



SVERI's COLLEGE OF ENGINEERING (POLYTECHNIC), PANDHARPUR.
Department of Electrical Engineering

Issue 5



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Enlightening the World with Electricity

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❖ Views of HOD

I welcome you all for 2nd semester of the academic year 2016-17. Last semester was full of departmental events like State Level Technical Paper Presentation, industrial visit, guest lecture, Workshop on Microcontroller, Communication Improvement Program, Electrical Safety Week Rally (for social awareness) etc. This issue of Ignite has given Focus on student's academic growth and participation in different events.

*"BE A BRIGHT SPARK LIGHTS OFF
TILL ITS DARK!"*

Prof. P.D. Kadam

❖ Departmental Achievements Special Achievements:

Winter 2016 Result of FYEE

Sr.no.	Student Name	% Marks
01	Mr.Bansode Girish Mahendra	96.31
02	Ms.Shendage Swapnali Vikas	94.62
03	Ms.Salgar Komal Digambar	93.85

Winter 2016 Result of SYEE

Sr.no.	Student Name	% Marks
01	Mr.Dighe Shubham Shankar	93.41
02	Mr.Tak Rushikesh Jagdish	91.41
03	Ms.Sawant Kishori Santosh	88.94

Winter 2016 Result of TYEE

Sr.no.	Student Name	% Marks
01	Ms.Moholkar Shreya Vikram	90.12
02	Ms.Gaikwad Shruti Gokul	88.65
03	Mr.Pawar Sagar Bharat	87.65

100 out of 100 scored in Basic Mathematics

Sr.no.	Student Name
01	Ms.Bachute Harshada Namdev
02	Mr.Jadhav Rohan Ramdas
03	Mr.Bansode Girish Mahendra

100 out of 100 scored in Basic Science

Sr.no.	Student Name
01	Ms.Salgar Komal Digambar
02	Mr.Jadhav Vedant Sanju
03	Mr.Bansode Girish Mahendra
04	Ms.Shendage Swapnali Vikas
05	Mr.Naikwadi Adesh Baliram
06	Mr. Kharat Gorakhnath Madhukar
07	Ms.Attar Tasmiya Muktar
08	Mr.Jadhav Dinesh Sudam

100 out of 100 scored in Applied Mathematics

Sr.no.	Student Name
01	Mr.Dighe Shubham Shankar
02	Mr.Surve Akshay Sanjay

Students got above 97 marks

Sr.no.	Student Name	Subject
01	Ms.Shendage Swapnali Vikas	Basic Mathematics
02	Ms.Mane Ankita Nitin	Basic Science
03	Ms.Sawant Kishori Santosh	Applied Mathematics
04	Mr.Dighe Shubham Shankar	Electrical Circuits & Networks

Technical Event

Department of Electrical Engineering has organized a **State Level Technical Paper Presentation Competition** sponsored by **MSBTE** with the objective of this event was to provide opportunities for students from all over the State to exchange and evaluate viewpoints regarding technical issues on Date **25th Sept. 2017**.



Workshop on Microcontroller

As a part of training activity, Department of Electrical Engineering has arranged workshop on Microcontroller for third year students. Trainers were from Apron tech Satara. Almost 65 third year students benefited from training workshop. Response of the student as compare to previous year was more.



Industrial Visit Planning During 2016-17

To make student aware of growing and changing needs of industry and to get more practical knowledge, we were planned industrial visits to various companies and research centre for our students

SY Student visit:

- 1) Welspun Energy Pvt Ltd. Mangalwedha
- 2) Raviyog traders, Pandharpur.
- 3) Apron-Tech, Satara.
- 4) 220/132/33KV Pandharpur Substation.
- 5) Windmill Power Generation, Bhivghat.

TY Student visit:

- 1) LHP, Solapur.
- 2) Utopian Sugar Pvt Ltd. Mangalwedha.
- 3) L&T Switchgear, Pune.
- 4) Railway Signaling system, Pune.



Guest Lectures

For professional development of student, we have invited experts from industry and other reputational institutes to guide students.

Under this scheme during this semester following experts were invited.

1) Guest Lecture on “*Architecture of 8051 Micro-controller, Instruction set, Programming and External Peripheral interfacing with 8051*” by Prof. Sathe S.S. for TY students.

2) Guest Lecture on “*Role & Responsibilities of Maintenance Engineer in Industry, Information Regarding Furnaces and Ovens*” by Mr. Bhosale S.J. for SY students.

3) Guest Lecture on “*Electrical Installation, different types of wiring, wiring accessories*” by Mr. Shinde D.C. for SY students.

4) Communication Improvement Programme by Mr. Bacchav S. and Ms. Dhade S. for TY Students.



Social Awareness Activity

Electricity Safety Week Rally:

Participation of students in rally organized by Government of Maharashtra Industry, Energy and Labor Department, Solapur regarding awareness of Electrical Safety.



❖ Article

Abstract:

We all need electricity and when if someone asked what it's importance then it is much essential that many virtual possibilities are now becoming take the shape of the realistic world only due to the electricity if available abundant. Various approaches are used and commencement of these approaches help at a vast scale to provide or to fulfill the demand of the electricity. Now a day using alternate sources of energy such as sound energy, pressure (in the form of energy) to produce electrical energy.

Piezometers and piezoelectric devices are used for the conversion of both the pressure energy and sound energy. At various places piezoelectric generators are used produce of electricity such as in Greater Noida Yamuna express way.



Scientific Explanation:

Method 1:-

Piezoelectric material used for the conversion of noise pollution to green energy and into electric energy. Piezoelectric crystals are the crystals which converts mechanical strain to electric energy. The strain applied to piezoelectric material by sound energy could be converted into electricity.

Methods 2:-

By converting Sound energy into heat energy and then heat Energy into the electric energy

Method 3:-

This is a different approach just like the mechanism of microphone. In this method following material and sources will be used such as diaphragm. The diagram as show below is representing a creative way of development and production of electricity using noise pollution



Editorial:

It gives me great pleasure to present 5th volume of our departmental news letter ***IGNITE*** to you which us gives us the opportunity to see the achievements of our Department. In this issue we cover the different task carried out at Electrical Engineering Department training programs, Project etc. We are thankful to all faculty and students who have give their contribution for preparing this news letter. We attempted best and given best efforts.

“We Play With Things, Others Fear to Touch...”

Prof. G.H.Pawar



