



Pimpri Chinchwad Education Trust's

**Pimpri Chinchwad**  
**College of Engineering &**  
**Research**



***Department of Mechanical Engineering***

***E-MAGAZINE***

**Academic Year: 2023-2024**

**Sem-2**

*DIVE INTO THE TREASURE OF ART AND ACADEMICS.*

## **ABOUT TRUST**

Pimpri Chinchwad Education Trust (PCET) was established in 1990 by visionary Late. Shri. Shankarrao B. Patil, Late. Smt. Lilatai Shankarrao Patil, Shri. Dnyaneswar P. Landage, Shri. Vitthal S. Kalbhor, Shri. Shantaram D. Garade, Late. Shri. Bhaijan Kazi with an idea of providing quality education from K.G. to P.G. Its sole mission was aimed at serving society, the industry and all stakeholders through value-inculcating, quality education in the area of schooling, as well as professional tutelage in the fields of engineering, management and computer applications.

PCET has always been committed to its mission by creating, communicating, preserving and applying knowledge, art and academic values.

At the campus at Akurdi, Pune, near 7,200 students are being groomed in specialised courses like Engineering, MBA, MCA & PGDM by professional and passionate instructors. The campuses at Ravet are school to 1,200 would-be graduates at the College of Engineering, around 800 pupils at the Junior College, and approximately 2,500 students at the Public School, all amounting to a total of 11,700-odd students

## Our Inspiration



Late shri. Shankarrao B Patil  
Founder President  
Pimpri Chincwad Education Trust



Late Smt Lilatai Shankarrao Patil  
Ex President  
Pimpri Chincwad Education Trust

## Board of Trustees



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## Principal's Desk



At the very outset, I extend a very warm welcome to all of you! It is indeed an honor and pleasure as the principal, to introduce you to Pimpri Chinchwad Education Trust's (PCET's) Pimpri Chinchwad College of Engineering & Research (PCCOER). Established in the year 2014, PCCOER has made an incredible progress in academics, research and placements in a very short period of time and has made its presence felt vividly in the educational circles of not only the University but of the entire State. I attribute this remarkable success to the tremendous efforts of faculty and students of the Institute and to the strong and continuous guidance, motivation and support from PCET.

Young friends, India today stands as the world's third largest economic power, its economy growing at around 8%. Indian entrepreneurs are emerging as global entrepreneurs. Indians are increasingly appearing in the list of the richest persons in the world. India's knowledge, skills and man-power are making India a preferred destination for outsourcing service needs. India is fast emerging as a hub for world class R&D and Innovation Centers. These are the signs of a brighter

tomorrow for India and its citizens. You must, therefore, be highly excited to make your own contributions to the growth and development of your dream India.

As Engineering Institute, we are committed to contribute in the overall growth of the Nation by providing Outcome Based Education (OBE) to our students. We, at PCCOER, endeavor for an overall development in you, while academic excellence remains to be our strong fort. The spectrum of social, cultural, co-curricular and extra-curricular events at PCCOER is as intellectually stimulating, as is overwhelming! We do not turn you into book-worms or scholarly puppets but into competent professionals and genuine humans. At PCCOER, we have a tradition of nurturing leadership qualities, along with, developing abilities to comprehend the state of art technologies. This we do by inspiring you to partake a whole lot of innovative projects, being pursued by the inspired student's community, under the guidance of their faculty mentors. We let you empower yourself with the Wings of Knowledge and Power of Innovation. We imbibe in you a positive attitude and proactive thinking, a caring concern for humanity and nature and above all, an eagerness to serve and excel in your chosen domain. You come here with a passion; we convert that passion into your profession. Life in PCCOER and I am sure that you will enhance the pride and prestige of this illustrious Institution by giving your best and achieving your best! And my dear faculty and students members, we together have to play our role in Nation building by contributing wholeheartedly towards academics, research and innovation, a gigantic task which, I am observing, you are succeeding in competently, skillfully and effortlessly.

**Prof. Dr. Harish U. Tiwari,  
ME (IITR), PhD. (Mech),  
Principal,  
PCCOE&R, Ravet, Pune.**

## HOD's Desk



A hearty welcome to the Department of Mechanical Engineering at Pimpri Chinchwad College of Engineering and Research (PCCOE&R), Ravet, Pune. The department's vision is to be a premier department of Mechanical Engineering and research to serve the need of the society and all the stakeholders. The Department is student centric and focused for overall development of students in the context of new emerging trends in the market and making the students competitive and strongly equipped with the various technical and professional skills. Different programs like Industrial Training program, Aptitude Training Program, SAE BAJA, SUPRA, TIFAN and Go-Cart activities are planned to equip the students to enhance their technical and professional competence and make them more industry oriented and employable.

The placements in the department are one of the best in the PCMC area. The Industry sponsored laboratories, Internships, experts sessions, Industry sponsored projects, communication skills and soft skills sessions, foreign languages, add on and value added courses are designed and executed so that students are not only

market ready but also well trained for higher studies, entrepreneurship and startups. The department provides much needed support to the students' projects having potential for innovation and startups as well as innovations and startups having innovative ideas. We have been able to create quite a good number of startups and entrepreneurs and have been able to build a very good ecosystem.

The department is a leader in the area of IPR viz. Patents and copyrights. More than 100 patents and 75 copyrights have been led in the department out of which two patents have also been granted in the department. The department has modern and well-equipped laboratories for practical training to its students. All the faculty members are well qualified and experienced. We are committed to the pursuit of excellence. It is our goal to address the varying needs of our young students academically, socially, emotionally and by doing so, provide the highest quality educational experience to all and therefore PCCOE&R is one of the best Mechanical engineering colleges. Department has strong association with different professional bodies like ISTE (The Indian Society for Technical

Education, QCFI (Quality Circle Forum of India) ASME (The American Society Of Mechanical Engineers.), VLSI, SAE (Society of Automotive Engineers) and the department also has its own student council named as Mechanical Engineering Student Association (MESA). MESA provides a platform to the departmental students to showcase their technical, social and sports skills in inter-departmental as well as inter-college competitions.

On the closing note, it could be cited that - "Destiny is not a matter of chance, it is a matter of choice; it is not a thing to be waited for, it is a thing to be achieved".

**Prof. Dr. Gulab D. Shiraskar,  
Associate Professor & Head,  
Department of Mechanical Engineering,  
PCCOER, Ravet, Pune.**

## **About the Department**

Mechanical engineering is one of the broadest engineering disciplines. Mechanical engineers design, develop, build and test. They deal with anything that moves, from components to machines to the human body. Mechanical engineering combines creativity, knowledge and analytical tools to complete the difficult tasks of shaping an idea into reality. Mechanical engineers can look for employment in diverse areas, including manufacturing, aerospace, automotive, biomedical, chemical, computer, communications, nanotechnology, power-generation industries, engineering consultancies, energy utilities. government agencies etc.

A Mechanical Engineer can also pursue his/her carrier in the public sector through competitive exams like UPSC, MPSC, IES. They can have placements in various public sector undertakings like Navratna and Maharatna by scoring excellently in GATE. They are having good placement opportunities in National and Multi-National companies by perusing ME/M.Tech/MS in India and abroad. They can also become job providers themselves by turning into entrepreneurs and starting own startups.

The Mechanical Engineering Department at PCCOER has been established in the year 2014 and since then, has progressed steadily towards excellence. The Department works on Outcome Based Philosophy (OBE), wherein the complete focus of the department is to prepare the students in such a way that he/she is oriented towards acquiring knowledge, skills, hands on training and ICT techniques by using various teaching pedagogies, which will lead them toward better placements, higher education and entrepreneurships. The audits of all these initiatives are conducted on regular basis and its execution is checked to ensure that students are getting really benefitted through the process.

The department runs a UG programme in Mechanical Engineering, which is a 4 years, 8 semester's full time programme. Department has adequate number of faculty members and supporting staff, who are well qualified, experienced and dedicated. The department has well equipped 16 no. of state-of-the-art laboratories, spacious classrooms, drawing hall, project and innovation center. The

department provides the students with a strong fundamental, scientific and technical knowledge-base, multidisciplinary approach and critical thinking skills which serve as the foundation for lifelong learning in Mechanical Engineering. The department motivates and supports the students for Industry Sponsored Projects and Industrial Training so that they are well acquainted with the industrial problems and its solutions to be better prepared for the industries. The department also emphasizes on inculcating, professionalism, ethics and true attitude in the students. It also puts more efforts on strengthening communication skills, team work and social awareness among the students.

## Magazine Coordinators:



**Prof. Deepak Biradar**

Faculty Co-ordinator



**Nishant Sasane**

Editor



**Utkarsh Raut**

Editor



**Piyush Shelar**

Editor

## ★ Vision of the Department:

To be a Premier Department of Mechanical Engineering and research to serve the needs of the society and all the stakeholders.

## ★ Mission of the Department:

**M1:** To provide state of art facilities to impart quality education.

**M2:** To undertake various value added and add on courses to make students technically sound and thorough professionals.

**M3:** To collaborate with the industries and academia and strive to transform the research and innovative aptitude in the students and faculties.

**M4:** To inculcate high moral, ethical values and national pride in students and faculties.

## ★ Programme Educational Objectives of the Department

**PEO1:** To develop well sound students in academic fundamentals to understand, analyze and solve problems related to Mechanical Engineering.

**PEO2:** To meet the employer's requirements at large and prepare them towards quality higher education and entrepreneurship

**PEO3:** To build up student's ability to enhance their competence in research and innovation to design product and process

**PEO4:** To create awareness amid the students about professional ethics, managerial skills, social commitment and lifelong learning.

### ★ Programme Specific Outcomes of the Department

**PSO1:** Develop the knowledge and skills relevant to the field of robotics and automation by undergoing hands-on training.

**PSO2:** Develop and implement new ideas on product design and development with the help of modern computer aided tools, while ensuring best manufacturing practices.

# Event: SAE BAJA 2024: Team Nashorns PCCOER



## Achievement:

1. 3rd Overall m\_baja 2024
2. 1st Overall Physical Dynamics
3. 1st Speciality Event
4. 2nd Physical Maneuverability
5. 2nd CAE Event
6. 3rd Virtual Validation
7. 4th Design Evaluation
8. 5th Overall Virtual Dynamics

## Team Nashorns PCCOER



## Event name: SAE SUPRA 2024

SAE SUPRA is the national level engineering student competition of racing cars. Team Eminent has secured AIR 8 in overall event and 2<sup>nd</sup> prize in CAE Event.



## Event name: SAE TIFAN2024

SAE TIFAN is the national level engineering student competition of agriculture equipment design and manufacturing. Team Sonic Diggers has acquired top position in “Best Productivity Category”.





# MESA event INViSION Chapter 1, 22/02/2024

**MECHANICAL ENGINEERING STUDENT'S ASSOCIATION**  
PIMPRI CHINCHWAD COLLEGE OF  
ENGINEERING & RESEARCH, RAVET

**ENVISION** CHAPTER 1

**SPEAKER'S**

**PROF. ROUNAK KHABE**  
ENTREPRENEUR,  
AKA AALSI ENGINEER

**SAURABH SURESH BHOSALE**  
STORYTELLER AND  
PUBLIC SPEAKER

**22 FEB 2024**  
**VENUE: S.B. PATIL AUDITORIUM**

TIME: 1 - 4 pm  
REGISTER HERE NOW!



**MESA event INViSION**

## MESA event



# Alumni Meet 24/02/2024





# Industry visits



Water treatment plant 20/10/2023



HVAC visit 11/10/2023



Bhatghar Hydropower 19/10/2023



Cold storage Industry visit





Advik Industry visit (TE)




Shine motor 11/10/2023


# Higher Studies

	PIMPRI CHINCHWAD EDUCATION TRUST'S Pimpri Chinchwad College of Engineering & Research, Ravet, Pune IQAC PCCOER Higher studies	
2023-24		Mechanical

Congratulations to **Mr. Aditya Sawant** for getting admission for the M.S. at the **Calgary, Alberta, Canada**



**Mr. Aditya Sawant**  
Mechanical Engineering Department (2023\_24 batch)



	PIMPRI CHINCHWAD EDUCATION TRUST'S Pimpri Chinchwad College of Engineering & Research, Ravet, Pune IQAC PCCOER Higher studies	
2023-24		Mechanical

Congratulations to **Mr. Shishir Dande** for getting admission for the MSc in Quality Control, solid waste management, and waste-water process Engineering at the **University of Stuttgart, Germany.**



**Mr. Shishir Dande**  
Mechanical Engineering Department (2019 batch)



	PIMPRI CHINCHWAD EDUCATION TRUST'S Pimpri Chinchwad College of Engineering & Research, Ravet, Pune IQAC PCCOER Higher studies	
2023-24		Mechanical

Congratulations to **Miss. Dhanashri Kumbhar** for getting admission for the MS in Industrial Engineering at the **TH Rosenheim University, Germany.**



**Miss. Dhanashri Kumbhar**  
Mechanical Engineering Department (2020 batch)



	PIMPRI CHINCHWAD EDUCATION TRUST'S Pimpri Chinchwad College of Engineering & Research, Ravet, Pune IQAC PCCOER Higher studies	
2023-24		Mechanical

Congratulations to **Miss. Shashvita Muley** for getting selection for MS in **Clemson University, USA**



**Miss. Shashvita Muley**  
Mechanical Engineering Department (2020 batch)




	PIMPRI CHINCHWAD EDUCATION TRUST'S Pimpri Chinchwad College of Engineering & Research, Ravet, Pune IQAC PCCOER Higher studies	
2023-24		Mechanical

Congratulations to **Mr. Sahil Hambir** for getting selection for MS in Automobile in **University of Michigan, Ann Arbor USA (OS Ranking 33)**




**Mr. Sahil Hambir**  
Mechanical Engineering Department (2021 batch)




	PIMPRI CHINCHWAD EDUCATION TRUST'S Pimpri Chinchwad College of Engineering & Research, Ravet, Pune IQAC PCCOER Higher studies	
2023-24		Mechanical

Congratulations to **Mr. Siddharaj Nate** for getting admission for the Master of Business Analytics at the **Macquarie University, Australia**



**Mr. Siddharaj Nate**  
Mechanical Engineering Department (2021-22 batch)



Shardul Kulkarni 1st in national event of Mind Spark at COEP 29/10/2023



Entrepreneur at Kuwai Mr. Shrikant Shetty



# Placement of the students



**Pimri Chinchwad Education Trust's**  
Pimri Chinchwad College of Engineering and Research, Ravet, Pune



**Mechanical Department Placement For –AY 2023-24**

## Placements in Core Mechanical Industries



**Aftab Shikalgar**  
UnoMinda  
4.85 LPA



**Rashika Deshmukh**  
UnoMinda  
4.85 LPA



**Pushkar Rahate**  
Worley  
5.15 LPA



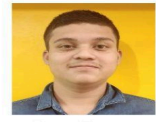
**Pratik Phapale**  
Worley  
5.15 LPA



**Utkarsh Kavitar**  
Worley  
5.15 LPA



**Saurabh Patil**  
Worley  
5.15 LPA



**Shree Bhavsar**  
Worley  
5.15 LPA



**Gaurav Makode**  
Worley  
5.15 LPA



**Siddhant Yadav**  
Worley  
5.15 LPA



**Atharva Chinchole**  
Tata Technologies  
4.5 LPA



**Harsh Patil**  
Tata Technologies  
4.5 LPA



**Dhiraj Nagawade**  
Tata Technologies  
4.5 LPA



**Priyanka Patil**  
Kirloskar Pneumatic  
5 LPA

## Placements in IT Industries



**Harsh Yeole**  
AAIS Global LLC  
4.2 LPA



**Pranjana Bhalerao**  
Bharti Airtel  
5.5 LPA



**Snehal Kukre**  
Bharti Airtel  
5.5 LPA

**Vaibhav Kamlakar Zunjare SE Mechanical for securing first prize in the intercollege Chess Competition held in Katraj on 01/02/2024**



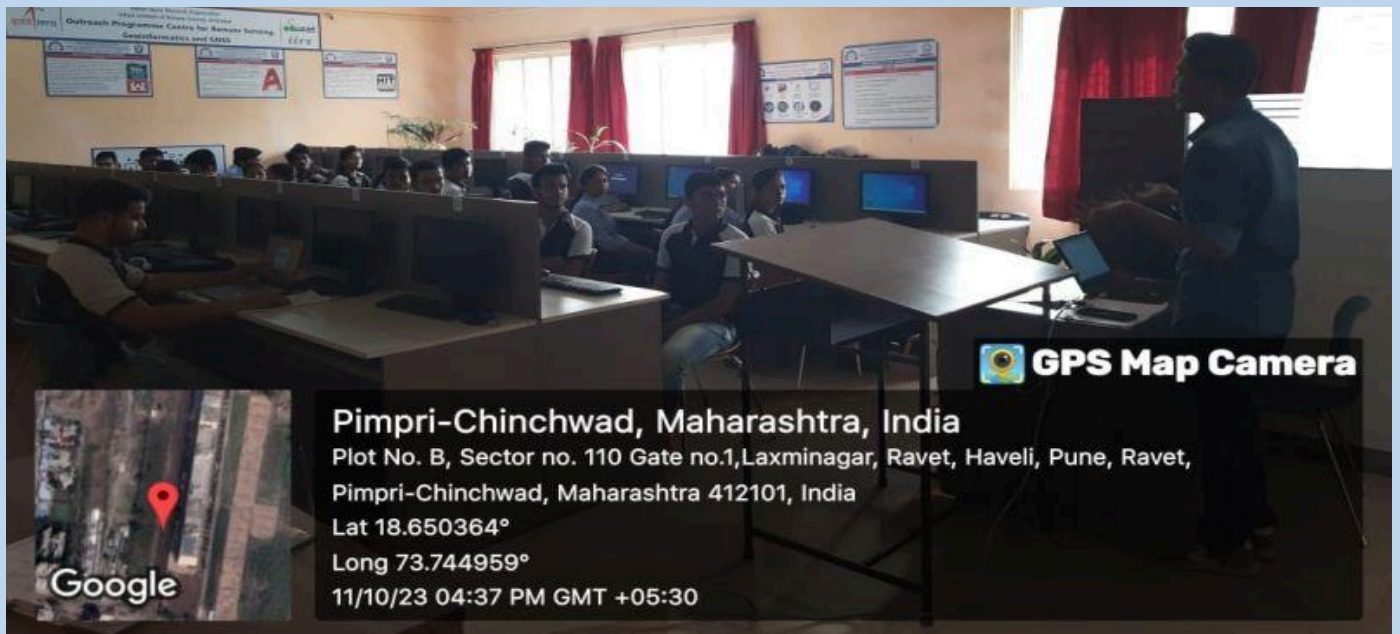


## Python language course for SE Students by Mr.Aman Shaikh (ML/AI engineer)





## C language Training Pranav Solunke



## German Language Course:



## CATIA Course



# 3 Days Mechatronics workshop for SE, TE and BE



PCET'S  
PIMPRI CHINCHWAD COLLEGE OF ENGINEERING AND RESEARCH  
RAVET, PUNE  
DEPARTMENT OF MECHANICAL ENGINEERING  
PCCOER RAVET ORGANIZES

## "3-DAYS WORKSHOP ON MECHATRONICS"

**IN ASSOCIATION WITH DOLPHIN LAB**

 **THURSDAY-SATURDAY  
22 -24 FEBRUARY 2024**

 **VENUE  
SEMINAR HALL  
PCCOER**

**RESOURCE PERSON**  
Mr. C.P. MAHAJAN

**WORKSHOP  
COORDINATORS**

- Prof. Dr. S. H. Mankar
- Prof. Dr. R. K. Rathod

**DR. G D. SIRASKAR  
HOD, MECH**

**Prof. Dr. H.U. TIWARI  
PRINCIPAL, PCCOER**

**STUDENT COORDINATOR**  
SHIVAM HAJARE





## 3 Days Mechatronics workshop for SE, TE and BE



## Success of Team Nashorn News

कासुडा (ता. दास) : यथाल तुकाराम भाडव यांच्या शतात सुरु असलेला कायाबराचा काढणा

# एम-बाहा राष्ट्रीय स्पर्धेत 'पीसीसीओईआर'चे यश

पिंपरी, ता. १९ : एमएई इंडिया एम-बाहा २०२४ या राष्ट्रीय स्पर्धेत पिंपरी चिंचवड एन्युकेशन ट्रस्टच्या (पीसीईटी) पिंपरी चिंचवड कॉलेज ऑफ इंजिनियरिंग अँड रिसर्च (पीसीसीओईआर)मधील मेकॅनिकल विभागातील टीम नॅशोर्नसि सहा पदकांची कमाई केली. तब्बल १ लाख ३० हजार रुपयांची पारितोषिके पटकावली.

मध्यप्रदेशातील प्रितमपूर येथे झालेल्या स्पर्धेत देशभरातील शंभरहून अधिक अभियांत्रिकी महाविद्यालयांनी सहभाग घेतला होता. टीम नॅशोर्नसि सस्पेन्शन व टूॅक्शन आणि समग्र फिजिकल डायनॅमिक्समध्ये पहिला क्रमांक, मॅन्युबेरॅबिलिटी आणि कॉम्प्युटर एडेड इंजिनियरिंगमध्ये दुसरा तर अखिल भारतीय व डिझाइन व्हॅलिडेशनमध्ये



मध्य प्रदेश : ऑटोमोटिव्ह इंजिनियर्स राष्ट्रीय स्पर्धेत यश मिळवलेले 'पीसीसीओईआर'चे विद्यार्थी.

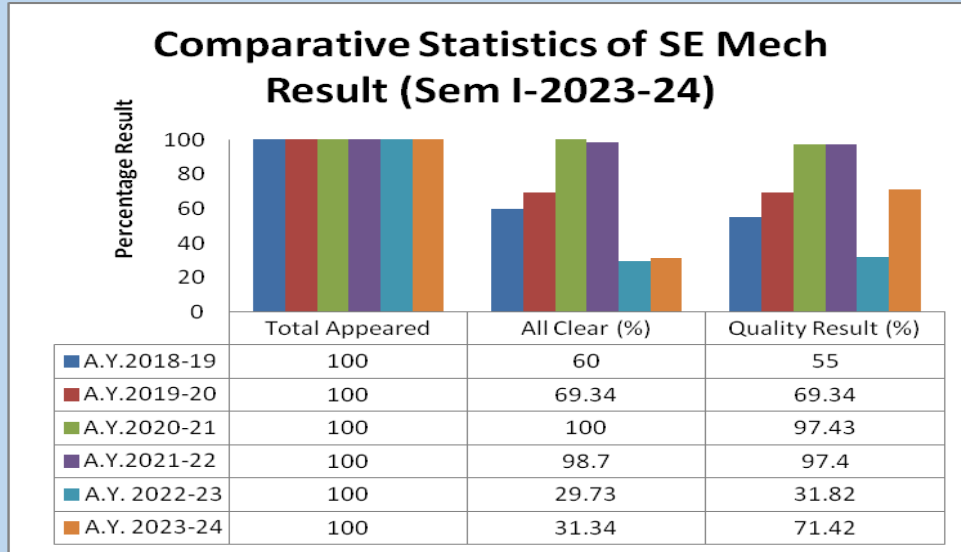
तृतीय क्रमांक मिळवत उज्वल यश संपादन केले. या संघात विनय गुडसे, अनिकेत मांगवडे, प्रियांका पाटील, सुप्रिया यादव आदींचा समावेश होता.

गेली अनेक वर्षे 'पीसीसीओईआर'चे विद्यार्थी या स्पर्धेमध्ये सातत्याने यश

संपादन करित आहेत. या चुरशीच्या स्पर्धेसाठी विद्यार्थी व मेकॅनिकल विभागाचे प्राध्यापक वर्षभर तयारी करित असतात. स्पर्धेच्या पूर्व तयारीसाठी महाविद्यालयाकडून आवश्यक निधी, सोयी सुविधा, साहित्य आणि मार्गदर्शन

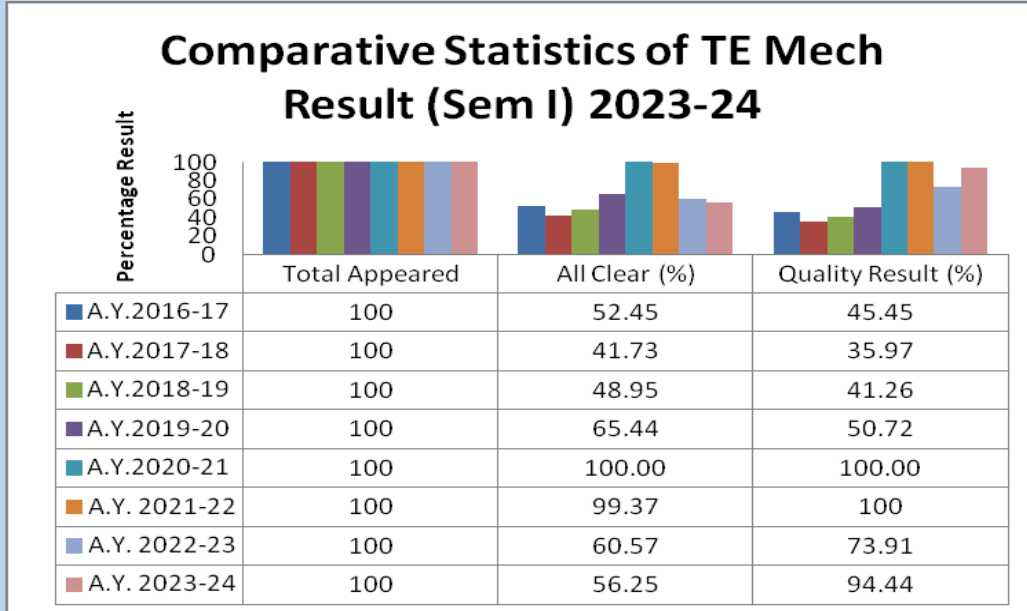
पुरवले जाते. स्पर्धेत सहभागी होऊन नेत्रदीपक कामगिरी करणाऱ्या विनय गुडसे, अनिकेत मांगवडे, प्रियांका पाटील आणि सुप्रिया यादव या चार विद्यार्थ्यांना आनंद ग्रुप व रेनो निस्सानने इंजिनियर म्हणून सेवा संधी देऊ केली असून, संघातील इतर पाच विद्यार्थ्यांची निवड प्रक्रिया सुरु आहे. पीसीईटीचे अध्यक्ष ज्ञानेश्वर लांडगे, उपाध्यक्षा पद्माताई भोसले, सचिव विठ्ठल काळभोर, खजिनदार शांताराम गराडे, उद्योजक नरेंद्र लांडगे, अजिंक्य काळभोर, कार्यकारी संचालक डॉ. गिरीश देसाई, प्राचार्य डॉ. हरीश तिवारी, विभागप्रमुख डॉ. गुलाब सिरस्कर यांनी विजयी संघातील विद्यार्थी, मार्गदर्शक आणि समन्वयक प्रा. सुखदीप चौगुले व प्रा. दीपक बिरादार यांचे अभिनंदन केले.

## SE Result Analysis



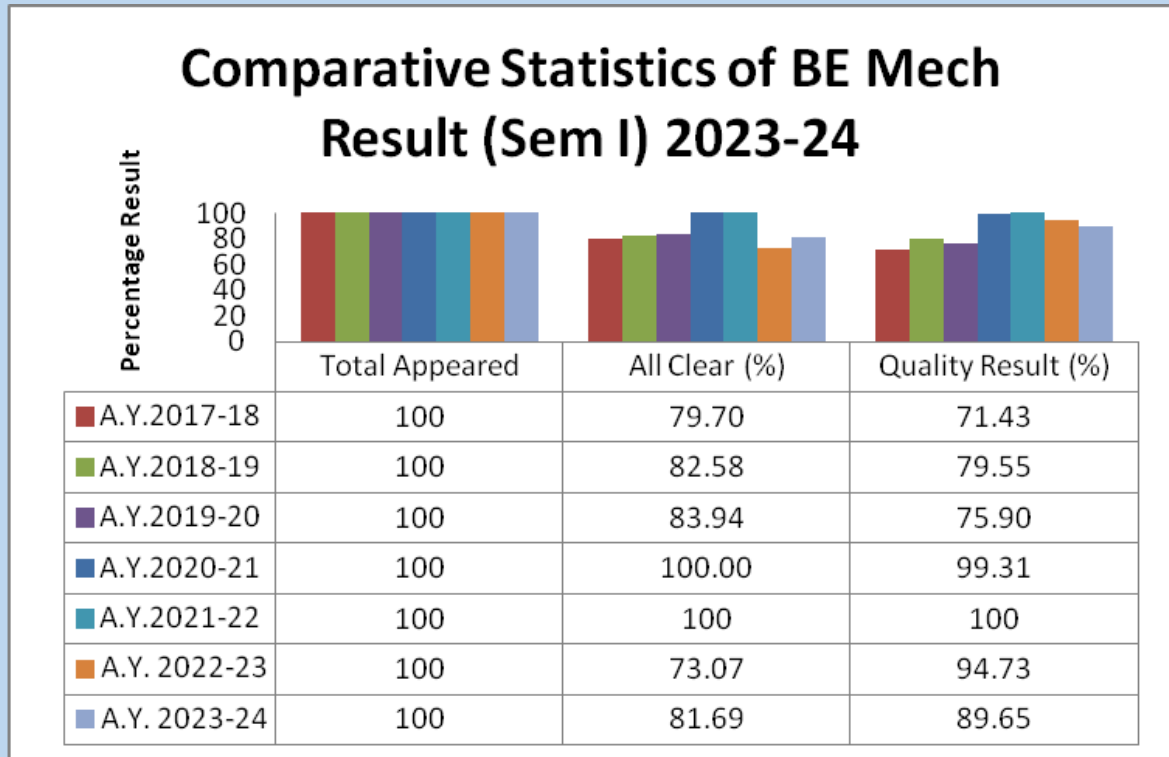
Sr. No.	Seat No.	Name of the Student	Credits
1	S191220870	PATIL SAURABH KIRAN	9.55/10
2	S191220840	KASAR DARSHAN PRASHANT	9.40/10
3	S191220825	FISKE SUJAL SUBHASH	9.32/10
4	S191220867	PATIL MOTAKE SHREYA RAJGONDA	8.95/10
5	S191220820	CHOUDHARY MUKESH GENARAM	8.23/10
6	S191220847	LANJEWAR YADNYEE OMESHAWAR	8.14/10

## TE Result Analysis



Sr. No.	Seat No.	Name of the Student	Credits
1	T191220822	Dalvi Atharv Santosh	9.29/10
2	T191220811	Badgujar Pradhyumna Rajendra	9.14/10
3	T191220812	Bagade Sanjivani Shantaram	8.90/10
4	T191220841	Kamble Yash Raju	8.76/10
5	T191220885	Vispute Manasi Dinesh	8.71/10

## BE Result Analysis



Sr. No.	Seat No.	Name of the Student	SGPA
1	B191220816	Chinchole Atharva Nandkumar	9.25/10
2	B191220821	Farate Sumit Sudam	9.00/10
3	B191220807	Bhalerao Pranjana Vilas	8.90/10
3	B191220868	Shikalgar Aftab Jamir	8.90/10
4	B191220834	Kavitkar Utakarsh Ajay	8.85/10
5	B191220853	Patil Saurabh Vijay	8.80/10
5	B191220860	Rahate Pushkar Shashikant	8.80/10
5	B191220869	Siddhant Yadav	8.80/10

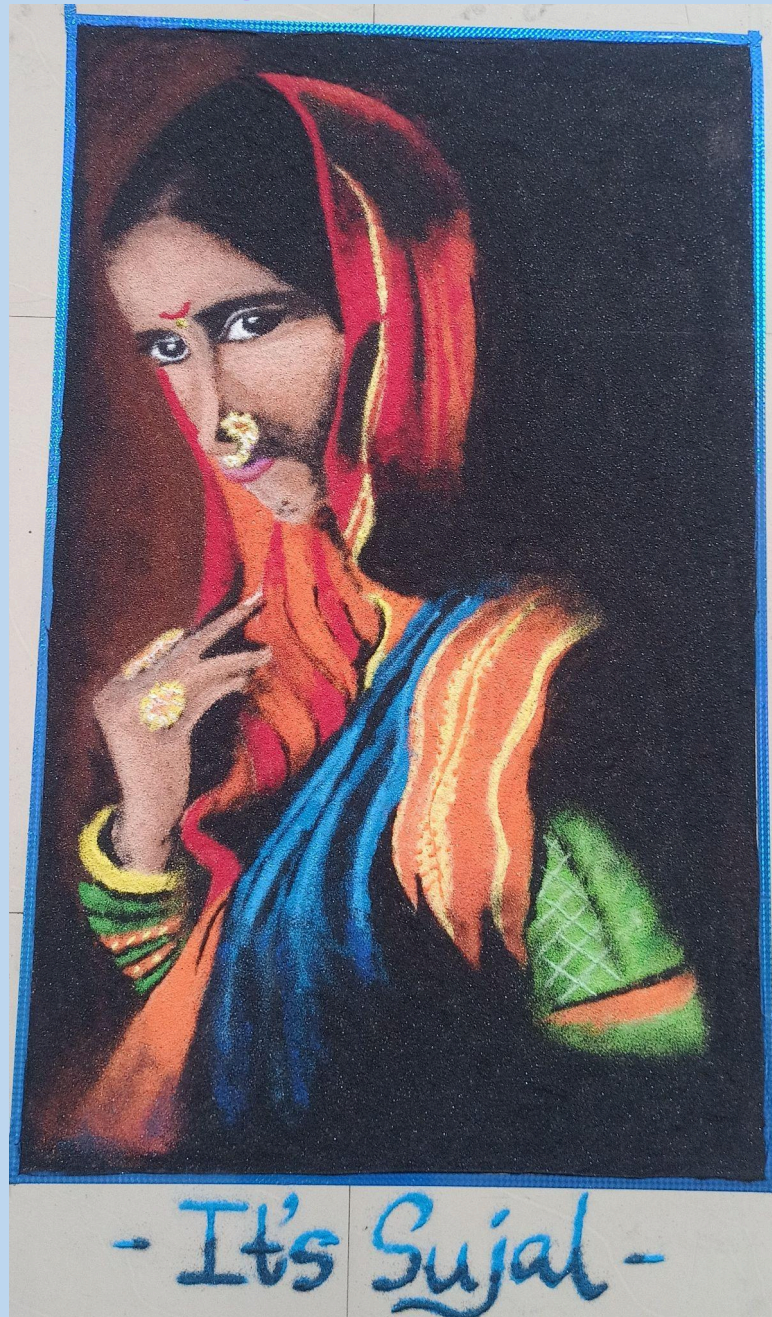
## State level PCET'S Youth Conference

1. Student Speaker Award In State level PCET'S Youth Conference held in PCCOE (Got a chance to Speak and share thought of youth with deputy collector and police commissioner of pune)
2. Best Opening Speech in Model United Nations, PCCOE&R
3. Best Reader of College, PCCOE&R



Gudalkar Hrushikesh Pandurang Essay Competition got First Prize in Essay Competition

## Rangoli Competition



Fiske Sujal Subhash from SE got the first rank in the Rangoli competition held during the cultural activities, under art circle.

## Painting Competition



Fiske Sujal Subhash from SE got the first rank in the painting competition during the cultural activities, Under the art circle.

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