

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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Allow Yourself (by "Catherine Pulsifer")

Allow yourself to dream,
And when you do dream big
Allow yourself to learn
And when you do learn all you can

Allow yourself to laugh
And when you do share your laughter
Allow yourself to set goals
And when you do reward yourself as you move forward

Allow yourself to be determined
And when you do you will find you will succeed
Allow yourself to believe in yourself
And when you do you will find self confidence

Allow yourself to lend a helping hand
And when you do a hand will help you.
Allow yourself relaxation
And when you do you will find new ideas.

Allow yourself love
And when you do you will find love in return
Allow yourself to be happy
And when you do you will influence others around you.

Allow yourself to be positive
And when you do life will get easier.

Chat on Light (ISLT Activity)

‘Artificial lighting-Necessity, Fantasy or luxury?’

It is a first activity under ‘Chat on Light’ as decided by all members in get together conducted on 16/2/2018. The topic for inaugural “Chat with Light” was **Artificial lighting, luxury, need or fantasy.....** It included 25 experts from all related fields, architects, lighting designers, lighting manufactures, software and hardware etc. Most importantly it was well received even by students from architecture and engineering faculties.



‘What is LED and Why should we care for it?’

It is second activity under ‘Chat on Light’ scheduled on 31.3.18. As decided student opened a topic ‘**What is LED and Why should we care for it?**’ by discussing various advantages and need of LED. It included 17 experts from all related fields, architects, lighting designers, lighting manufactures, software and hardware etc.



Guest Lecture on “Design of Three Phase Induction Motor, Practical Aspect”

Guest lecture is given by **Mr.DilipBhave (Asst.V.PKriloskar Brother Pvt.Ltd.)** scheduled on **20.03.2018**. He presented his Presentation on “**Design of Three Phase Induction Motor, Practical Aspect**”. He had covered following points:

- Design of squirrel cage and slip ring induction motor
- A.C. machine winding along with insulation aspect
- Specification of induction motor as per IEC and NEMA



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Farewell to BE Students



In an emotional surged atmosphere on seminar hall of, Electrical Department had arranged Farewell for BE final year 2017 batch on 7th April 2018. The program started at 11am with a saraswati prayer sang by Siddhi Redeker. followed by delivering a few soothing messages by the Head of Department and their class teacher. Students from Ist and IInd shift delivered their speech and also expressed their experience for last four years in Modern college. Lastly the Head of the Department Prof. N. R. Kulkarni presented mementoes and awards to following students followed by Lunch.

Sr. No.	Name	Prize
1.	Nimesh Puranic, Kamesh Matkari	Best Outgoing Student
2.	Snehal Chhote, Ajinath Raskar, Nisha Chhote, Virabhadra Danasure	Best Academic
3.	Divesh Phadatare, Rupesh sonavane	Best Culturer
4.	Shruti Patil	Impulse
5.		Clubs
6.	Suraj Kedar, Makarand Kale, Nilesh Raut, Shantanu Pawar	Seeds of Hope
7.	Pralhad tarade, Sharada Parangaonkar, Tejas Talathi, sandip Bhavsar	Book Dost
8.	Saurav Taru	Sports
9.	Anil Hiremath	NSS
10	Zaid Siddhiki, Gaurav Vaidya	Best supporting student (EESA)
11	Abhinay Yadurkar, Balaji Gude	Karmnya Magzin



Workshop On "L&T Switchgear Training Centre, Midc, Bhosari, Pune."



This workshop is a part of collaborative activity with Larsen and Toubro (L&T) company, under SPPU signed between P.E.S' s modern college of engineering and L&T schedules on 26.03.2018. This is the first type of unique workshop conducted in association with premier industrial organization like L&T. The workshop has aimed to impart practical knowledge of circuit breaker, relay and contactor operation.

The training was conducted in two sessions. The experts shared their opinions on different topics. Training methods included theory based classroom sessions, workshop, practical demonstration and hands on training.



In first session Mrs. Smita Bhagat and Mrs. Thubey guided us on what is switchgear and protection system. In second session, madam gave the practical knowledge of relay, contactors, circuit breakers of various types.

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Guest Lecture on "Resistance and Inductance Of transmission Line"

Guest lecture is given by Dr. Bakre from MSEDCL, Mumbai dated on 24.02.2018. He has given the Presentation on resistance and inductance of Transmission line, and also skin Effect proximity Effect, Inductance of Single phase and Three phase Transmission Line, Inductance of three phase Transmission Line With symmetrical and Unsymmetrical Spacing, Concept of GMR and GMD. He has discussed the topic related with necessity of Transposition, Three Phase Double Circuit Line with symmetrical and Unsymmetrical Spacing, and Bundled Conductor.

Guest Lecture on "Load flow analysis "

Guest lecture is given by Dr. Bakre from MSEDCL, Mumbai dated on 10.03.2018. He has given the Presentation on standard equation of load flow analysis, power flow analysis is very important in planning stages of new networks or addition to existing ones like adding new generator sites, meeting increase load demand and locating new transmission sites. The load flow solution gives the nodal voltages and phase angles and hence the power injection at all the buses and power flows through interconnecting power channels. It is helpful in determining the best location as well as optimal capacity of proposed generating station, substation and new lines. It determines the voltage of the buses. The voltage level at the certain buses must be kept within the closed tolerances. System transmission loss minimizes. Economic system operation with respect to fuel cost to generate all the power needed. The line flows can be known. The line should not be overloaded, it means, we should not operate the close to their stability or thermal limits.



Guest lecture on "Career Guidance"

This program was helpful for students in understanding basics of Passive Filters scheduled on 24.03.2018. Mr. Shashank Deodhar, Hardware Engineer, Locuselectronics, Pune gave information regarding different types of filters and reactance curves. Students got the information about designing and practical applications of Passive Filters. The speaker took some examples and designed the different filters for various frequencies he also shown responses of these filters using simulation by using Proteus software. He also gave information about different projects and applications, which will be very useful for all students to undertake their projects.



Guest lecture on "HVDC Transmission"



The Guest lecture was given to students on HVDC Transmission System by Dr. S. M. Bakre (Superintendent Engineer, MSEB) dated on 28.02.2018. All the students got information of how the **high-voltage, direct current (HVDC)** electric power transmission system uses direct current for the bulk transmission of electrical power, in contrast with the more common alternating current AC systems. Also, students were understand the modern trend in HVDC system like Multiterminal HVDC system, UHVDC (ultrahigh-voltage direct-current) is shaping to be the latest technological front in high voltage DC transmission technology, etc.

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Guest Lecture on "Sliding mode control"



Guest lecture is given by Prof. S. R. Kurode from COEP dated on 09.03.2018. Prof. S. R. Kurode, Professor - College of Engineering presented his Presentation on Sliding mode control and explained what sliding mode control is and also explained about the variable structure control. She also explained terms like sliding surface, reaching phase, sliding phase, reach-ability condition. She derived expression for speed control of motor using sliding mode control. She also showed video of experiment carried on control of inverted pendulum using sliding mode control and explained difference between other control methods and sliding mode control.

Workshop on "Solar Roof top System and Net Metering"

This program was organized by P.E.Society's "Modern College of Engineering" Shivajinagar, Pune-5. On 21st February 2018. Speaker was Mr.Dhananjay Nandekar, Dr.Nitant Mate, Mr.Santosh Patani. Considering today's scenario on Renewable Resources for Power Generation. Solar Roof Top PV systems have been widely accepted worldwide. So to encourage student as entrepreneur or to impart knowledge on Solar PV System, Department of Electrical Engineering had arranged workshop on: Solar Roof top System and Net Metering with the above objectives. The event was conducted for Electrical students. Information was imparted to students about the manufacturing, installation and commissioning of solar roof top, by eminent Industry persons. The main motive was to guide the Electrical Engineering Students for improving their knowledge related to Solar Roof top system: Manufacturing Installation and Net Metering. Students were benefitted by the valuable information and demonstration of programs given by the Industry Expert.



Academic Awards

Convocation was held at PES's MCOE on 05.03.2018. Department of Electrical Engineering Students awarded on this day. Atul Walke, Nisha Chothe and Ishani Vaidya Felicitated for their academic achievement in Convocation Ceremony organised by PES's MCOE in 2018.



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Guest lecture no "Numerical methods implemented by C-Programming"

Guest lecture on numerical methods on C programming were conducted on 22.03.2018. We were introduced to C-language we also came to know many applications of C-language. **MR. Atul Wadkar (Four dimensional InfoTech, Pune)** explained basic concept of C-Programming such as function, pointer, array, switch case, for loop etc. Sir introduces to us ,C-tokens and decision making and loops in C-Programming were taught by the guest. They have detailed C-Programming by means of power point presentation. the session was very helpful for us in daily and basic programming. The motto of this session was to aware the students about c programming which includes in the syllabus of NMCP that is numerical methods in computer programming.



State Level Project Exhibition 2K18

Department of Electrical Engineering organised a "State Level Project Competition" in association with Institution of Electrical & Electronics Engineers (IEEE), Pune Section and Institution of Engineers (IEI), Pune Local Centre and Indian society of Lighting Engineer's, dated on 3rd April 2018. Many distinguished experts, Dr. D.J. Doke, ISLE founder member Dr. Barjatia and IE(I) member Mr.R.S.Shinde. The honor of guest was Mr.Hemant Sali from MAHATRANSCOM Ltd. were arrived at inauguration. This competition encourages engineering students to become involved in a profession to ensure a sustainable future for our technology. This project competition encourages students to extend their technical knowledge. There were 48 projects participated from all over Maharashtra and domain wise winners are declared during valedictory function. Guest of Honour for both Inaugural and valedictory function is Dr.D.J.Doke, (Chair, IEEE PES/IAS Chapter of Pune Section), he delivered his walk through to the students for enrichment of knowledge in technological world.

Winner's State Level Project Exhibition 2K18(UG)

Sr. No	Domain	Rank	Name of Student	College Name	Project Title
1	Power System, Renewable Energy and Energy Audit	I	Shrikant Pawar	PES Modern College of Engineering	AntiTheft Energy Meter
			Nandu Chaure		
			Nitin Kotwal		
2		II	Isha Farooq	Government College of Engineering Karad.	Non intrusive load disaggregation
			Narendra Ganesh		
			Shreyash Ravindra		
			Yogendra Krushna		
3	Control System, Automation and Industrial Drives	I	Aditi Mahesh	PVG College of Engineering and Technology	Micro-controller based automatic power source selection
			Rajnish Ajay		
4		II	Suyesha SharadChavan	PES's Modern College of Engineering	Scale down model of electrical vehicle for electronics differential
			Sandeep Tembare		
			Manjeet Kuthe		
5	Electrical Machines & Utilization	I	Akshay Ballal	PES's Modern College of Engineering	Fuel gauge optimization & 2 way metering of petrol for automobile
			Vedant Soley		
6		II	Advait Joshi	D.Y.Patil Technical Campus Kolhapur	Three phase I.M operated in single phase supply
			Sourabh Magdum		
			Ashwini More		
			Pradhnya Patil		
			Netaji Panse		

Addressing the audience by Chief Guest
Dr. D. J. Doke
Chair
IEEE PES/IAS Chapter of Pune Section

Addressing the audience by Guest of Honour
Mrs. Medha Deshpande
Director and Business unit Head AMC Yardi,
Software Pvt Limited.

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M-Pulse Electra 2K17 (9th -10th Feb 2017)



Circuit Hunt M-Pulse Electra 2K17

This event was held under Department of electrical engineering of PES MCOE. Name of the event was 'circuit hunt'. This event was conducted mainly to test the technical as well as practical knowledge of students related to circuits. The event was conducted in modern college of engineering for 1 day on 11th Feb 2017. It started at 10a.m. Inauguration of event was done by guest Vinayak Apte. He is an Entrepreneur and alumni of modern college of engineering. The event was conducted with two rounds mainly relating to circuit knowledge, hunting the components through technical clues, developing & testing the circuit on breadboard. The event head was Sandeep Tembare and Co-head was Aditya Wakade.



City Villa M-Pulse Electra 2K17

Inauguration of the event was done by our guest, Mr. Pradeep Daddikar. He is an entrepreneur and alumni of Modern College of Engineering. The event started with the first round in which the students were given an 'A1' size sheet and were asked to prepare a 'Smart City' layout. There was a fixed budget sanctioned and students had to plan the city accordingly. After a time of one and a half hour, second round began. In the second round, the students had to present their layout and had to prove how their plan was better than others.

Quiz M-Pulse Electra 2K17

The event was conducted in P.E.S. Modern college of Engineering for 1 day on 10th Feb 2017. It started at 11a.m by inauguration by judges. The judges were Prof. Rupesh Borkar, Prof. Hrushikesh Shirke. The Event head was Vaibhav Wanare and co-head was Sakshi Zagade. The event helped the participants to develop their Technical Knowledge, Decision making Ability skills and the body language as well. Also, it provided an opportunity for many introspects to the participants. The participants included the students of different engineering colleges. The team who made Best Performance in Three Rounds was declared as the winner. The footfall for the event was very good. The Event took Place Successfully under the Warmth Environment.



Start-up M-Pulse Electra 2K17

The event was conducted in P.E.S. Modern college of Engineering for 1 day on 10th Feb 2017. It started at 10a.m by inauguration by judges. The judges were Mr. Hrishikesh kulkarni, an entrepreneur of mystocklive.com., Prof. D D Deshpande & Prof. Sunita kadali. This event means invention or a business case. It included ideas such as 'Car sensor to avoid accidents', 'Self charging electrical bicycle', Wind farm tree etc.



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Academic Result Records

CLASS	Shift -I	Shift-II
SE	84	81.94
TE	94.29	86.89
BE	93	95

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 paper 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 ofRs 1.7 Lac for BCUD research proposal.

4)Prof.Dr.Mrs.H.H.Kulkarni awarded Doctoral degree from Bharti Vidyapeeth Pune in Jan 2017.

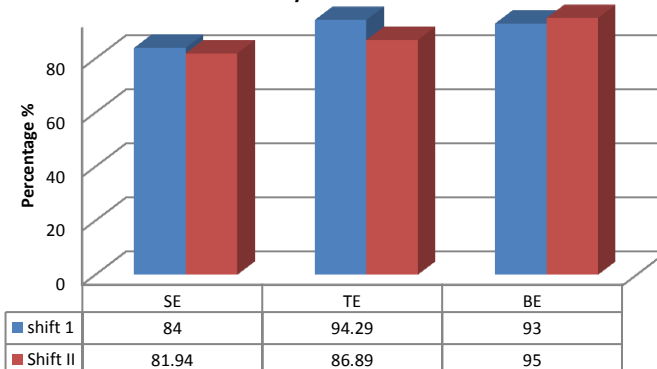
5) Prof.Dr.Mrs.N.R.Kulkarni. awarded for Best paper in 2 Day ICRTCCS 2016 at International institute of information technology.

6) Prof.Mrs.S.N.Chaphekar got best paper award at annual paper meet 2016 in national seminar on "Sustainable Development in Indian power sector for the next decade." at IIE pune section.

Placement Records

Name of student	Name of Company
Abhinay Yadurkar	TCS
Atul Walke	TCS
Shruti Patil	Amazon
Snehal Chote	NTT Data
Siddhesh Yadav	Suzlon Energy
Nimesh Puranik	
Tanmay Kulkarni	
Narayan Ghuge	
Sachin Ukharde	
Tushar Borwake	Diotech India Pvt. Ltd
Vaishnavi Sharma	Ayush Software Pvt
Kamesh Mathkari	I Engineering
Tejas Talathi	Parshwanath
Sharada Pargaonkar	GeWis Engineering

Result analysis 2016-17 Sem-II



SE1st Shift Toppers

Name Of Student	Sgpa
Lodha Pradnya	9.1
Kamble Alaka	8.72
Jaspreetsingh Mehra	8.58
Kumbhar Pranali	8.4
Tellis Lisa	8.4
Jagtap Abhishek	8.28

SE 2nd Shift Toppers

Name Of Student	Sgpa
Chaudhari Chirag	8.72
Dhanashri Bhabad	8.14
Giri Rahul	8.14
Hudekar Raval	8
Motale Dnyaneshwar	8
Prasad Vanjole	7.86
Pathare Shubham	7.78

TE 1st Shift Toppers

Name of Student	Marks	%
Solanke.Saniana.Satish	1143	76.20
Gawali Purva Sanjay	1120	74.67
Shendge Akash Manik	1071	71.40
Deshpande Vinayak	1062	70.80
Herkar Smita Mahadev	1059	70.60

TE 2nd Shift Toppers

Name Of Student	Marks	%
Jadhav Aditva	1124	74.93
Dehadray Abhishek	1029	68.60
Paturkar	1017	67.80
Sole Vedant Uday	989	65.93
Khairnar Akash	988	65.87

BE 1st Shift Toppers

Name Of Student	Marks	Percentage
Chothe Snehal	1241	82.73
Kale Ankita Sanjay	1173	78.20
Yadav Siddhesh	1172	78.13
Raskar Ajinath	1163	77.53
Patil Komal Uttam	1150	76.67

BE 2nd Shift Toppers

Name Of Student	Marks	Percentage
Walke Atul Tukaram	1230	82.00
Vaidya Ishani	1190	79.33
Chothe Nisha Shital	1182	78.80
Ghutugade Samadhan	1165	77.67
Gude Balaji Shesherao	1139	75.93

Faculty Development Programme

Department of Electrical Engineering was organised one week faculty development program in Enhanced learning through various Electrical Energy Audits from 24th April to 30th April 2017. In this era, it's a need of an hour to have a skill set in the various audits in the field of Electrical Engineering. To impart the know-how about these audits, a training session through a Faculty Development Program is being planned. The sessions of the program will be enlightened by the experts in the distinguished areas pertaining to quality enhancement. The proposed course aims at educating the faculty and practicing engineers about the recent trends in the field of Energy Audit & Power Quality Management. It will also focus, various practices in Electricity tariff & Pricing, Illumination Audit and Electrical Safety Mechanism



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Social Activity



Makarsankranti celebration in Orphanage

Keeping the festive spirit alive, Modern college of Engineering "Seeds of HOPE Club" celebrate Makarsankranti on 14.01.17. Seeds of HOPE club visited "Mahar Vastlydhaam" situated in Wagholi, Pune. India is known as a land of festival and celebration and 'Makarsankranti' is one of them which is unique in its perception and significance. This festival is also known as Kite Festival. 'Makarsankranti' is all about prayers, sweets, and kites. Festival of 'Makarsankranti' is celebrated with great zest in all parts of India. On the day of 'Makarsankranti', The sun starts its journey to the Northern Hemisphere. Speaking from astrological perspective, the sun enters Makar rashi (Capricorn, the sun sign). Devotees take dips in the holy water and offer prayers to the sun.

Digital Maharashtra" aligned in Moulding the Future: Reforming Rural Education

Government of Maharashtra & Action for Collective Transformation organized state level competition 'Transform Maharashtra'. Action for Collective Transformation, realize this is a gap and, after talks with multiple stakeholders, have designed a unique initiative, 'Transform Maharashtra: Platform for Youth to Create a Roadmap of Developed Maharashtra by 2025'.

Seeds of HOPE Club Students participated in State level competition. Our Project title is "Digital Maharashtra" aligned in Moulding the Future: Reforming Rural Education.

Seed of Hope team is ranked 8 in the Popular Choice Category in theme Moulding the Future: Reforming Rural Education. Team invited to the Finale Event in Mumbai on May 1st, 2017! The Event attended by the Hon'ble Chief Minister Devendra Fadnis and other eminent personalities.



Prof. Dr. Mrs. N.R. Kulkarni
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Electrical Safety Awareness Program

Department of Electrical Engineering Students organizes safety awareness Program for first year Students on 30.01.2017. The topics covered in the presentation were, basic terms related to electricity, concept of grounding, importance of grounding, common mistakes done while handling electrical gadgets and equipments, types of fire extinguishers and their applications, precautions to be taken while handling electrical gadgets, safety tips, first aid video in case of minor accidents and lastly questionnaire round regarding the presentation.



Editorial Desk

Prof. Mr. Kamal Kant
Staff Coordinator