

# THE CURRENT POST



## About The Institution

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

- College has been accredited by NAAC with "A Grade".
- College has been awarded as best college in urban area.



## From Principal's Desk

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

## From HOD's Desk

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



## Vision of Department

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

## Mission of Department

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

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## Vision of the Institution

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

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## *The Road Not Taken (by "Robert Frost")*

Two roads diverged in a yellow wood,  
And sorry I could not travel both  
And be one traveler, long I stood  
And looked down one as far as I could  
To where it bent in the undergrowth;

Then took the other, as just as fair,  
And having perhaps the better claim  
Because it was grassy and wanted wear,  
Though as for that the passing there  
Had worn them really about the same,

And both that morning equally lay  
In leaves no step had trodden black.  
Oh, I kept the first for another day!  
Yet knowing how way leads on to way  
I doubted if I should ever come back.

I shall be telling this with a sigh  
Somewhere ages and ages hence:  
Two roads diverged in a wood, and I,  
I took the one less traveled by,  
And that has made all the difference



## *Lecture on "Opportunities in Research"*

Dr. Shekhar Kelapure from PRDC, Bangalore delivered a lecture in opportunities in research work on 23.09.2017 at Bharati Vidyapeeth Deemed University, Pune. He presented Power Point Presentation on research opportunities in various fields like Renewable, Machines, Control systems, Power systems field. He also delivered second power point presentation on 'Issues in Large Scale Renewable Integration'. He also told about the research methodology used in different area of research in different domain.



## *Activities under (ISLE)*

Group discussion with industrial persons from Leap Infosys and Pratham energy was arranged with interested group of projects on 31.08.2017. Interaction regarding various aspects of light and automation is carried out by students with them. New areas where students can focus are explored and asked students to come up with new ideas which can be implemented as final year project. Session Conducted by Dr. Prakash Barjatia, Governing Body Members of ISLE Mr. Vinit Pahade Jain, Pratham Energy, Mr. Vinay Ghule, Leap Infosystems



## *Lecture on Design of PCB using EAGLE Software.*

The session was conducted from 1:45 pm to 2:45 pm on 24.08.2017. This introductory lecture was helpful for students in highlighting the basic of EAGLE software for designing of PCB.

The session started with the introduction to the basic of PCB and EAGLE software. They started with the Library of software then how to mount the components. The designing of PCB began with an experiment of OPAMP as comparator then they also represented the board view and the procedure to trace the paths. Students got the information about designing and practical implementation of these circuits. They got knowledge regarding selection of components, implementation and the PCB layout.

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## Guru-pournima



Guru purnima was celebrated in Electrical seminar hall on 11.07.2018. Students of BE,TE Electrical First and second shift arranged this program. Students delivered speeches, poems and songs. Shriram sings song with Abhishek on Guitar ,Shubham presents the poem, Ramkrishna give the speech.HOD Dr. Mrs N. R. Kulkarni delivered a speech on their experience during their student life. Inspiring lecture on career guidance was given by the chief guest Mr.Bapat which enlightened students mind. Sir give the information about various companies and the about the exams required for post graduation programs.

## Guest lecture on "Applied mathematics in Electrical Engineering"



Mr.Tejas Natu Alumini (2009 batch) Research Scholar, Florida State University, USA has delivered a session on usage of mathematics in Electrical Engineering on 17.03.2017. The motto of this session was to make aware the students of role of mathematics in Electrical Engineering. He gave various applications of mathematics in electrical engineering like Fourier analysis, signal analysis using compressed sensing technique, use of optimization theory etc. He also elaborated the significance of learning subjects like M1, M2, M3 and allied subjects for day today applications.

He thoroughly explained requirements while completing the post-graduation. He explored the different recent research areas of mathematics. He summarized the lecture by giving the importance of mathematics.

## Guest lecture on "New software ATP draw"



Guest lecture on New software ATP draw is delivered by Mr.Prashant Gawande on 08.09.2017.The most widely used computer programs for transients analysis of power systems are the Electromagnetic Transients Program, commonly known as EMTP, and its derivatives such as the Alternate Transients Program (ATP). Small systems are simulated and demonstrate student a very sophisticated graphic user interface that enables the user to be very productive in this difficult analysis and ability of the program to solve some classes of nonlinear problems.

## Guest lecture on "Thermography Images and its Analysis"



Guest lecture and hand on experience was given to students with the help of thermal imager by Mr.S.M.Bakre on 09.09.2017. Students can demonstrate various application of thermal imager like Electrical distribution system,Power circuit of electric devices, Cooling efficiency of radiator fins of power transformer, Level detection, Fluid flow investigation, Efficiency of insulation or refractory system etc.

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## *Guest lecture on "Three Phase Inverter And Its Applications"*

A Two hour guest lecture was engaged by Mr. Omkar K. Kelkar, owner of Savita Machine tool company on 12.10.2017. He explained about the inverter and its types. He also created interest in topic where students got to know how actually the inverter is being implemented in industries by giving an example of ongoing project like solar inverter, PWM inverter, etc.

## *Guest Lecture On "Condition Monitoring Of Oil-Paper Composite Insulation System Of Transformers."*

IEEE PES / IAS Chapter of Pune Section and Department of Electrical Engineering, PVG's COET, Pune had organized a Lecture by Dr. Sivaji Chakravorti on 29.07.2018. From this lecture, students gain knowledge of Oil-paper composite insulation system and how the condition monitoring is taken into account in case of transformer.



## *Guest lecture on "Marketing Management"*

The guest lecture on "Marketing Management" was arranged by Department of Electrical Engineering 25/07/2017. The session was very interactive and sir explained what are types of marketing, functions of marketing and definition of marketing.

## *Video Lecture On "Decade (Bcd) Ripple Counter, Ring Counter And Twisted Ring Counter"*

The session was conducted from 8:45 am to 9:45 am by NESO academy on 28.07.2017. This Video lecture was helpful for students in emphasizing the basic of sequential circuits and designing of counters. Students got the information about designing and practical applications of these counters. They got knowledge regarding selection of flip flops according to bits and how a combinational circuit is designed for these counters. After knowing all this important points regarding counters, students are now able to perform these experiments during the practical session.



## *Guest lecture on "Metering in Power System"*

The metering procedure and its difficulties explained by Dr.S.M.Bakre (Ph. D M.E. M.M.S) Superintending Engineer, Corporate Office, MAHATRANSCO, Mumbai on 12.08.2017. He thoroughly explained various types of meter used for metering as well as impact of reactive power in metering. He explained various types of tariff for metering and billing. He also explained smart meter and types of electronic energy meter.



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## Industrial Visit "Jejuri 400KV substation"



The industrial visit was a part of syllabus of EIMT for TE Electrical students. This visit held on 25.09.2017 at jejuri 400 KV substation and had aimed to impart practical knowledge of substation. In this visit, operation of variable frequency drives (rating : VFD upto 200Hz) was explained thoroughly. Knowledge about automation using PLC and switchgear operation used for it was also explained. The visit was conducted in 3 parts. First part included the presentation about company, its products & basics about PLC, drives & switchgears. While the 2nd session included actual manufacturing of drives & switchgears with demonstration. The 3rd session was manufacturing process automation using PLC with actual demonstration.

## Industrial Visit Of B.E.(Electrical) At "SLDC Kalwa Mumbai"

This visit was held at "SLDC Kalwa" on 18.09.2017. Students learnt many responsible governed by SLDC are, optimum scheduling and dispatch of electricity within a State, in accordance with the contracts entered into with the licensees or the generating companies operating in that State; monitor grid operations; keep accounts of the quantity of electricity transmitted through the State grid; exercise supervision and control over the intra-state transmission system; and be responsible for carrying out real time operations for grid control and dispatch of electricity within the State through secure and economic operation of the State grid in accordance with the Grid Standards and the State Grid Code.



## Academic Result Records

CLASS	Shift - (I & II)
SE	83.09
TE	96
BE	97.82

### SE 1<sup>st</sup> Shift Toppers

Name of Student	SGPA
Garud Gauri Sanjay	9.32
Mandlik Onkar	9.24
Shewale Ashutosh	9.12
Bomble Aniket Sandip	8.88
Vitekar Pritish Prashant	8.80

### SE 2<sup>nd</sup> Shift Toppers

Name of Student	SGPA
Sonawane Akshay Ganesh	8.96
Dhakare Rajesh	8.56
Rane Priyanka Pramod	8.48
Sanyogita Ganesh Sagane	8.40
Deshmukh Shubham Vilas	8.32

## Research Achievement

1) Prof.Dr.Mrs.N.R.Kulkarni has filed and published two patents with Prof.Dr. P. B.Karandikar and Mr.LaxmanShivajiGodse. First patent is Low cost portable ball milling machine for grinding of electrode material for electrochemical devices using motorcycle which was filed and published 10-05-2016 & 20-05-2016 and second one is Advance ball mill machine for grinding of electrode material for electrochemical devices which was filed and published on 11-07-2016 & 26-08-2016.

2)Mrs.S.A.Chougule got sanctioned amount of Rs 2.1 Lac for BCUD research proposal.

3)Mrs.R.S.Hardas got sanctioned amount of Rs 1.7 Lac for BCUD research proposal.

Name of Student	SGPA
Kamble Alka	9.43
Avhad Shubham	9.17
Lodha Pradnya	9.00
Pawar Omkar	8.87
Arya Rushika	8.30

### BE1st Shift Toppers

Name of Student	Marks	%
Gawali Purva	627	83.60
Chavan Ruturaj	609	81.20
Pande Supriya	589	78.53
Solanke Sanjana	578	77.07
Bagul Saurabh	581	77.47

### TE 2nd Shift Toppers

Name of Student	Sgpa
Hudekar Raval	9.17
Kadam Ramkrishna	9.17
Prasad Vanjale	9.13
Sanket Jadhav	9.09
Dhanashree Bhabad	9
Motale Dnyaneshwar	8.96

### BE2nd Shift Toppers

Name of Student	Marks	%
Jadhav Aditya	605	80.67
Barhate Tejal	591	78.80
Sole Vedant	588	78.40
Paturkar Shyamsundar	588	78.40
Badhane Gaurav	577	76.93

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## Placement Records

Sr.No	Name of The Student	Company Name
1.	Bagul Swapnil	L-Cube Innovative Solutions Pvt. Ltd.
2.	Deshpande Vinayak	L-Cube Innovative Solutions Pvt. Ltd.
3.	Gawali Purva	L-Cube Innovative Solutions Pvt. Ltd.
4.	Shrikant Pawar	Tata Consultancy Services Ltd
5.	Rohan Nisale	Konecranes Pvt. Ltd.
6.	Vinayak Deshpande	Konecranes Pvt. Ltd.
7.	Nitin Kotwal	Konecranes Pvt. Ltd.
8.	Abhishek Dehadraya	Konecranes Pvt. Ltd.
9.	Purva Gawli	Q-Spiders
10.	Kaushik Telgaonkar	Q-Spiders
11.	Manjeet Kuthe	Q-Spiders
12.	Rahul Singh	Q-Spiders
13.	Sayali Takalkar	Q-Spiders
14.	Kunal Jha	Q-Spiders



## Social Activity

Keeping the festive spirit alive, Modern college of Engineering "Seeds of HOPE Club" celebrated 2<sup>nd</sup> Anniversary of Club on 15.07.17. Seeds of HOPE club visited "Mahar Vastlydhaam" situated in Wagholi, Pune

Members of Seeds of HOPES celebrated '2<sup>nd</sup> Anniversary of SEEDS OF HOPE' by participating in special assembly. We get there by bikes and some of members by city bus to the destination at about 12.00 pm. All arrangement was made by coordinators of club from third year and final year. We all heartily welcomed by little children and some of their volunteers. They looked so happy when they saw us. Then we all gather in there Assembly hall. We visited old age home. We felt so much blessed! After that we introduce our new club members to all. In this visit we manage to involve first year students which gave them very grateful experience.

All the new members enjoyed a lot and got the complete information about club. As it's the occasion of the 2<sup>nd</sup> Anniversary of SEEDS OF HOPE we started celebration. We cut the cake and the children sang song for us. By that time some of us were busy in making plates for all. Now it's time for lunch. We all ate Pav-Bhaji, Fruits, and Cake. Then it was time for fun! We all gather in there assembly hall for 'Drawing Competition'. All children's took part in the competition and enjoyed a lot while doing Drawings. After that we decide the 5 winners of competition and prizes are given to them. They was looking very happy and blessed. Then we all gather on ground and we played there for 2 hours. Again we distributed some snacks.

Soon, it was time to leave. Everyone had a great time and this event was a success. It was a very great experience for all of us. We leave that place by setting our mind to continue this work with all colleagues.



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