSI and Signal Processing

- Expert talks : 01
- SPPU : 03
- ISTE : 01
- PhD Guide : 04 students , 02 pass out

Prof. G.R. Phulay : Advanced communication

- Expert Talk College level : 01
- FDP coordinator : 01

Dr. K.V. Thakur : Biomedical & Signal Processing

- Expert Talk College level : 02

Prof. Gargade : Digital Systems

- Expert Talk SPPU University : 01

Prof. D. B. Maheshwari age Processing

- Expert Talk SPPU University : 01

Interaction with outside world

- Most of the faculty members in E&TC department are invited as resource person in different educational institute such as PVG, GCOE Karad, etc.
- Dr. M.S. Nagmode, Dr. Futane, Prof. Phulay was invited for Academic Audit Committee of Government Engineering College, Karad.
- Dr. M. S. Nagmode: Paper Reviewer for International Conference (IEEE, IET).

- Organized expert lecture for students on 25/01/2022 (TE & BE students), on the topic “Current and Future Job Opportunities in Data Science and IT sector” by Hi-Tech Skills Ventures, Pune, Expert is from Transformation Lead, Accenture, Bangalore; Mr. Milind Kale Patil.
- Expert lecture conducted in departmental FDP based on action recognition, (AI and ML on 12/3/2022).

Social Activity. Expertise

- Dr. K. V. Thakur and Dr. N. P. Futane: In NSS one week camp, delivered session for students on ‘student social responsibility’.
- Participation in “Shiv Swarajya Din Sohla” on 6th June 2022. "Shiv Swarajya Din" was celebrated with great enthusiasm.



- Faculty members present for this event worshiped the image of Chhatrapati Shivaji Maharaj. The Department of Higher and Technical Education of the State Government organized Shivrajya Day at Satara, on the occasion of this day. The program was telecasted live to the officers, staff and students in the seminar hall of the Automobile department. The link of the program was conveyed to the students through various mediums.

• STTP/FDPs Attended by Faculty :

Sr. No.	Faculty name	Type of FDP /STTP	Title of FDP /STTP	Organizing Institute	Duration with dates
1	Phulay G.R.	STTP	Faculty Orientation workshop BE (E&TC) Radiation and Microwave Theory	Amrutvahini College of Engineering Sangamner	14/7/2022 to 16/7/2022
2	Mrs. D. B. Maheshwari	FDP	Power Devices and circuits	MMCOE	27/1/2022 to 29/1/2022
3	Dr. N.P. Futane	FOP	Microcontrollers	SPPU	22/7/21 to 24/7/21
3	Dr. M. S. Nagmode	FDP:	“MathWorks workshop on Modelling, Simulation, and Deep Learning” using MATLAB and Simulink	Presented via Webex. VIT Pune	July 19-20, 2021

• **R and D Activities :**

Sr. No.	Name of faculty	Details
1.	Dr. M. S. Nagmode	Guiding 04 PhD candidates and 04 PhD candidates are passed out.

• **List of Non-Teaching staff:**

Name	Qualification	Designation
Smt. A. V. Danure	D.E.E.	Technical Lab Asst.
Smt. K. G. Kamble	D.E.E.	Technical Lab Asst.
Shri. M. V. Hande	B.Sc.	Technical Lab Asst.
Smt. S. B. Morde	B.E. IT	Technical Lab Asst.
Smt. Raghuwanshi	D.E.E.	Attendant

• **NPTEL Course attended by Faculty and students**

- Smt. D. B. Maheshwari completed the NPTEL course,
Title of Course: Module 5: Technology enabled learning and lifelong self-learning,
Course platform: SWAYAM

• **Part C: Student Activities and Achievements:**



1. Technoxian world robotics championship :

Under this initiative, various programs have been organised at the international level by the Technoxian world robotics championship. Project competition was organized at New Delhi. Sahil Dhage, Siddhi Dudhale, Prachi Devram from Electronics and Telecommunication department participated in this competition and secured 4th rank .



2. Electronics and Telecommunication Engineering Department Robot made by students of GCOEARA for the treatment of Corona Patients. Under this initiative, various programs have been organized at the state level by the Directorate of Technical Education, Maharashtra. Regional Level Project Competition was organized under the initiative of 'Swatantryacha Amrut Mahotsav online on 18th January, 2022 at Vishwakarma Institute of Technology, Pune for the students of Engineering College. Sanket Mendke, Shraddha Londhe, Pooja Shinde and Nikhil Solanki from Electronics and Telecommunication Engineering Department participated in this competition and secured third prize. They designed, fabricated, and programmed a "Multi-functional Bluetooth-powered Servant Robot". Dr. N. P Futane guided the students.

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.

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
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Application Software's

- Virtual instrumentation interface
- LabVIEW Make NI software
- Automation Studio 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	Prof. K. H. Kowdiki	Asso. Professor (CAS)	BE, ME, PhD
4	Prof. S. R. Patil	Asso. Professor (CAS)	BE, ME, PhD(Pursuing)
5	Prof.M.M.Akole	Asst.Professor	BE, MTech., Ph.D.(Pursuing)
5	Prof. N. M. Karajanagi	Asst. Professor	BE, ME
6	Prof (Smt) N. P. Wagh	Asst. Professor (On Deputation for PhD)	BE, ME, PhD(Pursuing)
7	Prof. (Smt) D. B. Trimukhe	Asst. Professor	BE, M. Tech
8	Prof. (Smt) A. V. Kulkarni	Asst. Professor	BE, ME

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 A. S. Rathod	Technical Lab Assistant	B.E.Computer
3	Smt.Swati Borbande	Technical Lab Assistant	Diploma in Instrumentation, BA
4	Smt.P.J. More	Technical Lab Assistant	Diploma in Computer

List of Laboratory Attendant:

1. Shri. Akash Sarke

Workshop/FDP/STTP/Seminar/expert talk etc, organized in the department:

- 1) A talk on “INNOVATIONS” by Ms. Shrishti Singh, President- Microsoft Mobile Innovation Lab, Noida organised by Innovation Club members held on January 6, 2022.
- 2) Three days practice workshop on “Arduino Software” by Mr. Omkar Bhagat from EMJ community held on January 2022.
- 3) “Alumni Career Guidance” session conducted by Instrumentation Department Alumni on 22/04/2022.

Faculty Achievements:

Research Work:

- Dr. K. H. Kowdiki completed his research at Jadavpur University, Kolkata and was awarded PhD on March 7, 2022.
- Prof. S. R. Patil has been selected for completion of PhD work at College of Engineering Pune.
- Prof. Smt. N. P. Wagh is pursuing her PhD at College of Engineering Pune and under QIP scheme.

Publications:

- N.M. Karajanagi “Categorization of Cardiac Arrhythmia from ECG Waveform by using Super Vector Regression Method.”, in the *Springer International Conference on Expert Clouds and Applications*, 3-4, February 2022.
- N.M. Karajanagi “Classification of ECG signal for Cardiac Arrhythmia detection Using GAN Method.”, in the *Springer International Conference on Intelligent Communication Technologies & Virtual Mobile Networks*, 10-11, February 2022.
- Ashwini V. Kulkarni “Impact of Industry Institute Interaction in Engineering Education to Enhance Employability- A Case Study”, in the *International Conference on Transformation in Engineering Education-2022*, 7-9, January 2022.

Patent:

- **Dipmala B. Trimukhe** 2022, A Hydraulic Jack Assembly with the Safety Means and Sensing Mechanism Indian Patent 202241008511A filed on February 17, 2022 and published on March 4, 2022

1. STTP/FDPs Attended by Faculty:

Sr. No	Faculty name	Type of FDP /STTP	Title of FDP /STTP	Organizing Institute	Duration with dates
1	Prof. Shri. N.M.Karajangi	One week FDP	Building an Ecosystem of Innovation and Start-up	GCOE, Nagpur	01/02/2022-05/02/2022
2	Prof. Smt.D.B.Trimukhe	Eight Weeks	Module 3: Communication Skills and Knowledge Dissemination	NITTTT	01/07/2021-30/08/2021
3	Prof. Smt.D.B.Trimukhe	One week FDP	AI and Machine Learning for Biomedical Application	NIT, Warangal	18/10/2021-27/10/2021
4	Prof. Smt.D.B.Trimukhe	One week FDP	Assessment Technique in Teaching	D.K.T.E.Society's Textile & Engineering Institute, Ichalkaranji	16/02/2022 - 22/02/2022
5	Prof. Smt.A.V.Kulkarni	Eight Weeks	Module 1: Orientation towards Technical Education & Curriculum Aspects. Module 2: Professional Ethics & Sustainability.	NITTTT	01/10/2021-30/11/2021
6	Prof. Smt.A.V.Kulkarni	Eight Weeks	Module 3: Communication Skills. Module 4: Instructional Planning and Delivery	NITTTT	01/04/2022-30/05/2022

2. Workshop/conference/seminar/webinar attended by Faculty:

Sr. No.	Name of Faculty	Details	Title
1.	Prof. Smt.D.B.Trimukhe	National Commission of Women sponsored one day workshop at GCOE, Avasari	Identification of Abusive Relationship & Prevention of Domestic Violence
2.	Prof. Smt.A.V.Kulkarni	National Commission of Women sponsored one day workshop at GCOE, Avasari	Identification of Abusive Relationship & Prevention of Domestic Violence
3.	Prof. Smt.D.B.Trimukhe	Maharashtra Association of Training & Placement Officers (MaTPO) two days program at Talegaon, Pune.	Training & Placement Officers Development Program
4.	Prof. Smt.D.B.Trimukhe	One-week online event at JECRC Spiritual Research Cell, Rajasthan	ENLIGNHTENMENT 6.0

Students Activities and Achievements:

List of Class Representatives:

Class	SE	TE	BE
CR1	Lokesh Chinchore	Janvi Deshpande	Manoj Desale

Annual Result by SPPU:

SE	TE	BE
100	100	94

Final Year Result

Total Students Appeared	Distinction	First Class	Higher Second Class
64	48	12	Nil

List of Class Toppers with CGPA:

Sr. No.	SE		TE		BE	
	Name of Student	CGPA	Name of Student	CGPA	Name of Student	CGPA
1	Anuja Sanjay Thore	8.66	Madhura Pratap Hande-Deshmukh	9.71	Bhoir Namrata	9.47
2	Rahul Anil Shinde	8.52	Shraddhha Dilipsinh Ghadge	9.43	Madhavi Aishwarya	9.31
3	Sangram Sunil Damane	8.11	Saurabh Devbharti Bharti	9.38	Patil Snehal	9.26
4	Abhijeet Hanamant Salunkhe	8.09	Yash Sharad Mandhare	9.38	Mokal Mansi	9.19
5	Janhavi Kiran Deshpande	8.00	Yogesh Navnath Kapre	9.38	Belkunde Subhangi	9.13

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.

• Software offered:

Scilab & Python open-source software.

• **List of Spoken Tutorial Activity Toppers with percentage:**

Sr. No.	SE		TE		BE	
	Name of Student	Marks	Name of Student	Marks	Name of Student	Marks
1	Alamprabhu More	82.2%	Yogesh Kapare and Yash Mandhare	80.0%	Mahesh Morde	95.0%
2	Devavrat Bendale	76.7%	Saurabh Bharati	75%	Sudarshan Bhise	90.0%
3	Yash Mhaprolkar and Maitree Meshram	71.1%	Tejas Kadam	66.4%	Aniket Ambike and Haribhau Shere	85.0%

Internship

Sr. No.	Year (I, II, III, IV)	Name of Student	Name of Company Where Internship Completed	Duration in Months
1	III	Thube Anagha Shankar	V Ramp Automation, PVT. LTD Talawade, Pune	15 Days
2	III	Babar gul	Gulberg cold chain IGC lassipora PVT.LTD (J&k)	21days
3	III	Sourav Sanjay Patil	Kumbhi-Kasari Sahakari Sakhar Karkhana Kolhapur	15 Days
4	III	Prajakta Ramteke	BETA Computronics PVT. LTD	1 month
5	III	Suyog Suryakant Mohite	Dr.Patangrao Kadam Sonhira Sahakari Sakhar Karkhanna Ltd.	15 days
6	III	Samruddhi Shailendra Kotwal	BETA Computronics PVT.LTD.	1 month
7	III	Kandale Rushikesh Shivaji	Kumbhi-Kasari Sahakari Sakhar Karkhana Kolhapur	15 Days
8	III	Ashutosh Krishna Shelar	CADDESK INDIA PVT LTD	20 days
9	III	Akash Shivaji Kurhe	CADDESK INDIA PVT LTD	20 days
10	III	Parvin Dastgir Mulla	Tatyasaheb Kore Uraja Kurwarananagar	15days
11	III	Snehal Narhari Kothalkar	Bhagirath Granulated Fertilizer factory	15 Days
12	III	Rutuja Vijay Kokate	Elite Techno group	30 Days
13	III	Vedant Rajan Tare	TECHNOCAL CALIBRATION	15 days
14	III	Nihal Janardan Thakur	TECHNOCAL CALIBRATION	15 days
15	III	Sourav Sandesh Patekar	Unique Instruments and Control	15 days
16	III	Hitesh Bhausahab Jadhav	Let's Grow More (web development)	30 days
17	III	Rushikesh Kamalakar Mokal	JSW steel Ltd. Dolvi	30 days
18	III	Shubhangi Dattu Shirole	PG ELECTROPLAST PVT LTD	30 days
19	III	Vidya Dadarao Kashid	Addvicpvt.Ltd	30days
20	III	Sanket Dilip Jadhav	Dr.Patangrao Kadam Sonhira Sahakari Sakhari Karkhanna Ltd.	15 days
21	III	Ketan P. Khandagale	Addvicpvt.Ltd	30days
22	III	Lende Adesh Lahuraj	Eventide Solar Energy PVT LTD	15 days
23	III	Danavale Bhausahab Parshuram	Eventide Solar Energy PVT LTD	15 days
24	III	Aniket Mansing Jadhav	Rajarambapu Patil Sahakari Sakhar Karkhana Ltd.	15 days

25	III	Lalge Pratiksha Dilip	Addvic Technology	30 days
26	III	Barle Pandhari Hanmant	Addvic Technology	30 days
27	III	Warale Vaishnavi Bapusahab	Addvicpvt.Ltd	30days
28	III	Pratiksha Ramdas Jadhav	Shri Palsiddha Sugar And Agro Processing Industries	28 days
29	III	Tejas Ashok Karle	CG Power and Industrial Solutions Limited	30 days
30	III	Nirdesha Jitendra Mali	JSW Steel Ltd Dolvi	30 days
31	III	Aniket Vijay Shinde	Yash industries.	15 days
32	III	Vaibhavi Milind Shinde	Tata motors car plant chikli	2 months
33	III	Omkar Vilas Ambike	Yash industries.	30 days
34	III	Urmila Anand Adane	Kachkure enterprises pvt.ltd	15 days
35	III	Shraddha Dilipsinh Ghadge	Zelos Infotech private limited Manchar Pune.	1 month
36	III	Tejas Anil Kadam	V-Ramp Automation PVT.LTD Talawadepune	15 days
37	III	Swapnali Balkrishna Bhopate	Koyna Sahkari Dodh Utpadak Prakriya Sangh Ltd., Karad	21 days
38	III	Shirole Dipti Dipak	Addvic Technology Pvt. Ltd.	30 Days
39	III	Dnyaneshwari B. Zinjan	Gudel Pvt. Ltd, Pune	1 month
40	III	Gayatri v. Kulkarni	Gudel Pvt. Ltd, Pune	1 month
41	III	Viraj s. Jadhav	Gudel Pvt. ltd, Pune	1 month
42	III	Kedar Balaji Mane	Addvic Technology Pvt. Ltd	30 days
43	III	Nitin Babasaheb Walunjkar	Addvic Technology Pvt. Ltd	30 days
44	III	Sakshi Arjun Tapkir	Kuksons electronics PVT. LTD.	15 days
45	III	Somnath Shivaji Gat	Eventide solar Energy Pvt Ltd	15 Days
46	III	Ahire Kunal Hiranman	Addvic Technology Pvt. Ltd	30 days
47	III	Shinde Praful Prakash	King bird pvt.LTD Pune	21 days
48	III	Gawade Shivani Dattatray	Zelos Infotech private limited Manchar Pune.	1 month
49	III	Bhakti Shivanand Lohakare	MK Enterprises and Services Pvt. Ltd.	15 Days
50	III	Snehal Sopanrao Bedre	MK Enterprises and Services Pvt. Ltd.	15 Days
51	III	Vedanti Yogesh Doke	MK Enterprise and Services Pvt. Ltd.	15 Days
52	III	Tejal Anil Dhande	MK Enterprises and Services Pvt. Ltd.	15 Days
53	III	Nitin Nagorao Chavan	MK Enterprises and Services Pvt. Ltd.	15 Days
54	III	Nilesh Machhindra Shinde	MK Enterprises and Services Pvt. Ltd.	15 Days
55	III	Aditya Sudhir Lolge	MK Enterprises and Services Pvt. Ltd.	15 Days
56	III	Pramod Shelke	MK Enterprises and Services Pvt. Ltd.	15 Days
57	III	Dangat Adinath Shrikrushna	MICRO ELECTRONICS CORP.	21 Days
58	III	Yogesh Navnath Kapare	V-Ramp Automation PVT.LTD Talawade Pune	15 Days
59	III	Yashshree R. Phad	Advice Technology Pvt. Ltd.	30 days
60	III	Yash Sharad Mandhare	V-Ramp Automation Pvt. Ltd Talawade Pune	15 Days
61	III	Inamdar Heena Nijam	Addvic Technology pvt. Ltd	30 Days
62	III	Dhage Sagar Nivrutti	Starlight lighting PVT.LTD Wadiwarhe Nashik.	30days
63	III	Ghorpade Pranjali Sunil	Addvic Technology pvt. Ltd	30days
64	III	Manoj Ramdas Desale	King bird pvt.LTD Pune	21 Days

65	III	Sagar Dipak Narode	King bird pvt.LTD Pune	21 Days
66	III	Gaykar Harshal Mahadu	Addvic Technology Pvt.Ltd.	30 Days
67	III	Saurabh Devbharati Bharati	Shri Pulsiddha Sugar and agro Processing industries	30 Days
68	III	Ajit Nabaji Pawar	Parag Agro Foods and Allied Products Pvt Ltd	15 days
69	III	Roshani Ravindra Gawai	Modi Innovations Pvt.ltd	15 days
70	III	Khale Bhushan Sunil	Autonetics Automation Pvt Ltd	15 Days
71	III	Kashyap Anil Pathak	MICRO ELECTRONICS CORP.	21 Days
72	III	Shubham Ankush Walunj	MICRO ELECTRONICS CORP.	21 Days
73	III	Anil Ganesh Gidhe	MICRO ELECTRONICS CORP.	21 Days
74	IV	Rohan Murlidhar Gore	Matrics Technologies Pvt Ltd	6 Months
75	III	Khakal Sarang Sunil	Addvic Technology Pvt. Ltd.	30 Days
76	III	Khopade Sameer Shivaji	Rajgad Sahakari Sakhar Karkhana Ltd	15
77	IV	Shrutika Dhananjay Patil	JSW Steel Dolvi, Vadkhal, Alibag	30 days
78	III	Chirke Pooja Ravsaheb	Addvic Technology pvt. Ltd.	30 Days
79	III	Yash Umesh Gupta	Byju's - WhiteHatJr (Remote)	3 Months
80	III	Madhura Pratap Hande Deshmukh	MNC Automation and Services, Pune	45 days
81	III	Adesh Dattatray Jare	Accenture pvt td	21 days
82	III	More Ganesh Somnath	ADDVIC TECHNOLOGY PVT LTD, PUNE	30 days
84	IV	Srushti Santosh Patil	JSW Steel Dolvi, Vadkhal, Alibag	30 days
85	III	Rakhe Madhur Umesh	Team Aayudh 2.0 for TIFAN 2022	6 Months
86	IV	Saurabh Sunil Jamdar	Matrics Technologies Pvt Ltd	6 Months
87	III	Chinmay Bhimrao Lokhande	Sadguru Sri Sakhar Karkhana Ltd	21 days

Placement:

Sr. No.	Name of the Student	Placed in
1	Ajinkya Bhopale	Capgemini
2	Harshali Nagare	Capgemini
3	Hemangi Patil	Capgemini
4	Onkar Appasaheb Dalvi	Capgemini
5	Pankaj Hanumant Kakade	Capgemini
6	Rahul Rambhau Pingale	Capgemini
7	Rushikesh Rajendra Lalge	Capgemini
8	Shrikant Nitin Angre	Capgemini
9	Trunal Shashikant Ingale	Capgemini
10	Sudarshan Bhise	Hexaware Tech

11	Namrata Bhoir	TCS
12	Pankaj Hanumant Kakade	Wipro
13	Pranita Shivshankar Swami	Infosys
14	Anagha Balasaheb Patil	Infosys
15	Kanchan Madhukar Jumde	Infosys
16	Shaikh Muskan Raju	Infosys
17	Harshal Kishor Chandekar	Vodafone
18	Gavhane Dipali Subhash	Johnson Controls India Pvt. Ltd

Students' Participation in Extracurricular Activities:

Technical Event:

Sr.No.	Name of the student	Event Description	Place	Prize/ Participation details
1	Janhavi Kiran Deshpande	National Science Day Poster making Competition	(Online mode) by TSVK Aurangabad	2nd rank
2	Janhavi Kiran Deshpande	Regional Level Project Competition	VIT, Pune	Participation
3	Viraj Dilip Potphode	National Science Day Poster Making Competition	(Online Mode) By TSVK Aurangabad	3rd Rank
4	Priyanka Krushnat Pol	Ignited Innovation of India 2022 Competition	College of Engineering Pune	1st Prize & Certificate
5	Yash Ravindra Mhaprolkar	National Science Day Poster Making Competition	(Online Mode) By TSVK Aurangabad	Participation
6	Vaishnavi Manikrao Phisphise	Ignited Innovation of India 2022 Competition	College of Engineering Pune	1st Prize & Certificate
7	Yash Ravindra Mhaprolkar	Ignited Innovation of India 2022 Competition	College of Engineering Pune	Top 50 participant
8	Sanket Jadhav, Sourav Patil, Sourav Patekar, Rushikesh Kandale	National Level Project competition organised by IEEE IMS VIT Pune	VIT Pune	Participation (2 Rounds)

9	Yash Ravindra Mhaprolkar	IDEA COMPETITION 2022	ICT NICE Innovation Incubation office Institute of Chemical Technology	selected for Finale round
10	Siddhi Prashant Jagdale	Ignited Innovation of India 2022 Competition	College Of Engineering Pune	participation Certificate

National level participation details:

Bandale Devavrat Nitin from TE Instrumentation Secured AIR 3 in the National event_Electric Two-Wheeler Design Competition arranged in October 2022 by SAE India, Southern Section, Chennai; Participated through college technical club with the team of 10 students: **Team Phalanx Racing, E-bike Division.**

Industry Sponsored Project AY 2021-22

Name of students	Title	Sponsorship Organization
SAWANT PRADNYA SANJAY	Milk pasteurizer system using PLC	Abhishek Enterprises, Bhosari
THORAT ARTI ANIL		
DUDHALMAL DEVYANI DILIP		
MOKAL SNEHA PRABHAKAR		
KHANDAGALE BHAGYASHREE	Ultrasonic welding SPM	Metrolab
UPASANI VAISHNAVEE Y.		
HINGAMIRE ANUP PRAKASH		
SORATE SAAKSHI BIBHISHAN		
AWALE RAHUL RAMESH	Smart water distribution system using PLC & HMI	Vision Automation
BHAVE SAURABH SUNIL		
YADAV PRATIK SUNIL		
DESHPANDE SANKET M		
AMALE ANURADHA SANJAY	PLC based insulation resistance & missing terminal testing fixture.	Terminal tech pvt ltd
SUMANT ADITI UMESH		
KARAMBE HEMANGI B.		
MESTRI SAYALI SURESH		
TAMBOLI RAJESHRI	Furnace safeguard supervisory system	Thermal Power Plant, Nashik
VARUDE RAHUL		
PAWAR RAUNAK R.		
SONWANE ANIKET S.		

JADHAV DOJAKUMARI K.	Automatic filter cleaning system	Green Energy Asia
THORAT POOJA D.		
THORAT ATHARVA A.		
GADAGE PRASHANT B.	Process Instrumentation using Labview cRio & embedded controller	NCL
AIREKAR SHREYAS ANIL		
MAHAJAN ROHIT B.		
BADGUJAR ROHAN RAJU	Industry 4.0 approach for process instrumentation using ARM & Labview	NCL
PINGALE OMKAR DILEEP		
CHIKHALE SHUBHAM S.		
RASAL ADITYA R.		
KANADE SHIVANI R.	Smart monitoring & controlling of home by using PLC & SCADA	President Automation
SHAIKH RESHMA S.		
DIVEKAR MALHAR S.		
MHATRE SHUBHAM Y.		
DIKSHA PAWAR	PLC Based Component Testing	Terminal Technology, Chakan
NAMRATA BHOIR		
AISHWARYA MADHAVI		
PRANITA SWAMI		
SHUBHANGI BELKUNDE	Digital IR Tester	Terminal Technology, Chakan
HEMANGI PATIL		
ROHIT MHATRE		
MANASI MOKAL		
SHRUTIKA PATIL	PLC, SCADA based Temperature and Level Control	Matrix Technologies, Akurdi
SRUSHTI PATIL		
ROHAN GORE		
SAURABH JAMDAR		

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 01 Professor, 6 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 1 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 Major Equipments :

<ul style="list-style-type: none">• Ice plant trainer kit• Design and fabrication of vapour Absorption Refrigeration test rig• Catia V5 R21latest version- 20 user• Automation Studio software- version 5.7 – 5 user• Nx Nastron academic perpetual License- 10 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• Study of Linear Conveyor control systems	<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• Static and dynamic balancing of machine• Balancing of reciprocating masses• Vibration meter 2050
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List of Faculties :

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

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.)	Dip. in Prod. Engg.
3	Shri. P. R. Korde	Instructor (T.L.A.)	Diploma in Mech. Engg.
4	Smt. A. S. Jaware	Instructor (T.L.A.)	Diploma in Metallurgy Engg.
5	Smt. K.P. Bhagwat	Instructor (T.L.A.)	Diploma in Computer Technology

List of Laboratory Attendant :

1. **Shri. P. R. Sonawane** - Lab Attendant, B. A. , Diploma in Civil Engg.

Faculty Achievements :

1. Paper Publication by Faculties:
2. SWAYAM /NPTEL Course attended by Faculty:
3. STTP/FDPs Attended by Faculty:

Sr. No.	Faculty name	Type of FDP /STTP	Title of FDP /STTP	Organizing Institute	Duration with dates
1	Arackal Jos Mathew	2 WEEK- ONLINE	Creative Problem Solving, Innovation and Meaningful R&D	NITTT	FEBRUARY 2022
2	Mr. Niranjan D. Padawale	One Week	Engineering Optimization Techniques and its Application	AICTE ATAL Program at Govt. College of Engineering Aurangabad	14th June 2021- 18th June 2021
3	Mr. Niranjan D. Padawale	One Week	Introduction to IOT	IIT Kanpur	21 Feb. 2022 to 26 Feb. 2022
4	Mr. Niranjan D. Padawale	One Week (Online 8 Week)	Module 5: Technology Enabled Learning and Life-Long Self Learning	NITTT	SEPTEMBER- 2021
5	Mr. Niranjan D. Padawale	One Week (Online 8 Week)	Module 6: Student Assessment and Evaluation	NITTT	SEPTEMBER- 2021
6	Mr. Niranjan D. Padawale	One Week (Online 8 Week)	Module 7: Creative Problem Solving, Innovation and meaningful R & D	NITTT	SEPTEMBER- 2021
7	Mr. Niranjan D. Padawale	One Week (Online 8 Week)	Module 8: Institutional Management and Administrative Procedures	NITTT	SEPTEMBER- 2021

- Mr. B. A. Patil has submitted PhD Thesis to IIT Delhi in June 2022.

Students Activities :

- List of Class Representatives :

Class	SE	TE	BE
CR 1	Varpe Chetan Sandip	Zagade Shivam Suresh	Paradeshi Devrath Milind
CR 2	Gunjal Sampada Chhabu	Wadekar Aniruddha H.	Ghawate Manoj Anil
CR 3	Yeole Dhanashree Rajendra	Dumbare Sanket sharad	Kulkarni Rohini Dnyanendra

• **Annual Result by SPPU :**

Class	SE	TE	BE
All Clear (%)	98.72	100	100
ATKT (%)	1.28	0	0

• **List of Class Toppers with CGP :**

Sr. No.	SE	TE	BE
1	Varpe Chetan Sandip (9.05)	Zagade Shivam Suresh (10.0)	Paradeshi Devrath Milind (9.47)
2	Gunjal Sampada Chhabu (9.02)	Wadekar Aniruddha H. (9.98)	Ghawate Manoj Anil (8.62)
3	Yeole Dhanashree Rajendra (8.95)	Dumbare Sanket Sharad (9.96) Ghadage Omkar Sambhaji (9.96)	Kulkarni Rohini Dnyanendra (8.26)

• **Student Activities and Achievements and students participation for:**

S.N.	Date	Name Of Candidate	Achievements	Class
1	24/01/2022	Ms. Nayan Vishwas Patil	2nd Rank at International Essay writing competition "Global Citizenship Essay Contest 2022" organized by IPREP TODAY	TE (MECH)

• **Placement Statistics of Student 2021 :**

Programs Name and Assessment Year-Mechanical Engineering 2021-22				
Sr. No	Name of the student placed	Enrollme nt no.	Name of the Employer	Appointment letter reference no. with date
1	Rushikesh Prakash Kumbhar	18141054	TCS, Pune	TC SL/DT20218112043/Pune Date: 02/11/2021

2	Suraj Bajirao Devkar	18141019	TCS, Pune	TCSL/DT20207443998/Pune Date: 02/11/2021
3	Prajakta Pawar	18141019	Capgemini, Pune	Superset ID: 2278149
4	Komal Ranmale	19241084	Capgemini, Pune	Superset ID: 1789383
5	Atharv Raut	18141048	Rudder Analytics	RA/3998/Pune Date: 02/1/2022
4	Ajit Bichukale	18141052	TATA Motors	TATA/DT20207443998/Pune Date: 02/2/2022
5	Anant Shelar	18141079	TATA Motors	TATA/DT20207443999/Pune Date: 02/2/2022
6	Atharva Raut	18141048	TATA Motors	TATA/DT20207444000/Pune Date: 02/2/2022
7	Digvijay Bhise	18141059	TATA Motors	TATA/DT20207444001/Pune Date: 02/2/2022
8	Ganesh Kolte	18141017	TATA Motors	TATA/DT20207444002/Pune Date: 02/2/2022
9	Harshwardhan Lokhande	18141026	TATA Motors	TATA/DT20207443998/Pune Date: 02/2/2022
10	Komal Ranmale	19241084	TATA Motors	TATA/DT20207444002/Pune Date: 02/2/2022
11	Parmeshwar Harale	19241081	TATA Motors	TATA/DT20207444003/Pune Date: 02/2/2022
12	Prajakta Pawar	18141019	TATA Motors	TATA/DT20207444004/Pune Date: 02/2/2022

13	Rutvik Gulve	18141010	TATA Motors	TATA/DT20207444005/Pune Date: 02/2/2022
14	Sai Shinde	18141018	TATA Motors	TATA/DT20207444006/Pune Date: 02/2/2022
15	Saurabh Gaikwad	18141060	TATA Motors	TATA/DT20207444007/Pune Date: 02/2/2022
16	Sumaiya Attar	18141004	TATA Motors	TATA/DT20207444008/Pune Date: 02/2/2022
17	Vishvajeet Rajmalle	18141046	TATA Motors	TATA/DT20207444009/Pune Date: 02/2/2022
18	Vitthal Phad	18141055	TATA Motors	TATA/DT20207444010/Pune Date: 02/2/2022



All Department HODs with the Principal



The Staff of GCOEARA



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