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

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Enlightening the World with Electricity

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❖ Views of HOD:-

Electrical energy in today's world is the most demandable and, which in turn, regularly produced energy. This requires the systematically generation, distribution and utilization of the same. Development of the country is decided by its per capita consumption of electrical energy. The well knowledge of this scientific branch, electrical engineering, is the only way to manage the consumption and to reduce the waste of the electrical energy.

In this issue we have come up with events achievements of students, Co curricular & extra curricular activities planned & organized in our department along with some articles on recent innovations & trends related to electrical engineering.

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

❖ DEPARTMENTAL ACHIEVEMENT

▪ Industrial Visit Planning During 2016-17 :

To make student aware of growing and changing needs of industry and to gain more practical knowledge our students are planning industrial visits to various companies and Research Centers.

Class	Tenta -tive Date	Industries at
SYEE	Aug. 2016	Welspun energy Pvt Ltd. Mangalwedha
		132/33KV Pandharpur S/S.
TYEE	Aug. 2016	Utopin Sugar Pvt Ltd. Mangalwedha.
TYEE	Aug. 2016	220/132/33 Kv Pandharpur S/S.
TYEE	Sep. 2016	LHP Solapur
SYEE	Sep 2016	H.P.S. Ujjani.
SYEE	Jan 2016	Wind mill generation Nagaj
		Transformer Manufacture Center Sangola
TYEE	Jan 2016	L&T Switchgear, Pune
		Railway signaling system, Pune.

▪ Guest Lectures

For professional development of student, we will invite experts from industry and other reputational institutes to guide student.

Under this scheme during this semester following experts are invited.

Class	Name of Expert	Subject
SYEE	Mr. Gaikwad A	Solar Power Genrati -on
TYEE	Mr. Jadhav A.A.	Micro Controller.
SYEE	Ghodake N.	Role & Responsib ilit ies of Engineer in Industry.
TYEE	Mr. Bacchav S. & Ms. Dhade S.	Communic ati on Improvem en t Program.
TYEE	Mr.Daruwala T.	I.E Rule
SYEE	Mr. Doshi V.	Transmis sio n of Electrical Power.

Special Achievement

- FY Topper:-
  Ms. Sawant K.S. - 91.77%
- SY Topper:-
  Ms. Moholkar S.V. - 92.47%
- TY Topper:-
- Mr. Mali A.T. - 86.73%
- In Engg. Mathematics Five Students got above 90 Marks.
- In IIN Four student got above 90 Marks.
- In IES-1 Two student got above 90 Marks.
- In TME Four student got above 90 Marks.
- Excellent Academic Result.
- 100% placement of passed students in different companies.

Major Strength

- Well equipped laboratories.
- Formation of organization to provide platform for students to motivate the spark of their personality.
- Continuous arrangement of industrial visits and industry expert lectures.
- Good student-teacher interaction.
- Experienced and well qualified staff.

❖ ARTICLE

Solar Roadways:-

Abstract :-

- The solar roadways is a series of Structurally - engineered solar panels that are driven upon. The idea is to replace all current petroleum-based asphalt roads, parking roads and driveways with Solar Road Panels that collect energy to be used by our homes and businesses. The renewable energy generated by solar road panels will replace the current need for fossil fuel which is used for generation of electricity as also oil used for driving the vehicles which in turn reduces the greenhouse gases nearly to half. The implementation of Solar Roadways Technology will create the clean energy boom, spurring private investment on a massive scale, with relatively little extra cost. An intelligent highway infrastructure and a self-healing decentralized power grid that will eliminate our need for fossil fuels. Solar Roadways will also features wildlife preservation, the elimination of impervious surfaces, law enforcement, DUI detection, counter-terrorism,etc. It provides adecentralized,secure, intelligent, self-healing power grid which pays for itself.

Scientific explanation:-

- The panels contain low power heating elements intended to keep the temperature above 32 °F (0 °C) to prevent snow and ice from accumulating. This is designed to obviate the need for snowplows. The power going to the heaters is generated by the panels themselves.
- A "Cable Corridor" running along the road can deposit snowmelt or storm water below the frost line, bring it to a treatment facility, or deposit the liquid into existing drainage systems.
- Solar Roadway panels are planned to be available in two texture designs: a semi-smooth surface designed for light traffic, and a rougher surface for highways. Targeted load capacity is 250,000 pounds (110,000 kg).

❖ Student Activities

To provide platform to the students for showing their hidden talent we have departmental forum "**ASPIRE**".

Under ASPIRE we arranged different types of event competition, under the guidance of Prof. Ingale A.D. and Prof. Kadam P.D.

1. Quiz Computation.
2. Teachers Day.
3. "Electrical Safety Week" under PWD, Solapur.

❖ Result Analysis

This year we have excellent result than previous year because of continuous efforts of faculty, effective implementation of PPPE pattern periodically conducted chapter wise test, test series and unit test.

Student also actively participated in above activities and results are best evidences for that.

"We Play With Things,
Others Fear to Touch…."