



## Our Patrons : Pimpri Chinchwad Education Trust

## Inside This Issue



Late. Shri. Shankarrao B. Patil  
Founder President

Late. Smt. Lilatai Shankarrao Patil  
Ex President



Shri. D.P. Landge  
Chairman

Smt. P. M. Bhosale  
Vice Chairperson

Shri. V. S. Kalbhor  
Secretary

Shri. S.D. Garade  
Treasurer

Shri. H. S. Patil  
Trustee

Shri. G.M.Desai  
Executive Director

Samvaad PCCOE News	Page 1
Editorial Column	Page 2
Guest Editorial Column	Page 2
Book Recommendation	Page 2
Scientific Breakthrough	Page 3
PCCOE Technical Feats	Page 3
Faculty Achievements	Page 3
Student Achievements	Page 4
PCCOE Expressions	Page 4
PCCOE Announcements	Page 4

## PCCOE Fights back COVID-19 : PCCOE COVID-19 Taskforce

World is going through the pandemic. A small virus has trapped human being in homes thereby threatening the life and economy. By the time everybody among us might have realized that ***we are not the owner of this beautiful planet, earth but we are the visitors.*** We, human started civilization and realized the need of society. It is a natural tendency of human being to unite and fight against odd situations to keep the community safe.

PCCOE, Pune has built the culture where we people of PCCOE feel from the bottom of heart that we are not just a group of people working together but we are the family, PCCOE family. We are group of people with diverse knowledge, skills and strengths.

Looking at corona positivity growth rate, one may need immediate help to reach at existing medical infrastructure and desired doctors. Currently, people are facing problem of admission in hospitals, availability of oxygen beds and medicines, ambulance, food etc.

Recently few staff and their family members tasted Corona positive and the faced different difficulties and were found searching desperately for oxygen supported beds and medicines. In this situation **Dr. G. N. Kulkarni, our honorable Director** came up with novel idea of utilizing the strengths more effectively by uniting the staff members to help each other in all possible ways to reduce the stress and pain of our PCCOE family members. COVID Task Force formation got immediately executed by efforts of **Dr.S. Rawandhale, (Dean III)** and the staff members responded with objective of helping each other. This idea is well supported by different committees like Overall guidance and suggestions, Lab ment, Medicines, Blood and plasma, Severe cases, Food com-est joined voluntarily to form these committees. All these com-has brought positivity amongst the PCCOE family members and available round the clock for their help . In initial step task force created the database of the faculty members to find out the status of COVID affected staff members and their families. Number of people vaccinated and eligibility for blood and plasma donations has been identified. It has been now common practice that whenever one approaches task force, immediate help is being offered. It has been observed that the concept of developing COVID task force at institutional level has worked for us more effectively. As a result of this some of our staff and their family members have come out of danger and we are seeing smiles on their faces. Under the flagship of COVID task force, approximate sum of Rs. 30,000/- have been contributed so far by the volunteers to buy PCCOE's own oxygen cylinder. Every member of task force is contributing wholeheartedly. We would like to mention that many task force members contributed towards medicines availability, oxygen supply, bed availability, tiffin services, hospital bed procurement, etc. Their collective efforts are hereby acknowledged. Plasma donation by Prof. U. I. Shaikh, Mr. Yogesh Landge and spouse of Mrs. Ashwini Vaze to PCCOE family members proved once again that we PCCOE members have strong support of each other in this dire situation. We hope very soon the situation will be in control, and work of our task force will make a special room in minds of our staff.



### Congratulations

To all those faculty and staff members who fought COVID19 and won over it courageously. You are inspiration to all of us. May we all get more strength to collectively fight the perils of COVID-19 in the times to come .



### Deepest Condolences

To those PCCOE members who unfortunately lost their near and dear family members. May their souls rest in peace. Our prayers and thoughts are with you all. May God keep you strong and united through this tough time .



\*\*\* Team Samvaad \*\*\*

Editor-in-Chief : Dr. Govind N. Kulkarni

Executive Editors: Dr. Sudeep D. Thepade, Dr. Varsha K. Harpale

Associate Editors: Dr. D. S. Khurge, Dr. Priya Joshi

Assistant Editors: Ms. Asmita Manna (Comp), Ms. Ashwini Ladekar (IT), Ms. Pratima Kalokhe (Civil), Ms. Sheetal Garade (Mech) , Ms. Swati Patil (E&TC), Mr. Anandkumar Jain (MCA), Dr. Mahadeo Kadam (AS&H)



## Samvaad :Guest Column : Pharma Packaging Trends During COVID 19 Pandemic

This pandemic has affected every aspect of our life , personal and professional . It has threatened global economy like no other factor has adversely affected as of now . Every industry , small or big , industrial , consumer and healthcare are no different . Nevertheless ,pharmaceutical has been on frontline during the pandemic as there has been huge demand of medicines globally ,It won't be exaggerated to say Packaging of pharmaceutical products has grown overnight along with the demand of the medicines across the globe .

Packaging of the products comes in contact with the person From manufacturing end to supply chain to consumer . Hence it is the backbone of supply chain .

Trends of pharmaceutical packaging :

Biggest global concern during this pandemic has been , migration of the virus through packaging material . Hence a few trends which are market driven or consumer oriented are

**1.Antiviral or anti microbial packaging :**This packaging inhibit certain viruses or bacteria from the surface of the packaging material , thus arresting entry of the viruses . This innovation will capture market anytime since these trends are being implemented in food industry in coun-

tries like Japan. undergo various regulatory certifications globally. Interaction of product and pack compatibility.

However , implementation of such trends in pharma will have to be passed by FDA and it will have to be studied in multidirections .

**2. Touch less packaging :** As the name suggests this sector of packaging material will involve automation of production lines like auto labeling auto blistering , cartonator ,Ffs technology - form fill seal technology which provides sterile product and pack .Thus automation will reduce human touch in production activities thereby reducing migration of the virus on packaging materials .

**3. Self medication :** Prefilled syringes are in demand now a days , where patients prefer to take injections on their own .nevertheless, these sector will require new set up of production .

**4. E-commerce packaging:** During lockdown , more and more people are buying grocery ,clothes , medicines online.This trend has given a boom to e commerce packaging . Secondary packaging like cartons and tertiary packaging like shippers are in demand . Products are directly packed in small shippers thereby eliminating extra packaging recycled paper .

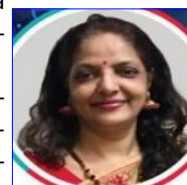
Healthcare industry is fighting to find out medicines , vaccines for this disease which has suddenly demanded need of packaging materials.

When the pandemics started in 2019 ,No one in the world had any idea where and how it will head Abd affect millions of lives globally .There was huge demand for anti malarial , antiviral , antibacterial injections / tablets. Medical devices like syringes , gloves , PPE kits are in demand and this trend will continue infuture as a safety and hygiene

measure.

Thus blister packs ,glass vials , rubber stoppers , seals , secondary and tertiary packaging is in very high demand . Plastics have become a first preference material for medical devices and disposable items .

Thus in a positive note, demand foe packaging materials has grown enormously .it is estimated that pharma packaging industry will grow by 20 % during the pandemic and the trend seems to be continuous in future.



**Jayanti Sawant**  
Pharma Consultant &  
Head Packaging Development  
Themis Medicare & Plethico Pharma

## Samvaad Editorial : Role of Artificial Intelligence in Fighting with Pandemic COVID19

There are many lessons to be learned for the world of scientific research from this pandemic COVID19. Approaches are needed that can be quickly adapted and of use in various local conditions and countries. The worldwide health emergency caused by the spread of the SARS-CoV-2 virus has quickly mobilized scientists, and among those stepping up are machine learning researchers.

In many ways, the field of AI has been more than ready to answer the call to action. Having advanced at a fast pace in the past two decades, the machine learning community is accustomed to prompt sharing of results, preprint posting, and open-sourcing of code. Now that many of the COVID 19 challenges around data and model sharing, local adaptation, and prioritizing work where clinical needs have been identified, more AI solutions can be expected that are inclusive and will make a global impact. AI can be beneficial in many areas in fighting with COVID19. Applications of AI that are garnering a lot of interest and raising hopes in the fight against COVID-19.

**AI in prediction & tracking:** AI can be harnessed for forecasting the spread of the virus & developing early warning systems by extracting information from social media platforms, calls, & news sites and provide useful information about the vulnerable regions & for the prediction of morbidity & mortality.

**AI in contact Tracing:** AI can augment mobile heath applications where smart devices like watches, mobile phones, cameras, and a range of wearable devices can be employed for diagnosis, contact tracing, and efficient monitoring in COVID-19.

**AI in the monitoring of COVID-19 cases:** AI techniques are applied for monitoring patients in clinical settings and predicting of course of treatment. Based on the data derived from vital statistics and clinical parameters, AI may provide critical information for resource allocation and decision-making by prioritizing the need for ventilators and respiratory supports in the Intensive Care Unit.

**AI in early diagnosis:** AI was used for the detection and quantification of COVID-19 cases from chest x-ray and CT scan images. Researchers have developed deep learning models for differentiating between COVID-19 and community-acquired pneumonia based on chest CT scans.

**AI in reducing the burden from medical practitioners & healthcare staff:** AI-based triage systems can help in reducing the work burden of medical staff and healthcare workers by automating several processes such as imparting training to practitioners, determination of the mode of treatment and care by analyzing clinical data using pattern recognition approaches.

**AI in protein structure prediction :** AI can help in predicting the structure of important proteins crucial for virus entry and replication and provide useful insight that can pave way for drug development in a very short time

**AI in development of vaccines :** Never before has mankind witnessed such a race for the development of a vaccine against a pathogen. The pace of the discovery can be accelerated manifold by harnessing the power of AI.

**AI in curbing the spread of misinformation:** Due to the avalanche of information, this pandemic has turned into an infodemic. Understanding knowledge, awareness, & practices toward COVID-19 by tapping information from social media platforms can help in devising the strategy to disseminate timely and correct information of COVID-19.

Adopting a three-pronged approach based on testing, isolation, and contact tracing is warranted to combat COVID-19. It is necessary to exploit the available knowledge base to develop effective chemotherapeutic agents against COVID-19, taking cues from lessons learned in the past during other such outbreaks. The current scenario warrants the need for immediate delivery of solutions, response to this outbreak was hugely augmented by various digital technologies and AI. We need bigger datasets for training AI models before AI takes the forefront in diagnosis and other areas. Several bottlenecks in harnessing AI to its full potential in the current scenario are availability and sharing of clinical and epidemiological data, computational resources, scalability, privacy, & ethical concerns.



**Dr. Sudeep D. Thepade (Comp. Engg)**

## Samvaad Book Recommendations: You'll See It When You Believe It Author: Dr Wayne W. Dyer

We want to feel happier, healthier, wealthier and more fulfilled life. But in reality, irrespective of the circumstances, some of us live happier life where as many of us live miserable life or run in the rat race to achieve happiness which remains an illusion. To achieve happiness, most of us concentrate on the wrong things. We think we can be healthier simply by hitting the gym, or we can be happier simply by changing our jobs or by earning more money.

Many of us want to transform our lives. That transformation comes with knowing deep within you that each and every human being is far more than a physical body, and that the essence of being human includes the ability to think and feel, to possess a higher consciousness. You are able to tap into that invisible part of you, to use your mind in any way that you choose, and to recognize that this is your essential humanity. Your humanness is not a form or a body at all, but something much more divine, guided by forces that are always at work in the universe.

The principles in this book start with the premise that you are a soul with a body, rather than a body with a soul. That you are not a human being having a spiritual experience, but rather a spiritual being having a human experience. Author has illustrated these principles with many experiences that are a part of his own personal transformational journey to bring the essential messages home to you. These principles are working in the universe even as you sit and read these words. They are working independent of your opinion about them, very much like the principles of digestion and pulmonary circulation are working within your body right now without your help. Whether you believe in these universal principles or not, they are going to work. But should you decide to tune in to them, you may find yourself living at an entirely new level and enjoying a higher kind of awareness—an awakening, if you will.

As long as you resist, you will not see the benefits. By this, you will stay with your old ways, live the "I'll believe it when I see it" mentality.

Once you start to make the transformational awakening journey, there is no going back. You develop a knowledge that is so powerful that you will wonder how you could have lived any other way.

Our futures are formed by the thoughts we hold most often. Our thoughts always create our own world. Thoughts, when properly nourished and internalized, will become a reality in the world of form. You see, we think in pictures, and these pictures become our inner

reality. All of our behavior results from the thoughts that preceded it. If you visualize yourself as incompetent in a given area, and you continuously reinforce this with a mental picture, eventually you will act out this scenario.

If you picture yourself acquiring abundance, if you keep this vision in your mind regardless of the obstacles you encounter, and if you absolutely see it for yourself, then you will act on this image. You will allow this picture to be the dominant image in your mental world. You will automatically start working towards this goal.

The reverse of this picture is also important to examine. If you picture yourself poor, you will act out your daily life based upon this image. You will surround yourself with people who lack abundance, you will read about the failures, you will avoid trying new things or believing in self-improvement because the idea in your head is that

you are poor. Your behavior will constantly flow from this visualization. Virtually everything that you do is a result of the picture that you place in your mind before you make the attempt. See yourself as unable to stand in front of an audience, and you will not. You will simply stay away from that experience and justify it by labeling yourself a shy person. Shy persons make shy pictures over and over in their minds, and until they can see themselves as unafraid, they will always act on the picture they create.

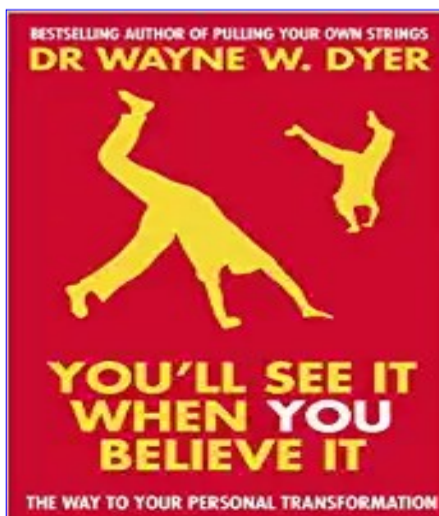
Regardless of the circumstances of your life, you are the writer, director, and producer of your mental images. You will always act out those pictures.

Your circumstances do not determine what your life will be; they reveal what kinds of images you have chosen up until now. *Tell yourself that everything you visualize is already here.*

In this book, Dr. Dyer talks about how in order to create the life you want, you truly must believe whatever it is you want is possible. Once you do, what you want will "appear". That's

why author says, "You will see it only when you believe it"

This is life-changing book, and it will truly change your perspective on how you process things within you, and around you.



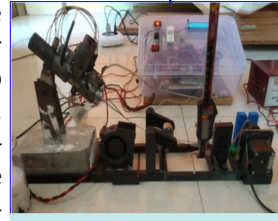
**Dr. K.S.Kinage-E&TC**

## Scientific Breakthrough : Continuous Carbon Fiber 3D Printing

3D-Printing (Additive manufacturing), is a process where layer by layer material is added to create a three dimensional object using a computer aided design. Now-a-days, 3D-Printing is providing intelligent and advanced solution for complex object manufacturing and rapid prototyping. The impact of 3DPrinting has increased significantly in the last few decades, leading to significant evolution in the fields of manufacturing, robotics, automation, medical and research.

Conventional 3D-Printing uses thermoplastic material, which is inexpensive but also having insufficient strengths. In order to enhance the performance of thermoplastic composite, different reinforcements like carbon black, platelets, chopped fibers, polymer fibrils are mixed with thermoplastic matrix and then extruded together during printing. On the other hand, manufacturing of objects using composite material requires to perform vacuum begging process, which is labor-intensive,

expensive and complex. The performance of these composites significantly depends on the fiber orientation in the plastic and fiber volume fraction (FFV). However, it shows inferior mechanical performance compared to traditional fiber-reinforced composites. Therefore, to widen the application of 3D-Printing in designing high-performance composites, is a need of the product industry. The technology available with this feature is known as continuous filament fabrication (CFF). The development of CFF 3D-Printer, can replace traditional composite manufacturing processes. Due to current COVID-19 pandemic, product industries are the most affected compared to software industries. Virtual development of products become difficult as it requires prototyping. This problem can be solved by continuous fiber 3D- Printing.



**Mr. Amit Divekar-  
Mech. Engg**

The innovation in the thermoplastic pultrusion process produces continuous carbon fiber embedded in nylon filament which can be used as an additive material in 3D-Printing. The benefits are as follows:

Cost reduction up to 80%

Continuous Carbon Fiber Filament can be used as an additive material in any conventional 3D-Printer with a few modifications.

Strength of objects increases significantly comparable to steel.

This technology has the potential to transform the manufacturing industry and make India 'Atmanirbhar'



## PCCOE Technical Feats

1. Dr. S. T Mali (Principal Investigator), Dr. N. B. Chopade, Dr. A. D. Thakare, Dr. J. S.Inamdar, Mr.P.S. Sontakke and Mr.Parag Ankad (Co-PIs) submitted proposal on "Conservation of Ancient Buildings of Cultural Heritage using IoT based Remote Monitoring system/Network" temporary registration no. TPN/64118 on 08/04/2021 for amount Rs. 38, 50000/-.
2. Dr. A D.Thakare (Principal Investigator) and Ms. Santwana Gudadhe (CO-PI) submitted proposal "AI-Assisted Advanced Neuroimaging Tool for Automated Diagnosis of Severity of Stroke and Critical Findings to: Department of Biotechnology, Government of India for amount Rs. 74,32,540/- on 20th April 2021.
3. Dr. A D.Thakare and Dr. Roshni Raut have been instrumental for MoUs signed between PCCOE and University Malaya, Malaysia (QS World University Ranking 59) and Thai-Nichi University of Technology Bangkok, Thailand for Academic Exchange and Research Exchange in first week of April 2021. She is SPOC for all communications.
4. Ms. Jaya H. Dewan, and Dr. S.D. Thepade published "Image Retrieval using Weighted Fusion of GLCM and TSBTC Feature " in IEEE 6th I.C. for Convergence in Technology (I2CT) 2021. Scopus and ESCI indexed (978-1-7281-8876-8).
5. Ms. Jaya H. Dewan, Dr. S.D. Thepade got copyright granted on "Instance Based Image Retrieval with Global and Local Image Content Features" Diary No. 5747/2021-CO/L.
6. Dr.M.T.Kolte and Mr.M.N.Narkhede submitted proposal "Device and Method for Detection and Prediction of Anemia and Malnutrition" to Division: Technology Development Transfer Programme or Scheme : Biomedical Device and Technology Development (Grand Challenge), File Number: DST/TDT/BDTDG/2021/46 .
7. Dr. Varsha Bendre, Dr. A. K. Kureshi and Dr. V. K. Haraple published "A Low-Power Positive Feedback Operational Amplifier using Carbon Nanotube Field Effect Transistor in ICCCE 2021 - Proceedings of the 4th I.C. on Communications and Cyber Physical Engineering, Springer Nature Singapore Pvt. Ltd on 9th -10th April 2021.
8. Dr. V. K. Harpale, Dr. V. K. Bairagi, Dr. Swati Kolat, and Dr. Varsha Bendre published "EEG Based Computationally Optimized Solution for Non-epileptic Seizure Detection " in ICCCE 2021 - Proceedings of the 4th I. C. on Communications and Cyber Physical Engineering, Springer Nature Singapore Pvt. Ltd on 9-10th April 2021.
9. Dr. Swati Shinde, Piyush Tailor, Tanvi Mahajan, Saurabh Kulkarni, Prasad Borle and Suyash Khachane published "Design and Slam Map Building System for A Ground Based Robot Using ROS" in Scopus indexed Conference Proceedings of Springer Conference -CIPR 2021, 24th and 25th April 2021.
10. Prachi Waghmare and Dr. Swati Shinde published "Caption Generation Using Neural Network Models and LSTM Hierarchical Structure" in Scopus indexed Conference Proceedings of Springer Conference -CIPR 2021, 24th and 25th April 2021.
11. Mr.A.R.Suryawanshi in association with PWSIM Engineering Solution Pvt.Ltd organized Workshop on "PSIM for power electronics: simulation & Analysis on 16<sup>th</sup> April 2021 .
12. Arti K. Golait, Mrs. Neeta A. Mandhare and Dr. P. A. Deshmukh. Published "Experimental Investigation of Smooth-Crested Pattern Notches Entitled of Various Profiles" in Scopus indexed Elsevier journal Materials Today: Proceedings 2021, ISSN: 2214-7853 <https://doi.org/10.1016/j.matpr.2021.03.183>
13. Mrs.Smita Khairnar, Advait Pathak, Piyush Raut, Tejas Patil, Shubham Pawar and Shilpa Gite published "Bibliometric survey on Zero-Knowledge Proof for Authentication" in Library Philosophy and Practice (LPP) (Edition: Spring 1-30-202 , ISSN:1522-0222, Volume 2021, 2021 Pages 1-26 .
14. Mr. A.S. Bagwan & Mr.D B. Pachpatte published "Existence and uniqueness results for implicit fractional differential equations involving generalized katugampola derivative" in South East Asian Journal of Mathematics and Mathematical Sciences (UGC Care list Group B Journal) Vol. 17, No. 1, PP. 77-94Print ISSN: 0972-7752 Online ISSN: 2582-0850 .
15. Dr.M.T.Kolte organized Guest lecture on "Value Education and importance of Values to build up behavior, Personality " for PG students Speaker: Dr. H. Voruganti, Associate Professor, Dept. Of Mech. Engg NIT, Warangal.
16. Ms. Archana Bhamre successfully completed NPTEL's 4-week course on "Patent Drafting for Beginners" in ELITE category .
17. Ms. Neena Sonar contributed as NPTEL Marathi Language Translator for the course "Electrical Machines" offered by IIT Delhi.

## Faculty Achievements

<b>Dr. S. S. Lakade</b>	1. Delivered lecture on "Importance of IPR and Patent filing" in National level FDP organized by IICMR. 2. Dr. Lakade guided Team Technovus who won first prize in Aakruti 2020 competition, guided Team Wastinno who received Entrepreneurship -in-Residence (EiR) support for IMVA 1.0 and guided Abhishek Chaudhari and team received guidance who were SPPU CIIE I-2-E competition winner.
<b>Dr. Anuradha Thakare</b>	1) Delivered keynote Address on "Evolutionary Algorithms for Multi-Objective Optimization" in National Research Symposium on Computing (RSC - 2021) at Walchand CoE, Sangli and Delivered Talk on "Active Teaching Learning" at AICTE-ISTE Sponsored Refresher Programme at TKCP, Warnanagar. 2) Dr. Thakare is also SPOC for Technology Infusion Grand Challenge hosted by La Trobe University's Centre for Technology Infusion in Melbourne, Australia. Total funds of \$2300 are sanctioned. This is part 1 of the competition. Every year only 10 teams are selected and 6 are from PCCOE.
<b>Dr. Sudeep D. Thepade</b>	Achieved the Milestone of <b>151 Research Papers</b> listed on <b>SCOPUS</b> with 656 citations and h-index 13 on <b>SCOPUS</b>
<b>Dr. S. T. Mali</b>	Delivered lecture on the theme 'Catch the Rain' organized by Engg. Sciences Department, AISSMS IOIT, in association with ISTE, on 16/4/2021.
<b>Dr. Sonali Patil</b>	Delivered two expert sessions on "Ethereum Blockchain" and "Smart Contracts-Security and Challenges" on 23rd April 2021 in AICTE Sponsored 6 days STTP on "Cyber Security and Blockchain Technology" organized by Sanjivani College of Engineering, Kopergaon
<b>Dr Anindita Roy</b>	Gave talk on "Wind Energy Technology: An Overview" in National level talk under the aegis of IEI Chapter organized by SRM University.
<b>Dr. Rajani P.K.</b>	Was considered as a Member of the Technical Committee (TC) & Reviewer for the International Conference in Imaging, Signal Processing & Communi-
<b>Mr. Ummid Shaikh</b>	Guided Team Red Baron who first prize in Design in BAJA SAE India 2021
<b>Mr. Ketan Desale</b>	For Exemplary contribution in Digital Marketing, Mr. Desale has been awarded with " ASMA India's top 30 marketers in Education 2019" and "Young Leadership in education Award 2019". He an online session on "Creating One's own website" for Deans, assoc. Deans, HoDs and section Incharges on 29 April 2021, 11:00 am organized by Website team of Quality assurance.
<b>Mr. Ishan Sathone</b>	Guided Team Ambush who are SAE TIFAN 2020 overall winners (AIR 1)
<b>Mr. S. B. Gorade</b>	Guided students for 1 <sup>st</sup> Runner up in "Nirmitee" a National level Civil Engineering Symposium organized by MIT World Peace University, Pune and also for winning in "Prakalp" a National Level Project Competition organized by College of Engineering Kolhapur.
<b>Mr.A.R.Suryawanshi</b>	Delivered expert lecture on "Electrical Circuits" at PVPIT CoE E&Tc dept.
<b>Mr. D.S.Lal</b>	Delivered guest lecture on 'Ecosystem & Ecology' on <b>Environmental Studies</b> for First Year Engineering organized by International Institute of Information Technology , Hinjawadi, Pune, Maharashtra, on 27 April 2021 .
<b>Ms. N.S. Sane</b>	Delivered lecture on 'Catch the Rain' organized by Engineering Sciences Department, AISSMS IOIT, Pune, in association with ISTE, on 16/4/2021.



## Students Achievements

Team Technovus	Overall, first winner in Aakruti 2020 competition <b>Guided by Dr. S.S. Lakade</b>
Abhishek Chaudhari & team	SPPU CIIE I-2-E competition winner <b>Guided by Dr. S.S. Lakade</b>
Team Ambush	SAE TIFAN 2020 overall winners (AIR 1) <b>Guided by Prof. Ishan Sathone</b>
Team Red Baron	First prize in Design in BAJA SAE India 2021 <b>Guided by Prof. Ummid Shaikh</b>
Team Wastinno	Received Entrepreneurship -in-Residence (EIR) support for IMVA 1.0 <b>Guided by Dr. S.S. Lakade</b>
SamruddhiPatil , RinkitaTayade	1 <sup>st</sup> Runner up in "Nirmitee" a National level Civil Engineering Symposium organized by MIT World Peace University, Pune and Winner in "Prakalp" a National Level Project Competition organized by College of Engineering Kolhapur <b>Guided by Mr. S. B. Gorade</b>
Team IT	QLess - Indoor navigation, shopping recommendation & Queue-less billing based shopping assistant using AI & AR <b>Fund in AUD 500\$ : Guided by Dr. Sonali Patil</b>
Team IT	Flexi Auto-Pathway Fund in AUD 800\$ : <b>Guided by Prof. Ashwini Ladekar</b>
Team IT	Anti Horn Chip SystemFund in AUD 250\$ : <b>Guided by Prof. Rohini Pise</b>
Team Mechanical	A smart waste segregating and rewarding system Fund in AUD 200\$ : <b>Guided by Prof. Shital Garade&amp; Prof. Varsha Gaikhe</b>
Team Mechanical	E-Aquabin (Solution to cleaner waterbodies) Fund in AUD 200\$ : <b>Guided by Prof. Varsha Chopade&amp; Prof. Shweta Suryawanshi</b>
Team E&Tc	An AI -driven Smart Living system Fund in AUD 3500\$ : <b>Guided by Prof. P.V.Sontakke</b>



## PCCOE Expressions

### गृहीत.....

नात्यात कालांतराने येणारा स्वाभाविक भाव!!  
हरकत मुळीच नसावी,कारण मुळात त्यातून विश्वासच झळकतो...  
अतिरेक मात्र वाईट!! कारण कधीतरी गणितं चुकतात, मनं दुखावली जातात, अन घात करून जातं हे गृहीत धरणं...  
कुणी आपल्यासाठी मनात हळवा कोपरा बाळगून असतं, ज्यात मुळी म्हणून स्वार्थ दडलेला नसतो.....  
पण त्याचं निःस्वार्थी वागणं, आपल्याला कायम समजून घेणं, सदैव आदराने वागवणं, आपल्याला त्याची भावनीक कमजोरी वाटायला लागते...  
अन आपण त्याच्या भावनांसकट त्याला गृहीत धरायला लागतो!! लाखवेळा शाब्दिक आघात झेलुनही ही व्यक्ति कधीच दूर जात नाही, कायम आसपास रहाते... अगदी निःस्वार्थतेने!!  
सगळं समजून घेता घेता, कधीतरी तिलाही जाणीव होते...दुर्लक्ष होतय ह्याची, कदर उरली नाहीय ह्याची, अन टाळलं जातंय ह्याचीही!! मग गाठी सैल होतात, ओलावा काही घटका का होईना पण आटतो, आणि घट्ट मुळांनिशी रोवलेला बांधही फुटतो... कारण आपण चुकलेले असतो, गृहीत धरून!! मन दुखवून!!  
विशेष म्हणजे मनाने दुर जाऊनही ही व्यक्ति आपल्यासाठी कधीच वाईट चिंतत नसते... पारा मात्र हातातून अलगद निसटलेला असतो!!!! मग उरतो तो पश्चाताप... कारण आता दाटून येणाऱ्या भावना म्हणजे कदर नक्कीच नसते!! ती वेळ आपण कधीच पार केलेली असते, कधी कामाची, कधी बिनाकामाची अवाजवी कारण पुढे करून... एकदा, निदान फक्त एकदा योग्य वेळी हाकेला "ओ" दिला तर ही वेळ टाळता येणे सहज जमले असते!! असे वाटून जाते.... पण आता उशीर झालेला असतो!!!!  
तडा गेलेला असतो हळव्या मनाला....**©रेणुका पुरोहित (Civil Engg.)**



**From Simple Dot to Admirable Art!!!**

**Mrs. A. R. Arakerimath  
MCA**



### स्पर्शाची जादू

नुकतंच जन्मलेलं बाळ जेव्हा रडायला लागतं तेव्हा त्याला लगेच आईकडे देतात. आईने कुशीत घेतलं की बाळ रडायचं थांबतं. त्या एवढ्याशा जीवाला कसं बरं कळतं??? अर्थात....आईच्या ऊबदार स्पर्शातून! तो बाळाचा पहिला 'स्पर्श' आश्वासक आणि जपणारा.....!  
जन्म झाल्यापासून मृत्यूपर्यंत साथ करणारा हा 'स्पर्श' .....वेगवेगळ्या वयात वेगवेगळ्या रूपात आपल्या समोर येतो. आईने कुशीत घेतल्यावर मायेने डोक्यावर फिरवलेला हात, चुकीचे काही केल्यावर बाबांकडून मिळणारा धपाटा, आजोने चेहऱ्यावर हात फिरवून मोडलेली बोटे, आजोबांकडून मिळालेली शाबासकी, भावंडांसोबत झालेली भांडणे आणि मग होणारी हातमिळवणी, असे सारे स्पर्श आपण मोठे होत जाताना खूप काही शिकवणारे.....!  
कुटुंबाच्या सुरक्षित स्पर्शातून बाहेरच्या जगात पाऊल ठेवल्यावर ही भेट राहतात खूप सारे 'स्पर्श'. अभ्यास न केल्यामुळे मिळणाऱ्या छडीचा स्पर्श, पाठीवर थाप मारून 'मी आहे' असे सांगणारा मैत्रीचा स्पर्श, खेळताना पडल्यावर होणारा मातीचा स्पर्श, तारुण्याच्या उंबरठ्यावर हळूवारपणे येणारा प्रेमाचा स्पर्श, .....प्रत्येक स्पर्श खूप काही देणारा, सावरणारा, फुलवणारा!!  
लहान बाळाच्या इवल्या हातांचा , एकेक पाकळी उलगडत फुलणाऱ्या मखमली गुलाबाचा,पहिल्या पावसाचा, ओल्या मातीचा,झुलझुळणाऱ्या वान्याचा, सूर्याच्या पहिल्या किरणांचा, हळूवारपणे आयुष्यात येणाऱ्या प्रेमाचा,.....हे आणि असे अनेक सुखावणारे आणि हवेहवेसे स्पर्श! प्रत्येक वेळेला आपल्याला सांगत असतात....' आयुष्य खूप सुंदर आहे, भरभरून जगा 'या सगळ्या स्पर्शांमध्ये मला सर्वात जास्त भावतो तो ' जादू की झप्पी' वाला स्पर्श! It is miracle! कितीही कठीण प्रसंग असू द्या.... ही जादूची झप्पी , त्या प्रसंगातला ताणतणाव नक्कीच कमी करते.मात्र गेल्या वर्षीपासून ही ' जादू की झप्पी ' जणू गायबच झाली आहे. मला तर वाटतं , कोरोना आला आणि स्पर्श करण्यातील सगळी गम्मतच घेऊन गेला. आपण जरी एकमेकांना स्पर्शातून धीर देऊ शकत नसलो, तरी आपुलकीच्या शब्दांचा स्पर्श मात्र नक्कीच देऊ शकतो, हो ना! 'स्पर्श करणं' काही अशी थांबलेलं असलं तरी....कित्येकांनी 'माणुसकीचा स्पर्श' कमी नाही होऊ दिला. आरोग्यसेवा मधील सर्व डॉक्टर, नर्स आणि इतर सर्व लोक जे या ना त्या कारणाने आरोग्य सेवेशी जोडले आहेत....त्या सर्वांना मनापासून धन्यवाद.....कारण त्यांचा स्पर्श कित्येक कोरोना रुग्णांना बरे करत आहे. या कठीण काळातूनही आपण नक्की बाहेर पडू यात काही शंकाच नाही.....पण तोपर्यंत मात्र आपल्याला वाट बघावी लागेल.....त्या जादूच्या स्पर्शाची!!!!  
**Prof. Ashwini Waze (AS&H)**

PCCOE Family expresses warm welcome to Dr. Ganesh W. Rathod, Dr. Rachana Yogesh Patil, Dr. Roshani Raut, Dr. Manjiri A. Ranjanikar who joined PCCOE as a member of Family, we look forward for a great association with you.

## PCCOE Announcements

**\*\* AQAR-NAAC Academic Year 2019-20 report is Prepared and Uploaded on NAAC website\*\***  
**\*\* Civil and IT Dept preparing for NBA- SAR, Sessions for NBA -SAR compilation were executed from 23rd April to 7th May\*\***

**\*\*Under guidance of Director sir, the task of Rejuvenation of SIGs is been taken up which aims to address current issues in various field that are particularly relevant to the industry and academia.\*\***

### New Equipments in PCCOE

#### Artificial Intelligence, Robotics and Vision Lab Computer Dept.

NVIDIA Jetson Tx2 Developer Kit, MAC Systems HP Server, Arduino MEGA ADK Board with USB. Arducam 8,,MP Sony IMX219 camera module w/CS lens 2718  
Usage : Helps running multiple neural networks in parallel for applications like image classification, object detection, segmentation, and speech processing and parallel Processing

#### TMC Laboratory Mech. Dept.

Data Acquisition system for Centrifugal Pump Test Rig: Rs.1,01,580  
Usage :Performance monitoring of Centrifugal Pump

#### DSP Lab, E&T.C.

3D depth camera & Xavier Board  
Usage :Object detection in presence of Obstacles.

PCET Trustee lays foundation stone of new Hostel Building at Nigdi Campus. The new Hostel building will have capacity of around 700+ students accommodation with all required modern amenities like Canteen, Mess, Gym etc.  
Shri.Dnyaneshwar P. Landge, Smt. P.M. Bhosale, Shri. V. S. Kalbhor , Shri. S.D. Garade , Dr. Girish Desai , Dr. G. N. Kulkarni , Dr. Ganesh Rao , PBS and other eminent PCET members graced the



**\*\*Declaration :Best Faculty Web page contest is declared for all PCCOE members and winner will be appreciated ay college level\*\***

Two Days Workshop on "Introduction to IOT " 24<sup>th</sup> May 2021 under IETE student  
Contact: Mrs.A S.Shinde, Mr.P.V.Sontakke E&TC

**Research support Required From IT  
Comp. Engg. Department for :**

**Vulnerability analysis of autonomous cars using hacking techniques..**

**Contact; Mr. P.V. Sontakke E&TC**