



**Bharati Vidyapeeth's Jawaharlal Nehru
Institute of Technology (Poly.), Pune-43.
Department of Electrical Engineering**

ElectricalNews

Issue #01 December 2018



FOUNDER

Hon. Dr. PATANGRAOJI KADAM

Mission: "Social Transformation through Dynamic Education"

This Newsletter is published to give information about events that are taking place in Electrical Engineering Department. This is for internal circulation only.

Electrical Engineering Department

Vision of the Department: Empowering the students with quality technical education and hands on skills to serve industry and society

Mission of the Department:

M1: By providing effective education and imbibing theoretical knowledge with practical skills in the field of Electrical Engineering

M2: By contributing for social transformation enhancing the personality of the students with leadership qualities, managerial expertise and social awareness

M3: By bridging the gap between technological advancements and academics through partnership with industry, professionals and alumni

Program Educational Objectives (PEOs)

PEO1: Become professionals in Electrical Engineering discipline.

PEO2: Provide solutions to the problems related to Electrical Engineering with environmental and ethical commitments.

PEO3: Impart adequate Electrical Engineering knowledge through quality education

From HOD's Desk:

Dear students,

Nice to have a word with you all again! It is truly an immense pleasure and pride to be the leader of such an active department! I hope, enthusiastic students and responsive faculty/staff will act to achieve the vision of the department in the coming future.

We have many good news to discuss in this academic session.



- 1) Two students of our department have been awarded prestigious scholarships. Mr. Omkar Ganbote has been awarded by **SCHNEIDER** scholarship of amount Rs 50,000/- for year17-

18 consecutively for the second year and Mast. Chaitanya Patil has been awarded **SCHNEIDER** scholarship of amount Rs 50,000/- for year 18-19.

- 2) Students of TYEE Mast. Soheli Mulla and Mast Omkar Ganbote have been selected as Trainee Engineer by **TATA TECHNOLOGIES LTD** with per annum package of Rs 3Lakh.
- 3) Student of TYEE Mast. Subhash Shinde has been selected as Trainee Engineer by **TATA MOTORS**.
- 4) We received satisfactory results of winter-18 Exams.

List of Topper Students of Academic Year 2018-19



Omkar Ganbote TYEE (I-Shift) :-83.1%1.



Jagtap Omkar TYEE(II-Shift) : 73.4%



Kashid Prathmesh SYEE(I-Shift) :- 85%



Pote Saurabh Satish SYEE(SYEE) :- 77%



Nitesh Poojari FYEE(I-Shift) :- 70.29%

- 5) Awareness and importance of health and hygiene of girls was discussed by our guest Marathi actor Ms Ashwini Mhangale and Play writer MrsBhagyshali Raut on 13th Dec2018 through a program in which all the girls of the institute were benefited by the thoughts of the guest.
- 6) MrMohak More, our pride, our **alumni** delivered a session on Embracing opportunities on 27th Dec 2018 for Patents, Faculties and Staff. The session gave a new perspective to the students to plan and execute their career to contribute for **National Economic Development**.
- 7) Self AssessmentReport(**SAR**) of Electrical Department was submitted to **NBA** on 22/1/19
- 8) To Mark the birthday of our beloved Dr.Pantangraoji Kadam Saheb,a blood donation camp was organized in the institute 11th Jan 2019.Tweleve students and Two faculty members have donated the Blood.
- 9) Electrical Engineering Department in collaboration with TickoneInfotek had organized three days workshop/Training on CAD for Second Year students of the department during 21/1/19 to 23/1/19
- 10) Master Omkar Ganbote won **consolation prize** in inter polytechnic elocution competition held on 24th Jan2019
- 11) Student of TYEE Mast. Omkar Ganbote received **e-excellence** Certification Award in on-line Blood Donation Quiz contest during 29/1/19 to 31/1/19 organized by **Rotary Club in collaboration with MSEDCL**
- 12) **The campus Pool was organized on 23/2/19 in the premises of BVJNIOT.**All TYEE students have actively participated in it. They appeared for the online test organized by Anand Group.
- 13) Department held interclass Quiz Competition on 27/02/19. Mast. Dhindale Prashant and Mast. Sharang Naidu from SYEE are the winners of the competition.
- 14) Electrical Engineering Department of BVJNIOT and Edutech Services signed MoU on knowledge sharing basis on 25th Feb 2019.
- 15) Students of TYEE namely Mast. Prajwal Pimpale & Mast.OmkarGanbote under the guidance of Mrs Ashwini K Gokhale won **Second Prize in National Level Paper Presentation competition** held at A. G. Patil Poly, Solapur on 23/02/19.The abstract of the paper presented by these students is attached herewith.

Abstract

Topic: IOT (Internet of Things)

The Internet of Things (IoT) is the system embedded system with automations, sensors and all other devices which are connected to internet. There are billions of devices in homes, factories, oil wells, hospitals, cars, and thousands of other places. With the proliferation of devices, you increasingly need solutions to connect them, and collect, store, and analyze device data. Internet of Things (IoT) conceptualizes the idea of remotely connecting and monitoring real world objects (things) through the Internet. The IoT system involves imagination and technological sources which creates an environment in which various techniques are used to the smart works. The IoT is a rapidly increasing and promising technology which becomes more and more present in our everyday lives. It is the sensor based technology in which operation is done by sensing process resulting increasing profit,

Accuracy and efficiency. The IoT is comprised of smart machines interacting and communicating with other machines, objects, environments and infrastructures. As a result, huge volumes of data are being generated, and that data is being processed into useful actions that can “command and control” things to make our lives much easier and safer—and to reduce our impact on the environment. The internet of things (IoT) as the main enabling factor of promising paradigm for integration and comprehensive of several technologies for communication solution, Identification and integrating for tracking of technologies as wireless sensor and actuators.

The Internet of Things is emerging as the third wave in the development of the internet. Internet of things (IoT) is expected to have a massive impact on consumer products, business and wider culture. IoT is a developing a system which will automatically monitor the industrial applications. The former is a time consuming process, while the latter is unreliable. The proposed smart classroom system simplifies many of these tasks by utilizing indoor localization, RFID sensors, and pressure sensors. Furthermore, the technology is an instance of the more general class of cyber-physical systems, which also encompasses technologies such as smart grids, smart homes and smart cities. Considering the high-rate development of IoT technologies, and the significant increment in the number of the connected devices, comprehensive overview of the IoT system aims, architecture, challenges, applications, protocols, and market overview were discussed. Context aware capturing enables

modeling, interpreting and storing of sensor data which is linked to appropriate context variable dynamically. Building or home automation, social smart communication for enhancement of quality of life, that could be considered as one of the application of IoT where the sensors, actuators and controllers can be connected to internet and controlled. Today’s world is also changing as per the Imagination Technologies. This paper introduces the concept of application for internet of things and with the discussion of social and governance issues that arise as the future vision of internet of things.

The creativity of this new era is boundless, with amazing potential to improve our lives. The following thesis is an extensive reference to the possibilities, utility, applications and the evolution of the Internet of Things.

11) Faculty of Electrical Engineering Department
Mrs. Jagruti Thakare has published a paper in an International Journal. The details are as follows:

International Journal of Applied Engineering Research

ISSN 0973-4562 Volume 7, Number 12 (2012) pp. 1421-1428

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<http://www.ripublication.com/ijaer.htm>

Power System Analysis & Stability using Matlab Toolbox (PSAT)

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Abstract

Power flow analysis is the backbone of power system analysis and design. They are necessary for planning, operation, economic scheduling and exchange of power between utilities. The principal information of power flow analysis is to find the magnitude and phase angle of voltage at each bus and the real and reactive power flowing in each transmission lines. Power flow analysis is an importance tool involving numerical analysis applied to a power system. In this analysis, iterative techniques are used due to there no known

analytical method to solve the problem. To finish this analysis there are methods of mathematical calculations which consist plenty of step depend on the size of system. This process is difficult and takes a lot of times to perform by hand. The objective of this paper is to develop a toolbox for power flow analysis that will help the analysis become easier. This paper explains the use of PSAT soft ware for power flow analysis.

Editor:

Ms Bharti R Phirke

Lecturer

Electrical

Engineering

Department



Godrej ALP batch 2 Convocation Ceremony



“Mahwari- Boon or Bane” seminar



Entrepreneurship Development, MSDCL STC, MSDCL Staff Training, Power Plant Engg GL



Parvati S/S Visit, Prakash Bhavan, Training Centre



Glimpses of Electrical Engineering Department Events