



# VIDYULATA

A Half Yearly Newsletter Issue/Vol. No. 6  
May 2018



K.K. WAGH INSTITUTE OF ENGINEERING  
EDUCATION AND RESEARCH  
**DEPARTMENT OF  
ELECTRICAL ENGINEERING**



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## FROM THE DESK OF HOD



Friends,

It's immense pleasure to present this semi-annual newsletter "Vidyulata". Electrical Engineering Department is the dynamic and vibrant department with the blend of young and experienced Faculty.

Department is actively involved in academic as well as research work in current areas of Electrical Engineering and multi-disciplinary streams. The department has well equipped labs with the state-of-the-art software, hardware and machineries.

The faculty members are constantly publishing technical papers in National and International journals and conferences. Also, the department is offering consultancy services to many National/Multinational industrial organizations.

The department is fortunate to have dedicated teachers, devoted students, and committed supporting staff and expert technical staff.

Specially, I congratulate my students for participating in various extra-curricular activities, research work and competitive examinations. My best wishes to all for their bright carrier and successful life.

Dr. B. E. Kushare  
Head of Electrical Engineering Dept.  
[bekushare@kkwagh.edu.in](mailto:bekushare@kkwagh.edu.in)



# VISION AND MISSION

K.K. Wagh Education Society's  
K.K. Wagh Institute of Engineering Education  
and Research, Nashik  
DEPARTMENT OF ELECTRICAL ENGINEERING



## Mission of the Institute

Committed to serve the needs of the society at large by imparting state-of-the-art Engineering education and to provide knowledge and develop ATTITUDE, SKILLS and VALUES, leading to establishment of quality conscious and sustainable research oriented Educational Institute.

## Vision of the Institute

Empowering through quality technical education.

## Mission of the Department

## Vision of the Department

Development of all round, socially responsible, innovative electrical professionals and researchers leading to empowerment to serve needs of society, meet global challenges and emerge as Centre of Excellence.

### M1:

Establish vibrant learning environment to enable students for lifelong learning with ethical practices to face challenges of electrical engineering field and globalization by providing state-of-the-art infrastructural facilities.

### M2:

Promote active learning, critical thinking and engineering judgment coupled with business, entrepreneurial skills.

### M3:

Expose to recent technological advancements and industrial professional practices.

### M4:

Introduce PG Programs and establish recognized research centre.

### M5:

Provide conducive environment and promote intellectual (scholarly) pursuits for encouraging innovation, research, real world problems with multidisciplinary approach.

### M7:

Establish centre of excellence in the field of power quality and energy management.

### M6:

Offer consultancy and R&D services to various social, educational, industrial and commercial organizations for self reliance.



## Program Educational Objectives

**PEO1:** To provide solid foundation in mathematics, science, humanity, environment and engineering fundamentals.

**PEO2:** To train students with wider electrical engineering concepts so as to comprehend, simulate, analyze, design, solve, draw inferences, realize and foster creativity, innovation and research to excel in technical field.



**PEO3:** To provide conducive academic environment to inculcate professional skills, ethical practices and soft skills leading to entrepreneurship development, enhancement of employability, success in competitive examinations and life-long learning.

**PEO4:** To relate engineering issues to socio-economic context with multidisciplinary approach to address the problem of real world.





## Program Outcomes: Engineering Graduates will be able to:

1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.
6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.





DEPARTMENT OF ELECTRICAL ENGINEERING  
K.K. Wagh Education Society's  
K. K. Wagh Institute of Engineering Education  
and Research, Nashik

## Program Outcomes: Engineering Graduates will be able to:

8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

### **Program Specific Outcomes (PSO)**

#### **Students will be able to:**

PSO1: Apply fundamentals of Electrical Engineering to solve real time problems with social and multi-disciplinary approach.

PSO2: Model, simulate, analyze, critically evaluate and interpret the results with acquired professional skills and ethical practices, leading to enhancement of employability.



## TECHNICAL ARTICLE

### Applying Blockchain Technology to Electric Power Systems



Adithya Haribabu Vangari  
(2015-16 Batch from Elect. Engg. Dept. KKWIEE&R,  
Nashik)

Studying at KTH Royal Institute of Technology,

I have shared my insights, which I gained from a project I was part off at ABB, Helsinki in this respective article.

#### Overview

As we know electrical power systems are not planned in a single sitting but rather, they evolve as the society develops which is directly proportional to the population growth, the standard of living, the demand for power for sustaining a stable living and surviving in extreme weather conditions.

For over the last few centuries the electrical power system was largely centralized, and the major source of power generation were fossil fuels such as coal.

From the last two decades the awareness about the environmental impact caused due to the excessive use of conventional sources of energy has increased. This awareness has enabled respective policy makers to come together on a single platform and draw out a sustainable plan for green energy incorporation for the betterment of tomorrow.

The need for a highly reliable, sustainable and efficient electrical power grid resulted into the interconnection of ICT technology with the electrical power systems along with the bilateral flow of communication technology. This according to me is the definition of 'Smart grid'.

#### Introduction

Traditional electrical power systems, especially the distribution system have used greater magnitudes of voltage levels in order to transport higher volumes of power.

As there is increased penetration of renewable energy into the electrical grid, we need intelligent systems which can aid in the electricity markets by providing higher security, greater transparency, being functionally sound and economically viable.



## TECHNICAL ARTICLE

From the below figure we can see the Evolution of the electrical power grid from centralised power generation to decentralised power generation and then to distributed power generation.



Smart meters are a very important link in the smart electrical grid field. They enable monitoring of the power system in a way where there is bidirectional flow of communication between the various segments in the electrical power grid.

The incorporation of smart meters will directly or indirectly aid in increased consumer participation, provide with diverse generation options (wind power, solar power, hydro power, etc) and higher stability. The communication link is of great importance when it comes to smart meters. Blockchain technology also known as Distributed Ledger Technology can be of greater significance if we look at the fundamental characteristics of the technology and its application into smart metering sector.

In the next sections we explore the integration of blockchain technology for peer-to-peer energy trading.

The invention part of the component/service etc. When was your product invented? What were the push/pull forces behind it? What kind of discoveries or incentives had appeared earlier that now made this thing realizable?

### **Blockchain Technology:**

The term blockchain technology was first coined by a paper written by an author named Satoshi Nakamoto in the year 2008. Although the respective research paper talks about a crypto currency named bitcoin, the underlying technology behind Bitcoin is blockchain technology. This technology is of greater interest for us in this report. The most important characteristic of blockchain technology is that it enables peer-to-peer trading with the help of a mathematical function known as proof of work or proof of stake. This makes blockchain networks transparent, robust, open source and reliable.



## TECHNICAL ARTICLE

Pull Forces/ Proactive Forces	Push Forces/ Reactive Forces
Open source	The technology is in nascent stage of development
High flexibility to offer public and private networks	Lack of international standards in the market
As the technology is in the maturing phase there are major opportunity in various sectors	Hardware infrastructure is still in the initial development phase
The functionality of value transfer on a blockchain is a valuable feature	

Table: Pull and Push forces for integrating blockchain technology with power sector

### Evolution of Blockchain Technology

As we know crypto currencies such as 'Bitcoin' have made major headlines due to their exponential value gain in the international stock market [3]. Although the section of crypto currencies is not of much interest to us, the underlying technology known as the 'Blockchain technology' is of much interest when it comes to various aspects of the electrical power industry.

As we know that the present electrical grid is evolving at a fast pace due to the increased penetration of renewable and distributed energy resources, incorporation of energy storage systems and digitization. The integration of blockchain technology with the electrical grid presents with a set of challenges and opportunities.

Let's have a look at the various applications where blockchain technology can be integrated in order to get functionally sound and economically viable applications.

The most valuable characteristic of Blockchain technology is its ability to transfer value over the internet. Similar pattern of characteristic can be observed with the application of internet during the early 1990's where internet was primarily used for the transfer of information. Many think tanks around the world suggest that blockchain technology is what internet was in the early 1990's.

The respective technology can be used in various segments of the electrical grid where we can get intelligent systems that manage the payments, enable peer-peer energy trading, distribution and sale. As we know there is no need for a third-party organization for the authentication of the various transactions on a blockchain network as the respective authentication function is carried out with a computational process known as 'proof of work' or 'proof of stake'. This functionality provides us with the opportunity to substantially reduce the transactions period and simultaneously reduce the cost by avoiding third party sections in the value chain.



## TECHNICAL ARTICLE



### **Business plan: Specific novelty/uniqueness of this product?**

Electric vehicle (EV) market + blockchain technology = a Good fit for Peer-to-Peer energy trading?

In this section I will propose the integration of blockchain technology as a connecting link for Peer-to-Peer energy trading in the field of Electric vehicles especially PHEV's.

In today's era where electric cars, from GM, Tesla, and Nissan, are offering customers everything they want – but without the pollution, I personally feel that a new wave of transformation in the transportation sector awaits us.

The decrease in the battery prices with increase in the performance along with high consumer demand have aided in the rapid growth of electrical vehicles sector.

This has inspired government regulatory agencies and policy makers around the world to become more optimistic and aggressive about the integration of electric vehicles as accumulative part of the transportation sector.

Closely linked to the expansion of electric vehicles is the need for sufficient publicly available charging infrastructure. This remains a crucial challenge until today as we see different charging technologies for interconnectivity trying to outdo each other in concentrating as many customers as possible to their services.

This type of decentralized public charging infrastructure results into a highly fragmented market (e.g. in Germany exist over 400 Charging Pole Operators) and thus leads to inefficient operation with regards to the value charged to the customers for the respective service provided.

This market gap due to the decentralized public charging infrastructure is the reason for integrating blockchain technology which will enable Peer-to-Peer energy trading there by resulting into a distributed public charging infrastructure.

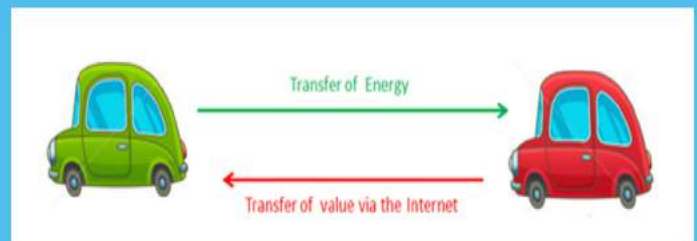
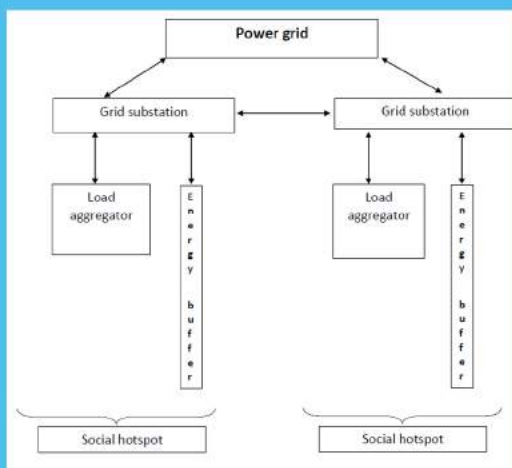


## TECHNICAL ARTICLE

### ISO 15118: Road vehicles – Vehicle to grid communication interface

The various communication protocols with regards to electric Vehicles (EV) which include Battery Electric Vehicles, Plug-In Hybrid Electric Vehicles, and the Electric Vehicle Supply Equipment (EVSE) are stated in the ISO 15118: Road vehicles -Vehicle to grid communication interface standard.

The respective standard also includes various communication protocol standards between the Electric Vehicle Communication Controller (EVCC) and the Supply Equipment Communication Controller (SECC) respectively. The standard ISO 15118-1:2013 provides a general overview and a common understanding the elements which govern the charge process, payment and load levelling. The internal vehicle communication between battery, the respective charging equipment and the communication of the SECC to other actors and equipment are not specified in the ISO 15118.



**Figure: Proposed solution for Enabling Localized Peer-to-Peer Electricity Trading among PHEV's Using Blockchains technology.**

In the above figure the 'energy buffer' represents battery systems installed in order to provide with additional energy buffer capability to the respective electrical grid in case there is greater energy demand as compared to energy supply.

The 'Load aggregator' represents grid supporting infrastructure where it provides with the function of wireless bilateral communication between a set of PHEV's and also performs the 'proof of work' computation process in order to have consensus in the respective blockchain network.



## TECHNICAL ARTICLE

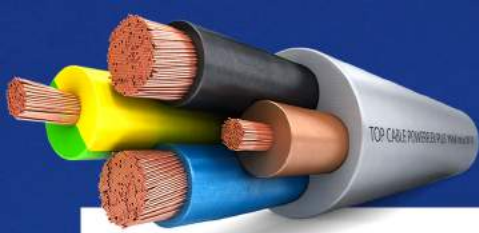
### **What is the market and what is the benefit for the customer?**

As we know electrical networks are not planned but they are evolved and with the exponential development of energy harvesting and bidirectional communication technology the integration of renewable energy into the present grids has increased substantially. As discussed in the above sections, we know the need for clean sources of energy has aided into the implementation and adoption of the renewable energy technology. This has resulted into a new term known as smart grid. Due to the increased penetration of bidirectional communication interface between the energy producers and energy consumers all the energy producing and energy consuming elements act as nodes. Where data is produced and analysed. The nodes can be defined to deliver the functionality of harvesting energy from different renewable energy sources by using sensor networks which have long-term monitoring and remote-control capabilities.

One of the major polluting elements today is the transportation sector. Although due to the rapid development in the energy storage sector and the various regulatory measures undertaken by many of the developed and developing countries to encourage the use of electrical vehicles the entire ecosystem related to the integration of electric vehicles to the present grid is going through rapid development. The plug-in hybrid electric vehicles (PHEVs) play key roles in the elimination of the traditional internal combustion-based vehicles thereby reducing the carbon emissions by a huge margin at an international scale.

In case of plug-in hybrid electric vehicles (PHEVs) the flow of energy is not only from the home grid but also between vehicle-vehicle via peer-peer energy trading. This may help in shifting the peak load. A parking lot with charging stations equipped with bidirectional charging facilities can be termed as social hotspots. Here the Peer-to-Peer energy trading can be carried out. [4] Now coming back to the present scenario, in a conventional power grid the energy generated and transmitted with the help of electrical networks (usually meshed) which are complex in nature. Also, there are losses involved such as transmission and distribution losses, heat losses. This results into low overall efficiency. In a new approach, PHEVs with surplus energy can discharge energy to cater the energy demand of local charging PHEVs, thereby balancing energy supply and demand at a local level (hotspots). Although, ideally that may not be the case. Although the concerning factors such as the lifetime of the battery, privacy and fair-trading practices adversely affect the willingness of PHEV owners to participate in peer-peer energy trading market. This results into problems such as demand and supply unbalance among the PHEVs.





## ACHIEVEMENTS: STUDENTS

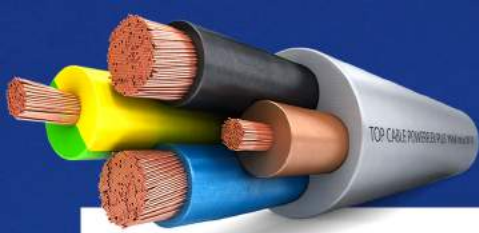


Miss. Komal Bhandare of B.E. Electrical represented the SPPU at Inter University at All India Level at Kurukshetra



Miss Anjali Patil won the title of NIFF Ms Maharashtra India Fresh Face 2018 and brand ambassador of NIFF 2018 at 10th Nashik International Film Festival 2018





## ACHIEVEMENTS: FACULTY

Prof. Dr. B. E. Kushare, Head of Department is elected as Chairman for Board of Studies Electrical Engineering, Savitribai Phule Pune University, Pune



Felicitations of Prof. Dr. B. E. Kushare as Chairman for Board of Studies at AISSMS, Institute of Information Technology, Pune

Hon'ble Shri. Sameer Wagh, Trustee, K. K. Wagh Education Society, visited Shanghai Jiao-Tong University, Shanghai on March 9, 2018, where Dr. Ravindra Munje is pursuing his post-doctoral research work. They visited Library, smart classrooms, UG and PG Laboratories, and some advanced research Laboratories. They also had a discussion with a Professor Weidong Zhang, from the Department of Automation about Chinese teaching-learning process.



During the visit of Hon'ble Shri. Sameer Wagh to Shanghai Jiao Tong University. From left to right Hon'ble Shri. Sameer Wagh, Professor Weidong Zhang and Dr. Ravindra Munje on March 9, 2018

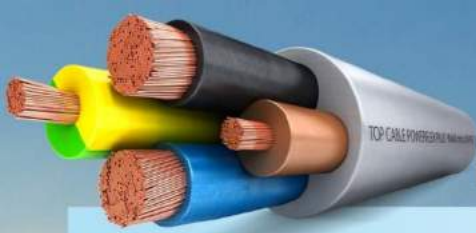




## PLACEMENT

Sr. No.	Name of the student placed	Name of the Employer
1	Andhale Tejashwini	Rishabh Instruments Pvt. Ltd.
2	Deshmukh Abhijeet	Rishabh Instruments Pvt. Ltd.
3	Kanse Ashutosh	Rishabh Instruments Pvt. Ltd.
4	Kulkarni Pranav	Rishabh Instruments Pvt. Ltd.
5	Mistri Neha	Rishabh Instruments Pvt. Ltd.
6	Tejal Malode	Rishabh Instruments Pvt. Ltd.
7	Takate Amol	Rishabh Instruments Pvt. Ltd.
8	Shinde Maroti	Torrent Power Ltd.
9	Bharaskar Sheetal	Torrent Power Ltd.
10	Tayade Minal	Torrent Power Ltd.
11	Ugale Deepali	Torrent Power Ltd.
12	Sood Ayush	Torrent Power Ltd.
13	Thakur Prashant Shriram	Torrent Power Ltd.
14	Mahajan Milan Subhash	CG Power & Industrial Solutions
15	Shinde Kiran	Konecranes Lifting Businesses Pvt. Ltd.
16	Chaudhary Priyanka	Konecranes Lifting Businesses Pvt. Ltd.
17	Sonawane Ankita	Konecranes Lifting Businesses Pvt. Ltd.
18	Wakhare Prasad Vivek.	R R Plast Extrusion Pvt. Ltd
19	Shinde Yash Rajendra	R R Plast Extrusion Pvt. Ltd
20	Shinde Darshana Kishor	R R Plast Extrusion Pvt. Ltd
21	Chaudhari Kalpesh Pramod	R R Plast Extrusion Pvt. Ltd
22	Godshelwar Shweta	R R Plast Extrusion Pvt. Ltd
23	Gond Gaurav	Mahindra & Mahindra Ltd.
24	Deshpande Shruti	Mahindra & Mahindra Ltd.
25	Rajhans Kshipra	Mahindra & Mahindra Ltd.
26	Kulthe Hemangi	Mahindra & Mahindra Ltd.
27	Rajhans Kshipra	Fin IQ Solutions Pvt. Ltd.
28	Sahare Pallavi	Mufont Technologies Pvt. Ltd.
29	Shelke Vaibhav	Mufont Technologies Pvt. Ltd.
30	Suryawanshi Rohit Shivaji	Mufont Technologies
31	Tayade Minal	Surfmii Promotions Pvt. Ltd
32	Singh Kunwar Pal	Surfmii Promotions Pvt. Ltd
33	Sonar Shamali	Hind Rectifiers
34	Yadav Abhishek	Amazon Ltd.
35	Yeola Pooja	ICICI Prudential





## INDUSTRIAL VISITS

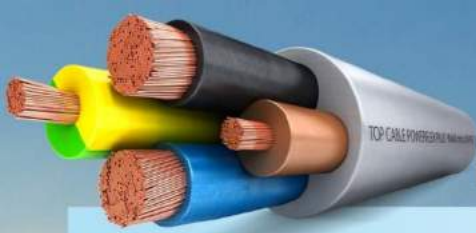
### S. E. Electrical Engineering

Sr. No.	Subject	Name of Industry	Date
1	Electrical Machine 1	Lotus Transformer, PVN Transformer, Ambad MIDC, Nashik.	23/01/2018
2	Power System-I	132 kV Takali Substation, Nashik	20/02/2018
3	Audit Course - I	Deshmukh Solar Energy Pvt. Ltd.	24/02/2018
4	Audit Course - I	Adgaon	28/02/2018
5	Numerical Methods and Computer Programming	TAACT, Satpur, Nashik	03/03/2018
6	Fundamentals of Microcontroller and its Application	Motwane Industries Pvt. Ltd, Nashik	04/03/2018
7	Network Analysis	Motwane Industries Pvt. Ltd, Nashik	04/03/2018
8	Fundamentals of Microcontroller and its Application	TAACT, Satpur, Nashik	10/03/2018
9	Numerical Methods and Computer Programming	TAACT, Satpur, Nashik	10/03/2018
10	Electrical Machines-I	Crompton Greaves Ahmednagar	11/03/2018
11	Power System-I	132 KV MSETCL Takali	17/03/2018
12	Electrical Machines-I	Crompton Greaves Ltd., Ahmednagar	17/03/2018
13	Fundamentals of Microcontroller and its Application	Motwane Manufacturing Company Pvt. Ltd	03/04/2018
14	Network Analysis		03/04/2018

### T. E. Electrical Engineering

Sr. No.	Subject	Name of Industry	Date
1	Power System-II	132 kV Sub- Station, Takali, Nashik.	12/01/2018
2	Utilization of Electrical Energy	IREEN, Nashik Road	24/02/2018
3	Utilization of Electrical Energy	Mangal Polysacka Pvt. Ltd. B133/144, STICE, Musalgaon Sinnar, Nashik	28/02/2018
4	Utilization of Electrical Energy	Masina Alloys Pvt. Ltd. Plot No. D-8, STICE, Musalgaon Sinnar, Nashik	28/02/2018
5	Energy Audit and Management	Times of India, Airoli, Mumbai	04/03/2018
6	Utilization of Electrical Energy	Indian Railways Institute of Electrical Engineering, Nashik Road	17/03/2018
7	Control System-I	Sahyadri farmers Producer Company Ltd, Nashik	20/03/2018
8	Power System-II	HVDC Station Padghe	21/03/2018
9	Energy Audit and Management	Times of India, Airoli	26/03/2018
10	Design of Electrical Machines	Lotus Transformer, PVN Transformer, Ambad MIDC, Nashik.	06/04/2018
11	Design of Electrical Machines	PVN Transformers and Electricals, Plot No. W 32 (B), Behind NAMCO Bank,, MIDC Ambad, Nashik	08/04/2018





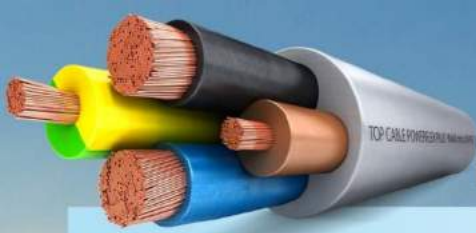
### B. E. Electrical Engineering

Sr. No.	Subject	Name of Industry	Date
1	HVDC & FACTS	±500 kV HVDC Terminal Link, MSETCL Padghe	22/01/2018
2	Switchgear & Protection	Crompton Greaves Ltd.-Nashik	12/02/2018
3	Power Electronics Controlled Drives	Jawahar Shetkari Sahakari Soot Girni Ltd. Hutatma Shirishkumar Nagar, A.P. Morane (Laling), Dhule 424 001	16/02/2018
4	Switchgear and Protection	Larsen & Toubro Ltd. A9, MIDC Industrial Estate, Ahmednagar	25/02/2018
5	HVDC & FACTS	M. S. E. Transmission Co. Ltd. 500 kV HVDC ID Unit, Padghe, Tal. Bhivandi, Dist. Thane 421 101	15/03/2018
6	Power Electronics Controlled Drives	Nashik Ispat Pvt. Ltd. MIDC, Malegaon, Sinnar, Nashik	28/03/2018
7	Smart Grid	M. S. E. Power Co. Ltd. 50 MW + 75 MW Solar Photovoltaic Plant, Tal. Sakri, Dist Dhule	04/04/2018

## EXPERT LECTURES

Sr. No.	Name of Expert Person	Industry (or) Organization Name	Topic
1	Mr. Sohil Shah & Mr. Ajinkya Chopade	Career Launcher, Nashik	Career Guidance & Higher Education
2	Mr. Subhash Rajguru	Entrepreneur	Entrepreneurship
3	Mr. Shailesh Parashare	Teknocrats Control Systems Pvt Ltd	Energy Conservation Devices
4	Mr. John Yesuraj	General Manager- R&D, CG Power And Industrial Solutions Ltd	Project Guidance
5	Mr. Rahul Patil	Deputy Manager- R&D, CG Power And Industrial Solutions Ltd	Gas Insulated Switchgear
6	Mr. Ravindra Wadikar	CEO M/s. Electromotives	Power Electronic Controlled Drives "
7	Mr. Sachin Mishra	Product Manager at ABB	Medium Voltage Switchgear
8	Mr. Amit Gore	Director, Akshay Study Abroad	Studying Abroad - Requirements, process and career opportunities
9	Mr. Mandar S. Gokarn	Director, Sanjay Tools & Adhesives	Entrepreneurship
10	Mr. Chainesh Patil	Schneider	Energy Management System
11	Mr. Milind Dalvi	Schneider Mumbai	Machines & Switchgear- Industrial Application
12	Mr. Anant Waghchoure	Megger, Electrical/Electronic Manufacturing	Condition Monitoring
13	Mr. Sohil Shah & Ajinkya Chopade	Career Launcher, Nashik	Career Guidance & Higher Education
14	Mr. Subhash Rajguru	Entrepreneur	Entrepreneurship





15	Mr. Hira Jadhav	Ram Solar Private Ltd.	Sustainable Energy: Solar Power
16	Mr. John Yesuraj	General Manager- R&D, CG Power And Industrial Solutions Ltd	Project Guidance
17	Mr. Suresh Bhandekar	Ex Chief Engineer, MahaGenco	Electrical Safety
18	Mr. Sachin Mishra	Product Manager at ABB	Medium Voltage Switchgear
19	Mr. Amit Gore	Director, Akshay Study Abroad	Studying Abroad - Requirements, process and career opportunities
20	Mr. Mandar S. Gokarn	Director, Sanjay Tools & Adhesives	Entrepreneurship
21	Mr. Chainesh Patil	Schneider Electric	Energy Management System
22	Mr. Milind Dalvi	Schneider Electric Pvt Ltd.	Machines – Industrial Applications
23	Mr. Anant Waghchoure	Megger India Pvt Ltd.	Condition Monitoring

\*conducted by same expert for first and second shift

## EVENTS ORGANISED BY DEPARTMENT

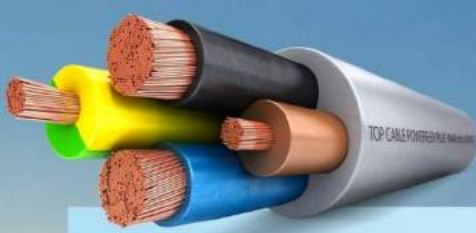
Sr. No.	Title of Event	Dates of Event	Total No. of Participants
1	National level workshop on “Smart Grid Technologies and Applications of IOT”	29 <sup>th</sup> – 30 <sup>th</sup> Jan. 2018	113
2	LV Switchgear selection and its application	12 <sup>th</sup> – 13 <sup>th</sup> March 2018	67
3	FDP on Hands on training on ANSYS software and its application	22 <sup>nd</sup> – 23 <sup>rd</sup> March 2018	33
4	PSRES 2018	23 <sup>rd</sup> – 24 <sup>th</sup> March 2018	115
5	Working Model Contest, IET Karmaveer Expo 2018	23 <sup>rd</sup> – 24 <sup>th</sup> March 2018	244

### IET- Karmaveer Expo 2018

March 23-24, 2018

- Total Models presented in group-A: 38 and participants: 114
- Total Models presented in group-B: 18 and participants: 62
- Total Models presented in group-C (IOT): 08 and participants: 23
- Total Models presented in group-D polytechnic groups: 15 and participants: 42
- School Entry: 01 Participant: 03
- Total Models presented in Expo 2018: 80 and participants: 244
- Total Posters Presented: 48 and participants: 103





## EVENTS ATTENDED BY STUDENTS

1	Bibaswan Bose	ICSCET	Paper Presentation	Universal College of Engineering	5/1/2018	Participation	National
2	Suryawanshi Rohit	Robo Race-2018	Project Competition	City Centre Mall, Nashik	25/2/2018	Participation	Regional
3	Karan Singh	4 <sup>th</sup> Shikhrewadi Badminton Tournament 2018	Sports	Medical Practitioners Association, Nashik	26-28/1/2018	Runner-Up	Regional
4	Tanu Mishra	Workshop	Internet of Things	Cognifront Academy	10/1/2018	Participation	International
5	Patil Perna	Sport Commitee	Basket Ball	SPPU University	2017-18	Participation	National
6	Yaduraj Bharode	Blood Donation	Blood Donation	Civil Hospital Nashik	27/3/2018	Participation	National
7	Siddharth Shridhar Naik Kalia	NPTEL Online Certification	Power system Engineering	IIT Kharagpur	April - 2018	Participation	National
8	Sushant Sanjay Kolhe	NPTEL Online Certification	Matlab Programming for Numerical Computation	IIT Kharagpur	March - 2018	Participation	National
9	Sushant Sanjay Kolhe	NPTEL Online Certification	Cryptography and network Security	IIT Kharagpur	March - 2018	Participation	National
10	Shrivastav Adarsh	Robocon 2018	Robotic Contest	MIT, Pune	3/3/2018	Participation	National
11	Shrivastav Adarsh	Mathworks	MATLAB Onramp	MathWorks	1-3/3/2018	Participation	National
12	Shrivastav Adarsh	Practical Workshop	Advanced Etheical Hacking & Digital Security	IRT		Participation	National
13	Sanket Shahane	Robocon 2018	Robotic Contest	MIT, Pune	3/3/2018	Participation	National
14	Sanket Sanjay Shahane	Workshop	New Trends in Renewable Energy	Amrut Vahini College of Engineering, Sangamner	15-16/2/2018	Participation	National
15	Daspute Tejas Vinod	Workshop	New trends in renewable energy sources	AMRUTVAHINI COE, Sangamner	15-16/2/2018	Participation	Inter Collegiate
16	Adhav Abhijit Madhukar	Workshop	New trends in renewable energy sources	AMRUTVAHINI COE, Sangamner	15-16/2/2018	Participation	Inter Collegiate
17	Deshmukh Arjun Rajendra	Workshop	New trends in renewable energy sources	AMRUTVAHINI COE, Sangamner	15-16/2/2018	Participation	Inter Collegiate
18	Yash Wankhedkar	The Startup League	The Startup League	Million Minds	2017-2018	Participation	State Level
19	Nilesh Balu Gaikwad	Victor 2nd National Para Badminton Championships -2018	Victor 2nd National Para Badminton Championships-2018	Victor 2nd National Para Badminton Championships-2018	23-25/3/2018	Participation	National
20	Dimple Vivek Chaudary	Work shop	Gornment Certificate Course in Solar Energy	IDEMI	18/2/2018	Participant	State

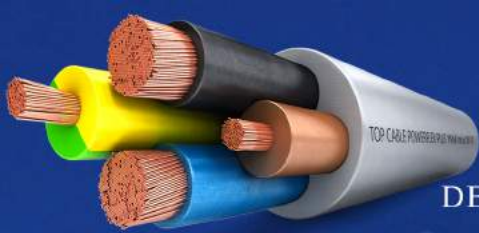




## EVENTS ATTENDED BY FACULTY

Sr. No.	Name	Title	Organized by	Date	Duration
1	G. N. Jadhav	Computer Aided Power System Analysis	NITTTTR Chandigarh	29-30 March, 2018	Two days
2	Dr. M. P. Thakre	Quality Enhancement of Teachers	KKWIEER, Nashik	Feb-April, 2018	2 Week
3	A. N. Game	Quality Enhancement of Teachers	KKWIEER, Nashik	Feb-April, 2018	2 Week
4	O. N. Buwa	Quality Enhancement of Teachers	KKWIEER, Nashik	Feb-April, 2018	2 Week
5	M. M. Gokarn	Quality Enhancement of Teachers	KKWIEER, Nashik	Feb-April, 2018	2 Week
6	J. D. Patil	Recent Technology for energy Management in Smart Grid	VNIT, Nagpur	29 Jan-3 Feb, 2018	6 days
7	A. M. Jain	Solar Energy Harvesting	SGGS, Nanded	27-31 March, 2018	5 days
8	A. N. Game	Solar Energy Harvesting	SGGS, Nanded	27-31 March, 2019	5 days
9	Dr. M. P. Thakre	Advanced Computational tools in Engineering & Technology	GCOE, Nagpur	19-23 March, 2018	5 days
10	J. P. Shah	Artificial Intelligence techniques for Smart Grid Applications	NIT, Warangal	3-7 April, 2018	5 days
11	N. N. Jangle	Online NPTEL certification course on, "Effective Engineering Teaching in Practice".	IIT Madras	Feb. - March 2018	4 Week
12	T. N. Date	Nalanda Business Associates, FDP	Nalanda Business Associates-Pune	9-10 Feb, 2018	2 days
13	Dr. B. E. Kushare	B.E. Syllabus revision workshop	AISSMS COE-Pune in association with SPPU	30 Jan. 2018	1 day
14	S. S. Khairnar	B.E. Syllabus revision workshop	AISSMS COE-Pune in association with SPPU	30 Jan. 2018	2 days
15	N. N. Jangle	Recent trends in renewable energy technology power quality enhancement and electrical drive	PDPU, Gandhinagar	8-9 March, 2018	2 days
16	O. N. Buwa	Recent trends in renewable energy technology power quality enhancement and electrical drive	PDPU, Gandhinagar	8-9 March, 2019	2 days
17	M. M. Gokarn	Recent trends in renewable energy technology power quality enhancement and electrical drive	PDPU, Gandhinagar	8-9 March, 2018	2 days
18	R. A. Ahire	"Security in Embedded System's and IOT"	NDMVP KBGT COE, Nashik	27 - 28 Feb. 2018	2 days
19	R. A. Ahire	Vacational Training	Nexus Control, MIDC Ambad, Nashik.	08 - 18 May 2018	11 days
20	R. A. Ahire	NPTEL Online Course: Business English Communication	Online Course	Feb-Mar 2018	4 Week
21	M. R. Rade	NPTEL Online Course: Power System Engineering	Online Course	Feb-April 2018	12 Week





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*This newsletter has covered all the events which organized in and by Electrical Engineering Department, K. K. Wagh Institute of Engineering Education & Research, Nashik. We are here going to invite suggestions, feedback and query for improvement in future newsletters, if any, with the warm regards.*