NEWS LETTER : 2017-18

E Spark

ACET

Department of Electrical Engineering

ISSUE - 8

ANJUMAN COLLEGE OF ENGINEERING & TECHNOLOGY

CONTENTS

FROM HOD'S DESK

Prof.Mrs. Archana Shirbhate
HEAD OF DEPARTMENT

It is a matter of great pride and satisfaction to bring out the News Letter 'e-Spark-2018' released from the Department of Electrical Engineering. A News Letter is like a mirror which reflects the clear picture of all sorts of activities undertaken by a Department and reflects their developments throughout year. True guidance is like a small lamp in a dark forest, it doesn't show everything at once, but gives enough light for the next step to be safe. The essence of teaching and learning is to explore and excel. I congratulate to all staff and students for their contribution for the department as well as institution and do expect the same in times to come. I also congratulate the editorial team for bringing out present issue of newsletter. Wish you good luck!

True guidance is like a small lamp in a dark forest

"As the saying goes by "Coming together is a beginning, keeping together is progress and working together is success"

Vision

To be an epitome of excellence with global standards in the field of Electrical Engineering for providing human resource capable of overcoming technological challenges for sustainable benefits to the society.

Mission

- To impart quality technical education for creating competent graduates
- To develop graduates having capabilities of self learning
- To produce graduates qualified to address challenges in the field of electrical engineering
- To imbibe social and professional ethics in our graduates for development of society excel. I congratulate to all staff and

Message from EDITOR

A thought that has been enduring in mind when it becomes real; is truly an interesting and exciting experience. This news letter was one such cherished work that had its roots in the persuasion. It would be a snapshot of the various activities and advancements for all associated with Electrical Department. To achieve progress and to meet objectives we have to cross numerous milestones. This issue of newsletter should inspire all of us for a new beginning enlighten with hope, confidence and faith in each other in the road ahead...

We have put whole-hearted endeavours to give a complete and kaleidoscopic view of laudable achievements for our department and institution.

Mrs. Ruhi Uzma Sheikh
Assistant Professor

Achievements

Prof. Dr. Archana Shirbhate, (Head of Electrical Engineering Department) was awarded Phd In Electrical Engineering by RTMNU for her research titled "Merchant Cell for good quality & economic power". She gives the credit of her success to her guide Dr. Vinod Chandrakar, family, and friends, colleagues and Dr. Sajid Anwar, Principal of ACET

The students of Anjuman College of Engineering & Technology belonging to Electrical Department have presented at National Power Electronic Conference held by Electronic and Electrical Department, Thiagarajar College of Engineering in Madurai. It was a National event where all young minds from different regions had come with their unique projects and ideas.On 9th of March 2018 our group went all the way along to Madurai, Tamil Nadu for presentation and it was great. Feather on the cap,our research paper will publish in IEEE proceeding conference. Also they secured 1st prize in Paper Presentation Competition at RACE-18 event held on 22nd February 2018. The event is organised by GNIT.Thanks to our guide Prof . Dr. Altaf Badar who's very own guidance, knowledge and support has lead us to this level of success. The hard work was appreciated by their Principal Dr. Sajid Anwar. The Head of Department Prof.Mrs. Archana Shirbhate applauded them for their performance. Their performance set a great example to all the other students and especially to the 3rd year studensts a source of motivation.

The students of Anjuman College of Engineering & Technology belonging to Electrical Department have presented The "Project competition" was held at GNI, Nagpur on 8th March 2018 and we participated in that event. Our Project Title is " DEGISN AND CONSTRUCYION OF ELECTRIC DRIVE- A SMART SYSTEM FOR DISBALED PERSON WITH THERAPY FACILITIES" This project was Guided by Prof. Dr. Syed Naimuddin. The name of that event was "TECH-FEB". We secured 1st position in that event. The name of group members are as Sania Sheikh, Alfiya Sheikh, Chetana Dolase, Abhishek Waghmare, Ankit Yadav, Shubham Bhoyar

The "**Project competition**" was held at SRCOEM, Nagpur on 24th Jan 2018 and we participated in that event. Our Project Title is " DEGISN OF MULTIPURPOSE AGRI ROBOT". This project was Guided by Prof. Nawaz Sheikh. The name of that event was "POLARIS". We secured 1st position in that event. The name of group members are as Rahil Farooqui, Shruti Chauragade, Rasika Dharpure, Juhi Gharde, Ratnadeep Patil, Shaziya Tabassum. Also "TECHMODEL" competition was held at Anjuman College Of Engineering and Technology, 2nd position in that competition.Rahil Farooqui

FACULTY-STUDENT PUBLICATIONS

Sr. No.	Name of Faculty & Students	Topic	Published in	International/National/ Conference/ Journal
1	Ms. Archana Jaisingpure	"Competative Power Market Solution of Transmission Pricing using IEEE30 Bus System",	January 2018 at Nagpur, India.	IEEE Conference Organized by Raisoni College of Engineering and Technology
2	Ms. Archana Jaisingpure	"Transmission Pricing Methodolgies Simulator for Power Trading Markets	19-20 January 2018 at Pichanur, Coimbture, Tamil Nadu, India.	IEEE Conference Organized by JCT College of Engineering and Technology
3	Ms. Archana Jaisingpure	"Pricing of Transmission Network Usage using MATPOWER",	ISSN:2395-602X,Vol 4, pp-277-282, February 2018.	International journal of Scientific Research in Science and Technology
4	Ms. Archana Jaisingpure	"Transmission Pricing in Deregulated Power System for IEEE 30 Bus System",	ISSN:2395-602X,Vol 4, pp-287-292, February 2018.	International journal of Scientific Research in Science and Technology
5	Ms. Archana Jaisingpure	"Evaluation of Transmission Pricing Methodologies for Power Trading Markets",	ISSN:2395-602X,Vol 4, pp-79-85, February 2018.	International journal of Scientific Research in Science and Technology
6	Dr. Irfan Ahmed (Amrin Khan, Aafsha Ruhi, Abhishek Marsattiwar, Vaseem Sheikh, Chetna Bahdang, Sagar Mishra, Ashar Khan)	Solar Panel Based Air conditioning System for Home Appliances	IJSRST, Vol 4, Issue:3, PP 311-317, Feb-2018	National Conference in Advanced in Engineering and Applied Sciences
7	Dr.Altaf Badar (Prachi R. Gondane, Rukhsar M. Sheikh)	A Study of Wavelet Analysis Applications in Electrical Engineering	IJAREEIE journal Vol6, Issue11, ISSN (P) : 2320–3765 ISSN (E): 2278–8875 impact factor 6.392	IJAREEIE journal
8	Dr. Altaf Badar (Prachi Gondane, Rukhsar Sheikh, Kajol Chawre, Vivian Wasnik)	Inrush Current Detection Using Wavelet Transform and Artificial Neural Network	IEEE 2nd International Conference On Computing Methodologies and Communication	2nd International Conference On Computing Methodologies and Communication) at Erode, Tamil Nadu
9	Dr. Altaf Badar (Prachi Gondane, Rukhsar Sheikh, Kajol Chawre, Vivian Wasnik)	Detection of Inrush Current Using Wavelet Transform & Artificial Neural Network Network	IEEE 2nd International Conference On Computing Methodologies and Communication	2nd International Conference On Computing Methodologies and Communication) at Erode, Tamil Nadu
10	Mrs. Ruhi Uzma Sheikh (Zarmin Khawaja, Farheen Zahra, Ibrahim Sheikh, Chandrashekhar Deshmukh, Sweta Sahare< Sumraan Sethiya, Diksha Pardhi)	Improving Power Quality of Distribution Grid by using Ultra capacitor	IJSRST, Vol 4, Issue:3, PP 66-70,UGC Approved, Impact Factor- 5.327, Feb-2018, pISSN- 2395-6011, eISSN: 2395-602X	National Conference on Advanced in Engineering and Applied Sciences
11	Mr. Akil Ahemed (M. Kamil, Priti Gore, Farheen Ansari, Akshay Kawale, Sufiyan Nadeem, Sufiyan Ansari)	Non-Isolated Dual input Dual output Dc-Dc D-boost Converter	IJSRST, Vol 4, Issue:3, Feb-2018	National Conference on Advanced in Engineering and Applied Sciences
12	Mr. Nawaz Sheikh (Rahil Farooqui, Shruti Chawaragade, Rasika Dharpure, Juhi Gharde, Ratnadeep Patil, Shaziya Tabassum)	Prototype Multipurpose Agri-Robot	IJSRST, Vol 4, Issue:3, PP 244-248, Feb-2018	National Conference on Advanced in Engineering and Applied Sciences
13	Mr. Nawaz Sheikh	A Survey on sinusoidal PWM technique for VSI fed to Induction motor	IJSRST, Vol 4, Issue:3, PP 244-248, Feb-2018	National Conference on Advanced in Engineering and Applied Sciences
14	Mrs. Yasmin Sayeed (Saurabh Bodele, Md. Aamir, Pratik Raut, Shivam Nasre, Aarti Rao, Sneha Ladse)	Simulation and controller Design of an Interline Power Flow controller in MATLAB	IJSRST, Vol 4, Issue:3, pISSN- 2395-6011, eISSN: 2395-602X Feb-2018	National Conference on Advanced in Engineering and Applied Sciences
15	Mrs. Nahid Khan (Owais Ansari, Samiullah Khan, Shahraukh Raheman, Firdous Khan, Shamama Naaz, Syed Abdullah)	Advanced Hybrid Turbine Sturcture for efficient Power Generation	IJSRST, Vol 4, Issue:3, pISSN- 2395-6011,eISSN: 2395-602X Feb-2018	National Conference on Advanced in Engineering and Applied Sciences
16	Mrs. Yasmin Sayeed	Gas Insulated Sub station	IJSRST, Vol 4, Issue:3, pISSN- 2395-6011, eISSN: 2395-602X Feb-2018	National Conference on Advanced in Engineering and Applied Sciences
17	Mr. Syed Tahir Hussain	Gas Insulated Sub station	IJSRST, Vol 4, Issue:3, pISSN- 2395-6011, eISSN: 2395-602X Feb-2018	National Conference on Advanced in Engineering and Applied Sciences
18	Mr. Shahid Ansari	Gas Insulated Sub station	IJSRST, Vol 4, Issue:3, pISSN- 2395-6011, eISSN: 2395-602X Feb-2018	National Conference on Advanced in Engineering and Applied Sciences
19	Mrs. Nahid Khan	Analysis and Improvement of power system security by placing Series FACTS Devices	IJSRST, Vol 4, Issue:3, pISSN- 2395-6011, eISSN: 2395-602X Feb-2018	National Conference on Advanced in Engineering and Applied Sciences
20	Mr. Ishraque Ahmed	Analysis and Improvement of power system security by placing Series FACTS Devices	IJSRST, Vol 4, Issue:3, pISSN- 2395-6011, eISSN: 2395-602X Feb-2018	National Conference on Advanced in Engineering and Applied Sciences

Placement

ELECTRICAL ENGINEERING DEPARTMENT

Pearls Shining at the Campus...

To place in reputed company, it's a dream of every newborn Engineer, but it comes true when it really happens. Today student got this opportunity because of their academic record, guidance of teachers and Training provided by college. Following are the list of student placed in reputed industry during 2017-2018

Sr. No.	Name of the Employer	No. of Students Placed	Name of the Students	
1	**Amazon**	**2**	Sagar Mishra	Najiya Nisar Sayyad
2	**Universal Education**	**1**	Amrin Khan	
3	**CMS IT services**	**10**	Salman Khan Abhishek Marsattiwar Vivian Wasnik Girish Dhawale Shubham Bhoyar	Aman Talewar Waseem Shaikh K. Arti Kudipudi Mohd. Anwar Ansar Amrin Khan
4	**Gracenet Edunet**	**10**	Sufiyan Ansari Tushar Giradkar Ankit Yadav Swapnil Mishal Avesh Siddiqui	Gaurav Dhotre Mohd.Danish Akshay Amdhare Kaustubh Ramteke Rahil Farooqui
5	**Altius**	**1**	Sania Sheikh	
6	**Amazon**	**2**	Waseem Shaikh	Afsha Khan
7	**THINKSYNQ**	**12**	Najiya Nisar Sayyad Abhishek Marsattiwar Akshay Kawale Aafsha Ruhi Khan Dhanshree Dhoke Alfiya Sheikh	Aman R Talewar Prachi Gondane Amrin Ayyub Khan Zarmin Khwaja Mohd. Anwar Ansari Girish Dhawal
8	**Pickworth Enterprises**	**5**	Afsha Khan Abhishek Marsattiwar Zarmin Fiza Khwaja	Amrin Khan Aman R Talewar

Academics

The effort and dedication of these students reflects in their result. A heartily congratulations to all toppers.

7th Semester Topper's Winter-2017 Examination

Rasika Ramdasji Dharpure
1st Topper
72.30% (SGPA= 8.60)

Abhishek Waghmare
1st Topper
72.30% (SGPA= 8.60)

Shubham Nagorao Bhoyar
2nd Topper
70.77% (SGPA= 8.40)

Afsha Ruhi Khan
3rd Topper
71.23% (SGPA= 8.37)

8th Semester Topper's Summer-2017 Examination

Mayuri Ganesh
1st Topper
81.84% (SGPA= 9.81)

Rubina M. Shafi
2nd Topper
81.38% (SGPA= 9.69)

Arshiya Firdous Ansari
3rd Topper
79.07% (SGPA= 9.19)

Poonam Maruti Bonge
4th Topper
77.53% (SGPA= 9.31)

5th Semester Topper's Winter-2017 Examination

Arshad Mansuri
1st Topper
73.71% (SGPA= 8.55)

Pranay Jambhulkar
2nd Topper
72.14% (SGPA= 8.48)

Amber Qureshi
3rd Topper
71.28% (SGPA= 8.24)

Vaishali Nandanwar
4th Topper
69.14% (SGPA= 8.03)

6th Semester Topper's Summer-2017 Examination

2nd UNIVERSITY RANK
Amrin Ayyub Khan
1st Topper
79.00% (SGPA= 9.31)

Aafsha Ruhi Khan
2nd Topper
72.85% (SGPA= 8.55)

Rasika Dharpure
3rd Topper
70.28% (SGPA= 8.31)

Shruti Chauragade
4th Topper
70.00% (SGPA= 8.21)

3rd Semester Topper's Winter-2017 Examination

4th UNIVERSITY RANK
Tasleem Khan
1st Topper
77.07% (SGPA= 9.11)

20th UNIVERSITY RANK
Prinshu Indurkar
2nd Topper
70.00% (SGPA= 8.33)

Megha Bilone
3rd Topper
71.07% (SGPA= 8.04)

Gyaneshwari Kirnak
4th Topper
69.38% (SGPA= 7.93)

4th Semester Topper's Summer-2017 Examination

Arshad Hasnain H. Masuri
1st Topper
80.36% (SGPA= 8.93)

Vaishali Nandanwar
2nd Topper
76.69% (SGPA= 8.78)

Riya A. Barsagade
3rd Topper
74.95% (SGPA= 8.59)

Pranay Jambulkar
4th Topper
72.92% (SGPA= 8.48)

Parents Meet

Our Dept. take care that the parents are regularly updated about their children's performance. Parent's Meet are regularly hosted by the department. Student's attendance and academic performance are shown to the parents. Feedbacks are taken from the parent's as well as students.

Session W-2018

Session S-2017

GUEST LECTURE / SEMINARS

Sr. No.	Name of topic	Resource Person	Date of Lecture	Arranged for Sem.
1	Guest Lecture on Basic Electronics & Basic Electrical	PROF. SACHIN NAGMOTE	01/08/ 2017	III, V & VII SEM.
2	Guest Lecture on PERSONALITY DEVELOPMENT	MRS. ROWENA PHILIPS	11/08/ 2017	III, V & VII SEM.
3	National Conference on Advances in Engineering & Applied Science	MR. MUKTINATH VISHWAKARMA	29/01/ 2018	ALL BRANCHES
4	Guest Lecture on MOTIVATIONAL CONSELLING	MRS. ROWENA PHILIPS	07 /02/ 2018	IV, VI & VIII SEM
5	Guest lecture on Importance of Aptitude and career opportunities	Akash Jaiswal Career Launcher	21/02/2018	IV SEM
6	Guest Lecture on MOTIVATIONAL CONSELLING	MRS. ROWENA PHILIPS	22 /02/ 2018	VI SEM
7	Guest lecture on Aptitude Enhancement & skill Development	Snehal Belkhode	09/03/2018	VI SEM

Alumni Meet

Second grand Alumni Meet of Electrical Engineering Department organized by Anjuman College of Engineering and Technology on 11 March 2017. It was indeed heartening to see so many alumni's in the event. Alumni were introduced to ACET Alumni Association by Dr. Altar Badar .He emphasized on the benefits & significance of Alumni Association to alumni of ACET. Dr. Sajid Anwar, Principal ACET inaugurates the alumni meet function.

The reputation and strength of an educational institution over a period of time depends to a large extent upon the interest that the institution takes in its alumni and their continued education, the closeness that the alumni feel to their Almamater and the bonds of kinship that develop among the alumni themselves. The institute's activities and programs for its alumni are directed towards these ends. The Alumni Association aims to provide various educational activities for the benefit of its members with the active cooperation of the faculty. The institute has plan for the alumni conference to be organized every year with a specific theme, which will serve the purpose of continued education for a wide section of the alumni.

NATIONAL CONFERENCE ON
ADVANCES IN ENGINEERING AND APPLIED SCIENCE

INAUGURATION OF CERTIFICATE

KEY NOTE SPEAKER

JUDGES PANEL

A grand National Conference "Advances in Engineering & Applied Science" was organized on 29.01.2018 by the department of Electrical Engineering, ACET, under the National Event, TECHSAGA 2K18. The Conference was organized in association with International Journal of Scientific Research in Science and Technology (IJSRST), which is a UGC approved journal. The Conference was inaugurated at the hands of Dr. Sajid Anwar, Principal, ACET, in the presence of Prof. Archana Shirbhate, Head of the department, Prof. Pramod Gadge, Dr. Altaf Badar, Dr. Irfan Ahmed, Convenor and Prof. Yasmin Sayeed, Co-Convenor. Mr. Muktinath Vishwakarma, Alumnus – IIT Kanpur, delivered the keynote address.

It was an Interdisciplinary Conference which received around a hundred research papers for all the branches of engineering and technology as well as applied sciences. Vibrant and enriching technical sessions for exchange of ideas and innovations marked the success of the Conference. Attractive cash prizes were awarded for the best papers from each discipline. Prof. Dr. Irfan Ahmed and Prof. Yasmin Sayeed, alongwith the organizing committee, including student volunteers and staff members, worked under the guidance of Prof. Archana Shirbhate and Dr. Sajid Anwar, Principal, ACET.

Student forum "PHOENIX" and "Energy Conservation Cell (ECC)"

Dignitaries sitting on the dais with newly installed forum member team heads

Electrical Engineering Department of Anjuman College of Engineering & Technology Installation of Student's Forum of Electrical Engineering Department was inaugurated on 24th August 2017. The Principal (Dr. Sajid Anwar) , Chief Guest (Mr. Pramod Navdhinge), HOD Electrical dept.(Prof. Archana Shirbhate), Prof. Dr. Irfan Ahmed (Student Activity Coordinator), Prof. Yasmeen Sayeed (Student Activity Co-coordinator), HODs of various department, Staff and Students were Present during the Inaugration

The students of technical committee used automation technique line follower ROBOT by using ARDUINO for welcoming the dignitaries. Principal Dr. Sajid Anwar felicitated toppers of Electrical Engineering Deptt by cash price of Rs. 10000.

Anjuman Youth Parliament

AYP (Anjuman Youth Parliament) is an educational simulation activity in which students can learn about national relations and about Indian parliament. It involves and teaches participants researching, public speaking, debating and writing skills. In addition to critical thinking, teamwork and leadership abilities.

In this event the participants are divided into three groups i.e. ruling party, opposition party and left party and the parliament is set as per the proceedings and the bill is introduced in the parliament where the participants has to discuss the bill and it has to be passed.

INDUSTRIAL VISIT & TOUR

Department organized industrial visit and tour for development of student, every year.

5MW SOLAR POWER PLANT, CHANDRAPUR

KHAPARKHEDA THERMAL POWER PLANT

HIGH RISE TRANSFORMER, MIDC, HINGNA

LDC , AMBAZARI

HYDROELECTRIC POWER PLANT TOTLADOH

HVDC TERMINAL CHANDRAPUR

INDUSTRIAL TOUR to DELHI-AMRITSAR-DALHOUSIE-MANALI 01.01.2018 to 11.01.2018

Technical Articles

SOLAR PANEL WINDOW BLINDS

Solargaps | Photovoltaic Solar Panel Window Blinds

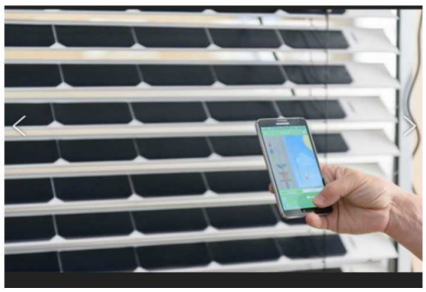
Reduce your apartment, home and/or business electricity bill by up to 70% with solar energy generating smart blinds.

SolarGaps smart blinds automatically track the sun throughout the day, adjusting position to the optimal angles to generate solar electricity to power devices in your home, apartment or office.

We engineered SolarGaps with features designed for renters, homeowners and small businesses to affordably reduce energy usage, create renewable energy and transition to energy independence:

DIY PLUG & PLAY - With apartment renters in mind, the interior wall brackets are designed as a non-permanent, plug & play solution with additional installation options for homeowners to maximize energy production.

ENERGY GENERATING - Built-in solar panels can generate up to 100W-150W of renewable energy per 10 sq. ft. (≈ 1 m2) of a window, enough to power 30 LED light bulbs or three MacBooks.

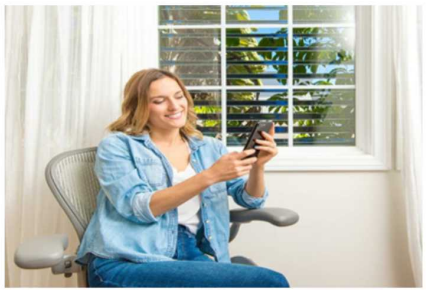


ENERGY REDUCING - In additional to generating solar energy, the window blinds also save energy by shading your home interior and reducing air condition cost by up to 80%.

AFFORDABLE - Energy surplus can either be stored in the battery or cancel easily be sold to your electricity company as green energy through a two-way meter they provide.

SMART FEATURES - Easily integrate with smart devices like Google Home, Echo, Nest Thermostat and more to control by voice, temperature and/or smartphone app.

Smart Features



SolarGaps is a part of ecosystem of IoT smart home devices allowing it to be controlled remotely, automatically, manually and more.

Automatic & Self-Adjusting

To absorb as much solar energy as possible, SolarGaps automatically adjusts the angle of the panels to follow the sun's position.

You can setup SolarGaps to match your own schedule and needs. For example, the blinds can be setup to open automatically when you want to wake up, or close at a predetermined time.

SolarGaps can even open automatically when someone enters a room to keep your house bright inside.

Internet of Things

With the SolarGaps app you can integrate directly with Google Home to enable voice controlled commands to open, close, etc.

Additional IoT integrations with smart devices like Ecobee, SmartThings, Philips Hue, etc could be potentials 'stretch goals' based on your feedback, funding levels and demand.

SolarGaps integrates with Google Home and Amazon Echo to enable voice controlled commands, as well as Nest Thermostat to allow your blinds to adjust lighting to heat or cool your home naturally.

Disadvantages of using Window Blinds.

Window blinds do not look good in traditional, classic homes or set ups. In traditional large windows, only heavy fabric traditional curtains will look good.

Difficult to Clean – It is quite hectic tiring to clean window blinds. You need to clean them one by one, which seems like a great wastage of time. While, with traditional, you can put the whole curtain set in your washing machine and clean them, using lukewarm soap water.

Advantages of using Window blinds

Insulation: Your blinds can keep your windows insulated far better than curtains. As long as the slats are closed, cold air will generally be kept at bay. Certain shades, however, can do a better job at insulating your home.

Control: The corded control makes operation easy, and to make the task even easier motorized versions are available. Another option is to go cordless, in which case the blind is operated by your hand and no other controls.

Maintenance: As compared to other fabric window coverings, Blinds are easier to clean. A damp cloth or soft cloth can is all you need for the purpose. Fabric coverings such as curtains, window shades, and draperies need at least one washing every week to keep them clean.

Gyaneshwari. D. Kirnake
Abdehasan. A. Chimthanawala
2nd Yr. (4th sem)