

# THE BULLETIN

## 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 BULLETIN" 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.



### *Re-Activation of Student Chapter (ISLE)*

Department of Electrical Engineering reactivated ISLE Student Chapter with 26 Student Members and 2 Faculty Members as Life Members. To mark the occasion, a Lecture on Pollution Due to Lights & Eco-Friendly Lighting was delivered by Dr. Prakash Barjatia, GB Member-ISLE on 10 Jan., 2017 also Guest lecture was conducted under IEI student chapter.



### *Workshop on "Application of Arduino"*

Workshop is organized on Application of ARDUINO and taken by Mr. Bharat Kumar and Mr. Bala Vignesh (Project manager Pantech ProED) on 16.02.2017. Arduino is a computer hardware and software company, project, and user community that designs and manufactures microcontroller kits for building digital devices and interactive objects that can sense and control objects in the physical world. The project's products are distributed as open-source hardware and software, which are licensed under the GNU Lesser General Public License (LGPL) or the GNU General Public License (GPL).

### *Workshop on "ME Syllabus Revision"*

ME syllabus revision workshop was organized in Department of Electrical Engineering of PES's Modern College of Engineering, Pune-05 on 3rd February. during the workshop syllabus revision to be implemented for ME Electrical 2017 course with specialization of Power system, Power Electronics & Drives and Control Systems domain. Program started with inaugural ceremony in presence of BOS Coordinators, Members, Subject chairman and subject wise faculty members. The members were divided in their respective domain groups and discussion regarding syllabus revision was done with their respective groups. Then reports were generated for subject mentioning the changes in syllabus. Then workshop was concluded with valedictory function.



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### Farewell to BE Students



In an emotional surged atmosphere on Art circle stage of PES MCOE, Electrical Department had arranged Farewell for BE final year 2017 batch. The program started at 5.30 Pm with a saraswati prayer sang by Ishani Vaidya and Shreya Wangikar 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 followed students followed by dinner.

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



### Guest lecture on 'Illumination Audit - Perspectives & Prospects'

'Illumination Audit - Perspectives & Prospects' conducted under Indian society of lighting Engineers by Dr. Prakash Barjatia, Governing Body Members of ISLE on 15.03.2017. He started with different types of audits and explained perspectives of Illumination audit. Students get well awarded with the energy saved by conducting Illumination audit. Students recognised the importance of conducting illumination audit and potential of energy saved.

### Guest lecture on "Pollution due to lights and Eco-friendly lights"

Guest lecture 'Pollution due to lights and Ecofriendly lights' conducted under Indian society of lighting Engineers by Dr. Prakash Barjatia on 10.01.2017., Governing Body Members of ISLE. He explained different types of lights. He very well elaborate difference between the incandescent lights, CFLs and LEDs. Students understood that LEDs are extremely energy efficient and consume up to 90% less power than incandescent bulbs. He also explained right ways of using the lights. Eco-Friendly lights concept is understood by the students. Students get aware with the various new terms like pollution due to lights like sky glow, trespass, etc .



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### *Guest lecture on "Vector Control of Three Phase Induction motor"*

A two hour guest lecture was engaged by Dr. Arvind Kumar on 18.03.2017. He explained about concept of Vector control of induction motor. He also explained difference between scalar control and vector control of Induction Motor thoroughly. He discussed about direct and Indirect Vector control Methods also.

### *Guest Lecture on "Pilot devices and Control devices"*

Guest Lecture organized on Pilot devices and Control devices which is given Prof.Mr.Ramnani from Mechanical department of PES's MCOE on 07.02.2017.He is a person with having 22 years of industrial experience and technical knowledge. Apart from the theoretical part of pilot and control devices, its different industrial applications and latest developments were explained by him. Students were encouraged to do small projects using such devices to get hands on experience in future.



### *Guest lecture on "Career Guidance"*

Guest lecture is organized for BE final year students on 17.03.2017.Mr.Girish Khadkar shared his experience and guided the students regarding the same. He also aware and guide students about carrier through competitive exam in different sectors of electrical drives as well as in other departments. There are many different carrier options after engineering which are not known to many students. There are many competitive exam conducted by central government. So through competitive exam we can join to different sectors of government jobs. For achieving this hard work and study is necessary.



### *Guest lecture on "Career Guidance"*

Guest lecture is organized on 11.03.2017 on HV measurement in EHV substation. HV measurements are very important in EHV substation to keep our substation in good condition because failure is not allowed in EHV substations. Mr. Rupesh Gaikwad,Ex. Engr, MSETCL Pune Sir give this very important information about HV measurements at substation thoroughly. Students were be able to understand HV measurement in EHV substation.



### *Guest lecture on "Numerical methods implemented by C-Programming"*

Guest lecture on numerical methods implemented by C programming were taken by Mr. Atul Wadkar on 24.03.2017. He told many applications of C-language .Many basic concept of C- Programming such function, pointer, array, switch case, for loop etc. He introduces C-tokens , decision making, loops in C- Programming and its classifications.



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### Industrial Visit "Mitsubishi Electric India Private Limited, Bhosari"



The industrial visit was a part of syllabus of Power Electronics Controlled Drives (PECD) subject for BE Electrical students. This visit held on 22.02.2017-23.02.2017 at Mitsubishi Electric India Private Limited, E13, J Block, Midc, Bhosari, Pune 411026 and had aimed to impart practical knowledge of industrial drives. 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 T.E.(Electrical) At "Hvdc Substation Phadge Mumbai"

This visit was held at "Hvdc Substation Phadge Mumbai" on 21/03/17 & 22/03/17. Due to increased energy consumption, the generation and transmission of the electrical energy is to be increased to meet the never ending demand. Due to this demand for huge amount of electrical energy, the transmission of energy at high voltages is being carried out. With DC asynchronous operation is possible and bulk amount of power can be transmitted HVDC substation includes indoor and outdoor components.



### Academic Awards

Convocation was held at PES's MCOE on 14.02.2017. Department of Electrical Engineering Students awarded on this day. Himanshu Singh (4<sup>th</sup> Rank in SPPU) and PadmarajBulbule (7<sup>th</sup> Rank in SPPU) Felicitated for their academic achievement in Convocation Ceremony organised by PES's MCOE.



PadmarajBulbule (7<sup>th</sup> Rank in SPPU)



Himanshu Singh (4<sup>th</sup> Rank in SPPU)

### Cultural Awards

RushikeshVyavhare of BE 2nd Shift bagged first prize in solo singing competition in College gathering ie, "Spandan 2017"

ZaidSidiqui and RoshmiGaram of BE bagged second prize in duet dance competition in College gathering ie, "Spandan 2017"

### Sports Awards

One of our students SauravTaru is awarded in different sections of Basketball:

- He is selected in SavitribaiPhule Pune University Basket Ball Team (2016-17).
- He has played in Pune university team at west zone Jaipur.
- He played at all over India level in Patiala Punjab (Feb 2017).
- Awarded as a best player in Pune University.



Best Singer Award



Duet Dance Competition Award

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### Technical Awards

- The event Prostart was conducted in PES Modern College of Engineering under the roof of ED cell. Department of Electrical Engineering got the "Maximum Departmental Participation" award in the valedictory ceremony of Prostart. There were four projects selected from Electrical Engineering Department"
- KameshMatkari of BE Electrical Engineering got the "Best Mentor" award in Prostart.



Prostart

### State Level Project Exhibition 2K17

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 dated on 25<sup>th</sup> March 2017. Many distinguished experts, Mr. Devendra Vanarse (Project Manager Cognizant), Mr. Ganesh Shitole (Deputy Manager Matherplatt), Mr. Hemant Rhatwal (Assistant Manager, Thyssenkrupp), Mr. Heramb Mayadeo (Electrical Engineer Black & Veatch), Mrs. Medha Deshpande (Director and Business Unit Head AMC, Yardi Software Pvt Ltd) and Mr. N.S. Parandkar (Emiritus Professor) 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 47 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 2K17(UG)

Name of student	Name of Topic	Domain	Name of Institute
Puranik Nimesh	Design and development of single phase pure sine wave inverter with renewable energy source	Power Electronics and Industrial Drives	PES'sMCOE
Phadtare Divesh			
Kenjale Sanket			
Jadhav Vaibhav			
Nitish Borade	Development of Electrode Material for Supercapacitor	Power System	PES'sMCOE
Saurav Taru			
Sudeep Dhar			
Harish Joshi	Energu Audit of national Chemical Laboratory Pune	Renewable Energy/Energy Audit	PES'sMCOE
Rasika Korde			
Tanmay Kulkarni			
Pranav Kulkarni			
Shambhavi Pise	Monitoring and controlling of servomotor parameters using Electronic Programmable Module	Electrical Machines	PES'sMCOE
Sayali Dhabugade			
Harshada Khalkar			
Ishani Vaidhya			
Prashant Sukhdeve	Bus Detection System for visually impaired person	Control System/Automation	PES'sMCOE
Shivangini Kumar			
Kanchan Ramulwar			

### Winner's State Level Project Exhibition 2K17(PG)

Name of student	Name of Topic	Domain	Name of Institute
Juilee Dhole	Modelling of DSLIM	Control System	PES'sMCOE
Jagruti Borse			



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 (9<sup>th</sup> -10<sup>th</sup> 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 11<sup>th</sup> 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 10<sup>th</sup> 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 10<sup>th</sup> 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.

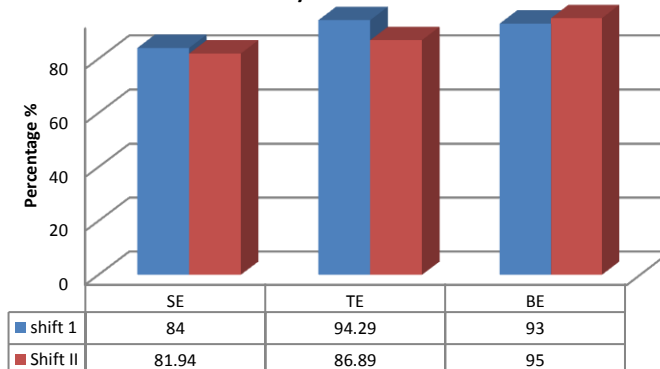
5) Prof.Dr.Mrs.N.R.Kulkarni. awarded for Best paper in 2 Day ICRTCCS 2016 at International institute of information technology.

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 IIEI 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 Borwale	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 1<sup>st</sup> 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 2<sup>nd</sup> 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 1<sup>st</sup> 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 2<sup>nd</sup> 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 24<sup>th</sup> April to 30<sup>th</sup> 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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