

DEPARTMENT OF ELECTRICAL  
ENGINEERING NEWSLETTER

# CURRENT AFFAIRS

May , 2019  
Issue - 8



*SHROFF S. R. ROTARY INSTITUTE OF CHEMICAL  
TECHNOLOGY*

*DEPARTMENT OF ELECTRICAL ENGINEERING*

## From The Desk Of Editor :

In this issue we have come out with our departmental activities of last six months which includes Expert Talk, Industrial Visit, Faculty Achievements, Research Paper Publications, Student's Placement and Achievements, and Many More. Faculty members of Electrical Engineering Department have shared their expertise in various workshops organized for the students of Electrical Engineering of other colleges and schools.

### Editorial Team:

**Mrs. Jalpa Thakkar**  
(Assistant Prof. , DEE)

**Mr. Nishant Patel –**  
Student EE 8<sup>th</sup> Sem

## Gujarat Metro :

### System length :

6.5km (Operational)

40.03 km (24.87 mi) (Phase-1)

28.26 km (17.56 mi) (Phase-2)

### Track gauge :

1,435 mm (4 ft 8 1/2 in)

**Electrification :** 750 V DC Third rail

**Top speed :** 80 km/h (50 mph)

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### Training & Placement

### IE(I) Electrical Chapter

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### Achievements

### Research Paper In

### Academic Year 2018 - 19

### Upcoming Department

### Activities





- **Expert Lecture** on “Recent Maintenance Practice in Industry” for 6<sup>th</sup> Semester EE students on 19<sup>th</sup> January 2019. Expert lecture was delivered by **Mr. Abhishek Shrivastav, Maintenance Manager-Electrical, Reliance Industries Ltd., Dahej.**



- Expert Lecture on “Career Progression after Engineering” for 8<sup>th</sup> Semester EE students on 2<sup>nd</sup> February 2019. Expert lecture was delivered by **Mr. Ankur Patel, Executive Engineer, DGVCL-Bharuch Circle.**

- Expert Lecture on “Basic Tips to Crack Electrical Technical Interview” for 4<sup>th</sup>, 6<sup>th</sup> & 8<sup>th</sup> Semester EE students on 5<sup>th</sup> January 2019. Expert lecture was delivered by **Mr. Arpan Vyas, Manager – Engineering Service Department, Zydus Cadila, Ankleshwar.**

- Expert Lecture on “Basics of Power Systems” for 6<sup>th</sup> Semester EE students on 19<sup>th</sup> February 2019. Expert lecture was delivered by **Mr. Muralikrishnan, Senior General Manager - Electrical, Brakes India Pvt Ltd., Jhagadia.**



**EXPERT TALK**



Expert Lecture on **“Energy Conservation”** for 4<sup>th</sup>, 6<sup>th</sup> & 8<sup>th</sup> Semester EE students on 26<sup>th</sup> December 2018. Expert lecture was delivered by **Mr. Sunil Motiramani, GM (Electrical), Energy Management Cell, UPL – 1, Ankleshwar.**

Expert Lecture on **“Application of Electrical Machines in Chemical Industries”** for 4<sup>th</sup>, 6<sup>th</sup> & 8<sup>th</sup> Semester EE students on 22<sup>nd</sup> January 2019. Expert lecture was delivered by **Mr. Tirth Patel, Electrical Engineer, Aarti Industries Limited, Jhagadia.**



Expert Lecture on **“LED Lighting”** for 4<sup>th</sup>, 6<sup>th</sup> & 8<sup>th</sup> Semester EE students on 27<sup>th</sup> December 2018. Expert lecture was delivered by **Mr. Biju Xavier, CEO, Agnus Lighting System Pvt Ltd., Ankleshwar.**

Expert Lecture on **“Industrial Electrification”** for 4<sup>th</sup> 6<sup>th</sup> & 8<sup>th</sup> Semester EE students on 20<sup>th</sup> Feb 2019. Expert lecture was delivered by **Mr. S M Takalkar, Director, TPEC.**



# INDUSTRIAL VISIT



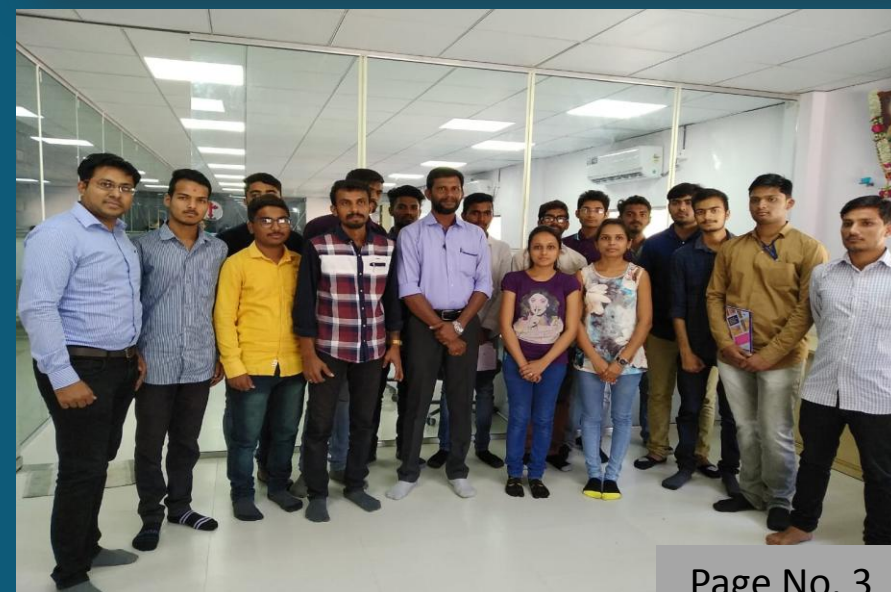
Visit to **ERDA, Vadodara** for 8<sup>th</sup> sem EE students on 17/12/2018.

Visit to **AIA Industrial Expo 2019, Ankleshwar** for 8<sup>th</sup> sem EE students on 04/01/2019.



Visit to **Solarism, Jambusar** - Bharuch Rd, Sudi, Gujarat for 6<sup>th</sup> sem EE students on 09/01/2019.

Visit to **AGNUS Lighting System Pvt Ltd, GIDC, Ankleshwar** for 6<sup>th</sup> sem EE students on 06/03/2019.







Visit to Gujarat Plug-in Devices Pvt Ltd. Vadodara for 8<sup>th</sup> sem EE students on 17/12/2018.

Visit to KOSAMBA 400 kV SUBSTATION, Kosamba for 8<sup>th</sup> sem EE students on 05/03/2019.

Visit to Indobaijin Chemicals Pvt Ltd, Dahej for 6<sup>th</sup> sem EE students on 09/04/2019.



**INDUSTRIAL VISIT**





Visit to Arati Industries pvt ltd. Jhagadia for 4<sup>th</sup> sem EE students on 24/12/2018.

Visit to CLP India ltd, Bharuch for 4<sup>th</sup> sem EE students on 27/02/2019.

Visit to Trimurti Transformer, GIDC, Ankleshwar for 4<sup>th</sup> sem EE students on 03/04/2019.





# PEER LEARNING INITIATIVES

Totally 12 PLI have been conducted in 6<sup>th</sup> Semester of Electrical Engineering by VIII semester students . Similarly 12 PLI have been conducted in 4<sup>th</sup> Semester of Electrical Engineering by VI Semester Students for the academic term Jan to May 2019.



$$E(X) = \sum_{k=0}^n kx p(x=k) = \sum_{k=0}^n kx \frac{n!}{(n-k)!k!} p^k q^{n-k} = \sum_{k=1}^n kx \frac{n!}{(n-k)!k!} p^k q^{n-k}$$



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# Design Engineering Project Fair

The Department of Electrical Engineering had organized a project fair on Design Engineering subject of VI sem Electrical Engineering on 12/4/2019. The students of VI sem EE actively participated and the jury panel member for this activity is **Mr. Prashant A Kalivada, Manager Electrical from UPL 1, Jhagadia** and **Mr. K S Shah, Chief Manager – Electrical, from GNFC Limited, Bharuch** Totally Three Groups displayed their charts for this activity. The panel member highly appreciated the student's efforts in this activity and motivated them.





# Final Year Project Fair

The Department of Electrical Engineering had organized a Final Year project fair of VIII sem Electrical Engineering on 12/4/2019. Total 08 projects were demonstrated by final year students. They have displayed the poster of their project and working models to make it easily understandable. **Mr. Prashant A Kalivada, Manager Electrical** from **UPL 1, Jhagadia** and **Mr. K S Shah, Chief Manager – Electrical**, from **GNFC Limited, Bharuch** to evaluate and give necessary suggestions to the students. An Interaction session was organized at the end of project fair. Experts from industry have shared the experiences with faculty members and students. They discussed the important stages of project development and discussed the current trend in Electrical.





# WORKSHOPS

The Institution of Engineers (India) SRICT Students' Chapter (Electrical) had organized a one day state level workshop on "Practical Realization of Power System Protection" on 4<sup>th</sup> February 2019. Totally 61 Students & Faculty members participated in the workshop.

The main purpose of this workshop was to make students aware of Basic & Practical approach of Power System Protection and train them so that they can be ready for industrial practical exposure. The theoretical & Practical session were handled by Expert Faculties from Department of Electrical Engineering. Positive response was received from delegates of various institutions

The Institution of Engineers (India) SRICT Students' Chapter (Electrical) had organized a one day state level workshop on "Practical Demonstration of Electro – Mechanical and Numerical Relays on 22<sup>nd</sup> MARCH 2019. Students & Faculty members of K J Polytechnic has participated in the workshop.





The Institution of Engineers (India) SRICT Students' Chapter (Electrical) had organized a one day state level workshop on “ Modern Power System Protection & Relaying ” on 20<sup>th</sup> March 2019 . Students & Faculty members from A. Y. Dadabhai Technical Institute has participated in the



The Institution of Engineers (India) SRICT Students' Chapter (Electrical) had organized a one day state level workshop on “ Hands On Practices For Power System Protection ” on 26<sup>th</sup> Feb. 2019. Totally 50 Students & Faculty members has participated in the workshop.



**WORKSHOP**



# Training & Placement

Sr. No	Topic	Faculty
1	MCQ test (Technical)	KS
2	MCQ test (Technical, Aptitude & General knowledge)	HJ
3	Group Discussion	KS
4	Technical Interview for all final year EE students- individual	PPC, JKT, HJ, RD, JJ, KS, AG, GP
5	HR Interview for all final year EE students- individual	PPC, JKT, HJ, RD, JJ, KS, AG, GP

DEE Congratulates Mr. Solanki Raviraj and Mr. Rakholiya Tirth for their Placement in BEIL.







# INSTITUTE OF ENGINEERS (INDIA)

## SRICT ELECTRICAL ENGINEERING CHAPTER

- The Department of Electrical Engineering of SRICT organized Motivational Video for all Electrical Engineering Students on 22/12/2018 under the banner of The Institution of Engineers (India), SRICT, Students' Chapter (Electrical) on topic Power of Focus by Mr. Sandeep Maheshwari. This program benefits students to improve their interpersonal skills.



- The Shroff S R Rotary Institute of Chemical Technology, Vataria, Ankleshwar had organized **PRATIYOGITA-2018** program for school students on **28/12/2018**.
- Under this event, The Department of Electrical Engineering, SRICT has conducted a Hands-On workshop for 11<sup>th</sup> & 12<sup>th</sup> science students from different school of Ankleshwar and Bharuch, on the topic ***“Making of a Universal Mobile Charger”*** under the banner of Institute of Engineer India, SRICT Student Chapter-Electrical.



- The Shroff S R Rotary Institute of Chemical Technology, Vataria, Ankleshwar has invited students from Agasti Education, Ankleshwar for Seminars and workshops on 20/04/2019 & 22/04/2019.
- Under this event, The Department of Electrical Engineering, SRICT has conducted a Hands-On workshop for 11<sup>th</sup> & 12<sup>th</sup> science students on the topic *“Making of a Universal Mobile Charger”* under the banner of Institute of Engineer India, SRICT Student Chapter-Electrical.
- Total 105 students have participated in this workshop and undergone the theoretical understanding as well as prepared a running practical model of Universal Mobile Charger. Also a good support was received from departmental faculty members and students from final year Electrical Engineering for the successful completion of the event.





# 1 2 1 Meeting with Vice Chairman

- The Department of Electrical Engineering had organised one to one meeting with Mr. Ashok Panjwani, Vice Chairman, ARES Management for VIII Sem EE students on 25 & 27 February 2019.
- Mr. Praful P Chudasama, HOD, Department of Electrical Engineering and faculty members of Electrical Engineering were present in this meeting. The points discussed were Students Current Semester Attendance, VII Sem GTU Result Performance, Commitment of Result for VIII Sem etc.
- Similarly 1-2-1 Meeting for Semester IV EE students held with Vice Chairman on 16<sup>th</sup> April, 2019 in which Mrs. Jalpa Thakkar along with department faculty members were present .
- The points discussed were Students Current Semester Attendance, Sem III GTU Result Performance, Commitment of Result for IV Sem etc.





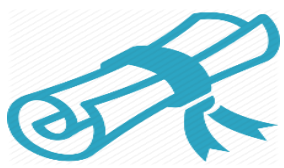


# MENTOR MEETING

- ❖ The Department of Electrical Engineering Faculties and Staff members had a mentor meeting with **Mr. S.M.Takalkar, Director, Takalkar Power Engineering Consultancy Pvt. Ltd. Vadodara** on **20<sup>th</sup> Feb 2019**. The discussion took place regarding academic improvements, students summer training program, Refresher Course, One week short term training program for faculties of Engineering colleges, Conducting Mock Interviews for current VIII sem EE students and students placements.







# Faculty Achievement

Mrs. Jalpa Thakkar of Electrical Engineering Department has delivered an Expert talk on, "**Fundamentals of Power System Protection**" at Government Polytechnic, Valsad. The aim of the lecture was to teach concepts of power systems and Importance of it's protection with various conventional and numerical protection schemes. Total 45 students has attended the lecture.



Mr. Krunal Shah, Asst. Prof, DEE has attended One Week Short Term Training Program on "**Application of Intelligent Techniques in Electrical Engineering**" held on 7<sup>th</sup>-11<sup>th</sup> January, 2019 at SCET, Surat. The Course includes Machine learning algorithms and their applications,





# Student Achievement

GTU Innovation Council, Surat organized the Student Start-up and Innovation Policy (SSIP) screening program at Dr. S & S. S. Ghandhy College of Engineering & Technology, Surat on 19<sup>th</sup> & 20<sup>th</sup> December, 2018.

Final year students of Electrical Engineering, SRICT, Mr. Ravirajsinh Solanki, Mr. Harsh Agarwal, Mr. Nishant Patel & Mr. Harshil Patel participated and received an SSIP Grant of **Rs.10,000/-** for their final year project titled "**Piezo-Electric Energy Harvesting**".



Electrical Engineering 6<sup>th</sup> Sem Students are Winner in Direct Volley Ball - Winsting '19.





# Felicitation of 7<sup>th</sup> Sem EE Students

Sl.No.	Name Of The Student	Amount
1	Ravirajsinh Durjansinh Solanki	Rs.10,000/-
2	Atodaria Jaiminsinh Kiritsinh	Rs.5000/-



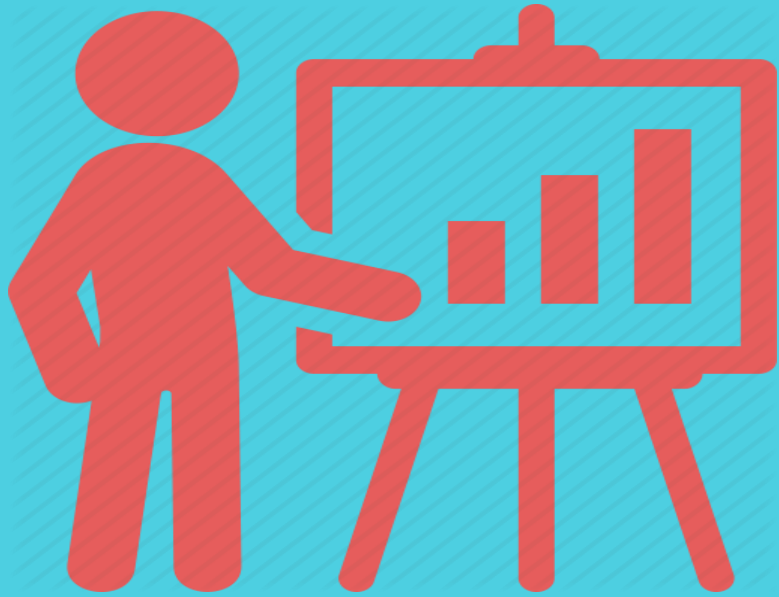


# Research Paper In Academic Year 2018 - 2019

Sr. No.	Name of Faculty	Title of the Paper	Authors / Co Authors	Name of the Journal / Conference Publication	Date & Year of Publication
1	Mr. Jignesh Joshi	Piezoelectric Harvesting System	Ravirajsinh Solanki, Harshil Patel , Nishant Patel, Harsh Agrawal , Jignesh Joshi	JASC: Journal of Applied Science and Computations(UGC, ISO)	Oct-18
2	Mr. Ankur Gheewala	Under Ground Cable Fault Detection Using MATLAB.	Sahil Vhora,Jaimain Atodaria, Ashutosh Singh, Hardik Kotak,Ankur Gheewala	International Journal of Innovative Research in Science Engineering and Technology	Dec-18
3	Mr. Saurav Chaubey	Literature Review on Smart Energy Meter	Devaliya Vishal, Chauhan Ajay, Faldu Feni, Kapishwar Mishra, Sourav Chaubey	International Journal of Innovative Research in Science Engineering and Technology	Dec-18
4	Praful P. Chudasama	Techno-Economic Analysis of 2kW On grid Solar PV Rooftop System	Jigar Mehta, Parthkumar Chauhan, Jayesh Bhamre, Praful P. Chudasama	JASC: Journal of Applied Science and Computations(UGC, ISO)	Feb-19
5	Ms. Richa Dubey	Design of PID Controller through Op-Amp Realization	Badat Ismail, Patel Safvan, Kagzi Mannan, Richa Dubey	International Journal of Innovative Research in Science Engineering and Technology	Jan-19
6	Mrs. Jalpa Thakkar	A review on Design and development of Low cost under voltage and Over Voltage Protection Scheme	Tanveer Maharaj, Parth Upadhay,Chahwala Premal, Modi Hardik,Patel Ankur,Jalpa Thakkar	Journal of Applied Science and Computations (UGC, ISO)	Feb-19



# POSTER PRESENTATION



ONE DAY  
WORKSHOPS



Group Discussion

Tips & Topics

A blue rectangular box containing the text "Group Discussion" at the top and "Tips & Topics" at the bottom. In the center is a cartoon illustration of five people (three men and two women) sitting around a brown table, engaged in a discussion.

PROJECT  
ALLOCATION

Upcoming  
Events:

