VIDYULATA

A Half Yearly Newsletter Issue/Vol. No. 8
May 2019

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.
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VISION AND MISSION

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.

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.

Mission of the Department

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.

M6: Offer consultancy and R&D services to various social, educational, industrial and commercial organizations for self reliance.

M7: Establish centre of excellence in the field of power quality and energy management.

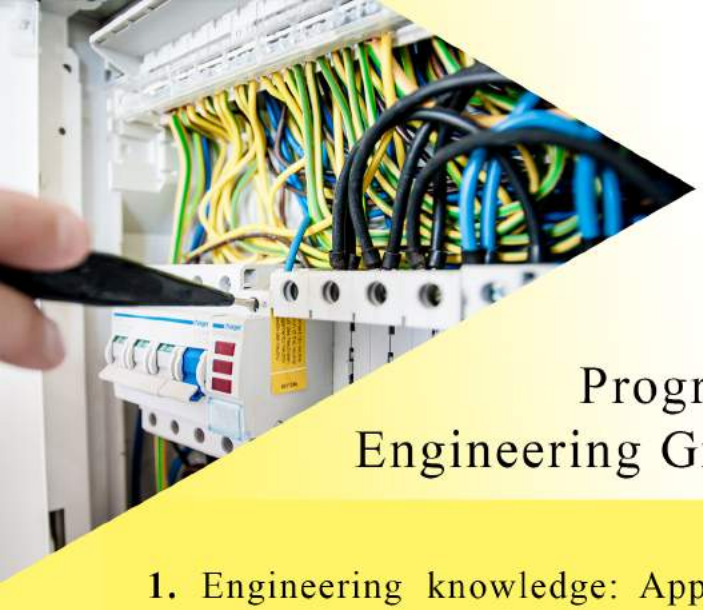
Program Educational Objectives

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 th 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.

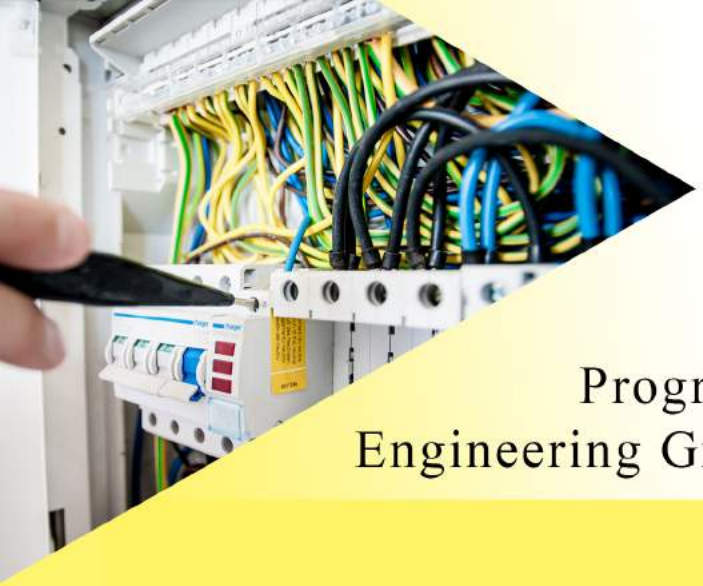
3. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

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.



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

A Concept of Hybrid Solar Water Pump,Energy Saving Opportunity, Impact on Power System

Prajyot Singh Bisen
(2014-15 Batch from Elect.
Engg. Dept. KKWIEE&R, Nashik)
Sr. Design Engineer - Power Electronics
SunEdison Infrastructure

Introduction

The idea of hybrid solar system or hybrid solar water pump system is to use the load or pump without depending on one single power source. We can use the water pump in presence of grid & in absence of grid; the solar power is utilized more efficiently in this topology than existing grid interactive solar topology.

Current Scenario

Currently there are around 1.5 lakhs of solar water pumps have been installed across country, all installed pumps are off grid pumps. If farmer don't need water, the generated energy is getting wasted. The hybrid water pump concept says that, this energy can be efficiently transferred to grid with additional electronics circuit.

Proposed System Design

This product is developed from real time need of site condition; the product includes the following system blocks.

- PV panel
- Grid tie inverter
- Grid
- Variable frequency drive
- High voltage switch circuit (MOS/IGBT based)
- Driver circuit
- Grid sense circuit
- Logic & Controller circuit
- BIAS power supply circuit

Operation

- Operation state of the system is depending upon the grid supply availability; depending on grid the system state is determined.
- If grid is absent the whole generation & export will stop, at this condition the solar will be diverted to the VFD through a converter & pump will run.
- If grid is present the pump will be operating with grid power & Excess will be exported to the grid.
- This topology will lead to save power in power cut time & tends to utilizing solar energy more efficiently.

TECHNICAL ARTICLE

Surya Raitha Pilot Project in Harobele Village, Kankapura Taluk, Ramanagara District, Karnataka

- In the pilot project, 310 IP sets in Harobele 11kV feeder in Kanakapura Taluk are being converted to Net metered Solar pumping system. The project will (a) replace the existing inefficient pump sets with variable frequency drive pumpsets along with pump controllers (b) power the pumpsets by solar. The excess energy generated will be exported to the grid on net-metering concept.
- The scheme is financed by a combination of farmer investment, GoK subsidy, MNRE subsidy and BESCOM investment as a soft loan that has to be repaid by the farmer through their net metering tariff revenues in initial years. The net metering revenues will be deposited into an ESCROW account as per the tariff of Rs.7.20 fixed by KERC. Out of which Rs.6.00 will be paid as loan repayment amount, Rs.1.00 will be paid as generation based incentive to farmers through farmer's co-operative society and Rs.0.20 will be paid to the Co-operative Society for its maintenance.
- Payback period for farmers is estimated as 10-12 years based on the solar generation and utilization factor of the pump set.

ACHIEVEMENTS: STUDENTS

Nilesh Gaikwad, who was ranked 5th (fifth) in the National Para badminton rankings and 27th in the world rankings, won bronze in both singles and doubles at Senior National Para Badminton Championship in Rudrapur, Uttarakhand

Three project groups of Electrical Engineering Department was received funding of Rs 45000/- from NIMA GIZ under SME live projects by Academia. And Rs. 30000/- from Tata Technologies as award of appreciation on successful completion of project. Each project group received total amount of Rs. 25000/-.

Group 1: Under guidance of Prof. R. A. Ahire, project titled 'Desalination of sea water with solar tracking and cleaning system' completed by Kalyani Bansode, Shital Gosavi, Shreya More and Vaishnavi Pardeshi.

Group 2: Under guidance of Prof. Pankaj V. Gautam, project titled 'IoT Based Street Light Control and Monitoring' completed by Raghvendra Pal Singh, Ajinkya Sonawane, Deepak Mourya, Rohit Joshi and Paras Jadhav.

Group 3: Under guidance of Prof. Pankaj V. Gautam, project titled 'Real Time Monitoring and Data Acquisition of Energy Meters' completed by Adarsh.

Sushant Kolhe from TE Electrical Engineering secured First Rank with Gold in NPTEL examination.

ACHIEVEMENTS: STAFF

January 16, 2019: Dr. Ravindra K. Munje visited Shanghai Nuclear Engineering Research and Design Institute (SNERDI) for project discussion with Professor Zhang Weidong, Professor Fu Shan, Prof. Lu Yi. SNERDI is first commercial nuclear power plant vendor in China. It is established in 1970. It has now turned out to be a worldwide technology research and design institute for nuclear electric power. Two labs have been visited, namely Human factors engineering laboratory and Design verification laboratory.

A photograph taken just outside the laboratories (from left Ms. Lin, Prof. Yi Lu, Professor Zhang Weidong, Ms. Shuhui Zhang, Professor Shan Fu, Dr. Danying Gu, Dr. Ravindra Munje, Ms. Fei Song)

April 5, 2019: Dr. Ravindra Munje received "Outstanding Researcher Award-2018" by Green ThinkerZ society at 3rd International Convention on Interdisciplinary Research for Sustainable Development held at Confederation of Indian Industry, Chandighar, India on April 5, 2019 for the remarkable contribution in the field of Power Control of Nuclear Power Plant.

greenthinkerz.org
IRSD
Green ThinkerZ Awards - 2018
greenthinkerz.org

Green ThinkerZ– Outstanding Researcher Award 2018

presented to

Dr. Ravindra Kacharu Munje

from

K. K. Wagh Institute of Engineering Education and Research, Nashik, Maharashtra, India

for remarkable contribution in the field of
Power Control of Nuclear Power Plant

at 3rd International Convention on **Interdisciplinary Research for Sustainable Development** held at Confederation of Indian Industry (CII) Chandigarh (UT), India, 5 April 2019

Er. Tanvir Singh
President (GT)

SUSTAINABLE COSMOS

Dr. Sapna Mehta
Head Research (GT)

ACHIEVEMENTS: STAFF

May 7, 2019: Dr. Ravindra K. Munje Completed Post-Doctoral Fellowship from Shanghai Jiao Tong University in May 2019 in Control Science and Engineering.

博 士 后 证 书

POSTDOCTORAL CERTIFICATE

Ravindra Kacharu Munje博士于 2017 年 6 月至 2019 年 5 月

在 上海交通大学

控制科学与工程 学科（领域）从事博士后研究工作，并完成在站期间的科研任务。

特发此证

博士后编号：187607 全国博士后管理委员会

2019 年 5 月 7 日

Dr. Akbar Ahmad won the main award in Typhoon HIL's 10 for 10 Awards Program. Award is a HIL402 real time emulator with a lifetime Typhoon HIL software licence (also known as the "402 Academic Package"). Typhoon HIL Inc. is the market and technology leader in the rapidly-growing field of ultra-high-fidelity controller-Hardware-in-the-Loop (C-HIL) simulation for power electronics, microgrids, and distribution networks is located in Switzerland.

Dr. Mohan P. Thakare has been appointed as "Member of Editorial Board" for all associated journal (Elsevier Scopus) of Blue Eyes Intelligence Engineering and Sciences Publication (BEIESP).

PLACEMENT

Sr. No.	Name of the student placed	Name of the Employer
1	Jondhale Sachin Bhausaheb	Infosys
2	Lahare Vishal Sopan	Infosys
3	Mulatkar Rachana Anilrao	Infosys
4	Kotkar Tejaswini Ashok	Infosys
5	Kalyani Bansode	Infosys
6	Bhavsar Dhanashree Vikas	ABB Ltd.
7	Pobatti Shrutika Shrinivas	ABB Ltd.
8	Shelke Rajlaxmi Shrikant	ABB Ltd.
9	Pranali Jadhav	Tata Motors
10	Pooja Hadpe	Tata Motors
11	Mayur Shelar	Tata Motors
12	Mhaske Anil Santosh	Crompton Greaves
13	Singh Rupesh	Hind Rectifiers Ltd.
14	Yadav Rishikesh	Hind Rectifiers Ltd.
15	Ganore Kiran	Hind Rectifiers Ltd.
16	Bhalke Akash Balu	Hind Rectifiers Ltd.
17	Guntuk Vaibhav Shivkumar	Hind Rectifiers Ltd.
18	Shailesh Sonawane	Torrent Power
19	Sayali Yeole	Cognizant
20	Himani Mali	Epic Research
21	Rishikesh Balasaheb Yadav	Epic Research
22	Dandekar Varsha Prabhakar	Epic Research
23	Wagh Kshitija Sandeep	Epic Research
24	Rajole Meghana Bhausaheb	Finiq Solutions
25	Patil Anjali Sunilkumar	Finiq Solutions
26	Tejas Dashpute	PinClick
27	Ashish Yadav	PinClick
28	Aniket Sable	PinClick
29	Tadavi Wasim Nabab	MAHADISCOM
30	Shailesh Sonawane	JFE Engineering India Pvt. Ltd
31	Deshpande Hitesh Chandrakant	Mufront
32	Pooja Rajnikant Chaubal	Research Inn
33	Varsha Adgale	PRAJ
34	Vishal Matsagar	FACE
35	Aditya Govardhane	FACE

INDUSTRIAL VISITS

S. E. Electrical Engineering

Sr. No.	Subject	Name of Industry	Date
1	Electrical Machines-1	(1) Lotus Transformers (2) PVN Transformers and Electricals	07/02/2019
3	Power System-I	132 KV Takali Substation, Nashik	21/02/2019
4	Electrical Machines-1	PVN Transformer and Electricals, Ambad, Nashik	28/02/2019
5	FMA	Fox Control Pvt. Ltd.	08/04/2019 and 09/04/2019
6	Numerical Methods and Computer programming	Fox Control Pvt. Ltd.	

T. E. Electrical Engineering

Sr. No.	Subject	Name of Industry	Date
1	Power System-II	132 kV Sub-station, Mhasrul	5/2/2019
2	Utilization of Electrical Energy	Electric Traction Workshop (POH), Bhusawal	11/02/2019
3	Control System-I	Shree Control Solutions, Ambad, Nashik	12/02/2019
4	Design of Electrical Machine	PVN Transformers Pvt. Ltd, Ambad, Nashik	13/02/2019
5	Energy Audit and Management	Dwarkadhish Sakhar Karkhana, Taharabad	23/02/2019
6	Utilization of Electrical Energy	Traction Rolling Stock, MOH, Central Railway, Bhusawal	08/03/2019
7	Power System-II	HVDC Terminal Station, Padghe	29/03/2019
8	Control System-I	HVDC Terminal Station, Padghe	29/03/2019

B. E. Electrical Engineering

Sr. No.	Subject	Name of Industry	Date
1	Power Electronic Controlled Drives	Jawahar Shetkari Sahkari Soot Girani, Dhule	31/01/2019
2	Smart Grid	Sakri Solar Power Plant, Dhule	31/01/2019
3	Power Electronics Controlled Drives	Jawahar Shetkari Sahkari Soot Girani, Dhule	31/01/2019
4	Smart Grid	Sakri Solar Power Plant, Dhule	31/01/2019
5	HVDC and FACTS	HVDC ± 500 kV Terminal at Padghe, Bhivandi	20/02/2019
6	Switchgear and Protection	Larsen and Toubro Ltd., Ahmadnagar	03/04/2019
7	Switchgear and Protection	Larsen and Toubro Ltd., Ahmadnagar	08/04/2019

INDUSTRIAL TRAINING BY STAFF

Sr. No.	Name of Staff Member	Name of Industry	Duration
1	Minal R. Rade	Sivananda Electronics, Deolali Nashik	15 days 6th to 22nd May 2019
2	Jaya. A. Mane	Sivananda Electronics, Deolali Nashik	15 days 6th to 22nd May 2019
3	Rupali A. Ahire	Lucy Electric Pvt. Ltd, Ambad Nashik	15 days 6th to 22nd May 2019
4	Nayana N. Jangle	Lucy Electric Pvt. Ltd, Ambad Nashik	15 days 6th to 22nd May 2019
5	Atul M. Shewale	Fox Solutions, Shed No.7,Upper Ground Floor, Gat No 439,Mumbai Nashik Highway, Gonde Dumala, Igatpuri, Nashik	15 days 20th to 6th May 2019
6	Jitendra D. Patil	Spark Electricals, MIDC, Ambad, Nashik	15 days 16th to 30th May 2019
7	Dr. Akbar Ahmad	Quaubz infoTech Pvt. Ltd. Skaylark Complex, Chunniganj, Kanpur	15 days 13th to 28th May 2019

EXPERT LECTURES

Sr. No.	Name of Expert Person	Industry (or) Organization Name	Topic
1	Mr. Mandar Godbole	ABB, Nashik	Recent trends in Switchgear and Protection and its applications in Industry
2	Mrs. N. V. Baghul and Team	Electrical Inspector (SLB and LI), Mumbai.	Electrical Safety and lift Maintenance
3	Mr. Mohan Joshi	FEV India Pvt. Ltd, Pune	Automotive Electrification
4	Mr. Subhash Rajguru	MAHARUDRA Career and Management Academy, Nashik	Guidance for Competitive Exams
5	Mr. S. G. Pande	MSEB, Nashik	Construction of HT, LT line and Transformer
6	Mr. M. R. Gupta	Advent Engineers, Nashik	Instrument Transformer
7	Dr. R. K. Munje	Shanghai University	Role of Control system in Research
8	Mr. S. B. Bhandekar	MAHAGENCO, Mumbai	Load Dispatch Centre Working
9	Ms. Shweta Kale	Insight Consultancy	Soft Skill
10	Prof. Dr. S. D. Varwandkar	VJTI Mumbai	Power Systems
11	Mr. B. R. Patil	Additional Executive Engineer, MSEDCL, Nashik	Energy Audit
12	Dr. R. S. Tiwari	YCMOU, Nashik	IoT
13	Mr. Amit Gore	Akshay Study Abroad Consultants, Nashik	Studying Abroad- Requirement, Process and Career Opportunities
14	Mr. S. G. Pande	MSEDCL, Nashik	Earthing Practices
15	Mr. Venky Kataria	Consultant and Linkedin Trainer	Interview Techniques
16	Mr. S. B. Bhandekar	Maha Genco, Nashik	Power Generation and Control
17	Dr. S. D. Varvandkar	VJTI, Mumbai	Modular Power Flow

EVENTS ORGANISED BY DEPARTMENT

Sr. No.	Title of Event	Dates of Event	Total No. of Participants
1	Working Model Contest, IET Karmaveer Expo 2019	22nd – 23rd March 2019	229
2	National Conference PSRES 2019	22nd – 23rd March 2019	46
3	ICT Based Workshop on Microcontroller & Embedded System	25th – 29th March 2019	16
4	Workshop on LV Switchgear & Its Application	26th March 2019	129

IET- Karmaveer Expo 2019

March 22-23, 2019

- Total Models presented in Expo are 110 and participants are 244
- Total posters exhibited 32 and participants are 98
- Total Participant in photography competition are 13 students

The IET- Karmaveer Expo 2019 was inaugurated on March 22, 2019 in the presence of Chief Guest Hon. Shri. Harishankar Banerjee, President, EPCOS India Pvt. Ltd., Nashik and Guest of Honour Hon. Shri. Anant Waghchoure, Manager, Megger India Pvt. Ltd., Hon. Shri. Balasaheb Wagh President, Hon. Shri. Samirdada Wagh Trustee of K. K. Wagh Education Society, Prof. Dr. K. N. Nandurkar Principal and Prof. Dr. B. E. Kushare Professor & Head of Department of Electrical Engineering and esteem panel of Judges Dr. Omprakash Kulkarni, Mr. Dhiraj Methikar, Mr. Ravi Wadikar, Mr. Zhunj, Mr. Dinesh Shirsat, Mr. Ajit Patil, Mr. Prasad Joshi, Mr. Ganesh Ushir.

The IET- Karmaveer Expo 2019 prize distribution was done on March 23, 2019in the presence of chief guest Hon. Shri. Mukul Shrvastav, Vice-President, Switch-gears division, Crompton Greaves Ltd., Nashik and guest of honour Hon. Shri. Manish Gupta, General Manager, Powerica Limited, Hon. Shri. Balasaheb Wagh President, Hon. Shri. Samirdada Wagh Trustee, Hon. Shri. Changdeorao Holkar, Trustee of K. K. Wagh Education Society, Prof. Dr. K. N. Nandurkar Principal and Prof. Dr. B. E. Kushare Professor & Head of Department of Electrical Engineering and esteem panel of Judges Dr. Omprakash Kulkarni, Mr. Dhiraj Methikar, Mr. Ravi Wadikar, Mr. Zhunj, Mr. Dinesh Shirsat, Mr. Ajit Patil, Mr. Prasad Joshi, Mr. Ganesh Ushir.

IET- Karmaveer Expo 2019

Hon. Shri. Harishankar Banerjee, President, EPCOS India Pvt. Ltd., Nashik addressing the audience

Hon. Shri. Anant Waghchoure, Manager, Megger India Pvt. Ltd. addressing the audience.

Students presenting the model to Chief Guest and Hon. Shri. Balasaheb Wagh President, K. K. Wagh Education Society and the guests

Chief Guest Hon. Shri. Mukul Shrivastava, Vice-President, Switchgears Division, Crompton Greaves Ltd., Nashik distributed the prize

EVENTS ATTENDED BY FACULTY

Sr. No.	Name	Title	Organized by	Date	Duration
1	G. N. Jadhav	Effective Engineering Teaching in practice	NPTEL IIT Rookee	01/01/2019 to 01/02/2019	4 weeks
2	G. N. Jadhav	Advanced Power Electronics and Control	NPTEL IIT Rookee	01/01/2019 to 01/03/2019	8 weeks
3	N. N. Jangle	Effective Engineering Teaching in Practice	NPTEL online certification course, IIT Madras	19/01/2019 to 19/02/2019	4 Weeks
4	Dr. M. P. Thakare	ICT based STC on Microcontroller and Embedded systems	K.K.W.I.E.E.& R., Nashik in Association with NITTTR Chandigarh (Technical Sponsor)	25/03/2019 to 29/03/2019	5 Days
5	S. K. Shinde	ICT based STC on Microcontroller and Embedded systems	K.K.W.I.E.E.& R., Nashik in Association with NITTTR Chandigarh (Technical Sponsor)	25/03/2019 to 29/03/2019	5 Days
6	J. D. Patil	ICT based STC on Microcontroller and Embedded systems	K.K.W.I.E.E.& R., Nashik in Association with NITTTR Chandigarh (Technical Sponsor)	25/03/2019 to 29/03/2019	5 Days
7	P. V. Gautam	ICT based STC on Microcontroller and Embedded systems	K.K.W.I.E.E.& R., Nashik in Association with NITTTR Chandigarh (Technical Sponsor)	25/03/2019 to 29/03/2019	5 Days
8	J. P. Shah	ICT based STC on Microcontroller and Embedded systems	K.K.W.I.E.E.& R., Nashik in Association with NITTTR Chandigarh (Technical Sponsor)	25/03/2019 to 29/03/2019	5 Days
9	R. S. Mane	ICT based STC on Microcontroller and Embedded systems	K.K.W.I.E.E.& R., Nashik in Association with NITTTR Chandigarh (Technical Sponsor)	25/03/2019 to 29/03/2019	5 Days
10	T. N. Date	Education Today Society Tomorrow	IofC, Asia Plateau, Panchgani	16/04/2019 to 20/04/2019	5 Days

K.K. Wagh Education Society's
K.K. Wagh Institute of Engineering Education
and Research,Nashik

Published on: Friday, 31/05/2019

Published: Half Yearly in month of
December and May

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2) Miss. Khatode Sneha Vishwanath,
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Electrical Engineering

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.