

THE CURRENT POST

About The Institution



PES's Modern college of Engineering was established in June 1999 under the guidance & leadership of visionary Chairman Dr.G.R.Ekbote. The College is approved by AICTE, New Delhi, Directorate of Technical Education, and Government of Maharashtra & is affiliated to SavitribaiPhule Pune University, compiling with all the norms & standards of Engineering Education. At present the college conducts seven courses in Engineering viz. Mechanical, Electrical, Electronics & Telecommunication, Computer, Artificial Intelligence & Data Science, Electronics & Computer Engineering and Information Technology. The college has Post Graduate Engineering courses in Electrical, Mechanical, Computer, E&TC, MBA & MCA courses. The Research centre has been established for Mechanical, E&TC, and Electrical& MBA. The second shift courses have been started for Electrical, Mechanical, Computer, IT & MCA.

- **Electrical Engineering and E&TC Department, these UG courses are accredited by National Board of Accreditation (NBA) for Academic Years 2019-2020 to 2021-2022 i.e. upto 30/6/2022**
- **College has been accredited by NAAC with "A Grade".**
- **College has been awarded as best college in urban area.**

From Principal's Desk



The aim of this institute is to develop not just top quality engineers but also well developed persons. Our motto therefore is "the joy of excellence in a world of high technology". As professionals you are required to gain knowledge and use it effectively even when you are exposed to pressure. You can surely face the challenges in the world with great courage if you can manage your valuable time and set your priorities, by having healthy competition and team spirit. Working in a team, effectively yields best results, even under tight deadlines.

From HOD's Desk

A weak link is better than a strong memory. Nothing exemplifies it better than the nostalgic feeling one gets when leafing through the dusty old pages of his/her college magazine. It can make a reader travel down the lanes of memory, giving rise to a surge of emotions of many hues and colours. Department of Electrical Engineering "THE CURRENT POST" newsletter is going to give the same pleasure to all the brilliant minds that traverse through the portals of this temple of learning. The role of a college magazine is therefore vital in promoting what an institution offers. It brings out into the open things hitherto unrevealed. It brings to light the names of the unsung heroes and their mighty deeds.



Vision of Department

"To build technically competent Electrical Engineers with ethical and social responsibility."

Mission of Department

- To develop abilities in students for acquiring knowledge and skills to flourish in dynamic technical environment.
- To nurture cultured professionals by providing facilities for their overall development.
- To motivate the students for research work and activities beneficial to society.
- To enhance strong bonding with various organization and alumni.

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Vision of the Institution

- **To create a collaborative academic environment to foster professional excellence and ethical values**

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>> विझलो आज जरा मी <<

- सुरेश भट

विझलो आज जरा मी
हा माझा अंत नाही
पेटेन उद्या नव्याने ,
हे सामर्थ्य नाशवंत नाही ॥
छाटले जरी पंख माझे ,
पुन्हा उडेन मी.
अडवू शकेल मला ,
अजुन अशी भिंत नाही
माझी झोपडी जाळण्याचे ,
केलेत कैक कावे
जळेल झोपडी अशी ,
आग ती ज्वलंत नाही
रोखण्यास वाट माझी ,
वादळे होती आतूर
डोक्यात जरी गेली धूळ ,
थांबण्यास उसंत नाही
येतील वादळे , खेतेत तुफान
तरी वाट चालतो
अडथळ्यांना भिवून अडखळने ,
पावलांना पसंत नाही

IET ACTIVITIES

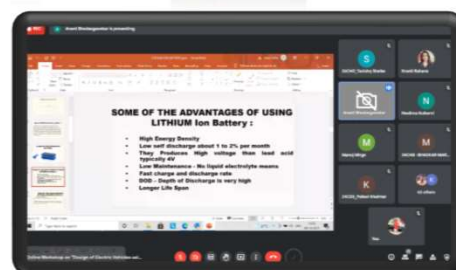
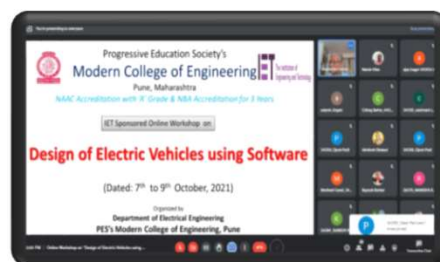
1. Workshop on “Design of Electric Vehicles using Software”

Design of Electric Vehicles using Software was carried out Thursday, 7th October 2021 to Saturday, 9th October 2021 on mode.

The chief guest of the day was Dr. Anil Hiwale, Chairman, Pune IET Local Network. Other dignitaries were Prof.Dr.N.R.Kulkarni, HOD Electrical Department, The inauguration of workshop was held on 7th October, 2021. Workshop mainly focused on Basics of Design of Electric Vehicle, Motors, drive control and Battery Management system, realization of design of EVs through Software and opportunities in EV sector. Sessions were conducted by Eminent experts from reputed Industries on 3 days from 7th to 9th October 2021.

The entire workshop also has covered various opportunities in the field of electric vehicle sector. Total candidates registered are 180. The overall feedback about the workshop is also conducted.

Lastly the ceremony concluded with a vote of thanks where all the invited guests were thanked for gracing the occasion by their solemn presence.

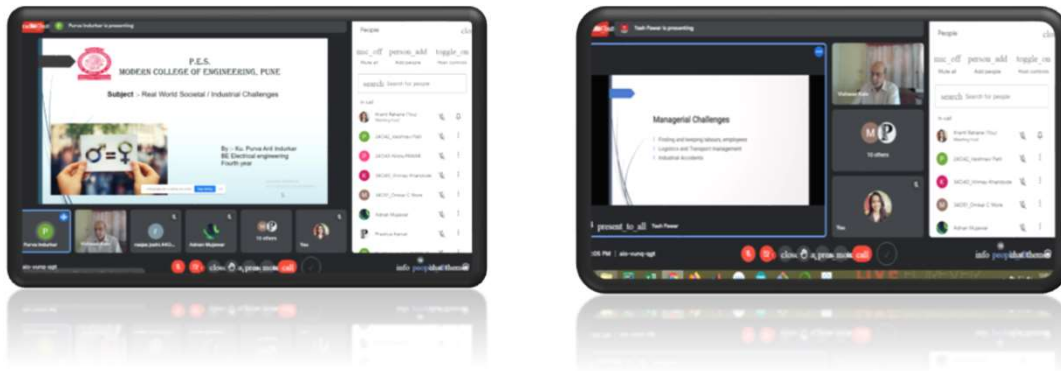


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2. Present around the MCOE (PATMCOE)

On 17th December 2021 the MCOE presentation competition with two sessions in a day started at 11.00am. Both the sessions were conducted on Google meet.

Google link was communicated to guest's speakers, IET dignitaries and to all the participants. At the starting of session1, Dr.Mrs. N.R.Kulkarni, HOD of Electrical Department, P.E.S.MCOE introduced the importance of event in this pandemic situation. Following with her Mr. Vishwas Kale expressed his views on the topic. All the participants were presented their presentation on the topic "Real time industry/social challenges" followed by question-answer session of 10 minutes. Sessions was concluded with vote of thanks and winner announcement



ESSA Activities

1. Guest Lecture on “PLC & SCADA Application”

The guest lecture on PLC and SCADA Applications was conducted on 6th September 2021, Thursday from 11.00 AM to 1.00 PM for BE A and B Division.

Speaker for the lecture were Mr. Parag Dandekar and Mr. Mahesh Sarkate, Celestial Institute of Technology, LLP, Pune. Main aim was to enhance student's knowledge of PLC and SCADA for Electrical Engineers. Another important objective was to inspire students for learning recent technological of PLC along with different controllers for advance and complex applications. The lecture was very illustrative and interesting. It helped the students to understand the PLC and SCADA as well as DCS system in different industries, its uses in the industry.

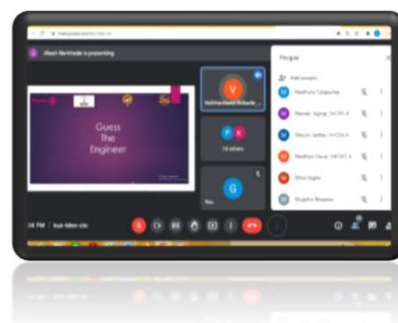


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2. ENGINEER'S DAY

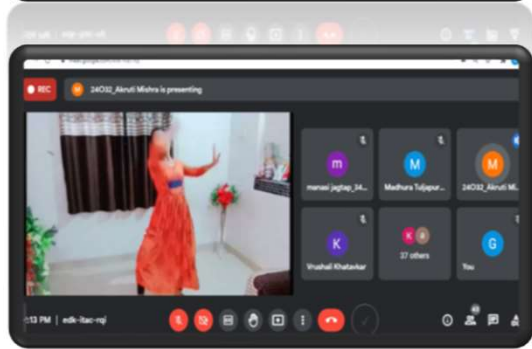
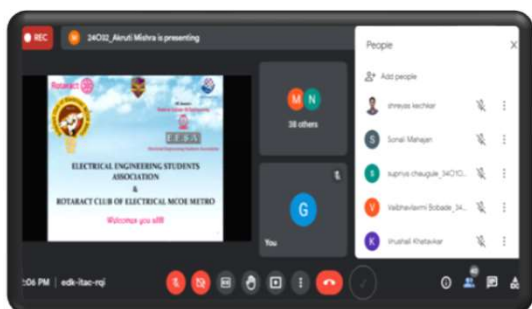
On the birth anniversary of **SIR Mokshagundam Srinivasa Shastry Vishveshwarayya** i.e. 15 SEPTEMBER we celebrate **ENGINEER'S DAY** across INDIA since 1986.

This activity was held under Department of electrical engineering of PES MCOE. Name of the event was „circuit hunt “. This event was conducted mainly to test the technical as well as practical knowledge of students related to circuits. The activity was conducted on Google Meet on 18th Sept 2021. Inauguration of event was done by guest Vinayak Apte. He is an Entrepreneur and alumni of modern college of engineering. The event was conducted with two rounds mainly relating to circuit knowledge, hunting the components through technical clues, developing & testing the circuit on breadboard. The event head was Sandeep Tembare and Co-head was Aditya Wakade.



Social Activity

1. "GURU POURNIMA"



On 27 July 2021 on the special day of occasion of “Guru-pournima” an event was held under Electrical Engineering Association .

The main objective of this event was involvement in learning communities, non-academic programs to Retention and connection to teachers to develop student . Guru pournima was celebrated in online mode in Electrical Department by the students of S.E.,T.E.and B.E. The Coordinators for this event where Mrs.G.K.Palnitkar, Prof. Mrs.Mugdha Bhajekar .

Students of SE,TE and BE Electrical First and second shift arranged this program. Students presented slides on Guru and perform sarashwati vandana through dance. Student arranged games for teachers. HOD Dr. Mrs. N.R.Kulkarni expresses her ideas and also shared her student life experience and thank to all her staff who teach her at the time of Engineering. Staff and Students felt inspired. Students also got a platform to express their ideas through online mode.

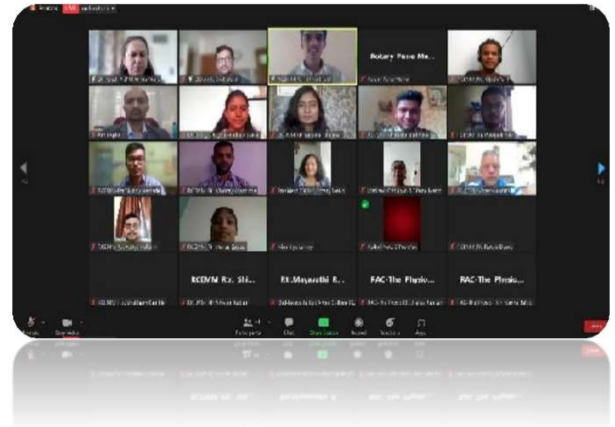
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Rotract Activities

EPIC EPISODE 1 “ JOURNEY OF EXCELLENCE ”

On 28th August, 2021 Saturday Rotaract Club conducted first session on “Journey of Excellence”.

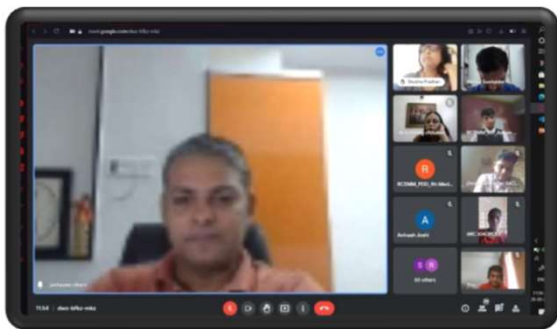
“Journey of Excellence” of flagship event E.P.I.C. The event started at 12:30 PM and ended at 02:15 PM and was held on Zoom Online Meet platform. The session was hosted by Rtr Shivtej Patil, Rtr Sanjana Bhalekar and Rtr Medhavi Gavai. Speaker CMA Amit Apte, who is a cost accountant by profession, shared their knowledge on how to be a successful Entrepreneur in life. Along with cost accountant, sir is a very good trekker as well as a Table Tennis player. Our Guest of Honour DRCC Rtn. Amit Shah along with Rtn. Amita Nene and Rtn. Sneha Subhedar brought a shine to the event and made it grand with their presence. Also the collaborating clubs participated at high interest and took a lot of knowledge with them. In all, the event was so informative and interactive, that every participant was fulfilled with knowledge.



EPIC EPISODE 2 “ WORKING TOWARDS ENTREPRENEURIAL MINDSET ”

On 26 September 2021; Sunday, Rotaract Club of Electrical MCOE Metro under the guidance and mentoring of Rotary Club of Pune Metro, successfully completed the 2nd episode “Working towards an entrepreneurial mindset” of the flagship event E.P.I.C. The event started at 11:30 AM and ended at 12:30 PM on Google Meet platform. There were 83 participants present in session. Rtr. Swati Sonwar welcomed and introduced the guest.

Our guest of honor Rtn. PP Dr. Abhay Sontakke sir shared his views on ongoing and upcoming projects of Rotary and inspired the participants by his beautiful words. Rtr. Adnan Mujawar interviewed our guest speaker Dr. Yogesh Pawar Sir, who is the chairman of chamber of commerce of ARISE and AICA. Sir shared his experience and knowledge about entrepreneurship, startup and inspired us with his words. Rtr. Supriya Chaugule delivered the vote of thanks. Also a big thank you to Rtn. Madhavi Chauhan ma'am and Rtn. Amita Nene ma'am who supported us a lot. President Rtr. Vaibhaxmi Bobade and Secretary Rtr. Jitesh Narkhede also supported us. Rtr. Medhavi Gavai and Rtr. Mansi Jagtap coordinated the whole session. And our Epic team members also took a lot of efforts to conduct this episode smoothly.

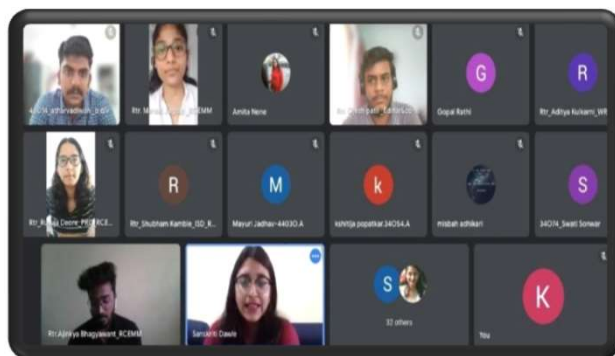


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EPIC EPISODE 3 “START-UP DEMYSTIFIED”

On 17 October 2021; Sunday, Rotaract Club of Electrical MCOE Metro under the guidance and mentoring of Rotary Club of Pune Metro, successfully completed the 3rd episode “START-UP DEMYSTIFIED” of the flagship event E.P.I.C. The event started at 11:00 AM and ended at 12:00 PM on Google Meet platform. There were 50 participants present in session. Rtr. Shivam Kadam welcomed the guests.

Our guest of honor DZR Sanskruti More mam enlightened all the participants by her inspiring words. Rtr. Shivam Kadam introduced our guest speaker. Rtr. Ajinkya Bhagyawant interviewed our guest speaker Sanskriti Dawle mam. Mam shared her experience and knowledge about startup and inspired us with her words. Rtr. Swapnali Nigade delivered the vote of thanks. Also a big thank you to Rtn.Sneha Subhedar ma'am and Rtn Amita Nene ma'am who supported us a lot. President Rtr. Vaibhavlaxmi Bobade and Secretary Rtr. Jitesh Narkhede also supported us. Rtr. Medhavi Gavai and Rtr. Manasi Jagtap coordinated the whole session. And our Epic team members also took a lot of efforts to conduct this episode smoothly.



EPIC EPISODE 4 “A KEY TO SUCCESS 7 HABITS OF HIGHLY EFFECTIVE PEOPLE”



On 7th November 2021; Sunday, Rotaract Club of Electrical MCOE Metro under the guidance and mentoring of Rotary Club of Pune. “A Key to Success (7 Habits of highly Effective People) ” of the flagship event E.P.I.C. The event started at 11 AM and ended at 12 PM on Google Meet platform. There were 70 participants present in session. Rtr. Anushka Wagh welcomed and introduced the guest.

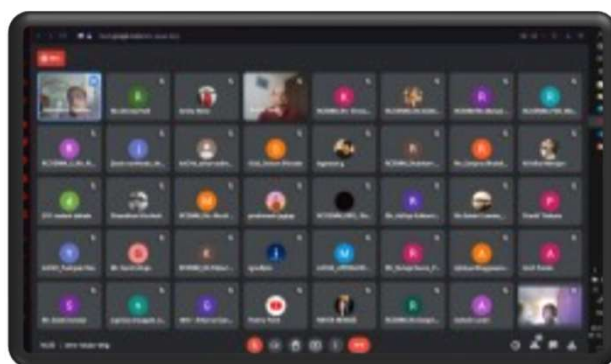
Our guest of honor Rtn. PP Avinash Joshi sir shared his views on ongoing and upcoming projects of Rotary. Rtn. Datta Deshpande Sir, who is the Founder & CEO of Pratham Technology Pvt. Ltd.. Sir shared his experience and knowledge about entrepreneurship. Rtr. Rutuja Deore delivered the vote of thank. Makarand Phadke Sir , President Rtr. Vaibhavlaxmi Bobade and Secretary Rtr. Jitesh Narkhede also supported us. Rtr. Medhavi Gavai and Rtr. Mansi Jagtap coordinated the whole session and our Epic team members also took a lot of efforts to conduct this episode.

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EPIC EPISODE 5 “THINKING LIKE AN ENTREPRENEUR”

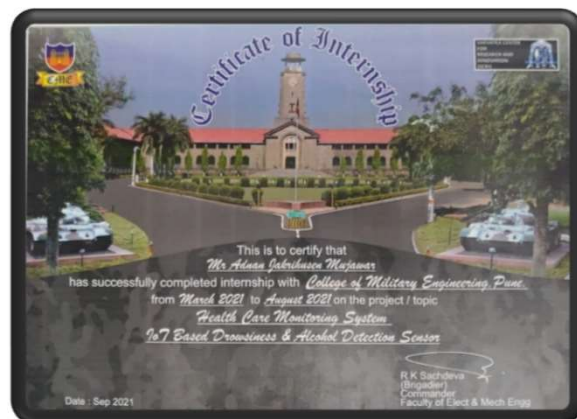
On 4th December 2021; Saturday, Rotaract Club of Electrical MCOE Metro under the guidance and mentoring of Rotary Club of Pune. “Thinking like an Entrepreneur” of the flagship event E.P.I.C. The event started at 4 PM and ended at 5 PM on Google Meet platform. There were 45 participants present in session. Rtr. Shivtej Patil welcomed and introduced the guest.

Our guest of honor Rtn. Makarand Phadke sir shared his views on ongoing and upcoming projects of Rotary. Mr. Kedar Joshi Sir, who is the Director - co-founder and member of the Executive Management at Qualitia Software.. Sir shared his experience and knowledge about entrepreneurship. Rtr.Swati Sonwar delivered the vote of thanks. President Rtr. Vaibhalaxmi Bobade and Secretary Rtr. Jitesh Narkhede also supported us. Rtr. Medhavi Gavai and Rtr. Mansi Jagtap coordinated the whole session and our Epic team members also took a lot of efforts to conduct this episode.



Academic Awards 2021-2022

Name of the students	Achievement	Name of the Event	Level	Date
Adanan Mujawar	Internship with College of Military Engineering, Pune	Health Care Monitoring System IOT based Drowsiness and alcohol detection sensor	State Level	March 2021 to August 2021



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Academic Result Records

CLASS	Shift-I	Shift-II
SE	94.805	96.1538
TE	98.77	98.88
BE	100	100

Research Achievement

1) Electrical Engineering Research Center has been established in 2010. The objective of the Research Center is to provide an outstanding academic and research experience to students to prepare them to meet the needs and challenges of the 21st Century in the field of Electrical Engineering. The objective is extended to the commitment of providing state-of-the-art interactive education through innovation, cutting-edge research with real-world experience promoting industry-Institute interactions, projects and life-long learning.

2) Optimization of Specific Capacitance of Ultracapacitor through Electrode-Electrolyte based Modeling research by Mr. Godse Laxman Shivajigot under the guidance of Dr. P. B. Karandikar

3) Development of Optimized Energy Storage Solutions for HEV Applications using Desulfator research by Mrs. Anupama Pankaj Singh under guidance of Dr. P. B. Karandikar

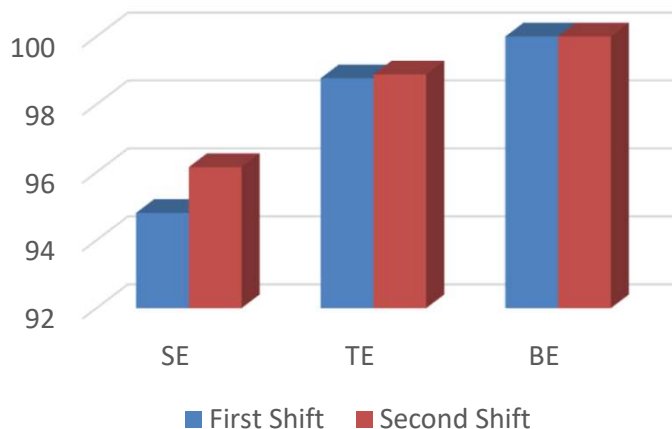
4) Design, Development, Modeling and Utilization of a Biomass based Supercapacitor by Mrs. George Seema under the guidance of Dr. P. B. Karandikar

5) Analysis and design of intelligent controller for MIMO system with reference to liquid level control research by Mrs. Deepa Bhandare under the guidance of Dr. Mrs. N. R. Kulkarni

Placement Records

Name of student	Name of Company
Saloni Basavaraj Melkonde	Cognizant
Ankita Khirodkar	Atlas Copco
Datta Sonawne	Uno Minda
Pratik Raghunath Fuse	Jaro Education
Swapnil Patil	Vanderlande
Prathamesh Date	
Mohit Kasar	
Pooja Patil	
Satvik Uttam	Bristlecone
Saloni Melkonde	Zensar
Supriya Chaugule	CCTech
Bhaves Dhamone	Capgemini
Sneha Rathod	Capgemini
Atharva Diwan	Jaro Education

Result Analysis 2021-2022 SEM-I



SE 1st Shift Toppers

Name Of Student	sgpa
Kank Viraj Jayant	9.45
Daf Sanjayot Sanjay	9.45
Nisha Khar	9.23
Arya More	9.18
Aditya Sangle	9.18
Yash Sathe	9.18

SE 2nd Shift Toppers

Name Of Student	Sgpa
Abhilash Vagh	9.45
Samruddhi Ambildhok	9.32
Prathmesh Kadam	9.27
Sheetal Wani	9.27
Aditya Joshi	9.23
Ghanshyam Patil	9.18
Jaid Bagwan	9.18

TE 1st Shift Toppers

Name of Student	Marks	sgpa
Omkar More	645	10
Niraj Deshmone	621	9.9
Mantesh Aaherwadi	632	9.9
Yogesh Yangal	630	9.86
Shrihari Gulhane	623	9.86

TE 2nd Shift Toppers

Name Of Student	Marks	sgpa
Sahyan Chakraborty	648	10
Gaurav Patil	639	9.95
Athruva gumphekar	623	9.86
Trupti Pachpute	617	9.86
Himanshu Rewatkar	604	9.86

BE 1st Shift Toppers

Name Of Student	Marks	sgpa
Jitesh Narkhede	714	10
Supriya Chaughule	692	10
Sonali balaiburu	689	10
Swapnil Patil	689	10
Medhavi Gavai	687	10

BE 2nd Shift Toppers

Name Of Student	Marks	Sgpa
Shivendra Patil	691	10
Ragini Patil	689	10
Prathmesh Date	675	10
Bhaves Agalevi	669	9.95
Pooja Patil	665	9.95

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CORE VALUES

- ☐ Excellence in the field of Electrical Engineering.
- ☐ Social responsibility with integrity.
- ☐ Lifelong Learning.
- ☐ Unity in Diversity.

SHORT TERM GOALS

- ☐ To enhance alumni interaction.
- ☐ To develop innovation lab to enhance research and entrepreneurship by providing various facilities.

LONG TERM GOALS

- ☐ To promote consultancy activity for revenue generation by developing high-tech standard laboratory.
- ☐ To encourage the faculty for research work and up gradation of qualifications.
- ☐ To enhance teaching-learning process through ICT.
- ☐ To establish competitive entrance exam cell in department.

PROGRAM OUTCOMES (POs)

- ☐ **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- ☐ **Problem analysis:** Identify, formulate, research literature, and analyses complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- ☐ **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- ☐ **Conduct investigations of complex problems:** The problems that cannot be solved by straight forward application of knowledge, theories and technique applicable to the engineering discipline that may not have a unique solution. For example, a design problem can be solved in many ways and lead to multiple possible solutions that require consideration of appropriate constraints/requirements not explicitly given in the problem statement. (Like: cost, power requirement, durability, product life, etc.). Which need to be defined (modeled) within appropriate mathematical framework that often requires use of modern computational concepts and tools.
- ☐ **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

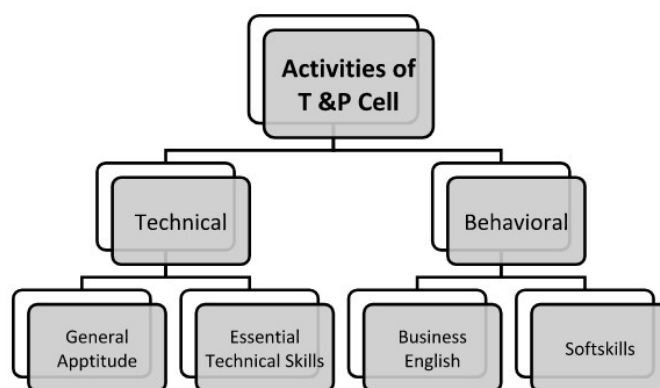
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- ❑ **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- ❑ **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- ❑ **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- ❑ **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- ❑ **Communication: Communicate:** effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- ❑ **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- ❑ **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Training And Placement Cell

At PES Modern College of Engineering we nurture inquisitive, enterprising and curious outlook of students" The Changing paradigms have made mandatory for an academic institution to foster a new breed of professionals – individuals equipped with the right kind of knowledge, technical skills, ability to think out of box and innovative. The industry expectations have gone higher and only those survive and sustain who have the right attitude & skills to accept challenges and increase the performance ladder each day. Hard work is no more the key to success alone but individuals are expected to work smarter and consistent without failure. The placement cell at institute gives utmost importance to assist its students in getting suitable placements after successful completion of their studies. The placement cell ensure that every student get the right skill & domain knowledge so that they are easily acceptable to the industry. The department organizes activities and workshops that enable students to be effective team leaders as well as team players. This department is operated with twin-fold focus, i.e. Augmenting internal competencies by fostering contemporary grooming of students and by enabling industry to identify and absorb intellectuals with requisite technical & Managerial skills.

• T & P cell Activities



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• Placement Objectives

- ☐ To provide ample opportunities for placement of Engineering Students to achieve higher placements.
- ☐ To organize campus recruitment for the students with industries and business houses of repute from all over India.
- ☐ To prepare students for campus recruitment arranging training in Aptitude tests, Group discussions, preparing for Technical and HR interviews through professional trainers.
- ☐ To promote career counseling.
- ☐ Tie-up arrangements with reputed Industries & Corporate for Campus recruitment.
- ☐ Create awareness among students regarding available career options and help them in identifying their career objectives and Act as a bridge between students, alumni and employers.



**Prof. Dr. Mrs.
N.R. Kulkarni**
Vice Principal and
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