



A Trusted Brand in Education Since 1990

# PIMPRI CHINCHWAD COLLEGE OF ENGINEERING & RESEARCH, RAVET.

DTE code - 6822

Affiliated to Savitribai Phule Pune University and Approved by AICTE, New Delhi

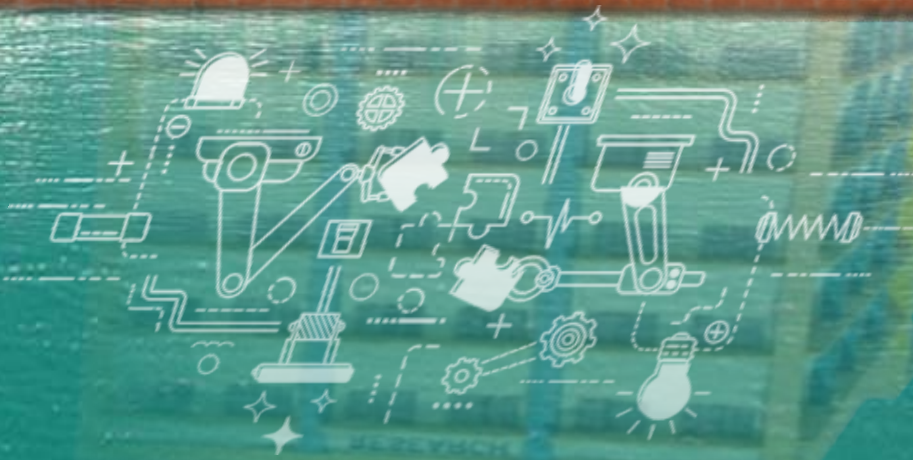
Plot B, Survey No. 110(P), Laxminagar, Ravet, Pune – 412 101. Phone: +91-20-69338080

Email: [pccoer.ravet@gmail.com](mailto:pccoer.ravet@gmail.com).



REFLECTION... 2019-20

PIMPRI CHINCHWAD COLLEGE OF ENGINEERING & RESEARCH



## Our Tribute



**Late Shri S. B. Patil**  
(Founder President, PCET)



**Late Smt. Lilatai S. Patil**  
(Ex Chairperson, PCET)



Hon'ble Late Shri. Shankarrao Bajirao Patil was a founder, chairman of the Pimpri Chinchwad Education Trust constituted in 1990 with a devoted team of trustees.

Shri Shankarrao Bajirao Patil came from a prosperous agriculture family and has thriving achievements in the field of education, social welfare, politics and cooperative activities. He was counted as the most renowned, experienced respectable person and man of fame and honor in the state of Maharashtra for quite a long time. He was minister for Labour, Gramin-Vikas, Co-operation, Dairy development and Finance in Government of Maharashtra. He was also a Member of Parliament twice. He was founder, chairman of number of educational institutes and chairman of sugar factory. Owing to his inert desire and drive, the trust could establish and start Polytechnic and Engineering colleges which have achieved remarkable success in a short period of time and has a dignified place in the minds of people. Social commitment, innovative and visionary approach, creativity and the urge to maintain quality is the secret of this success.

The trust is successfully running educational institutions starting from a Polytechnic since 1990 with credible reputation & glorious record in academics, sports, cultural & industrial circle.



## Board of Trustees



**Shri. Dnyaneshwar P. Landge**  
Chairman



**Smt. Padmatai M. Bhosale**  
Vice - Chairperson



**Shri. Vitthal S. Kalbhor**  
Secretary



**Shri. Shantaram D. Garade**  
Treasurer



**Hon. Shri. Harshavardhan S. Patil**  
Trustee

A trusted name in the field of education, the Trust is outcome of long standing public demand of having a technical institution in this industrial area to provide an opportunity to those students who cannot for obvious reasons, afford this type of education elsewhere.

Pimpri Chinchwad Education Trust (PCET) was established by Late Shri. S. B. Patil in the year 1990 with a vision to provide value added educational platform to society in multiple dimensions right from Nursery to Doctoral programs in all professional streams enabling all our students to achieve Freedom through Education.

Situated at a very approachable location near Akurdi Railway Station, Nigdi, Pune, PCET is a well-established and time tested brand in Education since 1990. The trust successfully runs many quality educational institutions in the fields of engineering, management, architecture and science. These are spread over an area of more than 10 acres and a community more than 5000 students. The complete campus is well equipped with all latest infrastructural facilities, Sports facilities, spacious lawn and hostel facility for boys and girls SBPPS begins to operate at Ravet, Pune, from the current academic year 2012-13 with classes from Nursery to Std. IV.

# INDEX

Sr No.	Particulars	Page No.
1	Principal's Desk (Message)	3
2	Vision , Mission and Quality policies of Institute	4
3	Magazine committee (Editorial Staff and Students)	5
4	Department of First Year Engineering Vision & Mission	6
5	F.E HOD Message & Toppers of F.E. A.Y.2019-20	7
6	Product developed & Article on Electrical Vehicle by F.E	8-9
7	Art Circle Activities by F.E	10-12
8	Art & Craft by F.E. & PBL Poster Competition	13-14
9	First year Induction Activities	15-17
10	An interview with Dr. Harish Tiwari by Pratyasha	18-19
11	Department of Civil Engineering Vision, Mission & HOD Message	20
12	Civil Dept. Magazine coordinators & Toppers of Civil	21
13	Product developed by Civil Department	22
14	रात्र, जीवन, आपली नाती by Students of Civil	23-24
15	Event & Activities by Civil Department	25-26
16	Art Gallery by students of Civil Department	27-28
17	Department of Computer Engineering Vision, Mission & HOD Message	29
18	PEO of Dept. & Toppers of Computer Engg.	30
19	Event, workshops & Activities by Computer Department	31-36
20	Paintings & Sketches by students of Computer Engg.	37-38
21	Department of Mechanical Engineering Aims & HOD Message	39
22	Vision, Mission of Mechanical Dept. and Toppers of Mechanical	40
23	Product Developed by Mechanical Engineering	41
24	Training & Placement of Mechanical Engg.	42
25	Patent filed by Staff & Guest Lectures by Mechanical	43
26	Questionnaires for Students	44
27	Event & Activities by Mechanical	45
28	An Interview with Dr. Balchandra Pujari by Students of Mech (Online)	46-48
29	Poems By Mechanical Students	49-52
30	Painting , Sketches & Photography by Mechanical Students	53
31	Department of E & TC Engineering Vision, Mission & HOD Message	54
32	About E&TC & Toppers of E & TC Engineering	55
33	Wall Magazine & Induction Programme E&TC	56
34	Workshop, Event, Activities by E & TC	57-63
35	Painting, Sketches & Photography by students of E & TC	64-66
36	Expression 2020	67-68
37	मराठी राजभाषा दिन सोहळा वृत्तांत	69
38	Conference on Indian Patents, Copyrights, Innovations and Startups (CIPCIS 2019)	70-72
39	NSS Activities	73-79
40	Administrative staff, Housekeeping & Security Staff of PCCOER	80
41	Library Information	81
42	Training & Placement Cell Details	82-85
43	Patent filled Information in A.Y. 2019-20	86-88



# Principal's Desk

P  
C  
C  
O  
E  
&  
R

India today stands as world's third largest economic power, its economy growing at around 8%, Indian Entrepreneurs emerging as global entrepreneurs, Indians figuring increasingly in the list of the richest persons in the world, India's knowledge power making India as a preferred destination for out sourcing knowledge services from India, India fast emerging as a destination for world class R and D Centers and Innovation hub. Young friends, these are the signs of even a brighter tomorrow for India and its people. You must, therefore, be highly excited to make your own contributions to the growth and development of India of your dream. At PCCOER, we have a tradition of nurturing leadership qualities alongside developing capabilities to challenge the state of art technologies. This we do by inspiring you to involve into a whole lot of innovative projects being pursued by the inspired student community under the guidance of their faculty mentors.

Let you empower yourself with the Wings of Knowledge and Power of Innovation and with this Empowerment imbibe an attitude akin to a positive and proactive thinking, caring concern for men and nature and above all, an eagerness to serve and excel in our chosen domain of activity throughout your lifetime.

I wish you a very happy and academically highly rewarding student life in PCCOER and hope that you will be your good deeds enhance the pride and prestige of this prestigious institution.

**Prof. Dr. Harish Tiwari**  
**Principal PCCOE&R, Ravet**



To be a Premier institute of technical education & research to serve the need of society and all the stakeholders.



To establish state-of-the-art facilities to create an environment resulting in individuals who are technically sound having professionalism, research and innovative aptitude with high moral and ethical values.



## QUALITY POLICY

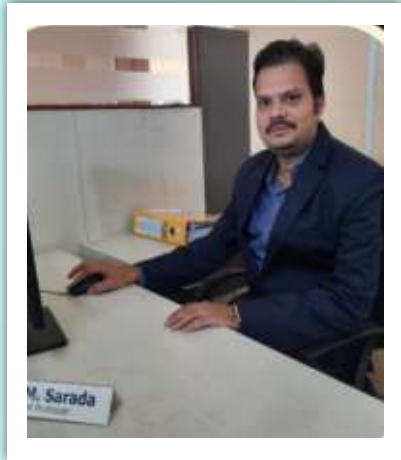
We, at PCCOE&R, are committed to:

- Develop as premier institute of technical education & research as per the needs and expectations of all stake holders.
- Comply all applicable requirements.
- Continual improvement in infrastructure and quality management system.

We shall strive to maintain conducive learning environment and student's overall development with high moral and ethical values.

# Magazine Committee

## Editorial Staff



**Prof. Mahesh Sarada**

First Year Engineering  
Department



**Prof. Kishor wane**

E & TC Engineering  
Department



**Prof. Tejal Patil**

Mechanical Engineering  
Department



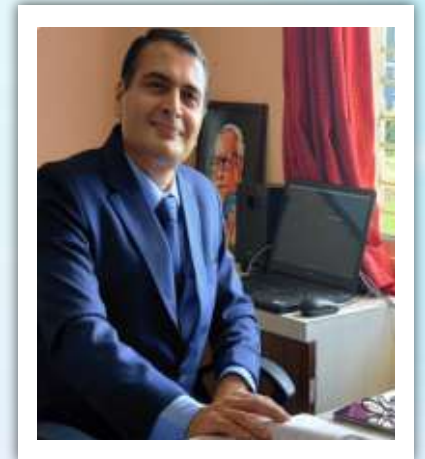
**Prof. Anuja Bhondve**

Computer Engineering  
Department



**Prof. Nidhi Khare**

Civil Engineering  
Department



**Prof. Dr. Sameer Sawarkar**

HOD Civil Engineering  
Department

## STUDENT EDITORS



**Akshay Raskar**  
Mechanical Dept



**Ameya Mahamuni**  
Mechanical Dept



**Aishwarya Taru**  
Civil Dept



**Sushant Balgude**  
Civil Dept

# Department of First Year Engineering



## VISSION

To introduce students to the world of Engineering, inculcate a multidisciplinary approach, establish a sound foundation in technical education, develop research orientation and contribute in character building based on strong ethics and values.



## MISSION

- ☞ To impart quality education in various streams of engineering and science.
- ☞ To ensure students' thorough understanding of the subject matter and to hone their learning
- ☞ with disciplined practices. To provide the best environs for nurturing creative minds.
- ☞ To inculcate an integrated approach towards learning along with research orientation.
- ☞ To provide training in the area of mental, spiritual growth, sound health, good conduct and communication for students which shall be based on our values and ethics.





## From The H.O.D Desk

Prof. Sonali Kanase

Department of First-Year Engineering is to introduce students to the field of engineering by means of introductory courses in electrical, mechanical, civil, electronics and computer engineering. The department also trains the students in basic sciences of physics and chemistry, and techniques of mathematics which enable them in tackling various problems in engineering and technology. To meet the essence of this goal, we have a team of dedicated faculty who constantly strive to impart quality education through close monitoring of the student's academics and self-improvement. The department has well-furnished laboratories with state of the art instruments. It includes Engineering Physics Laboratory, Engineering Chemistry Laboratory, Department of Mathematics, Basic Electrical Laboratory, Basic Mechanical Laboratory and well furnished CAD-CAM and Computer Laboratories

## F.E TOPPERS

A.Y. - 2019-20



**THOMBARE PRATIK**  
SGPA 9.61



**MAHESH KOPE**  
SGPA 9.36



**SHOVIN KAUL**  
SGPA 9.32



**DUSANE ANUSHKA**  
SGPA 9.39



**DARSHANA BHAVSAR**  
SGPA 9.48



**SREENIDHI BENDRE**  
SGPA 9.34



**SNEHA PUJARI**  
SGPA 9.30



**ADITI INGLE**  
SGPA 9.36



**PRANITA BHOSALE**  
SGPA 9.30



**TONAPE SHRINIWAS**  
SGPA 9.20

## PRODUCT DEVELOPED UNDER PROJECT BASED LEARNING

### AUTOMATED TAP BASIN

Neel Gandhi,  
Raj Girase & Harshal Golhar

### SOLAR BATTERY CHARGER

Ayush Kedari, Gayatri Kharche,  
Shreyas Kuge, Shrenalini  
Nambiar & Vaishanvi Patil

### PARKING SENSOR MACHINE

Pisale Prathamesh, Kope  
Mahesh, Tejas Naik, Mayur Patil,  
Kapare Shreyash, Kale Sanket

### KIDS HOBBY RECOMMENDER SYSTEM

Rampurawalla Abduttayeb, Sneha  
Pujari, Thawal Siddhi, Thorat Chetana,  
Bhushan Munot and Jui Pangare

### PCCOER NEWS LETTER

Saurabh Chintanwar, Parth Dhake,  
Piyush Ingale, Agam Bothara

### SOLAR AGRO SPRAYER

Yash Lohar, Pranav Biradar, Saurabh  
Madane, Nikhil Biradar, Nitesh  
Biradar

## Have you ever experienced - LUCID dreaming?

A lucid dream is a dream during which the dreamer is aware that they are dreaming. During a lucid dream, the dreamer may gain some amount of control over the dream characters, narrative, and environment; however, this is not actually necessary for a dream to be described as lucid. Lucid dreaming has been studied and reported for many years. Prominent figures from ancient to modern times have been fascinated by lucid dreams and have sought ways to better understand their causes and purpose. Many different theories have emerged as a result of scientific research on the subject and have even been shown in pop culture. Further developments in psychological research have pointed to ways in which this form of dreaming may be utilized as a form of sleep therapy. The term lucid dream was coined by Dutch author and psychiatrist Frederik van Eeden in his 1913 article A Study of Dreams, though descriptions of dreamers being aware that they are dreaming predate the article. Eeden studied his own dreams between January 20, 1898, and December 26, 1912, recording the ones he deemed most important in a dream diary. 352 of these dreams are categorized as lucid.

Though lucid dreaming can be beneficial to a number of aspects of life, some risks have been suggested. Those who have never had a lucid dream may not understand what is happening when they experience it for the first time. Individuals who experience lucid dreams could begin to feel isolated from others due to feeling different. Some people may experience sleep paralysis. A person usually experiences sleep paralysis when they partially wake up in REM atonia, a state in which said person is partially paralyzed and cannot move their limbs. When in sleep paralysis, people may also experience hallucinations. Although said hallucinations cannot cause physical damage, they may still be frightening. There are three common types of hallucinations: an intruder in the room with you, a crushing feeling on your chest or back, and a feeling of flying or levitating.

Shrinivas C. Tonape  
FE-Mech Year: 2019-20

# ELECTRIC VEHICLES THE FUTURE IS HERE!!!

The electric car has been a hot topic for the last few years. The development of the electric car is everyday news. In every form of media there is a link to the effects of the electric car or its development. Today, the competition between electric powered vehicles and fuel powered vehicles strikes again. Who will be the winner now? Will the electric car eventually substitute the regular car? BY SHRINIWAS C. TONAPE F E - M E C H Y E A R : 2 0 1 9 - 2 0 ARTICLE Contributing to a better climate is now one of the most important concerns in the world. We can't avoid the fact that the climate is changing. Therefore we need to look for alternatives to fight these environmental problems like air pollution and global warming. Electric cars produce zero emissions, so they don't contribute to air pollution at all. Besides air pollution, they also make no sound, so they don't contribute to noise pollution either. One of the biggest disadvantages is that the electric car is in a highdollar prototype stage. Car producing companies have to do many research and many tests to find a way to develop these electric cars. The electric cars also have to meet the safety requirements, just like the regular cars. This requires even more research and more investments from car companies. One of the reasons the combustion engine won the competition a few decades ago, was that it would only take a few minutes to refill your car with gasoline. Refilling an electric car took half a day. Eventually, with all the new technologies there will be a solution to expand the range of your inexpensive car batteries and speedup its recharge time. But driving an electric car is completely useless if you won't be able to recharge your car batteries. Times are changing and so is our climate. The use of limited fossil fuels has changed our environment and we need to search alternatives to generate and use energy. The electric car is making its comeback. The age of technology is upon us and we are able to find a solution for every possible disadvantage. Soon we will be able to make an environmental friendly car with the convenience of a combustion engine powered car.



# Art Circle Activities



## ELOCUTION COMPETITION 2020

Mr. Chinmay Jagtap and Ms. Samrudhi Deokate received Dr. Arvind Telang Trophy in Inter College Elocution competition on 14th January 2020

## ALL INDIA ESSAY COMPETITION

All India Essay competition was conducted by Shree Ram Chandra Mission in collaboration with United Nations information centre for India and Bhutan and Heartfulness Education Trust. The competition was conducted at two levels National level and Regional level. Ms. Snehal Murlidhar, a student of our college got the 9th rank in State level in the Heartfulness essay event held on 19th September, 2019.



## GADKARI KARANDAK 2019-20

Every year Ram Ganesh Gadkari Karandak is held at Ramkrishna More auditorium. Pimpri Chinchwad College of Engineering and Research Ravet had participated in the same. This was a district level competition. This gives the students an opportunity to understand the different cultural fields of theatre. It is an opportunity for the students to test their accomplishments at the district level. The Gadkari Karandak 2020 was held on the 20th of Feb 2020, 23 Students participated and Ms. Shruvani pulliwar got consolation prize for acting.

## YUVAK MAHOTSAV ORGANISED BY SPPU

The District level Intercollegiate Youth Yuva Mahotsav 2019 was held from 05/11/2019 to 06/11/19. The Pimpri Chinchwad College of Engineering and Research Ravet had proved their mettle and won prizes in it. Theatre



# Art Circle Activities



## COEP IMPRESSION 2019-20

Our college students participated in COEP Impression at COEP college and Mr. Rahul Zodabge secured the second prize in Rap song.

## FILMMAKING WORKSHOP

Filmmaking Workshop was organized by Art Circle on 07/02/2020 to 09/02/2020 Mr. Sanket Patil was an expert for the workshop. In this workshop students learnt various ways to analyze story structure and script writing process. 45 interested students attended this workshop



## FIRODIYA KARANDAK 2019-20

Theatre is a collaborative form of Fine Arts that uses live performers, typically actors or actresses, to present the experience of a real or imagined event .PCCOE&R students participated in the Firodiya Karandak 2020 which was held on 3rd Feb 2020 at Anna Bhau Sathe Auditorium, Bibavewadi. It was a team of 29 students. It included live actors, sound men, Backstage and a student representative. The performance was well executed and appreciated by the audience

## MARATHI BHASHA DIWAS

Marathi Bhasha Diwas organized by Art Circle on 28/02/2020. On this occasion various competitions like Essay writing, Debate, Elocution, and Poem etc were held in seminar hall of PCCOE&R 80 students participated. This event encouraged students to learn the state language as well read and understand literary works and communicate it.





Art circle organized various competitions like Art and Craft Exhibition, Mehandi Competition, Hair style Competition and Food without fire competition on 12/02/2020 in PCCOE&R. To enhance creativity and imagination in the field of art. After the completion of events Students gain valuable life skills by working as a team and students for showcase skills of extracurricular activity. 30 students participated and gained confidence by presenting and speaking about their skill. Art Circle of PCCOE&R organized an Art Contest digital competition for students during the COVID-19 pandemic. This competition was Inter College and the theme was COVID-19 AWARENESS which was held on 07/05/2020 to 20/05/2020. Art gives us hope, purpose and a desire to see a future beyond these difficult times. Participants took great interest in showing their creativity and uniqueness in their drawings. Students displayed valuable skills while participating in this competition that boosted their innovative skills, imagination power and many more skills in a unique way.

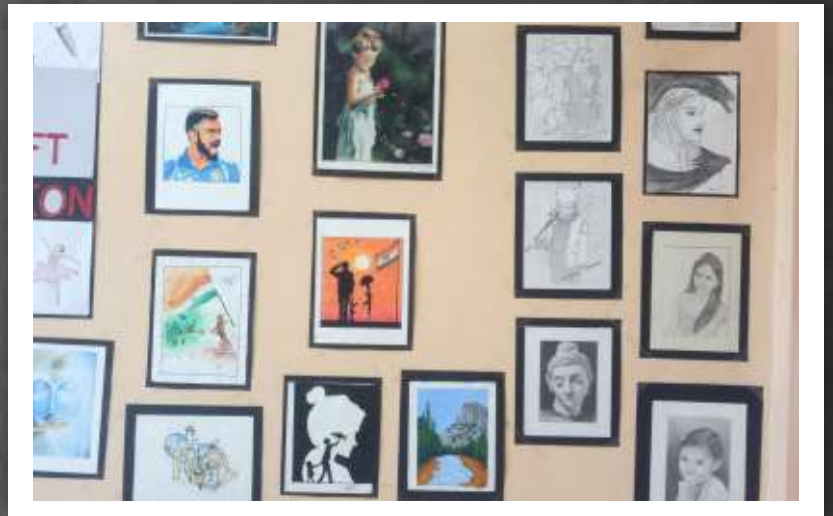
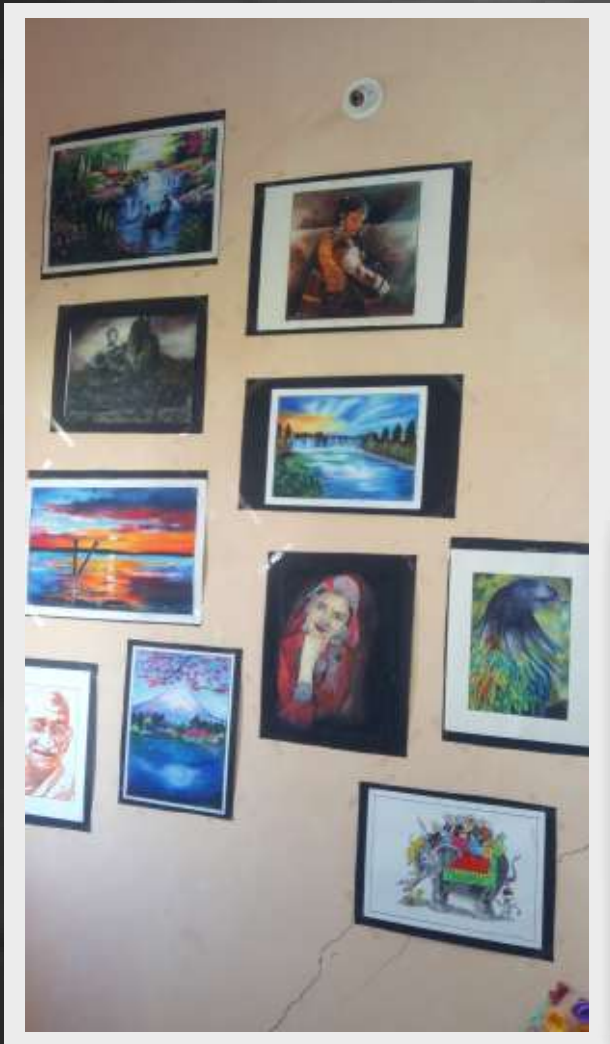


Antakshari competition was organized by Art circle on the 13 of Feb. 2020 for students and faculties. This competition improved team spirit among the students and created an enthusiastic environment

Antakshari competition was organized by Art circle on the 13 of Feb. 2020 for students and faculties. This competition improved team spirit among the students and created an enthusiastic environment



# Art & Craft



Paintings By Prof. Priya Oghe



Paintings By Prof. Priya Oghe

# First Year PBL Poster Competition 2019-20



## Competitive (UPSC) exam session 3rd February 2020



Shri Hrishikesh Patki, IRS, cleared his UPS Cin 2014 and joined in the Department of Income Tax. Currently, he is Deputy Commissioner of Income Tax at Corporate Circle, Bangalore. Patki Sir guided student about how to set goals and priorities. He Shared His xperience About His hobbies and extracurricular activities. shared his methods and journey of preparation for UPSC exams. Student sinteracted with him with their questions.

## Motivational Session by Mr. Will Harris 27th February 2020



Amotivational session was conducted by Will Harris. Mr. Will Harris is an intention all author, consultant and motivational speaker. He works in social development all over the world in many countries. He conducted the session about how to increase the self confidence of students. He talked about how to working in a group improves ones performance. He shared his own examples about successes and failures in life and how too overcome obstacles

## Visit to NSS Camp –10th January 2020



On the 10th of January 2020, the students of First Year Engg. Visit PCCOER NSS cam pheld at Village Mauand Vadeshwar in Maval Taluka of Pune District. The Aim of the visit was to in produce students to social work and to make student saware of the difficulties faced by rural India.

## Workshop on Mind Power & Confidence Building 8th January 2020



On the 8th of January, a workshop on the power of mind and confidence building was conducted. The aim was to convert your power into action. With this students were trained to set and achieve your goal and can turn dreams into reality. An interactive session was conducted to help students enrich their confidence. The session began with the ability to set and achieve goal and can turn dreams into reality. The students learnt to control their stress and maintain the mental harmony.

## Session on Human Values –9th January 2020



On the 9th January 2020 a session on Human Values was conducted by Learning Avenue–Mrs. Shilpa Sandhane and her team. It was conducted with an aim to enrich the concept of Human Values, virtues that guide us when we interact with other human beings. Human values are, for example, respect, acceptance, consideration, appreciation, listening, openness, affection, empathy towards other human beings.

## Workshop on Mind Education –13th January 2020



On the 13th January 2020 an interactive session was conducted by Mrs. Ha M in a Mind Education specialist International Mind Education Institute (IMEI) South Korea. It was conducted with an aim of learning many things like how to decide our goals, how to work on it, how to set up your mind set to do all these things. Students also conducted stress relief with dance performance.

## Words Maya Session –9thJanuary 2020



On the 9th January 2020 a Words Maya session was conducted by Mrs Swapnila Jawale. It was conducted with an aim to help students with the essentials of Communication Related To Pronunciation Related to culture and overcome the barrier and enhance the ability to speak fluently. Words Maya is Govt. of India recognized startup under Startup India' mission and recently incubation and seed funded by IIM Calcutta Innovation Park.

## Body and Mind Education –8thJanuary 2020



On the 8th January 2020 a session was conducted by Dr. Rajendra More and Dr. Amita Golande. It was conducted with an aim to address the Physical, Emotional, Intellectual and Spiritual Quotients. Students interacted with the speakers on various topics like evolve daily routine of physical activity with games and sports, healthy diet and healthy lifestyle, etc.



Utilize the free time wisely, as time ones gone will never come back, suggests Dr. Tiwari



[Satyam Purwar](#)  
Content Curator



## Interview By Pratyasha

**DR. Harish. U. TIWARI**

Principal,

Pimpri Chinchwad College of Engineering & Research

Principal of Pimpri Chinchwad College of Engineering and Research, Ravet Pune (PCCOER), Dr. Harish Umashankar Tiwari, is the men behind the success and achievements of the college. He holds a B.E., M.E., and Ph.D degree, and has published nine research papers in various national and international journals. Apart from this, the academician has been accolated with National Gandhian Young Technological Innovation National Award at IIM Ahmedabad and Innovative Leader National Award by Jaihind Pariwar Bharat at Pune.

In an exclusive interview with [collegedunia.com](#), Dr. Tiwari shares his journey towards the education industry and talks about PCCER.

### The journey from being a Professor to Principal

From a very young age, I wanted to be a teacher but to teach in an Engineering Institute one should have some practical industrial experience also, so I spent some initial years in the industry to gain valuable industrial experience. After passing my post-graduation, I received various job offers, but I decided to pursue teaching. However, it requires authority and command over the subject to gain appreciation and respect. My passion has always driven me to work with young minds and talents.

After working for Eighteen years in teaching field at Finolex Academy and Pimpri Chinchwad College of Engineering, Nigdi, Pune, I got an opportunity to serve as a Principal, which provides a platform to contribute and implement my ideas on a bigger scale. Since then, I am working and trying to bring positive changes to the Institute. And it gives me immense pleasure to see the students and institute achieving and moving to such great heights.

### Building a positive culture among students

In an educational institution, it is necessary to identify and satisfy the needs of the faculty and the students at large. To maintain a positive environment, we have developed an Echo system to support and solve the requirement of better Placement opportunities and Higher studies.

Does This College Suit You? Start With Application

Apart from this, we all make it a point to exclude communication gap between the students and the faculty. Various sessions, events and workshops are organised, to make the interaction between all the individuals impactful and healthy. The focus is outcome based i.e. to prepare and transform students as per their own aspirations.

### Philosophy and Leadership style of Dr. Tiwari

I believe in the decentralization of power while working in a team. As an administrator, my responsibility is to provide my team with a defined system, to help them execute their ideas and plans on a micro-level. As a leader, I always motivate my subordinates to achieve and contribute more to the growth of the Institute. The ideal target is to build a system, which can move on an auto pilot mode.

Discipline, Consistency and Patience are important aspect, which helps to achieve common goals!

### Views on the faculty and students of PCCOER

We follow a two-fold approach in our underlying five pillar philosophies, which is Academic excellence, Research, and innovation, Training & Placement, Social awareness, Ethics & values. When we say academic excellence, it is for both students and faculty members. All faculty members are highly experienced and well qualified. They have been trained to update the students with recent trends and knowledge.

Faculty members of the Research and Innovation Centre are striving hard to provide project-based learning to the students. In this way, the development of faculty, as well as excellence in academic standards, is achieved.

### Curriculum practices and placement opportunities at PCCOER

The curriculum of the Institute is dynamically mapped with the ongoing and upcoming requirements of the Industry. Savitribai Phule Pune University assists the board members in planning and executing the curricular plans. The college has additional courses in association with various Industries and experts to provide the students with the required exposure. Apart from this, we assure to hold regular workshops, seminars and guest lecture to keep the students as well as faculty updated with the real-world scenario.

### Upcoming goals for the Institute

As an educational institution, we are responsible for the overall development of our nation. If we talk specifically about the Engineering sector, we are promoting Research and Innovation culture. The agenda behind this promotion is the development of entrepreneurial skills among the students.

We are developing an Echo system wherein they will be able to convert their projects into new products. The college will emerge as a leading force in the field of Research & Innovation in the coming future.

## Advice to the Millennials

IN the Present-day scenario, everyone can access the resources very easily. My only advice to all the people especially students are use to use the recourse and their time wisely . the time once gone will never come bnck

# Department of Civil Engineering



## VISION

To be the spearhead of Civil Engineering Education, imparting exhaustive know-how to create proficient and accomplished global technocrats.



## MISSION

- M1. To upgrade continuously, to develop state-of-art laboratories and advanced computational facilities and be ever resourceful to disseminate contemporary knowledge.
- M2. To inculcate the zeal for research and innovation and to improve the quality of education and research.
- M3. To enforce rigorous appraisals so as to identify strengths and key competencies.
- M4. To enhance industry interaction to develop competent entrepreneurs and employable professionals.
- M5. To cultivate ethics, social awareness, soft-skills and appreciation for cultural diversity to evolve a truly global community.



*From the H.O.D Desk  
Prof. Dr. Sameer Sawarkar*

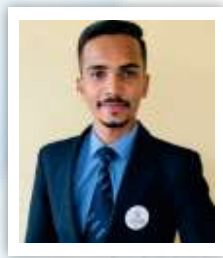
Civil Engineering has to do with Civilization! With Civilization has developed Civil Engineering and with Civil Engineering has prospered Civilization! It is easily the oldest branch of Engineering. When the first human form thought of taking refuge in a cave, Civil Engineering was borne. Every man-made structure in this world is conceived, designed, constructed and maintained by Civil Engineers. A Civil Engineer is thus Vishwakarma of the modern world! Civil Engineering is very versatile and diversified. It has many sub-disciplines such as; Structural Engineering, Water Resources Engineering, Environmental Engineering, Transportation Engineering, Foundation Engineering, Earthquake Engineering, Construction Engineering, Project Management etc. Civil Engineers could be entrepreneurs, offering consultancy to projects on varied scales. Civil Engineers could seek employment in Government, Semi-government and Private sectors, contributing to the growth of nation with their skills and services. Civil Engineering Department at PCCOER has experienced, dynamic and dedicated faculty and state-of-art laboratories. We nurture our students with strong scientific and technical know-how and impart critical thinking skills on which, are

founded their careers or higher studies. We endeavour to inculcate in our students, professional attitude, ethical values, creativity, leadership, innovative thinking, effective communication, team work, multidisciplinary approach and social awareness. The Department is (20) committed to fostering a stimulating and intellectual environment in which both faculty and students excel in their professions.

## MAGAZINE CO-ORDINATORS



Mrs. Nidhi Khare  
Incharge



Mr. Soham Mancharkar  
Editor



Ms. Aishwarya Taru  
Member



Mr. Sushant Balgude  
Member

## ACADEMIC TOPPERS 2019-2020



DHORE SHUBHAM  
CGPA 9.48



KOLHE PRACHIL  
CGPA 9.38



LANDE SNEHAL  
CGPA 9.3



JAGTAP KUNAL  
CGPA 9.26



CHAVAN VAISHNAVI  
CGPA 9.20



SANKET V. CHAUDHARI  
CGPA 9.91



PAWAR PRANAV  
CGPA 9.39



BALGUDE SUSHANT  
CGPA 9.24



PADMAVAR AMRUTA  
CGPA 9.17



DEVSHATWAR  
SUDARSHAN  
CGPA 9.15



KEDAR APURVA  
ASHOK  
CGPA 9.18



PRASAD ASHISHKUMAR  
CGPA 9.09



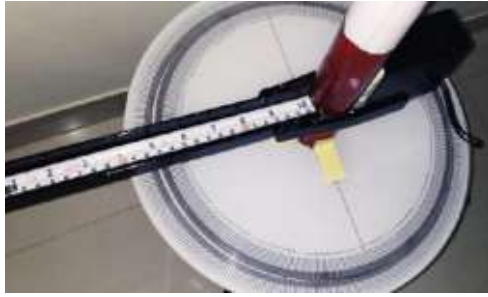
SHARMA AARTI  
CGPA 9.00



KARANJKAR JAYESH  
CGPA 8.82



TATIYA JAYESH  
CGPA 8.82



**Product Name: Instrument for Time Optimization in Traditional Surveying**

Guide Name: Mr. Akash G. Gunjal

Description: Instrument is able to perform basic surveying functions like ranging, angular measurements, linear measurements, level differences simultaneously



**Product Name: Concrete curing pad**

Guide Name: Mr. Anand B. Kudoli

Description: Light weight curing pads save lot of water that required for curing of RCC elements like slab beam column



**Product Name: Smart System of Recycling purewater at any drinking unit**

Guide Name: Mr. Anand B. Kudoli

Description: The system saves treated water by R.O. and again feeds back to cooling unit.



**Product Name: Compact Sewage treatment plant.**

Guide Name: Mr. Sudarshan S. Bobade

Description: compact sewage treatment plant which is designed for a capacity of 200 Litre. This compact plant treats water from toilets, bathrooms and makes it

**BRITISH COUNCIL**  
EnglishScore

This is to certify that

**Ruby Oomman Varghese**

has achieved CEFR B2 in a test of English Proficiency

**425**

Grammar 419 Vocabulary 473 Listening 416 Reading 433

**CEFR B2 - Upper Intermediate**

Valid from 06 Jul 2020 to 02 Jun 2025

Use code Y5887646 at englishscore.com/verify

**Joanna Pearson**  
English & Exams, Director of New Product Development  
British Council

Accredited and endorsed by

**BRITISH COUNCIL** **ESSE** **ESkill India** **FICCI**

**What does the EnglishScore mean?**

**425**

EnglishScore

160-179	A1	A2	B1	<b>B2</b>	C1
---------	----	----	----	-----------	----

CEFR level

0	4	4.5	5	5.5	6	6.5	7	7.5	8
---	---	-----	---	-----	---	-----	---	-----	---

Compare CEFR to IELTS\*\*

4.5	5.5	6.5
-----	-----	-----

Compare CEFR to TOEFL iBT\*\*

42	72	88
----	----	----

**At this level you:**

- Can understand standard spoken language, live or broadcasted on both familiar and unfamiliar topics normally encountered in personal, social, academic and vocational life. Only extreme background noise, inadequate discourse structure and/or idiosyncratic usage influence the ability to understand.
- Can understand the main ideas of professionally and linguistically complex speech on both concrete and abstract topics delivered in standard speech, including lectures or discussions in your field of specialisation.
- Can follow extended speech and complex lines of argument provided the topic is reasonably familiar, and the structure of the talk is sign-posted by explicit markers.
- Can read with a large degree of independence, adapting style and speed of reading to different texts and purposes, and using appropriate reference sources selectively. You have a broad active reading vocabulary, but may experience some difficulty with low frequency items.



SE: 2019-2020

I think I think lockdown has taught so much to everybody.. The thing which happiness which I was scared the most now giving me the most happiness

& I'm & i.e. being Alone!!... Now I'm doing the things for myself.. I'm happy happy with what I'm doing, I'm Happy I'm enjoying my own company, I'm Happy With u With Who I Am.. Don't think own think why our happiness be depend on someone else it is our own stuff own stuff it should be depend on one & only one person i.e. our own self.... self....

Bcoz of lockdown I'm newly fallen in love!!

In love In love with the night moon, in love with the cloudy sky, in love with little with the Tulsi plant which I waters daily, in love with the little kids of kids who plays in my house yard, in love with the characters of book that book which I'm currently reading, in love with the breeze that slowly with slowly touches my cheeks, in love with my writing, in love with chanting exists chanting birdsss.... Now u will think all this things already exists what beautiful what is the role of lockdown?

Bt have we noticed this beautiful things to things before? the answer is No!! Lockdown made us so free to observe observe all these pretty stuffs!!!!!!

Now to Now we can only pray to god & should follow the rules of govt. to safely safely walk out from this world destroying disease....

# रात्र

निर्मल स्वच्छ असे हे आकाश  
त्याला लाभली चांदण्याची साथ  
चहूकडे पसरताच शांतता  
रात किड्यांची येई वार्ता  
चाहूल लागतच वान्याची  
प्रश्न सुटती या मनाची  
थकवा आला असला कितीही शरीराला  
विसर पडी बघताच चंद्राला  
सुंदर अशी हि रात्र  
काही तासांपुरतीच असते मात्र  
डोके उघडताच मग सुरवात होते एका नवीन दिवसाची  
मग मनात किरण फुलते एक आशेची  
रूप काही शिकवण देऊन जात असते रात्र  
आपण आहोत फक्त एका नाटकाची पात्र.....

रुचा

# जीवन

आपण सर्व ना एका वेगळ्याच दुनियेंत जगतों, जी कि आपली कधीच नसतें. आपण अश्या गोंष्टीसाठी वेळ वाया गमावतों, कि त्या आपल्या कधीच नसतात. दुसऱ्यांच्या विचार करता करता आपण स्वतःला कधीच विसरतों समजतच नाही. आपण या जगात एकटेच आलों आणि एकटेच जाऊ. लोक येतील, रडतील व सांत्वना देवुन विघून जातील कोणी आगीत उडी मारणार नाही भावना असणं चांगलं आहेंत पण भावनांच्या आभावाखाली दबन हें मात्र चुकीचंच. आपण अश्या मनात ऐकतों कि जें अस्तित्वातच नाही या दुनियेंत आपण स्वतःला कधी ओळखलंच नाही लोक आपल्याला जज कधी करतात जेव्हा त्याच्याकडे सांगण्यासारखं काही नसत कधी स्वतःला दोन मिनिट द्या, आपण कोण आहेंत आणि काय करतों. दुसऱ्यांसाठी हसण्यापेक्षा स्वतःसाठी कधी हसा, रडा, जगा कोण काय बोलेल याचा विचार करु नका लोकांच कामच असत बोलणं तें ती गोंष्ट निमूटपणें करतीलच जर कोणाशी बोलायच नसेल, सोबत जायचं नसेल तर नका बोलू नका जाऊ त्याना खराब वाटेल असा विचार करु नका जबरदस्ती केलेंल कोणताही काम व्यवस्थित होत नाही अरें दुसऱ्यांसाठी जगण्यापेक्षा स्वतःसाठी एक दिवस जगा बघा नक्कीच आनंद मनासारखा मिळेल

# आपली नाती

कधी कधी आपण एवढे समोर विघून जातों आपल्या सोबत असणारी, नेहमी आपल्या सुखदुखात साथ देणारी आपली माणस कायमची मागे सुटून जातात मग आपल्याला त्याची तेव्हा गरज भासत नाही कारण आपण तेव्हा एका नवीनच दुनियेंत असतों.

अशी दुनिया कि जी आपल्या स्वप्नात असतें, आपल्याला हवी हवीशी वाटणारी. त्या दुनियेंच्या चकचकीत आपल्याला कुठेतरी भूल पडलेली असतें कि आपण मागे आपलं सर्वस्व राहू दिलंय. तिथे आपण बेभानपणे वावरत असतों, आपल्याला काहीच ठाऊक नसतें की आपल्या आजूबाजूला काय चालूयें. हळूहळू जसे दिवस मागे उलटत जातात तसा आपल्याला आपला एकटेपणा जाणवायला लागतों. जेव्हा आपल्याला कोणाची गरज असतें तेव्हा आपल्या जवळ कोणीच नसतें.

मग आपल्याला आपलें जुने दिवस आठवायला लागतात तें आठवून आपल्या चेहेऱ्यांवर एक स्मितहास्य येतं तें असत आपल्या नात्याचं, आपल्या माणसाचं सर्व काही विसरुन आपण परत जातों तेव्हा आपल्याला माहिती पडत कि आपण मागे न बघता समोर विघून गेलों पण आपली नाती तिथंच उभी आहे आपली वाट बघत गरज असतें फक्त एका प्रेमाच्या हाकेची मग सुरुवात होतें आपल्या एका नवीन आनंददायी आयुष्याची.....



## Name of Event -Tree Plantation Event at Dehu-road Police station

Trees contribute to their environment by providing oxygen, improving air quality, climate amelioration, conserving water, preserving soil, and supporting wildlife. A small step towards making our surroundings green was taken on 13th August at Dehu-road Police station. Number of saplings was planted in the backyard of the station of different trees. Teams of various police officers with our dedicated students were made to distribute the saplings throughout the area. Saplings of trees like mango, neem, awala fruit and lemons. This step for ensuring a greener environment for the future generations was appreciated by the highly ranked police officers and they ensured us that good care will be taken of the newly planted saplings.



## TEACHER'S DAY

Teacher's day was celebrated with great joy & enthusiasm on 5th September, 2019. Teacher's Day was celebrated on account of the birthday of Sarvepalli Radhakrishnan, an educationist, and also the vice president of India. A good teacher can inspire hope, ignite the imagination and instill a love of learning. Civil Engineering Student Association is always trying to follow Indian culture and spiritual path. It was great day for all students as we were thankful, showing our gratitude towards all our teachers. Honorable principal Dr. Harish Tiwari was Chief Guest for this event. It was a small event in which we arranged some games for Teachers in which they participated with great enthusiasm. Student coordinators expressed themselves through speeches and poems. Overall, this program resulted in strengthening the strong bond between students and faculty members.

## NEERI EDUCATIONAL VISIT2019-20

Trees contribute to their environment by providing oxygen, improving air quality, climate amelioration, conserving water, preserving soil, and supporting wildlife. A small step towards making our surroundings green was taken on 13th August at Dehu-road Police station. Number of saplings was planted in the backyard of the station of different trees. Teams of various police officers with our dedicated students were made to distribute the saplings throughout the area. Saplings of trees like mango, neem, awala fruit and lemons. This step for ensuring a greener environment for the future generations was appreciated by the highly ranked police officers and they ensured us that good care will be taken of the newly planted saplings.



## BIM GUEST SESSION



Mr. Amitabh Patni, (Co-founder at Stalwart BIM Studio) A guest session was held by the Department of Civil, to enhance the software skills of the students. Mr. Amitabh Patni, Co-founder at Stalwart BIM Studio, introduced the BIM Model and Revit Model. He explained in detail the benefits of handling the software. The future scope of BIM in the field of civil engineering was also shared and inspired us to gain more knowledge of this new method. This session turned out to be a major guidance for students to adapt to new technological advancements in the field of civil engineering.

## CONSTRO VISIT

Constro visit was organized on 17 th January 2020. Constro Pune is one of the biggest shows of building materials, methods and machinery under one roof. The event unleashes multiple business opportunities to participate in as a result of shared know-how during the event. It is an information hub of rapid developments in the industry and also a launch-pad for many new services and technologies in the Construction Industry. About 85 students visited this Constro. This visit gave a huge knowledge including design & drawing aids, automation products, office equipment, furniture, computers, software packages, surveying & leveling instruments, construction materials, chemical additives, sealants, finishes, sanitation, water supply, landscaping, fountains, transportation, power generation, power transmission, Construction & allied, non-conventional energy & energy conservation, material testing equipments, water resource management etc



## UNDER YASHWANTI TREKKING, FRESHERS TREK AT LOHAGAD



Mr. Amitabh Patni, (Co-founder at Stalwart BIM Studio) A guest session was held by the Department of Civil, to enhance the software skills of the students. Mr. Amitabh Patni, Co-founder at Stalwart BIM Studio, introduced the BIM Model and Revit Model. He explained in detail the benefits of handling the software. The future scope of BIM in the field of civil engineering was also shared and inspired us to gain more knowledge of this new method. This session turned out to be a major guidance for students to adapt to new technological advancements in the field of civil engineering.

## INTERCOLLEGIATE EVENT TECHNOVATE-2K18

Technical event had scheduled in Pimpri Chinchwad College of Engineering & Research, Ravet on 13th Feb 2020. About 11 technical events had been held for the engineering students. Among these, Civil Department held 2 technical events, one of them is "TECHNO-MANAGERS" & other one is "EXPEDITION HUNT". The participants showed their lots of love and there were unexpectedly lots of entries at event. Both the event were done as per the rules and regulations kept by committee members. And finally the results of event declared and distribution of certificate done to all the participants. And the winners were felicitated with the great prizes.



### Expedition hunt



Expedition hunt was a technical event held under the umbrella of Technorati 2020 where there were about 20 plus entries for the screening test. As per rules the 3 participants from the same group individually went for the aptitude test, image identification & non-technical game. These all 3 activities were going in parallel. The time span provided for the technical a treasure hunt was 25 minutes. This event started with providing 1" clue to the participant's, further they had to find out 5 clues

for winning the event. With full enthusiasm and diagnostic approach the participants started the search for finding next clue. Overall this event contributed a lot in strengthening the character of individual through communication, leadership aid team work skills;

### Techno Managers

Techno Managers was a Technical event organized on 15th February 2020 in PCCOE&R. This event was held under TECHNOVATE2020. Event was all about the various managerial skills required in civil engineering field displayed from the start to the end of any project. In this event each group was assigned a virtual project to manage. The virtual project may include any absurd situation in which the civil engineer has to act accordingly and complete the project. The problem statement was assigned to the group. The Group has to present solution on the sheet in a creative way within stipulated time. Each group were provided with Drawing sheets and required stationary. After the stipulated time was over, each group were ask to present their solution to the panel of Judges. The most effective and creative managerial solution were announced as the winner.

### Technospark's Paper Presentation

Guest - Prof. Vivek Ramchandra Kasar (Asst. Professor, Gharda institute of technology, Lavel) Technospark paper presentation competition was an online event organized on 29th May and 30th May 2020. This event was main highlight in the COVID 19 pandemic lockdown situation which provide platform for students and researchers to showcase their research work and communication and presentation skill. About 42 groups presented their thesis and project research work through online mode and grab this golden opportunity. Selected research papers will be published in international journal with ISSN. Winner for this event was Rutuja Chaudhari from PCCOE and Runner up was Sanjay Gaikwad from KIT college, Kolhapur. Overall this event was very helpful for all participants to enhance their knowledge, presentation and communication skill.

### Techno spark Crack this lockdown with your skills.

As every final year students have there BE projects for which they are working very hard, due to this pandemic students were unable to present their research work project through which they could won prizes and have the appraisal by experts. PCCOE&R arranged online major project competition which was state level in which they have to submit their one page report through the Google forms after which selection of the projects is done. According to that selected project got the chance to present their PPT in front of expert. There was huge response from all over Maharashtra.

### Remote sensing

Guests - 1) Ms. Saloni Deshpande 2) Mr. Sachidanand Sinha

Remote sensing and GIS workshop was a 4 day training workshop based on remote sensing and GIS technology organized by CESA, PCCOE&R from 31 Jan to 3 Feb 2020 The aim of this workshop was to learn application of Remote sensing and GIS in civil engineering domain. About 30 students successfully completed this workshop with great enthusiasm. Every day there were 2 sessions first session based on theory aspect of Remote sensing and GIS technology it include topics like basics of remote sensing and GIS, image enhancement, Data interpretation, Types of sensors in remote sensing etc. and second session was a training on QGIS software which include Data processing, Georeferencing, creation of maps and digital elevation model with the help of QGIS software. Overall this workshop was very helpful for our civil engineering student for their projector and future also.



# Art Gallery



*Katkar Sanchita Avinash  
(S E CIVIL)*



*Katkar Sanchita Avinash  
(S E CIVIL)*



*Katkar Sanchita Avinash  
(S E CIVIL)*



*Tejal Avadhut Nanaware  
(SE CIVIL)*



*Katkar Sanchita Avinash  
(S E CIVIL)*



*Aniket Malawade*

# Art Gallery



Gaurav Kailas Avaghade  
(S E CIVIL)



Aniket Malawade

Aniket Malawade

Aniket Malawade



# Department of Computer Engineering



*From the H.O.D Desk  
Prof. Dr. Archana Chougule*

The department is committed towards imparting quality education and developing future technocrats in the stream of computers. It is focused towards its mission of facilitating students' progress by providing a strong foundation in fundamental concepts as well as inculcating core values of professionalism and ethics. The Department is pillared by the qualified and experienced faculty; and backed by the student centered teaching learning processes. The department presents them with plenty of opportunities for applying their acquired knowledge and critical thinking skills thus striving to bridge the theory practice divide.

I attribute the phenomenal growth of the department to the winning combination of dedicated and experienced faculty, brilliant students and strong administrative support from the institute.

## VISION

To strive for excellence in the field of Computer Engineering and Research through Creative Problem Solving related to societal needs.

## MISSION

1. Establish strong fundamentals, domain knowledge and skills among the students with analytical thinking, conceptual knowledge, social awareness and expertise in the latest tools & technologies to serve industrial demands
2. Establish leadership skills, team spirit and high ethical values among the students to serve industrial demands and societal needs.
3. Guide students towards Research and Development, and a willingness to learn by connecting themselves to the global society

## Program Educational Objectives (PEO)

1. To prepare globally competent graduates having strong fundamentals, domain knowledge, updated with modern technology to provide the effective solutions for engineering problems.
2. To prepare the graduates to work as a committed professional with strong professional ethics and values, sense of responsibilities, understanding of legal, safety, health, societal, cultural and environmental issues.
3. To prepare committed and motivated graduates with research attitude, lifelong learning, investigative approach, and multidisciplinary thinking.
4. To prepare the graduates with strong managerial and communication skills to work effectively as individual as well as in teams.



**MULIK ADARSH HIMMAT**  
SE - 1st- 9.92



**JAGTAP VAISHNAVI MACHHINDRA**  
TE - 1st- 9.46



**KOLEY BARSHA PRABIR**  
BE - 1st- 9.46



## ACADEMIC TOPPERS 2019-2020



### **Expert Lecture on Theory of Computation.**

Date: 25/09/2019

Participant: TE Students of Computer Engineering

Speaker: Prof. Santosh Chobe

Photo Gallery:

Description:

An Expert Lecture on "Theory of Computation" was held at the Department of Computer Engineering of Pimpri Chinchwad College of Engineering & Research on 25th Sept 2019 for TE Computer Engineering Students.

Around 65 students have attended the seminar. The Expert Lecture aimed to provide theory concepts of Theory of Computation and especially the real life problem which is solved by different methods and while solving that problem under which category they lie whether they can be solve in P, NP time. How the machine can be design depending upon input.



### **Guest Lecture on Digital Electronics and Logic Design**

Date: 26/09/2019

Participant: SE Students of Computer Department.

Speaker: Dr. Dipak Raut, I2IT, Hinjawadi

Photo Gallery:

Description:

Department of Computer Engineering, Pimpri Chinchwad College of Engineering, Ravet, Pune has organized a Guest lecture on "Digital Electronics and Logic Design" on 26th Sept. 2019 for SE Computer Engineering Students.

The objectives of the session:

- To introduce HDL.
- To introduce VHDL.
- To design and implement digital circuits using VHDL.



## Implementation of Agile Methodology using scrum



Date: 13th Feb 2019  
Participant: TE students of Computer Department.  
Speaker: Mr. Nilesh Pardeshi  
Photo Gallery:

### Description:

Department of Computer Engineering, Pimpri Chinchwad College of Engineering, Ravet, and Pune have organized a "One day workshop on Implementation of Agile Methodology using Scrum" on 13th July 2019 for TE Computer Students.

### The objective of this induction:

- To introduce upcoming agile methodology.
- To introduce latest Scrum framework for managing product development.
- To provide activity based training with case studies and simulations.
- To provide opportunity for students to interact with industry expert/s



## Workshop on Drone assembly

Date: 12 & 13th July 2019  
Participant: SE students of Computer Department.  
Speaker: Team Aeranautica, E & TC Dept  
Photo Gallery:

### Description:

Department of Computer Engineering, Pimpri Chinchwad College of Engineering, Ravet, and Pune have organized a "workshop on Drone Assembly" on 12th and 13th July 2019 for SE Computer Students.

### The objective of this workshop:

1. To enrich knowledge in making DRONE.
2. Hands on and complete guidance about DRONE.
3. Guidance about research in DRONE.



## Preparing for the future & Applications of Machine Learning/ AI in the industry



Date: 25/07/2019  
Participant: (SE&TE) students of Computer engineering Department  
Speaker: Industry experts from 3DPLM  
Photo Gallery:

### Description:

Department of Computer Engineering, Pimpri Chinchwad College of Engineering, Ravet, and Pune have organized a "Preparing for the future and applications in Machine learning / Artificial intelligent in the industry" on 12th and 13th July 2019 for SE & TE Students of Computer Department.

### The objective of this workshop:

1. To prepare for the future
2. To enhance knowledge in the field of AI/ML



## Expert session on "The road to real success" under SE Induction program.

Date: 4th July 2019  
Participant: SE Computer Engineering Students  
Speaker: Dr. Nandakumar shinde  
Photo Gallery:

On the 4th of July 2019, we conducted SE Induction Program, for SE Computer Engineering students. Total 62 students attended the session. The event was coordinated by Mrs. Madhuri H. Badole  
Contents of SE Induction program was:



## Training on Interview skills by Rubicon in connection with Barclays



Date: 24th June to 26th June 2019  
Participant: SE Computer Engineering Students  
Speaker: Mr. Rizwan  
Photo Gallery:

### Description:

Department of Computer Engineering, Pimpri Chinchwad College of Engineering, Ravet, and Pune have organized "Training on Interview skills by Rubicon in connection with Barclays" from 24th to 26th June 2019 for SE Students of Computer Department.

### The Objective of this Training:

- 1) Student interview skills were improved.
- 2) Student has overcome stage fear.
- 3) Active involvement from student was seen.



## Four day Workshop on Cross Platform Mobile App Development

Date: 31st Aug, 1st, 7th & 8th September 2019  
Participant: SE & TE students of Computer Department  
Speaker: Mr. Sameer Chabukswar (Subject Matter Expert, ATS Learning Solutions, New Delhi)  
Photo Gallery:



### Description:

Department of Computer Engineering, Pimpri Chinchwad College of Engineering, Ravet, and Pune have organized Four day workshop on "Cross Platform Mobile App Development" from 31st Aug, 1st, 7th & 8th September 2019 for SE & TE Students of Computer Department.

### The Objective of this Training:

- To introduce upcoming technology for cross platform mobile app development.
- To give hands-on training on the cross platform mobile app development.
- To design and develop cross platform mobile app.
- To provide opportunity for students to interact with industry expert/s

## Java Project Training: JPT



Date: 88 Hrs (During weekends of Academic Year 2019-20)  
Participant: TE students of Computer Department  
Speaker: Mr. Sagar K. Gire  
Photo Gallery:

### Description:

Department of Computer Engineering, Pimpri Chinchwad College of Engineering, Ravet, and Pune have organized " 88 hrs Java Project Training (JPT)" during weekends of Academic Year 2019-20 for TE Students of Computer Department.

### The Objective of the Training:

- To acquaint students with the fundamentals of Core Java.
- To give hands-on training on Rest services using Spring framework.
- To acquaint students with the fundamentals of Angular.
- To design and develop project with Agile methodology.
- To provide opportunity for students to interact with industry expert/s



## GitHub Workshop

Date: 27th July 2019  
Participant: SE Students  
Speaker: BE Students of Computer Engg. Department  
Photo Gallery:

### Description:

A one day workshop on Introduction to GitHub was organized by ACM Student Chapter for students of computer engineering department. Students were introduced to basics of GitHub and GitBash and students made their own website using GitHub.



## Parent Teacher Meet

Date: 14/09/2019

Participant: SE, TE, BE Students & Parents

Photo Gallery:

Description:

Department of Computer engineering was organized PTM on 14/09/2019 at 9.30 am in computer Engg. Dept. Following points were covered in meeting:

HOD has given a short department presentation after welcoming all the parents for PTM, the following points

were discussed:

1. Academic Review of Department
2. Student Attendance
3. Activities done in Department till date
4. Placements scenario of eligible students

5. Insem performance of students

6. Efforts taken by the faculty members for academic excellence

7. Topper felicitation

8. Many other



## Teacher's Day Celebration

Date: 88 Hrs (During weekends of Academic Year 2019-20)

Participant: TE students of Computer Department

Speaker: Mr. Sagar K. Gire

Photo Gallery:

Description:

A teacher is a friend, philosopher, and guide who holds our hand, opens our mind, and touches our heart. The contribution of a teacher cannot be ignored at all. In many countries across the world, teacher's day is a special day where teachers of schools, colleges, and universities are honored specially. So we celebrated Teacher's Day on 5th September 2019. We planned various games and activities for the teachers to enjoy. This event helped to improve personal bonding between teachers and students & also to give the teachers a day-off by letting them enjoy the games and fun.



Teachers are honored specially. So we celebrated Teacher's Day on 5th September 2019. We planned various games and activities for the teachers to enjoy. This event helped to improve personal bonding between teachers and students & also to give the teachers a day-off by letting them enjoy the games and fun.

## Eminent Speaker Program

Date: 13th Sept. 2019

Participant: SE & TE Students.

Speaker: Mr. Ajay Deshpande (Vice President of Zimbra technologies put Ltd).

Photo Gallery:

Description:

Mr. Ajay Deshpande, Vice President of Zimbra technologies put Ltd. was invited to our campus to talk on "SMAC Technologies and the Future". This program helped to aware students about SMAC technologies and how these technologies are changing the world.



## Industrial Visit

Date: 02nd July 2019

Participant: TE students

Photo Gallery:

Description:

We Department of Computer Engineering arranged one-day Industrial Visit to Barclays on 2nd July 2019 for TE Students to attend Barclays Rubicon's "Connect with Work" Program.

Through this course or visit, students learned how to work well with others, communicate effectively with your colleagues and clients, and most importantly, they have learned the right emotional intelligence skills to help them handle different situations at work effectively.

## Data Analytics using Python

Department of Computer Engineering, PCCOER organized three day Four day workshop on "Data Analytics using Python" on from 28th Jan 20 to 31st Jan 2020 for SE students.

Expert Lecture was coordinated by Prof. Madhuri Badole, PCCOER, Pune.

Total 73 students attended the Workshop.

Mr. Tushar Kute (MITu, Researcher) was guest speaker for the Session.

Objective of the Event:

1. Provide the knowledge of Data Analytics using Python as Python programming is intended for software engineers, system analysts, and program managers.
2. To extract useful information that can be used for decision-making, predictions, and many other things



## Hours of Code



Department of Computer Engineering, PCCOER organized event "Hours of Code" on Tuesday 07th Jan 2020.

Event was conducted by Second year ACM Chapter students of Computer Department.

Total 80 students attended the Workshop.

Objective of the Event:

Students of standard eight of Shiubhumi School were educated and motivated for further development in Computers. The basics of computer and HTML were introduced to the students which created a great impact on those young minds. A brief idea of technology and trends were introduced.

## Industrial Visit-Barclays

Department of Computer Engineering, PCCOER has organized Industrial visit to "3rd Edition of Asia's Largest Science and Technology Festival -TechFest 2019-20, IIT Bombay on 3rd Jan 2020 for TE students. Industrial Visit was coordinated by Prof. Anuja Bhondue, PCCOER, Pune.

Through this visit:

- 1) Students got the project ideas from various project exhibitions in R&D departments of IIT Bombay.
- 2) Through new technological projects student got an idea about the current market trends in industries.
- 3) Students got an idea about which factors are to be taken into consideration when choosing to get into entrepreneurship, how to conduct the market research in your preferred fields.



## Japanese session



Department of Computer Engineering, PCCOER has organized Session on Japanese OYC (Oriental Yeast India Ltd) on Thursday, 9th January 2020, Rena Soumaya san and Aishwrya Mate (OYC HR and Admin Department)) was the guest speaker for the Session. There were a total of 7 students from computer department participated in Workshop.

Session was coordinated by Prof. Vaishali Latke, PCCOER, Pune

Objective of the Event:

- 1) Importance about Japanese Language.
- 2) What is OYC in Japan and In India?
- 3) What is Opportunities in OYC for Indian Students?

## Session on Resume Writing

Department of Computer Engineering, PCCOER organized session on "Resume Writing" on 07th Jan 2020 for TE students.

BE Students Ashish Salunke, Shreyash Pimpalshende, Barsha Koley was the speaker for the session.

Session was coordinated by Prof. Sonali Latke, PCCOER, Pune

Objective of the Event:

1. To understand importance of Resume
2. To provide guidelines of how to prepare resume.
3. To make your resume different than others.
4. To overcome common mistakes in resume.
5. To share experience with juniors about themselves.



## Online FDP on Python 3.4.3

Department of Computer Engineering has successfully completed One week online Faculty Development program on Python 3.4.3 from 20th April to 25th April 2020 in association with Spoken Tutorial IITB project.

Total 398 (including on the spot entries) participants are enrolled for the course and in which 298 participants were successfully completed the test.



FDP was organized by Prof. Mahendra Salunke, Prof. Shweta Koparde and Prof. Vaishali Latke.

Objectives of the session:

1. To utilize the time during Lockdown due to COVID-19 Pandemic.
2. To learn the new skills and Python language.
3. Effective use of online tools and technologies.

## Expert Lecture on Critical Thinking & Project Based Learning

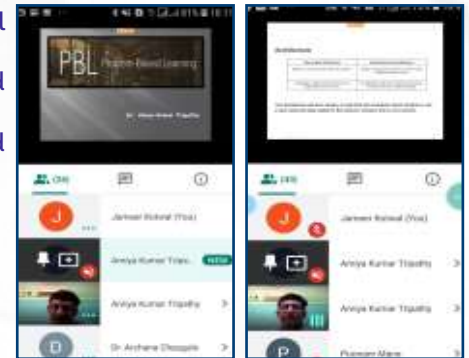
Department of Computer Engineering has successfully completed One week online Faculty Development program on Python 3.4.3 from 20th April to 25th April 2020 in association with Spoken Tutorial IITB project.

Total 398 (including on the spot entries) participants are enrolled for the course and in which 298 participants were successfully completed the test.

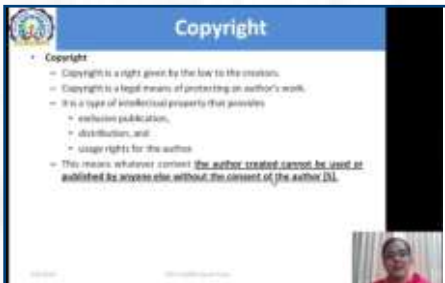
FDP was organized by Prof. Mahendra Salunke, Prof. Shweta Koparde and Prof. Vaishali Latke.

Objectives of the Event:

1. To acquaint students with the PBL
2. To make the students aware of Project based learning
3. To demonstrate few projects
4. To design and develop projects with different methodologies



## Introduction to Copyright and copyright filing process-FB Live.



This was a Facebook live session which was live on 8th may 2020 delivered by Dr. Archana Chaugule, Head, Department of computer engineering, PCCOER. The online copyright filing process was demonstrated.

Objectives of

Objectives of the Event:

1. To give insight of IPR and copyright
2. To give hands-on training on copyright filing process.
3. To acquaint everyone with the fundamentals of IPR
4. To acquaint everyone with knowledge on copyright

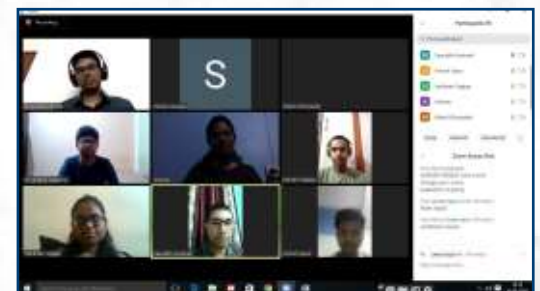
## Online Mock GD's and Mock Interviews.

Department of Computer Engineering organized Online Mock GD's and Mock Interviews on 16th April 2020 for TE Students.

Session was organized by Prof. Sonali Lunawat, PCCOER, Pune.

Objectives of the Event:

1. To prepare students for upcoming placement drives
2. To develop their professional skills
3. To develop interviewing skills



## Session on all about Higher studies in US and UK.

Department of Computer Engineering, Organized session on "All about higher studies in US and UK" on 24th April 2020 for all students of Computer department. Session was conducted by Ashish Salunke, Chetan Pathade and Chaitnya Nirhali, BE Students of Computer department. PCCOER, Pune.

Objectives of the Event:

1. To prepare for GRE and process to apply for MS in US and UK
2. To improve professional skills
3. To give guidelines for preparing exams like GRE.



## **HackeOrsERA Workshop.**

Department of Computer Engineering, Organized workshop for SE students of computer Department on 28th to 30th Feb 2020.  
Mr. Vikash Chaudhary (Director and Founder at HackersEra Cyber Security Consultancy And Training Put Ltd). was guest speaker for the workshop.

Objectives of the Event:

Total 40 students attended the Workshop.

Objective of the Workshop to introduce students to the hacking world.



## **Handover Ceremony**

Department of Computer Engineering, PCCOER organized Handover Ceremony on 13th January 2020.

Objectives of the Event:

A felicitation and hand-over ceremony was organized for BE students of our ACM Chapter Members for their valuable contribution towards the growth of the chapter.

Our BE students were felicitated by our teachers for their efforts taken to build this chapter. Their contribution to this chapter is inevitable. They have arranged such a platform which will help the upcoming students to pursue their goals.



## **ACM awareness program.**

Date: 13th January, 2020.

Participant: SE Students.

Speaker: BE Students.

Description:

After the hand-over ceremony the BE student chapter members arranged different interesting activities. The main purpose for arranging these activities was to break the ice between the senior and junior members of the chapters. The session included both fun and knowledge gaining activities. It was great breakthrough to create bonding between the members of the chapter and to motivate them for the future work with chapter.



## **Domain Introduction.**

Date: 13th January 2020

Participant: SE and TE Students.

Speaker: BE Students.

Description:

Domain Introduction program was organized by BE students of ACM chapter. This program helped to introduce students of SE about various domains in computer engineering.

## **C-CUBE LITERACY CAMP**

Date: 07th Feb 2020 scription:

Description:

On the 7th of February 2020, we conducted Literacy Campaign for ZP School students of Zillah Parishad School

Mau village.

Various events and activities led to a successful event and a great day for all the students.

Event was coordinated by Mrs. Sonali Lunawat.



## **Industrial Visit-Police research center**

Event Date: 25th Feb 2020

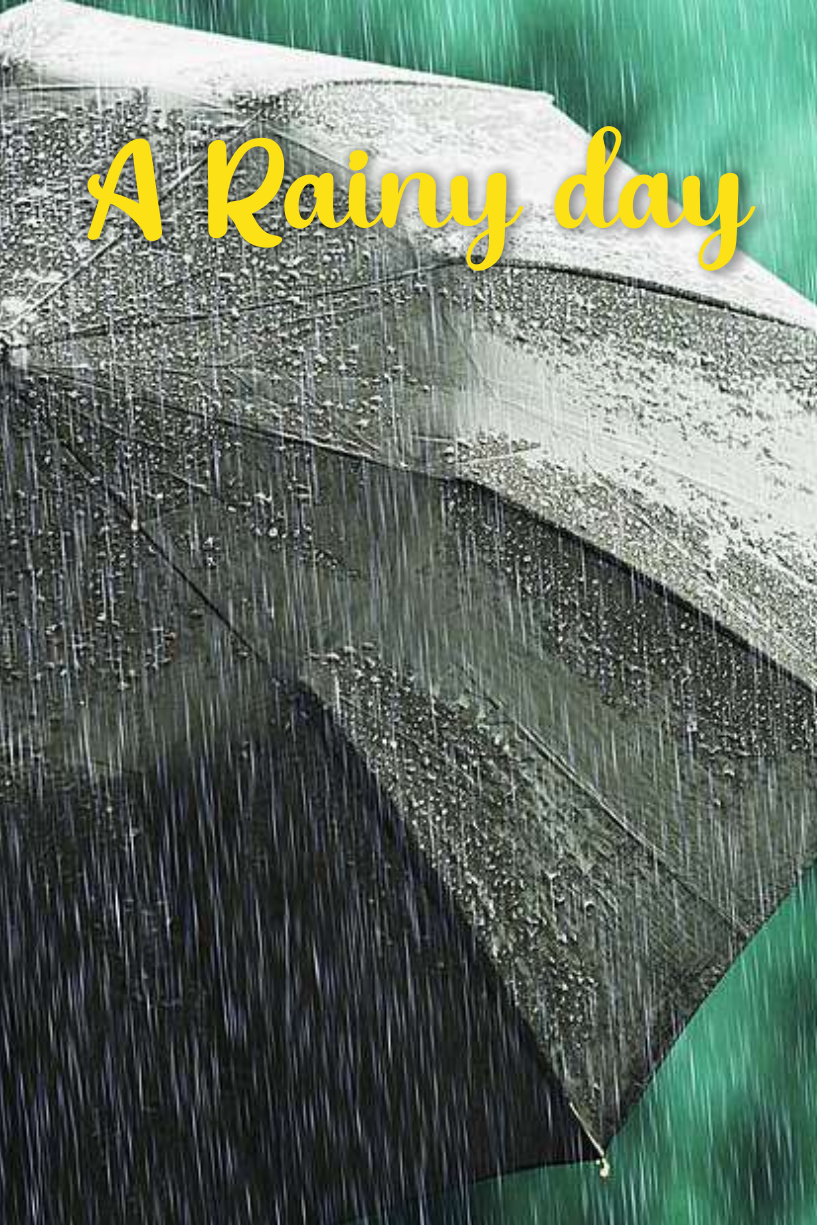
Visit Coordinators: Mrs. Anuja Bhondue

The Department of Computer Engineering of PCCOER had arranged one-day Industrial Visit to "Center for Police Research (CPR)", Pashan on 25th Feb 2020, for SE Students.

CPR had given the information about their center; CPR had conducted workshops/ seminars and training for Police officers of Maharashtra on various subjects of interest such as: Organized Crime, Tackling Naxalism, and Use of Modern Technology in Investigation of Crime, Cyber-Crime, Cyber Laws, Motor Vehicle Tracking System, Stress Management, and Crime against Women etc. Close to 300 Training Workshop has been so far conducted in CPR, in which over 6000 participants were involved and benefitted.

After that they allowed us to visit their wireless communication center, and where they have showed the migration in communication technologies like from Walky-talky to Wireless connection.

# A Rainy day



There was evening today,  
From the dawn itself.  
Grey pall above me,  
Silver sparks all the day.

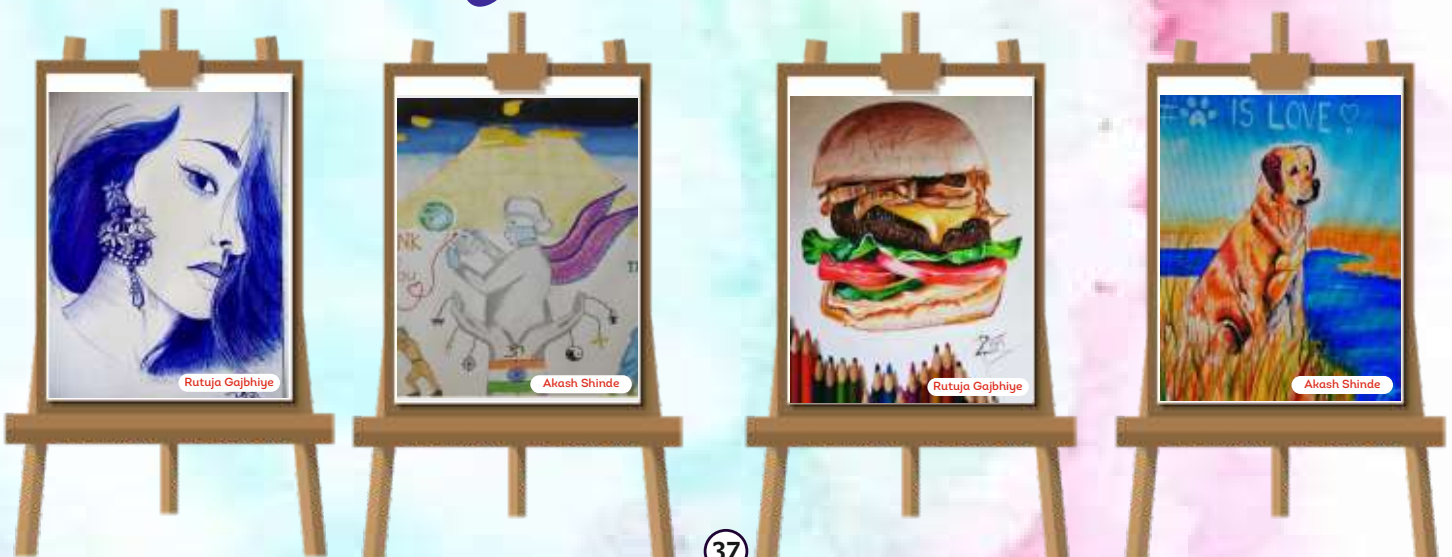
Gale on the earth competing with rush  
Of the people and farmers.  
Breeze giving flowery touch,  
Nature's love for progeny's mush.

In the evening, halted rains glop.  
Standing in the front yard, starred at  
Potholes and grass.  
Upon which laid diamond drops.

Within a short span,  
A beam of sunshine descended  
On my half face.  
Shut eyes felt new warmth and  
message-

Grey pall in transient life, not too long  
Wait with hard work's hope for new  
sunshine.

# Painting



# Sketches



Akash Shinde



Rutuja Gajbhiye



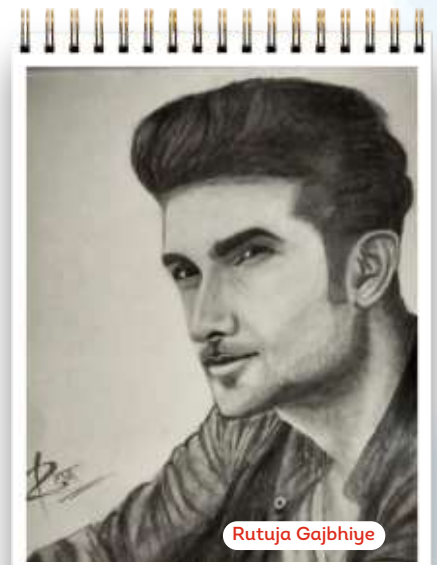
Chinmayee Kulkarni SE Comp



Rutuja Gajbhiye



Rutuja Gajbhiye



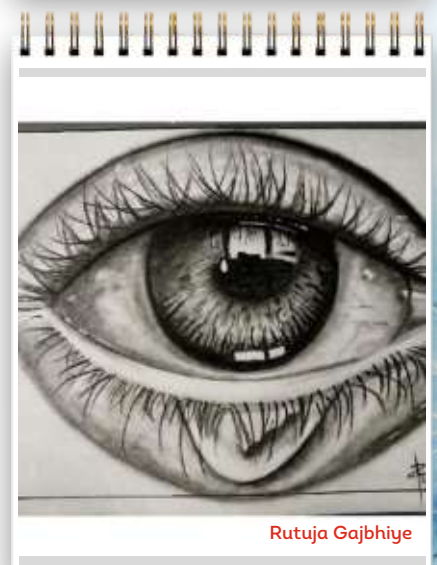
Rutuja Gajbhiye



Rutuja Gajbhiye



Rutuja Gajbhiye



Rutuja Gajbhiye

# Department of Mechanical Engineering



*From the H.O.D Desk  
Prof. Dr. Sham Mankar*

The Department of Mechanical Engineering has modern and well-equipped laboratories for practical training to its students. All the faculty members are duly 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 PCCOER is one of the best Mechanical engineering colleges.

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."

## Our Aim is to

- ▲ To develop high quality technical and scientific manpower to meet the challenges of fiercely competitive environment.
- ▲ To become world-class learning centre with excellence in education and research conjugated with vibrant environment for holding the extra and co-curricular skills of stake holders.
- ▲ To encourage the learning and creative community to promote the development and usage of applications for betterment of society.



## ABOUT DEPARTMENT

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



### VISION

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



### MISSION

1. To provide state of art facilities to impart quality education.
2. To undertake various value added and add on courses to make students technically sound and thorough professionals.
3. To collaborate with the industries and academia and strive to transform the research and innovative aptitude in the students and faculties.
4. To inculcate high moral, ethical values and national pride in students and faculties.

# Heartly Congratulations

## SAVITRIBAI PHULE PUNE UNIVERSITY EXAMINATION TOPPERS ACADEMIC YEAR 2019-20



**KARHADE ATHARVA**  
SGPA:9.94 (SE MECH)



**BORUDE SWAPNIL**  
SGPA:9.80 (SE MECH)



**KULKARNI CHAITANYA**  
SGPA:9.80 (SE MECH)



**KORE KRISHNA**  
SGPA:9.78 (SE MECH)



**DHAME SHUBHAM**  
Editor



**BONDE GAURAV**  
SGPA:9.76 (TE MECH)



**DESHKAR RISHABH**  
SGPA: 9.76 (TE MECH)



**CHITNIS RUTVIK**  
SGPA:9.70 (TE MECH)



# DETAILS OF START-UP AND PRODUCT DEVELOPMENT

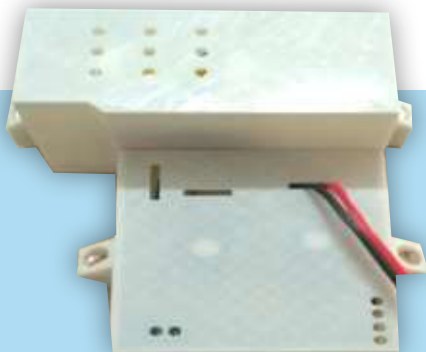
## Laser Chiller

1. It chills the water to a required temperature with the help of VCC cycle
2. this chilled water is used to cool the laser tube in laser cutting machine or any machine operated on laser technology
3. It has specially designed tube-in-tube structure for more efficient working
4. Emerson reciprocating compressor give long life and smooth working with 1 year warranty.
5. Long lasting powder coated body.
6. Sub-Zero controller protects compressor and controllers the temperature of water for smooth working



## TEMPERATURE DATA LOGGER

1. It is a portable measurement instrument that is capable of autonomously recording temperature over a defined period of time
2. Works on digital temperature sensors gives more accuracy and compactness
3. 18 hrs of battery backup with 2500mAH battery
4. 16 x 2 display gives current readings and also an error codes if any
5. light indicator is used
6. comes with 4GB memory card to store data.
7. micro USB charger port
8. full charge and low battery indicator



## CONTROLLER FOR WATER RECYCLING UNIT

1. Specially designed for a patented system of water recycling (Patent No. 201921044986)
2. single controlled controls water level of two tanks
3. Transformer and relay with optocoupler are used for more safety and isolation from heavy currents
4. Works on 230V AC single phase supply.

# TRAINING AND PLACEMENT



Prasad Jamdar  
TCS (3.2 lpa)



Shashuita Muley  
TCS (3.2 lpa)



Prashant Sootharam  
TCS (3.2 lpa)



Abhishek Balagaon  
TCS (3.2 lpa)



Pravin Pradhan  
TCS (3.2 lpa)



Aviral Sanjay  
Ojha Core  
Compete (4.2 lpa)



Rutuja S. Honrao  
Hexaware  
Technologies (2 lpa)



BHAGYASHRI GAWAS  
Worley Package  
- 4LPA



Soothram P. Talentio  
Package - 17.4L



Vivek p. Mahajan  
Hexaware 2 lpa



Judith R. Talentio  
Package - 17.4L



150+ participants  
were there in  
CIPCIS for patent,  
Copyright and attendees  
from Mechanical Stream





SE Mechanical Student visited IIT Bombay during TECHFEST on 3rd Jan, 2020



18+ students of Mechanical Department got internship for more than 15 days in Industries



## Hearty Congratulations

Mr. Deepak Biradar for filling patent



## Hearty Congratulations

Mechanical Department Ladies for filling Patent



Prof. Rahul Bawane was invited at NCER, Talegaon as Guest lecturer on topic "Engineering Graphics" on 21st Nov, 2019



Prof. Kavidas Mate was invited at COEP, Pune as Co-teacher for Vertical Dynamics of Vehicle on 19th and 20th Nov, 2019  
 • Prof. Kavidas Mate was invited at GCE, Karad as a guest Lecturer on Explicit Dynamic Analysis on 26th October, 2019



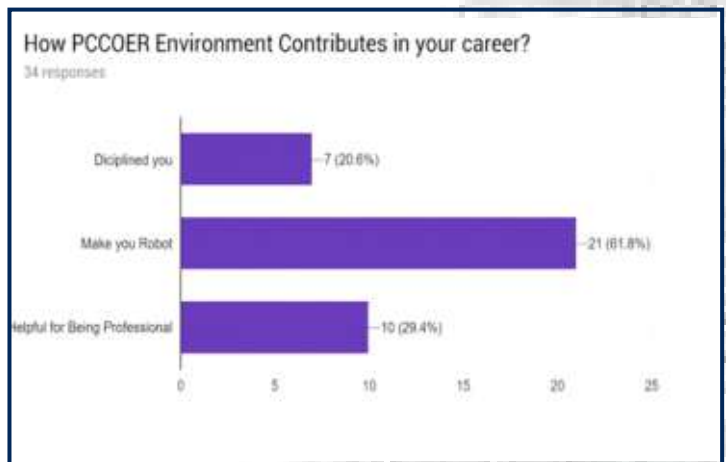
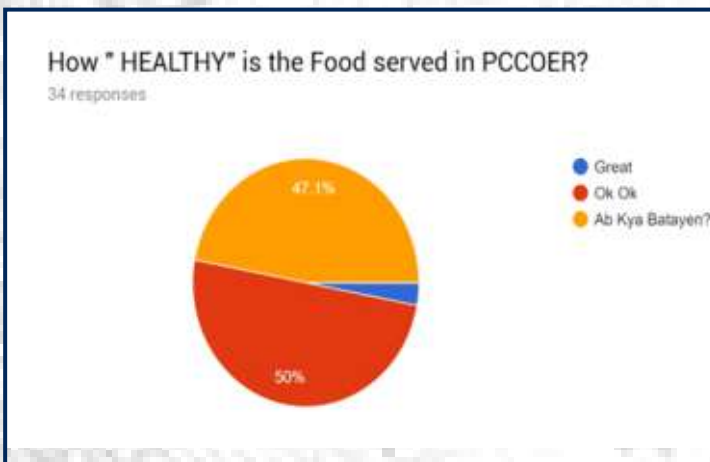
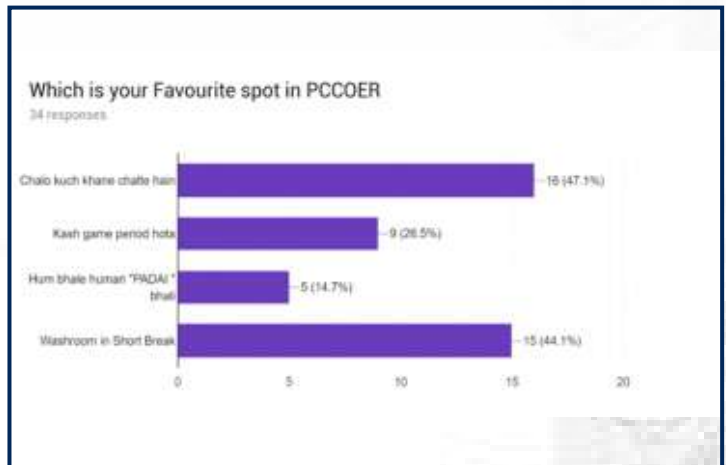
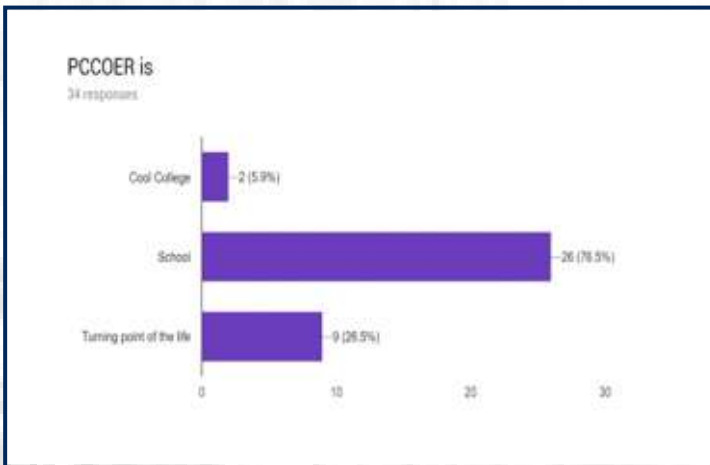
Mr. Pradnesh Mane (TE-Mechanical)  
 Stood 3rd position in 50  
 mtr freestyle swimming competition  
 at Intercollegiate Level SPPU



Mr. Pradnesh Mane (TE-Mechanical)  
 Stood 2nd position in  
 10 mtr Rifle Shooting competition  
 at Intercollegiate Level SPPU



# QUESTIONNAIRE FROM BE MECHANICAL



## Technovate 2020



Student enjoying competition of ROB ROBORACE During Technovate 2020

## Visit



TE Mechanical Student visited katraj dudh dairy Plantor Subject RAC and Mechatronics on 10 th feb, 2020

## Visit



SE Mechanical Student Visited Hyundai Services, Ravet for Subject Spplied Therodynamics on 22nd feb, 2020

## Guest Lecture



Prof. Rahul Bawane was Invited at Nausahyadri group of Institute on Applied Thermodynamics on 24th feb. 2020

## Expression 2020



Mechanical Department won PCCOER Champion's trophy in Expression 2020

## Expression 2020



Mechanical Students Enjoying Annual Function Expression 2020



## An interview with Dr. Balchandra Pujari

11.00, 30/10/20, An interview with Dr. Balchandra Pujari was taken by two students of second year through a online platform on zoom meetings. He is a physicist, has experience in research sector. He has also developed a mathematical model of COVID-19 (India-specific epidemiological model). Siddhi: so, thank you so much sir, for finding time for this interview. So, my first question is,

### what got you interested in this field?

Sir: It's actually an accident, to be precise. I'm not any epidemiologist by epidemiology. I mean, you know the study off epidemic. Although I for the last six months and what, I am virtually doing only epidemic epidemiology. But I'm not an epidemiologist I'm by training a physicist. My main expertise lives in material science as well as quantum mechanics. Basically, we try to model the materials, I mean, before actually synthesizing, creating any new material. We predict what would be the properties off that material. And in order to predict those properties, we require certain mathematical techniques. You might have heard the differential equations, and we use a lot of differential equations. So, we have the expertise off developing their differential equation and solving the differential equations. Now epidemiology, incidentally, uses the same techniques. That means you're asking the question. If one person is infected, how many people will be infected? 10 days down the line? You can write in differential equation to, make those predictions. So, because we have the expertise in solving differential equation. Doing programming with it. We decided sometime in February that will be decided. There was, you know, Pandemic going on. There was that time it was not endemic. There was a epidemic going on in China. There was nothing much in India. So, on one day I just walked in to colleagues office and said Look, there is this epidemic going on, Maybe we can use our technique. He has the expertise in complex systems. I have the expertise in differential equation. So we decided maybe we bring in our expertise together and develop, and we try to predict how will this disease spread across the globe? But then we decided before doing that lets model. If one person is infected in India, what will happen? And this is where we started. That was sometime in February, and I think ours was the very first publication in India that predicted the spread off this disease. So yeah, it was a long story, but not I'm epidemiology, physicist, but because we have sufficient tools and techniques at our disposal. We thought we could extend our knowledge to epidemiological questions.

### Ameya: Sir, What does epidemiology means?

Sir: Yeah, So there are multiple aspect in epidemiology First of all, epidemiology is a study off infectious diseases and it is important, but we mean by infectious diseases. Infectious diseases are the diseases which transferred from one person together. So, for example, heart attack is not an infection disease. If someone gets a heart attack, doesn't mean other people will get it. It doesn't transmit from one person to other, but the seasonal flu cough cold. All these are infections, so they can transform from 1% to the other. Sometime there might be a so-called vector in world. For example, Dengue doesn't go from one person to another person directly. What happens if someone it helps having Dengue?

If a mosquito bites that person, then the Dengue goes to the mosquito and from mosquito. If that mosquito goes on to beating other person, then that person gets Dengue. So dengue kind of Travers indirectly. But yet it is an infectious disease. So smallpox, chicken pox, measles, polio, These are all infectious disease there either directly transmitted from human to human or indirectly transmitted via so called a vector could be a mosquito, could be dogs and so on. So Okay, so the study off this is a epidemiology So most of this epidemiology study in there-biology and I don't know biology at all. But a small section off this epidemic once the biology is understood off the disease, then you can ask the question if on average of one person, infect say 2 people in one day, then you ask the question How many people will be

infected 10 days? This is where mathematics comes, and this is and that is my kind of area Interest? We know how many people are being infected by one from on average. How many people, how many people get the disease get transmitted from one person, Then we can predict what will be the trajectory of this is how many people were being infected and so on.

### Ameya: Sir, what are your comments on the increasing no. of case?

Sir: There are a few factors involved. So, broadly speaking, you can categorize the entire population.

You can, you know, you can think off entire population as a water tank. For example, You have one water tank, though you can call those the people, people in that tank, Let's are consider entire cities of water tank and individual water molecule as people. Okay, so those people, we call them susceptible, okay, susceptible in the sense those people are prone to disease. Okay, so they may get a disease if they get contacted by an infected person .So, for example, if you're looking at it, this is like polio. If you are infected If you're vaccinated at the childhood, then when? If you come in contact with person with polio, you will not get you because you are vaccinated. So what? We study We look at entire population. For COVID-19 19, for example, everyone is susceptible. There is no vaccine as yet. So what we say everyone is susceptible to begin with. Then we introduce one molecule, one infected people, one infected person on and ask the question. What will be their in two days? So you can imagine it as a water tank? So one water tank and then it is going to the second water tanks of water tank being number of infected people so initially tell you where one water tank, which is susceptible people. Then there is a pipe that goes to the second water tank, which are infected people, so some so it's susceptible.

People are going down and infected people will keep on rising because number of infected people are rising so the water in this tank will keep on rising. That means number of infected will rise, but then what will happen after a few days? Those infected people automatically recover. most of them, you will. You might have heard the number 90%.95% people. Those get those who do get infection. They recover. So from so those who are infected. Now you can imagine that that infected tank is now connected to the third tank, which we call the recovered tank. So you have susceptible people, here is a pipeline connected to the infected tank with certain rate susceptible. People are going down. Infected people will rise. But of course, infected people will also go down to this recovered population. Now, how long will this continue? You'll understand, right? As longer susceptible peopleware that means those people who have not got to disease .The water will continue flowing to infected compartment and from infected compartment. Depending upon viruses property it will flow into.

Recovered compartment. So finally everyone from susceptible, perhaps everyone from susceptible will go to infected and from infected to recovered company. So this is a very crude model which we called S I R model. So as long as there are susceptible people Now, if you look at the infected compartment which is in the middle, you have on one side off susceptible compartment one in middle you have infected on in the other compartment you have recovered. So the rate is controlled by differential equations, the rate at which the number of people going from one compartment to the other, other compartment to the other. So you can imagine that this infected compartment has one inflow people coming in

becoming infected and outflow. That means people recovering as long as inflow is more than the outflow. This number will rise. So infected, number will keep on rising as long as there are more number of susceptible people. Moment susceptible people. That means people who can get the disease okay if those numbers. So, for example, if there are 10 people in the family, out of which nine already had the disease and they're recovered fully well. So now if 10th person get the disease, he's not going to transmit together because they already are recovered. And they do not catch that this is again right so that they So once that person is very covered, then they would. The disease is kind of over in that family, but for a city as long as there is sufficiently large susceptible population. This the second water tank Keep on increasing. That means infected number will keep on increasing. Now, what we're seeing now is that now that number is decreasing, which means that the number here that those people are susceptible have significantly dropped down. Which means a lot of people have now gone into recovered compartment. Which means a lot of people already had the disease. They have now recovered well, most of all for COVID-19. Thankfully, most of the people 90% people record fantastically well. There is no problem whatsoever. So most of the people are now recovered. So now there are two assumptions that I'm making. First of all, I'm saying this susceptible compartment number of susceptible people are constant. That may not be true, right? People can come from other cities who could be susceptible. So then, in that case, susceptible population will increase. And also the second assumption that I'm making that those who were recovered will not get to this is again. If they get it, this is again. Then who knows? Right? So after a few months, if they get to this is again, that means you have to, bring the water from that recovered compartment back to the susceptible compartment and this cycle will keep on continue. So you will get first wave. You'll get second wave. We'll get third wave and it will just go on and on and on. Okay, so There are very few things that can government can do. You talked about governmental policy. There are very few things government can do what it can do if you put the lockdown for example, what happens when you put a lockdown? That means people can infect less. Then we will go out little less so you will not infect too many people outside. So the rate at which the disease transmitting from 1 compartment to other compartment will, kind off reduce. But it will not go to zero completely because even if there is one person in the entire city remember this entire pandemic is the global pandemic started by a hand full of people in Wuhan, China. Now, even if one person left an entire city, if he can immediately come in contact with 10 people one day those 10 people will come in contact with 10 different people. That 100 people. And very soon the number will again rise. I So then why put the lockdown? Because if you put lockdown, what happens? The rate out of the transmission slows down. It doesn't go to the zero, but it slows down. But because it slows down, there are less number of infected people coming in every day. What happens instead? Off treating 1000 people one day. You can then treat 10 people in one day. But the difference is that our hospital can handle 10 people. But you cannot 1000 people all of a sudden. So the reason you want to put a lockdown is that you prepare for the searge. You don't try to kill the disease completely. You try to prepare your infrastructure for a long time. I hope. I answered your question..

**Siddhi: Yes, sir. Sure. So, talking about your experience and your journey in this field of research, what is the most exciting discovery you made during your research?**

Sir: so as i said in the month of February, we decided to develop our model specifically for India.

It turned out no one had done that. The kind of treatment that we came up with,uh,earlier.Maybe I'll give you a context. So what? I said, there is this so called S I Remodels in which people can infect other people. So you can say entire India. Population is 100 crore. If one person is infected today, tomorrow in entire India there were two people, for example. So now I ask the question, Where are these two people? That information is not known. So one person could be in sitting in pune.The other person could be sitting in samba it doesn't make sense.Right? Person sitting in pune,very likely to infect person next door, not person sitting in asam.That doesn't work.So what? We decided we decided to break India into small cities, so we looked at 300-400 different cities and in one city we say people can infect it to each other. And then how does that disease go from once city to other city, we said Okay, we look at the rail network.Okay,so we download an entire network. And we said if there is a train connected between one city to another city, then the disease can also go from one to the other city. So if there is no direct currency, for example to pune to say Gowahati,then this person sitting here will not go to gowahaty directly.Okay,So we developed a differential model

where we learn small models in different different cities and different cities connected with each other.by realistic network And that was phenomenally great. In doing so, we will also make sure that the population of the city does not.You know,Goto otherwise, what happened? If you have seen the processes like diffusion, in which you can just water, if there is a water tank and if you just If there are two water tanks, one is completely full,other will empty. Then if you connect the water tank, then both the levels of both welcome equal. So there is a risk of happening the same thing in when you are trying blue migration as well. So if you how do you model a migration, we can say Okay, there are no more number of people people should travel from. More people will go from one place to the other. But there's a risk by doing that that every city will have the same population. So we avoided that. We developed a very complicated mathematical mechanism in which we maintain the population of city. Yet we made sure that disease can travel between one city to the other. And so that was in the month of March. We said that it is important to not only shut down the international travel, but it is important to monitor the domestic travel. Otherwise, this is will go big time and within 5 days of publication of paper.Thankfully,the entire domestic network were shut down. It was all the time trains and planes were shot down and which is we were very happy because that's what we were saying.

Ameya: what do you think? How this pandemic has affected animals or others, like biologically and We have seen the economic numbers like GDP Is going down and people are affecting. People are getting unemployed. Many factors are there,but biologically are as like not only humans, ,animals and others.

Sir: So there are very few cases reported off a transmission from human to cats and dogs. There are certain cases, but there are no significant effect on the animals. First of all, the theory is that the disease came from Animal kingdom. To us the other animal kingdom.That means bats to human. So certain animals already have some sort off immunity against this disease.But even those cases which are reported like tigers, cats and dogs those they don't seem to have any adverse effect. On the other hand, because off locked down quite a lot, wildlife has benefited. A lot off. Jungles were essentially empty off human interference Animals could move more freely, there is increased population of birds.There are some reports, increase populations of butterflies. And a Generally, even if you take a walk outside, you'll notice because human interferences, little less it has actually helped environment big time.The&nbsp; co2 level has dropped down significantly nitrous oxide level has dropped down. So overall, it has been beneficial To the environment. What you said is absolutely right.

Siddhi: So, sir my. Next question.is that Was there any incident that inspired you? One becoming a scientist.

Sir: Well, I have always wanted to be a scientist. As I said I am physicist growing up as I said, I'm a physicist. I grew up watching stars as I over the period. I had developed interest in physics quantum mechanics. So I since probably 5th,6th standard, all I want to do was becoming a physicist. So there is no one incidence,but it has been a journey throughout.

**Ameya: Sir what about your other researches?**

Sir: So, I mainly work in material science. What we do, we try to You might have heard this days nanotechnology and so on so forth. So we have been working on materials like to 2d materials graphene. If you have heard off it, carbon nanotubes. You know, those kind of materials .our task is to model this and predict what will happen Currently. There are There are few things on which I'm working on. Currently, we are trying to look at what happens to the magnetic systems. For example, one off.My main work is that,um if you look if you take the alloys, for example Palffy,pity iron platinum alloys. And if you try to look at the magnetic structures, you'll find it is a fantastically fantastic rich magnetic structure You might have heard of ferro magnetic phases you per perhaps Have you heard off Antiferro Magnetic phase So ferro magnetic is the material in which you know is a magnet conventional magnet in which, if you look at all items, then on item, you have spin the electron spin pointing in the same direction. It becomes a ferro magnetic material where all the electrons, except pointing same uptown directions up down with a pinch of salt. So they're all pointing the same direction.is called as ferro magnetic material. But there are other materials. For example Mm,pity where you have.We have very sweet air structure of crystal structure of the material. In one item you have up spin,but the under under other item you have down Spin. And next time you're up again, next time you're down spin. So totally night. Magnetic moment is zero. But yet it has magnetic structure small and its structure within insight or in thrown unit itself. It's got anti ferro magnetic material. And how does material go from Ferro Magnetic tow Anti for a magnetic itself. Question of interest. So we did

a lot of work on that long time ago. So my area of interest does rely on magnetism. How does magnetism come to picture? So that's one part in the other party you might have heard. There is a lake in BhuldhanaA called lunar lake. Have you heard of it? We're currently working with this isro trying to figure out how that lake came to existence. We know it was a meteor, but what kind of materials? That what it was. It was it. Iron. Meteor. Was it just a rock? Was it the best salt? What kind of rock it is? We want to map the entire degree that we have seen around the material. We want to trace each and every component debris off it and then we'll trace it back to its original position. So you, for example, because there is this blast, the material has flown out. If we can trace it back to their original position, then we can reconstruct the how what kind of phenomena, what can the event that took place? So in order to press it back, we're developing an artificial machine learning artificial intelligent model to you. Just take a picture off photographer. If you picture off rock and it will identify what type of rock is where it is came come from. So using those artificial intelligent network we will map entire alone are like and then that's our plan that we're currently working on. So how basically what is the origin off lunar lake? And I'm very much interested in engineers like yourself joining us and taking them to work forward. There are geological phenomena under very high pressure. Very different kind of minerals are formed. Why? What kind of minerals can perform? Where can they be formed? There are certain types of minerals that are only formed in the interstellar medium. You cannot create them in the laboratory why you cannot create them in the laboratory. What are those? Those can only be understood by doing a computer modeling and simulation. This is where we constantly work and try to Predict what will happen. What might have happened and so and so.

**Siddhi: So sir have you faced any, like, in the lunar project? Have you faced any challenges in that project yet? Or in any other of your discoveries.**

Sir: Everything is challenging when currently I'm sitting for last eight days. Trying to Understand? Magnetic nature off particular system that I'm looking at the last one month. I'm struggling big time. I don't know how to figure it out. But so for lunar lake we have this challenge. First of all, coming up with the idea. How do you map? So this problem came to me from a geologist so that they coming to you, asking you the question you try to figure out how do you answer this problem? Someone comes to you and ask you. Okay? You want to model? You want to find out how the lunar lake was form? How do you first tackle that problem itself? Is very key question formulated. Quite often, people, especially student don't understand. This most critical task is not the solving the problem. Most critical task is to coming up with the problem. We are trained to solve the problems, you know, give exam. That's how the exams All right there the problem is given. And then you saw them Quite known ever. I tell outcome to a point where you need to solve a differential. Equations, Right. Solving the differential equation you might have done You know how to do it. But do you? Most people the students don't know, don't understand, is when do you need a differential question to begin with? When do you What kind of system? How do you take a real life problem converted into a problem that requires solving mathematical equations? Right...in our daily life, do you require to Solve integration We probably don't apart from doing in the exams, we really don't. We don't feel like solving differential equations or integrations. So because students, especially are not trained, to come up with an accurate problem, this is the most challenging task off. Any discoveries to Come up with the formulate the problem solving is a fairly straightforward so even for epidemiology. How do you formulate the problem? What is the problem that you want to solve on then how to solve it? There are tools how to solve it & if I can formulate a differential equation, then I can always ask people like you, you have a throbbing experience in solving integration and differential equation. I can just give it to my student and they can solve it. So the key task is to come up with a problem. And this is something which is a major challenge major hurdle, all the discovered. Most often we don't know how to write the problem. Like we are in second year.

**Ameya: Sir, what are those problems which we as students can look for and try to solve it?**

Sir: there tons and tons and problems. You I mean there are problems everywhere. For example, we you and me walk out. Do you think the traffic outside is good? Do you think the road infrastructure is good? What can we do? How can we convert a problem? So there is a traffic situation. Can we convert a problem? Something? Can we light the traffic situation that we see outside as a problem in the first place? So it's a problem. So what kind of problem is it? So we want we want to solve the traffic situation. What do we mean? So can we can we make the animations, for example, where the, you know, cars are moving here and there, but then it has to be realistic. They

must follow the law laws off physics laws off engineering. So then, can you convert that traffic flow as a problem? That there is a dire need in India, especially to? Look for to simulate the traffic to come up with a come up with a model or something that can similar to traffic, and then you are Then once you could model once you could simulate the traffic, then you can answer the next question. If I If I build a bridge? Will it help? If I have a tunnel here, will it help if you have, Or should we build a fly or or not? So all those questions can be answered within before actually building the flyovers.... Spending hundreds of crores You can build a flower in your simulation for free and see what happens. All right, So these are Then you can give input to the policy makers, look. If you build a bridge, this will happen. This will not happen. And so on, so forth right those kind of inputs are necessary. There are other problems. Like for example, flooding. It floods all the time every time. So how much amount of water is to be released from the dam? Can you simulate? Can you? Can you have a topology of the ground. You know, GIS, your Google maps are there and so on. So for there. So if I ask the question if I raise the water level of river by 7 ft, how many homes will be affected? Can you tell us so? These are the problem. There are other problems like dengue, for example How rapidly will it flow? There are engineering problem like Can you come up with a solution? To control The population off mosquitoes is there. Is there a device that can trap the mosquitoes more efficiently? There are tons and tons of such problems that are there quite open. As I said, people face this. People ask this question. What can I do for the society? Right way. Everyone wants to do something for society. The trouble here is the same thing. Is formulating the problem? Because people are looking to solve the problem given the problem. And quite often, the formulating the problem is the challenge, not the solution. Solution is straight forward. So task here is to Every time you go out, you face inconvenience. You ask the question. Can I convert this into a tangible problem? How to solve it? There are 10 people who can solve it. But coming over the problem will always remain harder.

**Siddhi: So as you said that since childhood you wanted to become a physicist. So who was your inspiration and who was your mentor?**

Sir: OH, inspiration has always been people like, you know, Jayant naralikar growing up. You look at them their work. so these people have always been hithe kind of inspiration. Mentor has been my PhD supervisor, Professor kanhere which is his name and He has been my mentor. I've been lucky to have very good mentors, throughout my career during my BSC MSC projects. Also very good mentor in ayuca. then my colleagues I still work with them. I quite often treat them as my mentors, but most influential has been my of course, my PhD supervisor.

Ameya: what is your future project?

Sir: So future projects have bean. I want to. Look at the exotic phases of the materials in under very high-pressures I want to ask the question if there is, you know, meteor spike, What kind of materials will be generated? OH, are somewhere? If the earth was five times a big as this is what would be the nature off minerals in the mantel, For example, I'm currently focusing towards the geophysics geological problems these days. But again, I my conventional problems off material there are interest in trying to come up with a new battery technologies you knew. And new Cathode materials for batteries different types of batteries is currently lithium ion is very fame. You know,

we'll used battery you know all your mobile phones and now uses lithium iron. Can we ripple? Lithium is a toxic, not lithium. But the dilutetium by ion battery itself is very toxic. So can we replace that it with something more less, you know, less toxic, more environmentally friendly and so on so forth. So, these are quite a lot of open challenges I need people like you to join me to work. You know, students are necessary.

Siddhi: That would be a great opportunity for us for like, working with you and sharing some knowledge with you. It would be great. So, I would I would like to thank you on behalf of PCCOER, for joining us, and sharing your experiences and knowledge. It would be great to work with you. As you said so looking forward to meet you. So, thank you so much sir..!

Sir: Thank you for having me.

Ameya: Thank you so much sir.

## सकाळच्या त्या कोवळ्या उन्हात

सकाळच्या त्या कोवळ्या उन्हात  
तुझ्या आठवणींची ऊब होती  
त्या मंद मंद गार वा -यात  
तुझ्या भेटीची ओढ होती

माझ्या मनाच्या कोप -या कोप-यात  
तुझ्या परतीचाच ध्यास होता  
माझ्या ओठांवरील शब्दाशब्दांत  
तुझ्या कमतरतेची भास होता

तुझ्या जाण्याचा करणापेक्षा  
माझ्या चुकीच्या शोधात आहे  
तु येण्याच्या आशेपेक्षा तुझ्या  
खुशहातीचाच आस आहे

आयुष्यभर नेहमी मला  
तुझ्या जाण्याचीच खंत राहिल  
जन्मलो जरी सात वेळा तरी  
तुझ्या येण्याचीच वाट पाहिल

## शाळेच्या गणवेशात पहिल्यांदा तु दिसलीस,

शाळेच्या गणवेशात पहिल्यांदा तु दिसलीस,  
गालावर खळी पाडून खुद्कन हसलीस

काळेभोर केस आणि चेहरा गोरापान,  
तुझ्या डोळ्यातील काजळ तुझी वाढवायची शान

सर्वात आधी शाळेत येऊन तुझ्या बाकाजवळ बसायचो,  
तु बसायचीस तो बाक स्वतः साफ करायचो

रागावताना सर तुला मान खाली होती माझी,  
तुझ्या हातावरची छडी स्वतः वर घ्यायला होतो मी राजी

आरशासमोर किती वेळा सजलो तुजपायी,  
तु दिसली नाहीस तो दिवस जगलोच नाही

मितभाषी असूनही तुझे डोळे खूप बोलायचे,

तुझ्या मनातील भाव मला त्यातून कळायचे

तुझी ती प्रतिमा अशी ठासली आहे मनात,  
विसरणार नाही कधीच मी ह्या उभ्या वयात

स्पष्ट होती भावना पण व्यक्त होत नव्हती,  
तु हरवण्याची भीती मला सतावत होती

# मैत्री

मैत्री हा दोन अक्षरी शब्द जरी असला तरी  
अवघ प्रगल्भ जग समावते त्यात.

मैत्रीला कोणाची गरज भासत नाही,  
ती तर एक गोड अनुभवाची साखळी आहे ...  
दोन जीवांना जोडणारी दोन जीवांना एकत्र  
आणणारी.....!

मैत्रीचा अर्थ मी ही जाणत नाही  
आणि तुम्ही ते जाणत नसाल....  
स्वर्थसिद्धयापोटी केलेली मैत्री मैत्री नव्हे एक  
डील

मैत्री, तर नकळत बांधली  
जाणारी गाठ आहे गोड प्रवासाची.....!



# तुम्हीच ठरवा



तुम्हीच ठरवा आता नक्की कसं वागायचं....? कणहत कणहत जगायचं की,

गाणं म्हणत जगायचं तुम्हीच ठरवा आता नक्की कसं वागायचं.....!!

डोळे भरून तुमची आठवण कोणीतरी काढत ना...?  
हक्काचं माणूस प्रेमाने रागावातच ना....?  
आता शाप देत बसायच, की दुवा देत हसायचं  
तुम्हीच ठरवा आता नक्की कसं वागायचं.....!!

काळ्याकुट्ट अंधारात जेव्हा सगळं भयानक वाटत...  
तुमच्यासाठी तेव्हा कोणीतरी दिवा घेऊन उभा असतं...  
आता काळोखात कुडायचं की प्रकाशात चालायचं ..  
तुम्हीच ठरवा आता नक्की कसं वागायचं....!!

पायात काटे रुतून बसतात, हे अगदी खरं असतं..  
आणि फुलं फुलून येतात, हे काय खरं नसतं...?

आता काट्यासारखं सलायचं की फुलासारखं फुलायचं... तुम्हीच ठरवा आता नक्की कसं  
वागायचं....!!

आयुष्य खूप खडतर आहे, असं सुद्धा म्हणता येतं..  
प्रवासात सुखाची साथ आहे, असं सुद्धा म्हणता येतं...

आता झुरत बसायचं की नव्याने जगायचं.. तुम्हीच ठरवा आता नक्की कसं वागायचं.....!!

## आपण म्हणतो समुद्रासारखं दुःख आहे माझ्या आयुष्यात ...

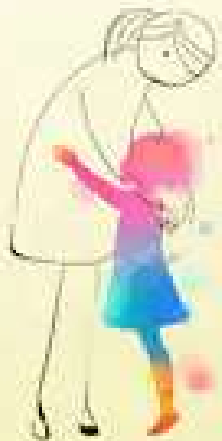
सुख पण आहे पण केवढं तर पाण्याच्या रेंबाएवढं.... पण आपण असा का विचार नाही केला या रेंबाचा साठा होती तेव्हाच हा समुद्र होतो.... तसचं हे कणभर सुख मनभर जगता आलं पाहिजे ना...? जेव्हा मन भरकटत तेव्हा असह्य अशा वेदना होतात.... त्यासाठी आपण अपेक्षाशून्य होऊन चिंतामुक्त झालं पाहिजे....!!

जीवन म्हणजे काय..??? तर जीवन म्हणजे जन्म आणि मृत्यू यामधील अंतर... आता हे अंतर किती आहे हे कोणास ठाऊक..??? त्यासाठी आलेला प्रत्येक क्षण जगता आला पाहिजे... मग सुख असो किंवा दुःख... सुखाचा क्षण जगायची उमेद वाढवेल... दुःखाचा क्षण अनुभवाचे धडे देईल... म्हणायचं फक्त एवढच... प्रत्येक गोष्टीला दोन बाजू आहेत... वाईट बाजू अनुभवायची... अन चांगली बाजू जगायची... तेव्हाच कुठं हे आयुष्य सुंदर बनून जातं... तेव्हा कुठं जगायची नवीन उमेद मिळते...



## आठवण

व्याकूळला जीव माझा आई तुझ्या गं भेटीला...  
आठवणीने तुझ्या आज कंठ दाटुनी आला...  
ओढीने घरच्या आता जीव बेचैन झाला...  
मन रडू लागले, कुशीत ये गं लेकीला...  
पुरे झाले राबणे, किती कष्ट अजून घेशील...  
लेकीच्या जगात आता विसाव्यात राहशील....  
असं वाटत सगळं सोडून घरी परतावे....  
पण तुझ्या स्वप्नां पुढे मी काहीही सहन करावे



*I miss you Mom*

## निती सार

जी मानस हवी हवी शी वाटतात ती कधी भेटत नाहीत  
जी मानस नकोशी वाटतात, त्याचा सहवास संपत नाही.  
ज्याच्याकडे जावेसे वाटते, त्याच्याकडे जायला जमत नाहीत  
ज्यांच्याकडे जाऊ नये असे वाटतं, त्याच्याकडे जावे लागत  
जेव्हा जीवन नकोसे वाटत, तेव्हा काळ संपत नाही  
जेव्हा जीवनाचा अर्थ कळतो, तेव्हा काळ संपलेला असतो  
नशीब हे असच असत, त्याच्याशी जपून वागावं लागतं



# एक प्रश्न

सहज विचार आला मनी,  
मुलीनेच का सासरी जायचे?

आपली मानस सोडून, तिनेच का परकं घर आपलं मानायचे

आमच्याकडून का अपेक्षा जुन अस्तित्व विसरायची?  
आमच्यावरच का जबरदस्ती नवीन नाव वापरायची?

नंतर समजले, हा तर सृष्टीचा नियम आहे....  
नाण्याप्रमाणे याला देखील दोन बाजू आहेत....

नी नाही का जात सागराकडे आपले स्थान सोडून...  
तो येतो का तिच्याकडे आपली वाट मोडून....

तिो पाणी किती गोड, तरी सागराच्या पाण्यात मिसळते...  
आपलं अस्तित्व सोडून, तरी ती सागरात विलीन होते....

पण म्हणून तिच्या पुढेच नतमस्तक लोक होतात....  
पाप धुवायला समुद्रात नाही, नदीत लोक जातात....!!!



## बाबा

आज पर्यंत खूप सार्या कविता करण्याचा प्रयत्न केला  
पण ज्याच्याकडून शिकलो तो व्यक्ती राहूनच गेला.....!!

कष्ट करणार शरीर, न काळजी करणार तुमचं मन.....  
स्वतः च्या इच्छा बाजूला ठेऊन आमच्यासाठी झटणार तुमचं अंतःकरण.....!!

तुम्ही समोर बोलायची अजून वाटते भीती.....  
दाखवत नसला तरी करता आमची काळजी किती.....!!

नाही मोठं व्हयचं, पैसा आणि प्रसिद्धीसाठी...  
मोठं व्हयचंय, फक्त तुमच्या डोळ्यात येणार्या आनंदाश्रूसाठी...!!

बंधन नव्हतं कधी तुमचं होता फक्त तो धाक काळजीचा.....  
जपलं मन असं की तुकडा तुमच्या काळजाचा.....!!

माझा आदर्श, माझा पाठिबा न तुम्हीच माझे प्रेरणास्थान..  
माझ्या कर्तृत्वाने, अभिमानाने ताठ राहिल तुमची मान ....!!



# Painting & Sketches



Samrudhhi Mechanical



Sakshi Palhade SE Mech



Abhishek Patil S E Mech



Sushil Yesane TE Mech



Abhishek Patil S E Mech



Abhishek Patil SE Mech



Vaishnavi Patil T E Mech

# Photography



Aditya Pujari T E Mech



Aditya Pujari T E Mech



Aditya Pujari T E Mech



Aditya Pujari T E Mech

# Department of Electronics & Telecommunications Engineering



*From the H.O.D Desk  
Prof. Dr. Rahul Mapari*

Department of Electronics & Telecommunications is located on fourth floor of Pimpri Chinchwad College of Engineering & Research, Ravet, Pune. The department works with the objective of addressing critical challenges faced by the Industry, society and the academia. The department is equipped with 04 software labs and 05 hardware labs with all necessary infrastructure and instruments for Signal Processing, Power Electronics, Antenna and wave, Digital Communication, Embedded systems. The department faculty work with excellent team spirit with specialization in different areas like Electronics, Communication, Signal processing, VLSI, Embedded System, Wireless Sensor Network etc.

Department of E&TC are having intake capacity of 60 students. Department is equipped with four software labs used for the practical of Data Structure, OOP, DSP, Embedded System, System Programming, Digital Communication etc and Four hardware labs utilized for the subjects Power Electronics, Digital Electronics, EDC, Basic Electronics, EMIT, Integrated Circuits, Analog Communications etc. Students are having 24x7 accesses to the labs following proper procedure. Mini Projects are designed by all the students individually in each semester which explores their knowledge for PCB designing, soldering, analysis of hardware circuits etc.

## VISION

To be a premier department in the field of Electronics and Telecommunication Engineering with emphasis on hands on activities.

## MISSION

M1: Producing Engineers of academic excellence, ready with skill sets required to handle the state of art technologies in the field of electronics and telecommunication engineering.

M2: Imparting research and innovative aptitude with moral and professional ethics for overall development of students to achieve desired outcome.

## ABOUT DEPARTMENT

The Bachelor of Engineering Program in Electronics and Telecommunication has commenced from the academic year 2014-15. The current student intake capacity is 60. The department is consisting of 03 class rooms and 09 well-equipped laboratories in the department. The Electronics and Telecommunication department is having online access to top journals through J-GATE. The department is having latest software's needed as per the academic curriculum. One practical batch is limited to 15 students and students are encouraged to perform practicals individually. For each experiment a group of maximum 02 students performs the practical.



# Hearty Congratulations

## LIST OF COLLEGE TOPPERS



Haritha Selvakumaran  
I 9.66 (SE)



Choudhari Suyash Satish  
II 9.58 (SE)



Joel Joseph Koruthu  
III 9.56 (SE)



Nikita Balaji Shirole  
I 9.78 (TE)



Prerana Singh  
II 9.67 (TE)



Gode Prashant Madhukar  
III 9.59 (TE)



# Wall Magazine

**Objectives:** The wall magazine event organized with the aim of providing a platform for students to display their talents in forms of paintings, photography, electronics projects such as drones, articles, drawings, etc.

The wall magazine event was organized on the 1st of July 2019. It was organized with the aim of providing a platform for students to display their talents in forms of paintings, photography, electronics projects such as drones, articles, drawings, etc. The students had put in immense efforts to paint and redecorated the walls based on electronics and telecommunications theme. The Wall magazine as well as the first issue of ENTC department magazine was inaugurated by respected Principal Sir and all HODs.



**Outcomes:** Students who played a huge role in EPGPEX and the wall magazine were also felicitated with certificates by Principal Sir. The event was coordinated by Prof. Kishore Wane.

## *Second Year Induction Program*

**Objectives:** The aim of the program was to set in motion the second year as a new start with motivated spirits ,pivot the mind sets and motivate the students towards the curriculum of upcoming years.

The Second Year Induction Program was held on 4th July 2019. The aim of the program was to set in motion the second year as a new start with motivated spirits ,pivot the mind sets and motivate the students towards the curriculum of upcoming years.

The first guest of honor was Mr. Sunil Palande, scientist at Defence Research and Development Organization, Ministry of Defense, Govt. Of India. He provided the students with guidance about his valuable experience in the field of research. This was followed by a short presentation about SKADA Technology Solutions Private Limited by their CEO and managing director Mr. Sushant Kerimani. The session informed the students about the possible internships and projects for students in the industry.

After this \_ passed out students from BE 2018\_ batch RuturajYadav, LaxmiSonimindia, SnehalSawant

Provided their juniors with very valuable insights into the truths and mannerisms of placements and job opportunities. Thus the day was ended on a remarkable note.



## Workshop on Antenna Design & Fabrication

Objectives of the Event: To bring awareness among students regarding scope and need of Antenna Field To be familiar with antenna fabrication and testing. Department of Electronics and Telecommunication organized two day Workshop on "Antenna Design & Fabrication", on 07th & 08th August , 2019. Resource persons for this workshop was Mr. Anirudha Kulkarni & Mr. Mukund Bhopale, Academica Labs solution private Ltd.. They covered following Theory topics

Past present & future of RF Antenna

- DB scale & its interpretation
- How to read spectrum & network analyzer reading with their interpretation
- Radiation mechanism
- Near Field Theory
- Far field theory- How to read polar plot
- Antenna parameters - pattern, directivity, efficiency, gain, aperture, VSWR, bandwidth

• Friis' Transmission Formula

And Hands on session of-

- Design & fabrication of directional antenna
- Design & fabrication of omni- antenna
- Testing using Spectrum analyzer.
- Measurement of Gain, directivity, HPBW, Antenna factor, Null BW, Array Resolution Using antenna measurement system.
- Link budget for free space area.



Felicitating of Resource Person



Different types of Antennas fabricated by students



Antenna Theory Session by Mr. Anirudha Kulkarni



Fabrication of Antennas by group of BE students

Outcomes: In this workshop, students fabricated different types of antennas like Dipole, Monopole, Bow-tie, Spiral, Helix, Yagi-Uda , Cloverleaf, Microstrip Patch etc. and tested using Spectrum Analyzer. Feedback from student was excellent.

## Workshop on Ethical Hacking

Objectives of the Event:

- + To make students aware of ethical hacking
- + To make a revenue out of ethical hacking

- + To teach them a secure web experience
- + To teach them pro's and con's of hacking

Department of Electronics and Telecommunication organized two day Workshop on Ethical Hacking from 7/8 /2019 to 10/8/2019. At Lab no 527 of COMP Department.

7/8/2019	Google a weapon Mailserver misconfiguration Reporting SPF vulnerability	9/8/2019	HTML injection into vulnerable websites Introduction to KALILINUX,
8/8/2019	Basics of Burp suite How to use Burp suite to hack Intercepting server and host	10/8/2019	Basics of internet working(what is gateway DNS), How communication takes place in internet Arp spoofing, DNSspoofing, Local file injection Remote server injection, SQLinjection, Hacking through KALILINUX

Program outcome achieved:

- 1) After completion of this workshop students able to Be aware of hackers and get a safe internet surfing experience
- 2) Students able to report vulnerabilities in respective websites/servers.
- 3) Students will have an open opportunity in cyber world.



## Guest Lecture on IEEE Membership Orientation

Objectives of the Event: To make the students aware about IEEE membership in the field of Research & Innovation.

Contents Delivered in Guest Lecture:

1. What is IEEE?
2. IEEE Quick Facts
3. IEEE at a glance

- Publications
- Conferences
- Standards

4. Education & Careers

5. Grants

6. Awards

7. Membership Grades

8. Student Branch Benefits

9. IEEE India

10. IEEE Global Benefits: Products & Services

11. IEEE Global Benefits: Awards & Scholarships

12. IEEE Global Benefits: Competitions

Target Audience and Number of Participants attended:

Target Audience: SE, TE & BE E&TC Engineering Students.

Number of Participants: 120

Appendix:

About Speaker:

The speaker for this Guest lecture was Mr. Shubham.



Session Anchoring by Student



Felicitation of Guest Speaker



IEEE Membership Orientation by Mr. Shubham Sir



Interaction with BE students

Outcomes: Many students have taken the IEEE membership after the successful completion of the session.

## Expert Lecture on Implementation of application using AI algorithm

Objectives of the Event: -

1. To learn Different AI algorithm for application.
2. To learn implementation of application using AI algorithm.

Department of Electronics and Telecommunication organized one day Expert Lecture on Implementation of application using AI algorithm on 09/08/2019.

Dr.DhirajM.Dhane deliver expert lecture on implementation of application using AI algorithm. He first explain What is AI and which are different application we can implement using AI algorithm .explain AI algorithm and Explain how we can implement any application using AI algorithm.



Program outcome achieved:-After completion of this lecture

i) Student should understand Different AI algorithm for application.

ii) Student has been able to implementation of application using AI algorithm.

## One Day Workshop on LaTeX for thesis and research papers writing

Objectives of the Event: In Latex Workshop all students will learn to:

- ▲ Gain the knowledge about documentation on open source tool.
- ▲ Participants were developed a basic understanding of Latex.

Department of Electronics and Telecommunication Organized the One Day Workshop On LaTeX for thesis and research papers writing on 30/08/2019 in VLSI & Signal Processing Lab (411).

Contents Delivered in Workshop:

- ▲ What is Latex ?
- ▲ Why should we use Latex
- ▲ Latex Installation and Environment Setup
- ▲ Resume Writing
- ▲ Report Writing
- ▲ Paper Writing
- ▲ Presentation Preparation



Outcomes: Every student edited IEEE research paper on Latex and gain how to insert image, sub images, equation, table, cross reference in research paper. Now they can insert all these confidently in any kind of latex format of IEEE, Elsevier and Springer. Also they learn how to make resume in different Latex format.

## Expert Lecture on Study of Applications using different types of Motors

Objectives of the Event: -

1. To learn Different Types of Motors.
2. To learn different application using different types of Motors

Department of Electronics and Telecommunication organized Expert Lecture on Study of Applications using different types of Motors on 31/07/2019.

Prof.VilasBugade deliver expert lecture on study of application using different types of Motors. He first explain what is Electrical machines and construction of Motors. Then Explain Which are different application we can implement using different types of motor.



Program outcome achieved:-After completion of this lecture

i) Student should understand construction of different types of motor.

ii) Student should able to choose different motor for different application.

## Workshop on Drone Manufacturing

Objectives of the Event: - i.To learn how to manufacture Drone Model. ii.To learn different sections of Drone.

iii.ToLearn flying of Drone

Department of Electronics and Telecommunication organized Workshop on Drone Manufacturing on 17/08/2019.

Drones have been used in military for many years now and recently, there has been a drastic increase in the usage of Drone in other fields such as precision agriculture, security and surveillance, and delivery of goods and services.

1. Introduction and Applications

5. Sensors

9. Building Instructions

2. Dynamics of aerial systems

6. Motors

10. Flying Instructions

3. Design Aspects

7. Propellers

4. Stability and Control

8. Battery

Program outcome achieved:-After completion of this workshop

i) Student has been able to manufacture drone.

ii) Student has been able to fly drone.



## Guest Lecture on Industrial Automation and Embedded System

Objectives of the Event: -

1. To gain knowledge of Industrial automation.

2. To gain knowledge of embedded system.

Department of Electronics and Telecommunication organized Expert Lecture on Study of Applications using different types of Motors on 31/07/2019.

MPTA Education are into employability education in the area of Industrial automation and Embedded system. Mr.Jyotindranath Choudhary give the Brief introduction of Industrial automation and Embedded system.Industrial automation is the use of control systems, such as computers or robots, and information technologies for handling different processes and machineries in an industry to replace a human being.An embedded system is a controller with a dedicated function within a larger mechanical or electrical system. Mr. Choudhary give details information of application of Embedded system.

Program outcome achieved:-After completion of this lecture

1. Student should understand use of Industrial automation and what is requirement for automation study.

2. Student should understand use of Embedded system in different application.

## Guest lecture on "Transmission Lines at Radio Frequency"

Objectives of the Event:

To make students more familiar with Transmission Lines and how it is working at radio frequencies.

Content & schedule in details:

Program outcome achieved:

- 1) After completion of this Guest Lecture students able to analyze transmission lines
  - 2) Students able to understand how TL are utilized in electromagnetics.
- Target Audience and Number of Participants attended: TE Students (72)



## Design of Electric Vehicle

Objectives : To give in-depth knowledge and broad understanding on electric vehicles.

Workshop on Design of Electric Vehicle conducted from 15/07/2019 to 22/07/2019 at PCCOE&R, Ravet. This workshop given in-depth knowledge and broad understanding on electric vehicles different types of motor, it's design and working principle, different battery chemetries and selection, Battery Management System(BMS) and it's latest technologies being used globally.

The key agenda of this workshop was to offer the specific domain knowledge to EV enthusiasts and professionals on EV Motor and Battery technology. This program helped students to gain latest technology insights and knowledge build-up with case studies and Q&A session with the domain expert speakers from the industry.

The details of industry persons (DIYguru, Dheli):

1. Mr. Karthik Raju

2. Mr. Avinash Singh

3. Mr. Venkat Katta



Outcomes: Proposed workshop on electric vehicle course provided advanced knowledge and hands-on, in design, analysis, control, calibration, and operating characteristics of EV.

## PCB Design, Simulation & Product Development

Objectives: To add new scopes to educate concepts and proficiency among the students in the field of Electronics Product Development.

Department of Electronics and Telecommunication organized PCB Design, Simulation & Product Development for TE Students of E&TC Engineering during 17th June 2019 to 20th June 2019. The workshop was conducted in collaboration with Esston Technology, from Pune. The company has a fast growth in PCB designing and Robotics. The company's Chief Executive Mr. Sunny S. Hapse accompanied with Mr. Mahesh Aher, Mr. Swapnil V. Agawane and Mr. Tajas R. Shilamkar attended the workshop for guiding the students in learning the technologies of the PCB Design & Simulation workshop. They have taken about 14 hours of theoretical and practical sessions. We look forward to continuous cooperation and encouragement for all future endeavors.

Outcomes: Proposed workshop definitely enhanced the designing and development skills of the students which will prove as an asset for them in their future.



## Alumni Interaction

Objectives: To guide the students regarding the preparation for interviews and to let them know importance of academic results as well as personal skills for getting success in placement.

Department of Electronics and Telecommunication organized Alumni Interaction for Students of E&TC Engineering on 18th March 2019. The objective of this to guide the students regarding the preparation for interviews and to let them know importance of academic results as well as personal skills for getting success in placement.

Jerin Geevarughese, student of 2018 batch, working as Analyst in Capgemini, Bangalore was invited for the interaction.



Jerin shared his experience during college days and told the student his preparation about capgemini. It took all over through his journey that started with his aptitude preparation. He also told students about the Capgemini and training he is undergoing.

Lastly he concluded his interaction by saying that plan your work carefully. Without planning nothing will be possible and successful.

We look forward to continuous cooperation and encouragement for all future endeavors.

Outcomes: Tips for aptitude and interview preparation through real life experience alumni.

## Alumni Interaction



Objectives: To guide the students regarding the entrepreneurship and to let them know importance of academic results as well as innovative for getting success in business.

Department of Electronics and Telecommunication organized Alumni Interaction for Students of E&TC Engineering on 19th July 2019. The objective of this to guide the students regarding the entrepreneurship and to let them know importance of academic results as well as personal skills for getting success business.

Mahesh Pawar, student of 2019 batch, placed in TCS and also has a start up names ECOZ BOLT was invited for the interaction.

Mahesh shared his experience during college days and told the student his goal of becoming entrepreneur. He told student about the project topic selection and how it can be converted into a product.

Lastly he concluded his interaction by showing them his product. Students enjoyed a ride of e-bicycle and got motivated with this.

We look forward to continuous cooperation and encouragement for all future endeavors.

Outcomes: Tips for success as entrepreneur and motivation for start-ups

## Alumni Interaction

Objectives: To guide the students regarding the preparation for interviews and to let them know importance of academic results as well as personal skills for getting success in placement.

Department of Electronics and Telecommunication organized Alumni Interaction for Students of E&TC Engineering on 04th July 2019. The objective of this to guide the students regarding the preparation for interviews and to let them know importance of academic results as well as personal skills for getting success in placement.

Ruturaj Yadav, Laxmi Sonimindia and Snehal Sawant, student of 2019 batch, placed in different MNCs were invited for the interaction.

ruturaj shared his experience during college days and told the student his goal of becoming entrepreneur. Laxmi and snehal took all over through their journey that started with aptitude preparation.

Lastly he concluded his interaction by saying that plan your work carefully. Without planning nothing will be possible and successful.

We look forward to continuous cooperation and encouragement for all future endeavors.



## 'C' Constructo Competition for SE and TE E&TC Students

Objectives of the Event:

- ▲ To develop logics which will help students to create programs, applications in C.
- ▲ To learn the basic programming constructs student can easily switch over to any other languages in future

Department of Electronics and Telecommunication organized 'C' Constructo Competition for SE and TE E&TC Students 2nd August , 2019 'C' programming language is interesting language to create the different application by using Variable Naming and Handling Datatype, structures, functions , Pointer, Looping and Conditional Statements, File Handling , System Level Operations using inbuilt headers.



EteSA arranged 'C' Costructo competition for SE & TE students.

Due to this competition, students got confidence about C programming skills . As this competition is arranged with help of HackerRank website, It was easier for students to write and execute program.

PROGRAM OUTCOME:After this competition, Students are able to write C Language program with confidence.

## GUEST LECTURE



Guest lecture on the topic "From Digital Signal Processing to Artificial Intelligence" was organized for TE E&TC students on 29th July 2019. The speaker for the session was Mr. Parag Hirulkar from TABSquare, Bangalore.

The main aim of this session to cover the Content beyond Syllabus point. The role of Digital Signal Processing in AI and Machine Learning is delivered by the speaker.

The outcome of this session is that student start thinking the subject in application based and took active participation in solving the problems and try to connect it with AI and ML

## Expert talk on "How to select BE project to get your dream job"

Objectives of the Event:

To bring awareness among students regarding the importance of standing out in a crowd.

To realize the importance of confidence, communication skills and overall personality development for job interviews and other phases of life.

Department of Electronics and Telecommunication organized Expert talk on "How to select BE project to get your dream job" on 23rd July , 2019. We are living in a world which has evolved and developed in ways no one had imagined. This development has created opportunities like never before. But with opportunities the competition in this modern world has also increased enormously.

The E&TC department had organized a Seminar for its students in regard with the Awareness on the various points students should focus on to make their resume and job interview an effective one. It was conducted on the 23rd of July 2019 for the students of the E&TC students.

The seminar informed the students about the importance of communication skills, group discussion, innovative thinking and public speaking. The speaker discussed about the significance of personality development and the importance of a good BE project for the students' resume. Lastly, how one can excel in life and their career if they make themselves confident in interpersonal communications was realized by students.



Program outcome achieved

In this event students learnt how to improve their knowledge by reading various books, practicing their English skills and group discussions and how thinking out of the box can take a person to different heights in life.

# Painting



Salim Lakade, BE 2021



SADHU



Sojwal Patil, BE 2020



Sojwal Patil, BE 2020



Pranjali Wagh, BE 2020



Chinmayee Chitnis, BE 2020



Sojwal Patil, BE 2020

# Sketches



Salim Lakade, BE 2021



Mrunal Deshmukh, BE 2020



Samruddhi Jangam, BE 2020



Salim Lakade, BE 2021



Samruddhi Jangam, BE 2020



Sojwal Patil, BE 2020

# Photography



Jyot Babrah, BE 2020



Sajid Chaus, BE 2020



Sojwal Patil, BE 2020



Omkar Gore, BE 2020



Sanket Shetgaonkar, BE 2020



Sojwal Patil, BE 2020



Sojwal Patil, BE 2020



Sanket Shetgaonkar, BE 2020



Jyot Babrah, BE 2020



# EXPRESSION-2020

Expression 2k20 scheduled on the 15th of February 2020 was a memorable and heart touching event for the PCCOE&R family, on 12th Feb. and 14th Feb. We celebrated the Theme day and Traditional day with active participation of students and faculty. Various performances that included dances, Singing, Drama, and Fashion shows were showcased and could be seen in the best attitude.

The prize distribution ceremony was initiated during the intermission and all the staff and students securing the best position in the academic, sports, cultural field were honored by the guests. The guest of honor for the Expression 2K20, is the very talented and Famous singer,

Dr. Utkarsh Shinde and Music director Tejas chavan graced us with his presence on the Cultural day.



# EXPRESSION-2020



# मराठी राजभाषा दिन सोहळा वृत्तांत

पिंपरी चिंचवड अभियांत्रिकी व संशोधन महाविद्यालय, रावेत येथे गुरुवार, दिनांक २७ फेब्रुवारी २०२० रोजी मराठी राजभाषा दिन मोठ्या उत्साहात साजरा झाला.

संस्थेच्या कला-विभागातर्फे दिवसभरात मराठी निबंध स्पर्धा, वक्तृत्व स्पर्धा, काव्यलेखन स्पर्धा, वादविवाद स्पर्धा इ. अनेक स्पर्धांचे आयोजन केले गेले. कला-विभागाच्या प्रमुख प्रा. ओषे, प्रा. खरे व कला-विभागाचे विद्यार्थी कार्यकर्ते यांनी स्पर्धांचे आयोजन उत्तम केले होते. महाविद्यालयातील विद्यार्थ्यांच्या भरगोस प्रतिसादामुळे सर्वच स्पर्धा अतिशय चुरशीच्या झाल्या. प्रा. रणदिवे, प्रा. वेवले, प्रा. राहणे यांनी स्पर्धा परीक्षणाचे काम पहिले.

संस्थेच्या संगोष्ठीकक्षात संध्याकाळी पारितोषिक वितरण सोहळा पार पडला. कवी सुरेश भट यांच्या झुलाभले आम्हास भाग्य बोलतो मराठीहू या गीताने सोहळ्यास सुरुवात झाली. विविध स्पर्धांमधील यशस्वी विद्यार्थ्यांना मान्यवरांच्या हस्ते बक्षिसे देण्यात आली, तसेच परीक्षकांचा सन्मान करण्यात आला.

याच सोहळ्यात कुसुमाग्रज मराठी वाङ्मय मंडळाची स्थापना करण्यात आली. मराठी साहित्याचे, लेख, काव्ये, भाषणे, कादंबऱ्या इत्यादिकांचे समृद्ध दालन नवीन पिढीसमोर खुले व्हावे, महाविद्यालयातील विद्यार्थी व कर्मचाऱ्यांस मराठी वाचनाची व लेखनाची गोडी लागावी, मराठीचा प्रचार व प्रसार व्हावा हि मंडळाची उद्दिष्टे असल्याचे मंडळाचे अध्यक्ष डॉ. समीर सावरकर यांनी आपल्या भाषणात सांगितले. महाविद्यालयाचे प्राचार्य डॉ. हरीश तिवारी यांनी मराठी भाषा दिनानिमित्त आयोजित स्पर्धा उपक्रमाबद्दल समाधान व्यक्त करून कुसुमाग्रज मराठी वाङ्मय मंडळाच्या कार्यास आशीर्वाद दिला. शेवटी पृथ्वीचे प्रेमगीत या कुसुमाग्रजांच्या कवितेच्या रसग्रहणाने मराठी राजभाषा दिन सोहळ्याची सांगता झाली.



# Conference on Indian Patents, Copyrights, Innovations and Startups (CIPCIS 2019) For Indian IPR Holders

Venue : PCCOER, Ravet Pune

Date : 21st and 22nd December 2019

Prof. Dr. Rahul Mapari

Pimpri Chinchwad Education Trusts

**PIMPRI CHINCHWAD COLLEGE OF ENGINEERING & RESEARCH, RAVET,  
PUNE-412101**

**Conference on Indian Patents, Copyrights, Innovations and Startups (CIPCIS2019)**

**21st, 22nd December, 2019**

2-Days Conference on Indian Patents, Copyrights, Innovations and Startups (CIPCIS2019) was the first ever conference organized by Pimpri Chinchwad College of Engineering and Research (PCCOE&R), Ravet Pune during 21st December to 22nd December 2019. Conference aims inline the Nation's vision to emerge as a Five Trillion Dollars Economy through Research, Innovation and Creation of Wealth through IPR. CIPCIS-2019 puts sincere efforts to bring together investigators/panelists from across India, to share their insight in diverse domains of Intellectual Property (IP). The conference is organized in association with CDAC, Mahindra Rise, Institute of Engineers, DIPEX, Mettle Innovations, Maharashtra Times, QCFI, MS Law Partner, Builders Association of India. The objectives of this conference were,

1. To help inventors to protect their research and create opportunities for revenue generation.
2. To help inventors to overcome the challenges of establishing technology, expertise, knowledge, resources and facilities in all scientific discipline.
3. To bridge the gap between the inventors and investors for commercializing new products for the society and the nation.
4. To help new future innovators to learn recent developments and technological advancement going on in the field of Intellectual Property.
5. To create awareness in the field of IPR, its violations and fighting the threat of forging and piracy to enhance IP culture.
6. To provide the platform and guideline to publish the IPR.

The CIPCIS-2019 was a flagship conference of the PCCOE&R and represents one of the largest gatherings of Inventors and Industry professionals in fields of;

- + Industrial Electronics
- + Mechanical and Automobile
- + Computer and IT
- + Civil, Pharmaceuticals, Agriculture and Biomedical Science

The Governor of Maharashtra his highness honorable Bhagat Singh Koshiyari was the chief guest of this conference. The conference was inaugurated by the Chief Patron Mr. Bhajjan Kazi, Trustee of PCET, Guest of honors Dr. A. D. Shaligram, Dean Science & Technology, Mr. Mahesh Kulkarni, Director, CDAC, Pune, Dr. K. S. Kardam, Former Senior Joint Controller of Patents & Designs, Indian Patent Office, Mr. Sant Ranjan, Principal

Architect, CTO, KPIT, Dr. B.B.Kale, Director, Scientist G, Centre for Materials for Electronics Technology, Ministry of Electronics & Information Technology, Govt. of India, Mr. Sitaraman, Principal Engineer – IP, Head, IP, Mahindra Research Valley Chennai, Ms. Hana Onderkova, Head IP, European Business and Technology Centre, Mr. Chandrashekhar Chincholkar, President, KP Capital Advisors Pvt. Ltd. and Patron of the conference and Principal of PCCOE&R Dr. Harish Tiwari on 21st morning.

Dr. Rahul Mapari and Dr. Archana Chaugule Conveners of conference welcomed the delegates and gave a brief overview of PCET, PCCOE&R and enlightened the gathering regarding response for this conference. In their speech they told around 450 patents, 140 copyrights and 25 startups and 137 investors/industry representatives registered for this conference all over the India. Dr. Harish Tiwari, Patron of the conference and Principal of PCCOE&R told the need of such conferences in order to contribute in wealth creation through IPR towards making India as a 5 Trillion dollar economy. He also explored the comparison of GDPs of some developed countries with our country. All the guest of honors express their view over the IPR conference and congratulate the host institute PCCOE&R for organizing this unique conference. The Proceedings Unveiling was done by all the delegates of dais.

The inauguration was soon followed by the key note address of Dr. K.S. Kardam, Mr. Ram Sitaraman. In the afternoon, the second session started with Ms. Hana Onderkova giving a talk on Way Forward to European Market, Mr. Sandeep Patil & Mr. Sarvesh S Patel on "Innovations in computer Engineering" and by Mr. Chandrashekhar Chincholkar on "Business Valuation". The keynote was followed by IPR session I from 3.00PM to 6.00PM around 120 IPRs (30 in each domain) were presented by the inventors.

As part of the conference, there were a 25 stalls/ exhibitions set up by inventors from Mettle Innovations, Pune, Magic Incubation Center, Aurangabad, Pratibha Institute of Management, Extreme Engineers, Hindustan Antibiotics School, Pune, MIT world peace university, PCCOE Nigdi and PCCOE&R.

The conference was started on 22nd by the keynote of Abhishek Magotra, Managing Partner, MS Law Partners, Mr. Nilesh Pandit, Tata Consultancy Services on "Best IP practices, and strategies", Mr. Kashinath Deodhar, Senior Scientist, DRDO on "Missile or Weapons Technology", B. K. Mukul, DGM Training and by Kumar Anshu, Founder & CEO, Bots 'N Brains. The keynote was followed by IPR session 2 from 1.00PM to 3.30PM around 120 IPRs (30 in each domain) were presented by the inventors.

During the valedictory program conducted in the evening on 22nd December, the Chief Guest Dr. Aditya Abhyankar, Dean, Department of Technology, Savitribai Phule Pune University, Guests of Honor Dr. M. B. Kumthekar, Principal Govt. COE, Nagpur, Pravin Kolhe, Superintending Engineer, Water Resource Department, Govt. of Maharashtra congratulated the Management, institute and the organizing committee for organizing a national conference on a contemporarily relevant theme and offered their respective organizations help and support in organizing such programs in the future too.

A few participants who gave their feedback on the conference praised the institution for hosting its first ever conference in such an impeccable manner and said that they were overwhelmed by the hospitality offered by the organizers.



Prof. Dr. Harish Tiwari, Patron & Principal PCCOE&R Welcomed & Address the Gathering



Conference Proceedings Unveiling by honorable Dais



Dr. Arvind Shaligram, Guest of Honor Address the Gathering



Mr. Sant Ranjan, Guest of Honor Address the Gathering



Dr. Arvind Shaligram, Guest of Honor Address the Gathering



Mr. Sant Ranjan, Guest of Honor Address the Gathering



Inventors showing demos of their startups



Inventors showing demos of their startups



Round of Delegates in Exhibition



Presentations given by Inventors in front of Investors



Presentations given by Inventors in front of Investors



A keynote Speech by Dr. K. S. Kardam, Former Senior Joint Controller of Patents & Designs



Dr. Mahesh Kulkarni, CDAC-Director guest of honor address the gathering



Dr. Mahesh Kulkarni, CDAC-Director guest of honor address the gathering



Dr. B B Kale, Director-CMET, Guest of Honor Address the Gathering



Shri. Bhajan Kazi, Trustee PCET Address the Gathering



Dr. B B Kale, Director-CMET, Guest of Honor Address the Gathering



Dr. M. B. Kumthekar, Principal Gout. COE, Nagpur certificate distribution to the participants



## BLOOD DONATION CAMP

NSS Department of Pimpri Chinchwad College of Engineering and Research has Organized “Blood Donation Camp” very successfully with help of “Sasoon Blood Bank” Pune. All volunteers of NSS, students and staff have participated in this activity. The total 171 blood bags have been collected.

Blood donation camp has been organized on 25th Feb. 2020 on the memorable occasion of S.B. Patil Jayanti.



Certificate handover to Principal Dr. H. U. Tiwari



Blood Donation Camp – Seminar Hall

In this activity all the arrangements have been done by Mr. Sushant Balgude and Miss Pranita More. All the volunteers of NSS are enthusiastically involved in this activity.

Mr. Tushar B. Gaiwad NSS Coordinator has given Vote of thanks to all Volunteers of NSS for doing all the arrangements of this event.



Mahatma Gandhi Jayanti



As part of the 150th year of birth anniversary of Mahatma Gandhi, on the 02/10/19, We PCCOER, NSS Unit in association with the Board of Students' Development, SPPU, celebrated Gandhi Jayanti by doing Swachhata Abhiyan at Ravet Bridge River. All the volunteers of PCCOER, PCCOE AND NMIT involved in Event of Human chain for River Cleanliness. On Occasion of Gandhi Jayanti, Principal sir has given talk on Swachhata and Motivated NSS students who have actively participated in Swachhata Abhiyan.

In this event Principal sir has given message and motivated to all the students and staff members about keeping our campus clean and to do the duty of spreading the importance awareness of cleanliness.

Mr. Tushar B. Gaiwad NSS Coordinator has given Vote of thanks to all Volunteers of NSS for doing all the arrangements of this event.

# Celebration of 5th International Yoga Day - 21st June 2019

## (As part of PCCOER, NSS unit activity - A.Y. 2019 -20).

Pimpri Chinchwad College of Engineering and Research was celebrated 5th International Yoga Day on 21st June 2019. As part of the celebration, PCCOER NSS unit was successfully conducted Yoga session and meditation for students and staffs.

In the beginning, Principal Prof. Dr. H.U. Tiwari and Mrs. Sonal Gandhe were inaugurated the programme by delivering the speech regarding importance of yoga in day today life



Felicitation of Yoga Trainer



Yoga session taken by Dr. Sameer Sawarkar

After principal's address, all the students participated in different Yoga sessions arranged for them.

Then yoga session was conducted by Mrs. Sonal Gandhe and Dr. Sameer Sawarkar. They conducted Eight yoga sessions for all SE, TE and BE students as well as for faculty. About 600 students and 40 Faculty were participated in different yoga session.



Students performing Yoga in 4th Yoga session



Sonal Gandhe Conducted 2nd Yoga session

The schedule for yoga session was as follows -

Year / Branch	Time
All Teaching & Non Teaching	9:45 am to 10:30 pm
BE Comp. & NSS STUDENTS	10:30 am to 11:15 pm
BE ETC / BE CIVIL	11:15 am to 12:00 pm
TE COMP / TE ETC	12:00 to 12:45 pm
TE CIVIL / SE COMP	12:45 pm to 1:30 pm
SE ETC / SE CIVIL	1:30 pm to 2:15 pm
SE MECH	2:15 pm to 3:00 pm
TE MECH	3:00 pm to 3:45 pm
BE MECH	3:45 pm to 4:30 pm

The following NSS Volunteers are involved in coordination of Yoga day -

- i) Priyanka Patil
- ii) Lokesh Chambhare
- iii) Aditya Patil

Mr. Tushar B. Gaiwad NSS Coordinator has given Vote of thanks to Mrs Dr. Sameer Sawarkar and Mrs Sonal Gandhe and her Team for conducting Yoga sessions for all students and Faculty.

# NSS Winter Camp

NSS Special Camp – 5th January to 13th January 2020

(As part of PCCOER, NSS Unit Activity – A.Y. 2019 –20).

PCCOER NSS Unit has organized NSS Special Camp from 5th Jan. 2019 to 13th Jan. 2020. As part of the special camp, PCCOER NSS unit successfully worked on Awareness of Schemes.

In the beginning, Principal Prof. Dr. H.U. Tiwari guided us for better management of special camp activities.



All the Volunteers Participated in preparing History of Villages by doing survey of village. The first day of camp is utilized for collecting and making report on History of village. The head of this activity is Miss Pranita More

## Swachh Bharat Abhiyan. (Temple and Gram Swachhata)

All the volunteers have participated in gram Swachhata abhiyan. They have collected around 12 big bags of plastic from different part of the village.

All the volunteers have participated in gram Swachhata abhiyan. They have collected around 12 big bags of plastic from different part of the village.



## Medical Health Check up Camp

For Vadeshwar Mau Gram Panchayat we have organized Medical health check up programme. And also we have distributed free medicines for villagers. Health Check up Camp is organized with the help of Sasoon Hospital. Total team of 11 doctors have involved in health check up camp.

All NSS volunteers of PCCOE, PCCOE& R and NMIT were actively participated in this activity. Along with students some faculty members also participated enthusiastically.

## Awareness Scheme & Painting of Temple.

As social responsibilities all the volunteers have given training and awareness to the people of different Schemes available to them. Also students were involved in Painting of Main Temple of Mau Village.



### Andhashraddha Nirmoolan Samiti Programme.

On Next day NSS Unit has organised a program for villages in collaboration with Andhashraddha Nirmoolan Samiti (Chakan Unit) for fighting against superstition related with different magic and snake bite. Mr. Atul Sawakhande has successful in convincing villagers about different superstitions.



### Bandhara Construction.



Bandhara Construction at Vadeshwar-Satwai Wadi Tal -Maval, Dist.-Pune Date:10/01/2020

### Cultural Programme:

Last day of camp we organised Cultural programme for kids in villager. At the time of Cultural programme we have Spread message of Cleanliness and Sanitation as well as awareness of digitization by doing street Play (Pathnatya



Mr. Tushar B. Gaikwad NSS Coordinator has given Vote of thanks to all Volunteers of NSS

Street Play during Cultural Programme

## “Swachh Wari Harit Wari Abhiyan ”- 2nd October 2019

(As part of PCCOER, NSS unit activity - A.Y. 2019 -20).

### Swachh WARI Abhiyan. ( On Wari Marg Near Bhakti Shakti Chowk)

As per given Schedule by NSS and SPPU We have visited On Wari Marg Near Bhakti Shakti Chowk area and Performed Swachhata activity Under Swachha WARI Abhiyan on 26th June 2019 . We have Cleaned surrounding of Wari Marg area. Around 15 bags garbage have been collected and 31 Volunteers of PCCOER are involved in this activity.



As per given Schedule by NSS and SPPU We have visited On Wari Marg Near Bhakti Shakti Chowk area and planted Trees Under Harit WARI Abhiyan.



### Harit Wari Abhiyan

## Yoga Workshop Conducted During Induction

(As part of PCCOER, Induction Activity - A.Y. 2019 -20).

Pimpri Chinchwad College of Engineering and Research was conducted Yoga and Meditation workshop for First year engineering students as part of Induction programme.

Mrs Sonal Gandhe and his team members has conducted different yoga sessions for First year engineering Students. Daily three Yoga sessions have been conducted by Mrs. Sonal Gandhe and his team members. About 300 students and 10 Faculty were participated in different yoga session and meditation

### Conducted 1st Yoga session :



Students performing Yoga



Students performing Yoga



Students Performing Yoga.



Students performing Meditation

## Guinness World Record Activity -23rd June 2019

SPPU created Guinness World Record of in 2 hrs 38 minutes and 30 seconds with total of 16731 Distribution of Saplings (Neem) in presence of Chief Minister of Maharashtra Shri. Devendraji Fadnavis.

As part NSS SPPU our NSS Unit of PCCOE&R Ravet involved in the event with 115 NSS Volunteers. A total of 16,731 saplings of Neem were distributed to National Social Service (NSS) volunteers in the SPPU campus, in the presence of chief minister Devendra Fadnavis and vice-chancellor Nitin Karmalkar. We are proud to being part of this event. Our volunteers were present in the event in white T-Shirts.



Guinness World Record Activity at SPPU camp

## Tree Plantation Activity -1st July to 30th July 2019

(As part of PCCOER, NSS unit activity - A.Y. 2019 -20).

PCCOER celebrated Tree Plantation Activity -1st July to 30th July 2019.

As part of the tree plantation activity, PCCOER NSS unit successfully planted more than 110 saplings.

In the beginning, Principal Prof. Dr. H.U. Tiwari motivated for planting a saplings.

Around 110 saplings were planted in two different locations in Month of July 2019. About 70 saplings were at Harit wari activity conducted at Nigdi road Near Bhakti Shakti Chowk ( In defence area), While remaining saplings were planted in Dehu road Police station.

All NSS volunteers were actively Participated in this activity. Along with students some faculty members also participated enthusiastically.



Tree Plantation Event Organized by Civil dept. And NSS Unit PCCOE&R at Dehu Road police station.



Tree Plantation of Harit wari Event Organized by PCMC AND SPPU at Nigdi road Near Bhakti Shakti Chowk

Mr. Tushar B. Gaikwad NSS Coordinator has given Vote of thanks to all Volunteers of NSS for successful tree plantation.

## “Swachh Bharat Abhiyan” – 2nd October 2019

(As part of PCCOER, NSS unit activity - A.Y. 2019 -20).

### Swachh Bharat Abhiyan. ( Ravet Bridge and river Area)

As per given Schedule by NSS and SPPU We have visited Ravet Bridge and Pavana river area and Performed Swachhata activity Under Swachha Bharat Abhiyan. We have Cleaned all surrounding of Ravet Bridge and Pavana river area. Around 25 bags plastic have been collected and 30 Volunteers of PCCOER are involved in this activity.



Swachh Bharat Abhiyan At Ravet Bridge



Swachh Bharat Abhiyan at Pavana River near Ravet Bridge

## “Rashtriya Ekta Diwas” – 31st October 2019

(As part of PCCOER, NSS unit activity - A.Y. 2019 -20).

NSS Department of Pimpri Chinchwad College of Engineering and Research has Celebrated “ Rashtriya Ekta Diwas ” very successfully on Occasion of Sardar Vallbhai Patel birth anniversary. All volunteers of NSS, students and staff have participated in this activity. All the students have taken the pledge for Unity.

All the volunteers have motivated the all students of college by giving pledge of Unity on Occasion of Sardar Vallbhai Patel birth anniversary.



Students taking pledge for National Unity on Occasion of Sardar Vallbhai Patel birth anniversary



**ADMINISTRATIVE OFFICE STAFF**



**Library Staff**



**Housekeeping Staff**



**Security Staff**



**Librarian**



**College Library**



**Reading Hall**

# Training & Placements



Name : Dr. Shitalkumar Adhar Rawandale  
Email Id : s.rawandale@gmail.com  
Mobile No : +91 9422792663, +91 9975490622  
Designation : Dean. Industry Institute Interaction PimpriChinchwad Education Trust (PCET) President, Maharashtra T.P.O. Association.

We, at PCET's PCCOE&R try to connect with as many companies as possible for placement of students. The T&P cell keeps on inviting various companies and reputed firms for campus recruitment. It modules the engineering grades to young corporals. The cell is sensitized to function all through the year towards generating placement and training opportunities for the students. It gives us immense pleasure to shape our students career life by giving them opportunity to get placed in reputed industries. We believe that the backbone of T&P Cell is our student volunteers of T&P Cell who work very hard with full enthusiasm to conduct the recruitment drives smoothly. All the students recruited from PCET's PCCOE&R, Ravet, Pune have proved to be a great asset to all the companies/organizations they joined. We have witnessed these students achieve great heights in their life from Astronauts to CEO's to Entrepreneurs. I am certain that our present graduates would maintain the same level of performance and prove to be a great asset to their recruiting organizations/companies. Also to mention, we have left no stone unturned to groom our students, not only in their chosen discipline, but also broaden their mindsets and create positive attitudes thus equipping them with all qualities to make them an asset to whichever institute/organization they may join.

## HIGH LIGHTS

- ◆ Total 650+ PCET students got placed from the current 2020 batch.
- ◆ More than 179+ students of PCCOE&R from 2020 batch are placed till date.
- ◆ More than 150 Recruitment drives have been conducted for 2020 batch till now.
- ◆ Up till now a total 22 students from the 2020 batch are placed with a salary of 5 Lacs & more.
- ◆ 183+ placements (86%) from 2019 batch students of PCCOE&R.
- ◆ Two International Placements with salary of 20 Lacs and 17 Lacs from 2018 batch.
- ◆ 35+ Off Campus Drives have been conducted in the last 10 months (Apr 2019-Jan 2020) at PCCOE&R.
- ◆ Quality Placement of 55% students in IT Product & Core Companies.
- ◆ In the last 6 months, PCCOE&R has conducted campus drives in which more than 17878 students from across India participated in the drives.
- ◆ Regular Soft skill training is given to second year students.
- ◆ Regular Aptitude preparation sessions for third year students have been conducted.
- ◆ Regular GD/PI sessions are conducted for Final year students.
- ◆ Workshop conducted on "Profile building and Career options" offered by BYJU's
- ◆ Expert lectures on career option, Personality Development, etc
- ◆ The Students undergo an internship semester (6th Semester) in various industries.
- ◆ GRE Scholarship Test conducted through Imperial Overseas Education.
- ◆ PCET's PCCOE&R's 33 students are learning Japanese language & 10 Students learning German Language.
- ◆ PCET's PCCOE&R organized "Mega off Campus drive of Capgemini" for pass out students of Graduate Engineering in which more than 1900+ candidates appeared.
- ◆ PCET's PCCOE&R organized "Mega off Campus drive of Dassault System" for pass out students of Graduate Engineering with 2000+ candidates appeared.
- ◆ PCET's PCCOE&R organized "Mega off Campus drive of IBM" for pass out students of Graduate Engineering with 1600+ candidates appeared



**Prof. Santosh A. Mundik**

**Designation :- Assistant TPO**

**Email :- [santosh.mundik@pccoer.in](mailto:santosh.mundik@pccoer.in)**

**Mob. - 8149951296**

- ◆ In the year 2019-20, PCCOE & R has conducted 252 Recruitment drives for 2019-20 batch students.
- ◆ We proudly say that 77.43% of PCCOE & R 2019-20 batch eligible students are placed.
- ◆ Total placement offers of various companies to the students with respect to eligible students from batch 2019-20 are 92.03%.
- ◆ Ms. Sudeshna Udaysingh Thakur student of 2020 Batch from Computer branch placed in product Development Company VMware with package 10 LPA.

### Quality Placements

- 11 Offers of 2019-20 Batch students are above 07 Lacs.
- 22 Offers of 2019-20 Batch students are above 05 Lacs.
- 96 Offers of 2019-20 Batch students are above 04 Lacs.
- Around 55% of PCET students got placed in IT Product or Core Companies.

### Quantity Placements

- Capgemini recruited 47 PCOE& R students of 2019-20 batch.
- TCS recruited 17 PCOE& R students of 2019-20 batch.
- Amazon recruited 12 PCOE& R students of 2019-20 batch.

- ◆ In the year 2019-20, PCCOE & R has conducted 252 Recruitment drives for 2019-20 batch students.
- ◆ We proudly say that 77.43% of PCCOE & R 2019-20 batch eligible students are placed.
- ◆ Total placement offers of various companies to the students with respect to eligible students from batch 2019-20 are 92.03%.
- ◆ Ms. Sudeshna Udaysingh Thakur student of 2020 Batch from Computer branch placed in product Development Company VMware with package 10 LPA.
- ◆ **Quality Placements :**
- ◆ 11 Offers of 2019-20 Batch students are above 07 Lacs.
- ◆ 22 Offers of 2019-20 Batch students are above 05 Lacs.
- ◆ 96 Offers of 2019-20 Batch students are above 04 Lacs.
- ◆ Around 55% of PCET students got placed in IT Product or Core Companies.
- ◆ **Quantity Placements :**
- ◆ Capgemini recruited 47 PCOE& R students of 2019-20 batch.
- ◆ TCS recruited 17 PCOE& R students of 2019-20 batch.
- ◆ Amazon recruited 12 PCOE& R students of 2019-20 batch.
- ◆ Total placement offers of various companies to the students with respect to eligible students from batch 2018-19 are 88.15%.
- ◆ 100% Placement for 2019 Batch Computer Department (51 students out of 75 were Eligible and all are placed).
- ◆ Highest package for 2019 Batch is 7.5 LPA (Ankita Vaidya).
- ◆ 13+ students from 2019 Batch got packages of more than 5 LPA.
- ◆ Average salary for the 2019 batch students is 3.54 LPA.
- ◆ Prof. Santosh A. Mundik
- ◆ Designation :- Assistant TPO
- ◆ Email :- [santosh.mundik@pccoer.in](mailto:santosh.mundik@pccoer.in)
- ◆ Mob. - 8149951296

- ◆ 180+ Students of PCCOE&R from 2019 Batch are placed till now in reputed companies like Capgemini, Zensar, Mindtree, Hexaware etc.
- ◆ Probably the First Engineering College in India with 77% Placement in the First Batch.
- ◆ Two International Placements with salary of 20 Lacs and 17 Lacs from 2018 batch.
- ◆ 100% Placement for 2018 Batch Computer Department (51 students out of 65 were Eligible and all are placed)
- ◆ PCET's First International Placements to Ms. Shruti Subramaniyam (PCCOE&R 2018 Batch) with package of 20 LPA. and Ms. Anjali Teke (PCCOE&R 2018 Batch) at Tokyo with a package of 17 LPA.
- ◆ 190+ Students of PCCOE&R from 2018 Batch are placed till now in reputed companies like CapGemini, Zensar, Mindtree, Hexaware etc.
- ◆ PCET's PCCOE&R's 33 students are learning Japanese language & 10 Students learning German Language.
- ◆ As an integral part of Training & Placement regular Soft Skill training is provided to Second Year Students whereas third year students undergo Aptitude, GD & PI Preparation course.
- ◆ Expert lectures on career option, Personality Development, etc
- ◆ The Students undergo an internship (6th Semester) in various industries.
- ◆ GRE Scholarship Test conducted through Imperial Overseas Education.
- ◆ PCCOE&R signed MoU with Zensar Technologies Ltd., Pune for ESD program and another MoU with miTu Skillologies, Pune for Value Added programs.
- ◆ PCET's PCCOE&R organized "Mega off Campus drive of Capgemini" for pass out students of Graduate Engineering in which more than 1900+ candidates appeared.
- ◆ PCET's PCCOE&R organized "Mega off Campus drive of Dassault System" for pass out students of Graduate Engineering with 2000+ candidates appeared.
- ◆ PCET's PCCOE&R organized "Mega off Campus drive of IBM" for pass out students of Graduate Engineering with 1600+ candidates appeared.
- ◆ Reputed Core Companies like KSB Pumps, Alfa Laval, Godrej, Minda, Whirlpool, Volkswagen, Atlas Copco, Forbes Marshall, Dassault Systems, Tata Communication, Kone Cranes, Kirloskar, Siemens, SKF, Samsung R&D, L&T Technologies and many others recruit students of PCET.

### PCET Major Recruiters

Company	Salary (Lacs per Year)	Company	Salary (Lacs per Year)
ZF Indias	32 L	TIAA	7 L
Amazon	28 L	Capgemini	6.8 L
Directi	26 L	Accenture	6.5 L
Konica (Japan)	20 L	Informatica	6 L
Techfirm (Japan)	17 L	MediaOcean	6 L
HSBC	12 L	ThoughtWorks	5.8 L
Adobe	11 L	Tibco	5.5 L
Flipkart	11 L	Dassault system	5.5 L
Credit Suisse	11 L	Cummins	5.5 L
VMware	10 L	TetraPak	5.4 L
LTI	10 L	Value Labs	5.3 L
Quantiphi	9.5 L	KSB Pumps	4.75 L
Symantec	9 L	Sagitec	4.5 L
Persistent	8.4 L	Uno Minda	4.5 L
SAP Lab	8 L	SKF	4.5 L
Pubmatic	8 L	Sungard	4.5 L
Samsung R&D	7.5 L	Siemens	4.5 L
Josh Software	7 L	Godrej & Boyce	4 L
Bombardier	7 L	Volkswagen	4 L

SOME OF OUR RECRUITERS



Sr No.	Dept	Name Of Staff	Title of Patent	Patent Number	Date
1	Mechanical	Dr. Harish U. Tiwari	A System For Drinking Water Cooler To Reduce Water Wastage And Energy Conservation.	201921047772	22-11-2019
2	Mechanical	Dr. Harish U. Tiwari	A System For Weight Indicator In Seating Arrangement	201921047773	22-11-2019
3	Mechanical	Dr. Harish U. Tiwari	A System For The Measurement & Indication Of Weight In Elevators	201921047774	22-11-2019
4	Mechanical	Dr. Harish U. Tiwari	A System Of Vehicle Indicators To Use The Hazard Lights And Direct Ion Indicators Simultaneously	201921047775	22-11-2019
5	Mechanical	Dr. Harish U. Tiwari	A System For Drinking Water Cooler For The Enhancement Of Performance	201921047776	22-11-2019
6	Mechanical	Dr. Harish U. Tiwari	A System For The Measurement And Indication Of Time With Rotating Dial	201921047777	22-11-2019
7	Mechanical	Dr. Harish U. Tiwari	A System For Tube To Remove The Inside Stored Material	201921047778	22-11-2019
8	Mechanical	Dr. Harish U. Tiwari	A System For Minimization Of Wastage Of Soap	201921047779	22-11-2019
9	Mechanical	Dr. Harish U. Tiwari	A System For Cutting Zigzag Edges On Strips	201921047780	22-11-2019
10	Mechanical	Dr. Harish U. Tiwari	A System For The Identification And Judgment For Music Composer	201921047787	22-11-2019
11	Mechanical	Dr. Harish U. Tiwari	System And Method For Retrieving A Lost Mobile Phone Based On Voice Signals	201921047789	22-11-2018

Sr No.	Dept	Name Of Staff	Title of Patent	Patent Number	Date
12	Mechanical	Dr. Harish U. Tiwari	An Integrated Keypad With Mouse For Computer	201921047790	22-11-2019
13	Mechanical	Dr. Harish U. Tiwari	A System For End Finding And Tape Cutting For Adhesive Cello Tapes	201921047791	22-11-2019
14	Mechanical	Dr. Harish U. Tiwari	A System For Smooth Ironing As Per Fabric Requirements	201921047792	22-11-2019
15	Mechanical	Prof. Tejal Patil Prof. Sneha Pawade Prof. Jayashri Chopade Prof. Rupali Patil Prof. Priyanka Chavan	PUC Expiry Indicator	201921052238	17-12-2019
16	Mechanical	Prof. Priyanka Chavan Prof. Tejal Patil Prof. Sneha Pawade Prof. Jayashri Chopade Prof. Rupali Patil	Automatic and dust free mechanism for board cleaning	201921052241	17-12-2019
17	Mechanical	Prof. Jayashri Chopade Prof. Priyanka Chavan Prof. Tejal Patil Prof. Sneha Pawade Prof. Rupali Patil	Chopping guard to avoid injury of human fingers	201921052247	17-12-2019
18	Mechanical	Prof. Rupali Patil Prof. Jayashri Chopade Prof. Priyanka Chavan Prof. Tejal Patil Prof. Sneha Pawade	Curtains with phase changing material	201921052375	17-12-2019
19	Mechanical	Prof. Sneha Pawade Prof. Rupali Patil Prof. Jayashri Chopade Prof. Priyanka Chavan Prof. Tejal Patil	Dog tying rope with elastic spring	201921052369	17-12-2019
20	Civil	Mayura Yeole	Innovative Pipette for Suction of Large volume of liquid without formation of bubbles	201921052221	17-12-2019
21	E&TC	SnehalAher- Gholap Bhagyashree Gawali Dipali Dhake Rupali Kawade Triveni Dhamale	Asmita Desai Fault Detection of Industrial Pipes Using Application of Image Processing	201921052334	17-12-2019
22	E&TC	Bhagyashree Gawali Vijaylaxmi Kumbhar SnehalAher- Gholap Dipali Dhake Rupali Kawade Triveni Dhamale Arti Tekade	in winter season	201921052263	17-12-2019

Sr No.	Dept	Name Of Staff	Title of Patent	Patent Number	Date
23	E&TC	V.S.Kumbhar Arti Tekade M.S.Andhare D.K.Divekar S.S.Jangam K.Y.Mahajan	A Smart Tool for Testing Deficient Elements in Soil	201921052371	17-12-2019
24	E&TC	V.S.Kumbhar Arti Tekade M.S.Andhare	Water Bottle with Storage Container	201921052362	17-12-2019
25	E&TC	Rupali Kawade Triveni Dhamale Dipali Dhake Bhagyashree Gawali Snehal Gholap	An efficient vehicle registration number recognition system	201921052302	17-12-2019
26	E&TC	Triveni Dhamale Rupali Kawade Dipali Dhake Bhagyashree Gawali Snehal Gholap	Advanced Onion Storage System	201921052356	17-12-2019
27	E&TC	Dipali Dhake Triveni Dhamale Rupali Kawade Bhagyashree Gawali Snehal Gholap	Multipurpose Hair belt for Hair style	201921052353	17-12-2019
28	E&TC	Arti tekade Swamini lohkare Rupali patil Prajakta patil	Secured ATM system	201921052301	17-12-2019

Sr No.	Dept	Name Of Staff	Title of Patent	Patent Number	Date
1	Mechanical	Pritam D. Desai	Alteration in Mobile charger with heat level and charging percentage indicator on the charger	201921044975	06-11-2019
2	E&TC	Shubhangi Sambare Keta Patel	Smart traffic control using DIP	201921052253	17-12-2019
3	E&TC	PUSHPA PATIL SHIVANI JADHAV	A RASPBERRY PI SMART GADGET FOR WOMEN FAFETY USING IOT	201921052296	17-12-2019

Sr No.	Dept	Name Of Staff	Title of Patent	Patent Number	Date
1	E&TC	Staff and student Dipali Dhake Pratiksha Shetiya Meryl Mascarenhas Mrunal Deshmukh	ATM security system using iris recognition by image processing	201921052340	17-12-2019
2	E&TC	Staff and student Dipali Dhake Manisha Kamble Shrushti Kumbhar Sana Pati	Sign Language Communication With Dumb Anad Deaf People	201921052215	17-12-2019

Sr No.	Dept	Name Of Staff	Title of Patent	Patent Number	Date
1	Mechanical	Bhagyshree Bhosale	An alarming system for mishandling of equipments	201921052339	17-12-2019
2	E & TC	Mrs.Ashwini Rakesh Jagnade	Aquatic Wall Garden	201921052327	17-12-2019
3	Admin	Rajashree Nilesh Darwatkar	A System for Automatic Fan speed control in accordance with room temperature.	201921052326	17-12-2019
4	Library	Rupali Sonawane	Book Record System in Reference section of library	201921052250	17-12-2019



# भावपूर्ण श्रद्धांजली!

TO OUR BELOVED,  
TRUSTEE SHRI. BHAIJANJI KAZI SIR



12 March 2020 PCET Family lost Hon. Trustee Shri. Bhaijanji Kazi sir. He was also an Ex Chairman (Sabhapati) of PCMC School Committee. We PCET family will always remember him for his caring & humanly behavior with all of us. We will also miss his Motivational speeches & Sheroshayari.

वासांसि जीर्णानि यथा विहाय  
नवानि गृह्णाति नरोऽपराणि ।  
तथा शरीराणि विहाय जीर्णा-  
न्यन्यानि संयाति नवानि देही ॥

ज्याप्रमाणे मनुष्य जुनी, जीर्ण वस्त्रे त्यागून नवीन वस्त्रे परिधान करतो, त्याचप्रमाणे आत्मा/जीव जीर्ण झालेला देह त्यागून नवीन देह धारण करतो.

मरणं प्रकृतिः शरीरिणाम विकृतीर्जीवितमुच्यते बुधैः

ज्याप्रमाणे शैशव, बाल्य, पौगंडावस्था, तारुण्य, प्रौढत्व आणि वार्धक्य या शरीराच्या नैसर्गिक अवस्था आहेत, त्याचप्रमाणे मृत्यू हि एक शरीराची नैसर्गिक अवस्था आहे. वास्तविक मृत्यू किंवा आत्म्याची अव्यक्त अवस्था नैसर्गिक आहे आणि जीवन किंवा व्यक्त अवस्था हा एक अपघात आहे.

ऋणानुबंधाने या जन्मात भेटलेलो आणि एकमेकांचे झालेले आपण सारे, पुढील जन्मात ऋणानुबंधानेच पुन्हा एकत्र येणार आहोत!

आपल्या प्रदीर्घ प्रवासातील एक सहप्रवासी त्याचे स्थानक आल्याने उतरून गेला. त्याची उणीव भासेल.

त्याची जागा रिकामीच राहिल, ती कोणीच भरून काढणार नाही! पण उद्या हीच गाडी तो पुन्हा पकडणार

आहे, आपल्याच डब्यात चढणार आहे, आपला सहप्रवासी होणार आहे, या आश्वासनाच्या आधारे आपल्याला

पुढील प्रवास तितक्याच तळमळीने चालू ठेवावा लागेल.

विश्वस्त श्री. भाईजान काझी यांना भावपूर्ण श्रद्धांजली!

### शुभाष्टक पाहनास

राचन येथे कायनास  
पु. वि. विद्यालय विकासासाठी शुभाष्टक पाहनास आयोजित करण्यात आले आहे. शुभाष्टक पाहनास शुभारंभ करण्यात आला आहे. शुभाष्टक पाहनास शुभारंभ करण्यात आला आहे.

### पुढारी

**पीसीसीओईआरमध्ये संशोधनास अनुकूल वातावरण : ज्ञानेश्वर लांडगे**  
वैशेषिक्याचे पेटंटसाठी केवळ एक दिवसाचावेळ आहे. त्यावेळीच प्रत्येक संशोधकाच्या मनातून अनेक प्रश्ने उभे राहतात. त्या प्रश्नांचे उत्तर शोधण्यासाठी संशोधकांनी अनेक प्रयत्न करावे लागतात. त्या प्रयत्नांमध्ये अनेक वेळा अपयश येऊ शकते. परंतु अशा वेळांमध्ये संशोधकांनी अडथळे दूर करून पुढे जावे लागते. अशावेळीच संशोधकांच्या मनातून अनेक प्रश्ने उभे राहतात. त्या प्रश्नांचे उत्तर शोधण्यासाठी संशोधकांनी अनेक प्रयत्न करावे लागतात. त्या प्रयत्नांमध्ये अनेक वेळा अपयश येऊ शकते. परंतु अशा वेळांमध्ये संशोधकांनी अडथळे दूर करून पुढे जावे लागते.

### पुढारी

**आगामी उत्कृष्ट महाविद्यालयाचा 'पीसीसीओईआर' ला सन्मान**  
पुणे येथील उत्कृष्ट महाविद्यालयाचा 'पीसीसीओईआर' ला सन्मान देण्यात आला आहे. उत्कृष्ट महाविद्यालयाचा 'पीसीसीओईआर' ला सन्मान देण्यात आला आहे.

### पुढारी

**माऊलील श्रमसंस्कार शिबिरात शंभर विद्यार्थ्यांचा सहभाग**  
पुणे येथील माऊलील श्रमसंस्कार शिबिरात शंभर विद्यार्थ्यांचा सहभाग घेण्यात आला आहे. माऊलील श्रमसंस्कार शिबिरात शंभर विद्यार्थ्यांचा सहभाग घेण्यात आला आहे.

### पुढारी

**पीसीसीओईआरमध्ये 'उत्कृष्ट' शिबिरात सहभाग**  
पुणे येथील पीसीसीओईआरमध्ये 'उत्कृष्ट' शिबिरात सहभाग घेण्यात आला आहे. पीसीसीओईआरमध्ये 'उत्कृष्ट' शिबिरात सहभाग घेण्यात आला आहे.

### पुढारी

**पुणे येथील उत्कृष्ट महाविद्यालयाचा 'पीसीसीओईआर' ला सन्मान**  
पुणे येथील उत्कृष्ट महाविद्यालयाचा 'पीसीसीओईआर' ला सन्मान देण्यात आला आहे. उत्कृष्ट महाविद्यालयाचा 'पीसीसीओईआर' ला सन्मान देण्यात आला आहे.

### पुढारी

**पुणे येथील उत्कृष्ट महाविद्यालयाचा 'पीसीसीओईआर' ला सन्मान**  
पुणे येथील उत्कृष्ट महाविद्यालयाचा 'पीसीसीओईआर' ला सन्मान देण्यात आला आहे. उत्कृष्ट महाविद्यालयाचा 'पीसीसीओईआर' ला सन्मान देण्यात आला आहे.

### पुढारी

**पुणे येथील उत्कृष्ट महाविद्यालयाचा 'पीसीसीओईआर' ला सन्मान**  
पुणे येथील उत्कृष्ट महाविद्यालयाचा 'पीसीसीओईआर' ला सन्मान देण्यात आला आहे. उत्कृष्ट महाविद्यालयाचा 'पीसीसीओईआर' ला सन्मान देण्यात आला आहे.

### पुढारी

**पुणे येथील उत्कृष्ट महाविद्यालयाचा 'पीसीसीओईआर' ला सन्मान**  
पुणे येथील उत्कृष्ट महाविद्यालयाचा 'पीसीसीओईआर' ला सन्मान देण्यात आला आहे. उत्कृष्ट महाविद्यालयाचा 'पीसीसीओईआर' ला सन्मान देण्यात आला आहे.

### पुढारी

**पुणे येथील उत्कृष्ट महाविद्यालयाचा 'पीसीसीओईआर' ला सन्मान**  
पुणे येथील उत्कृष्ट महाविद्यालयाचा 'पीसीसीओईआर' ला सन्मान देण्यात आला आहे. उत्कृष्ट महाविद्यालयाचा 'पीसीसीओईआर' ला सन्मान देण्यात आला आहे.

### पुढारी

**पुणे येथील उत्कृष्ट महाविद्यालयाचा 'पीसीसीओईआर' ला सन्मान**  
पुणे येथील उत्कृष्ट महाविद्यालयाचा 'पीसीसीओईआर' ला सन्मान देण्यात आला आहे. उत्कृष्ट महाविद्यालयाचा 'पीसीसीओईआर' ला सन्मान देण्यात आला आहे.

### पुढारी

**पुणे येथील उत्कृष्ट महाविद्यालयाचा 'पीसीसीओईआर' ला सन्मान**  
पुणे येथील उत्कृष्ट महाविद्यालयाचा 'पीसीसीओईआर' ला सन्मान देण्यात आला आहे. उत्कृष्ट महाविद्यालयाचा 'पीसीसीओईआर' ला सन्मान देण्यात आला आहे.




**A Trusted Brand in Education Since 1990**  
**PIMPRI CHINCHWAD EDUCATION TRUST**  
**PIMPRI CHINCHWAD COLLEGE OF ENGINEERING & RESEARCH, RAVET.**

Plot B, Survey No. 110(P), Laxminagar, Ravet, Pune – 412 101. Phone: +91-20-69338080  
Website : www.pccoer.com      Email: pccoer.ravet@gmail.com