

PES Institute of Technology & Management, Shivamogga

ELECTRICAL AND ELECTRONICS ENGINEERING NEWS LETTER

OUR VISION

A Department that believes in providing quality education and encourage research in the field of Electrical and Electronics Engineering and creating the environment for our students to be the best professionals providing the platform for them to be successful entrepreneurs with strong ethics.

STUDENT DEVELOPMENT PROGRAM

The Department of Electrical & Electronics Engineering has organized a Two Days Student Development Program on “Solar Energy Systems” In association with Sparkle Skills, Mysore. On 11th & 12th of October 2019. The students from 5th & 7th semesters are actively participated. The program was formally inaugurated by Principal Dr.Chaitanya Kumar MV, HOD Dr.Manoj Kumar M, the team members of sparkle skills and student coordinators. The resource person Mr.T Kesari(MD , Powergate Energy Pvt.Ltd.) addressed the students regarding the importance and need of solar system. In practical sessions the students are guided to know about the theoretical analysis to be made before the design of solar system. The resource person Mr.Chidananda MS (Founder & Trainer, Sparkle Skills, Mysore) addressed the students regarding importance of solar system efficiency, the space requirement for installation and its maintenance.



OUR MISSION:

1. By imparting quality technical education for students to develop into globally competent, Technology professionals
2. By collaborating with industry, research organizations and academia to encourage creativity and innovation
3. By preparing graduates with positive attitude and ethical values

“Anyone who has never made a mistake has never tried anything new.”

-Albert Einstein.



5th semester students along with **three** staff members visited **Varahi Hydro Power Plant** on **24th Aug 2019**.

7th semester students along with **three** staff members visited **Varahi Hydro Power Plant** on **16th Nov 2019**.



EVEN SEMESTER TOPPERS - 2019



Ms. Ashwini B V
(4PM18EE003)
2nd Sem



Ms. Roopa B
(4PM17EE0)
4th Sem



Ms. Inchara
(4PM16EE014)
6th Sem



Ms Navya J
(4PM16EE409)
8th Sem

STUDENT ACTIVITIES

STUDENTS PARTICIPATIONS IN EXTERNAL EVENTS AND PRIZES OWN

1. **Mr.Lakshman C & Ms.Pruthvi HR** attended A Two Day National Level Student's Technical Fest **Advitiya-19** and secured **Third prize** in **PRESENTO** event organized by EEE dept. on **20th & 21st of Sep 2019**, held at **KLE Institute of Technology, Hubballi**.
2. **Mr.Laxman C & Ms.Pruthvi** presented a paper titled "**Solar power extraction using Simulink**" held on **October 4th & 5th 2019** organized at **JNNCE, Shivamogga**.
3. **Mr.Lakshman C & Ms.Pruthvi HR** successfully completed the course **Basic Electric Circuits** from **NPTEL** with the consolidated score of 57% and 48% respectively. During **Jul- Oct 2019**.
4. **Mr.Lakshman C & Ms.Pruthvi HR** successfully completed the course **Analog Communication** from **NPTEL** with the consolidated score of 58% and 62% respectively. During **Jul- Oct 2019**.



Ms. Pragathi RB, 7th semester student participated in the event called "**Yuva dasara**" and won the **second prize** in the **dance competition** which was held on **4th October 2019**.

TRAINING ACTIVITIES

1. **3rd semester** students undergone placement training activities from **22nd to 24th Aug 2019** at **PESITM- Genesis**
2. **7th semester** students undergone placement training activities from **3rd to 7th Sep 2019** at **PESITM- Carrier Prime**
3. **5th semester** students undergone placement training activities from **4th Aug to 7th Nov 2019** at **PESITM – Carrier Prime**
4. **7th semester** students undergone placement training activities from **16th to 24th Nov 2019** at **PESITM- Carrier Prime**

TECHNICAL QUIZ



Department has conducted a "*Technical Quiz*" for 3rd, 5th & 7th semester students on 25th Oct 2019, at *EEE Dept. Seminar hall*

WE ARE LIGHTENING THE WORLD.

ELECTRICAL ENGINEERING

STUDENT INDUCTION PROGRAM



Department has conducted student *induction program* for BE fresher from 13th to 24th Aug 2019 at *EEE Dept Seminar Hall*.

Faculty Journal Publication

1. **Mr.Rudresh SJ** published a paper titled “**Loss minimization and Voltage Stability improvement with integration of Multiple DG’s into the distributed System**” in the **International Journal of Scientific & Engineering Research, (IJSER), May -2019, Volume 10, Issue 5, ISSN: 2229-5518, page no. 141-144.**
2. **Mr.Rudresh SJ** published a paper titled “**Reactive power compensation to improve voltage profile in distribution system using Capacitor**” in the **International journal of science &engineering development research (IJS DR), Jun -2019, Volume 4, Issue 6, ISSN: 2455-263, page no. 18-24.**
3. **Mr.Kiran Kumar GR** published a paper titled “**Solar Powered Atmospheric Water Generator**” in the **Journal of Energy, Environment & Carbon Credits, july-2019, Volume 9, Issue 2, ISSN: 2249-8621, page no. 8-10.**
4. **Mr.Kiran Kumar GR** published a paper titled “**Performance Analysis of BLDC Motor: A Fuzzy Approach**” in the **Journal of Microcontroller Engineering and Applications, jun-2019, Volume 6, Issue 2, ISSN: 2455-197X, page no. 20-33.**

Conferences Attended

1. **Mr.Rudresh SJ** presented a paper titled “**Understanding the challenges and opportunities in Indian higher education**” in the national conference on “**Higher Education in India: challenges and opportunities**” held on **15th Nov 2019** at **PESITM, Shivamogga.**
2. **Mr.Kiran Kumar GR** presented a paper titled “**Understanding the challenges and opportunities in Indian higher education**” in the national conference on “**Higher Education in India: challenges and opportunities**” held on **15th Nov 2019** at **PESITM, Shivamogga.**

FDP/Workshops Attended

1. **Mr.Manjunath Prabhu P** attended a Five Day Faculty Development Program on “**Electrical Power Quality and Distributed Power Generation**” from **16th to 20th December 2019** held at **JNNCE, Shivamogga.**
2. **Mrs.Neetha HM** attended a Five Day Faculty Development Program on “**Electrical Power Quality and Distributed Power Generation**” from **16th to 20th December 2019** held at **JNNCE, Shivamogga.**
3. **Mrs.Manasa B** attended a Five Day Faculty Development Program on “**Electrical Power Quality and Distributed Power Generation**” from **16th to 20th December 2019** held at **JNNCE, Shivamogga.**
4. **Mrs.Kalpana SP** attended a Five Day Faculty Development Program on “**Electrical Power Quality and Distributed Power Generation**” from **16th to 20th December 2019** held at **JNNCE, Shivamogga.**
5. **Mr.Manjunath Prabhu P** attended a Three Day Faculty Development Program on “**Data Science with Python using Jupyter Notebook IDE**” from **27th to 29th Jan 2020** held at **PESITM, Shivamogga.**
6. **Mrs.Shruthi S** attended a Three Day Faculty Development Program on “**Data Science with Python using Jupyter Notebook IDE**” from **27th to 29th Jan 2020** held at **PESITM, Shivamogga.**
7. **Mrs.Manasa B** attended a Three Day Faculty Development Program on “**Data Science with Python using Jupyter Notebook IDE**” from **27th to 29th Jan 2020** held at **PESITM, Shivamogga.**

CELEBRATIONS

Department has celebrated *Ayudha pooja* on the occasion of *Dasara* on *5th Oct 2019*.



Department has organised *Freshers day* celebration for 3rd Sem students on *15th Nov 2019*.



Ethnic Day celebration on *21st Sep 2019*.



TECHNICAL TALK

Talk on **Electrical Application in Mechanical Engineering**, to final year **Mechanical Engineering Students**. Delivered by **Mr. Kiran Kumar G R** on **30th Nov 2019**.



ASAT

As we know that satellites circle our earth (planet) everyday by helping us in several means. Moon circles the earth being a natural satellite and international space station orbits the earth being a biggest artificial satellite. Choosing of orbit to place the satellite is purely depends on application and purpose of the satellite. If the satellite used for application such as earth observation, weather forecasting etc. then the lower earth orbit which is closer to earth (altitude:160 to 2000km) is chosen. Medium earth orbit (MEO) is used for navigation applications such as gps(altitude:2000km to 35700km).24 satellites can cover the entire earth surface from the MEO. In case of broadcasting Geosynchronous earth orbit (altitude: 35786km) is chosen whose angular speed is same as the earth. The satellite covers the 1/3rd of the earth surface so 3 satellites are sufficient to cover the entire earth.

India has launched anti-satellite on 27th march 2019 from Abdul Kalam Island using a code named **MISSION SHAKTI** despite of having many uses from the satellite. Thus became the 4th country in the world to develop an ASAT after United States, china and Russia.

Actually in that test the target was our own satellite which is present in a lower earth orbit. The obvious question is why India chose to destroy our own satellite and by destroying that how we became super power??????

Yes the implication of carrying out of ASAT test has some significance,

It shows the India has the capability to intercept intercontinental ballistic missiles outside the atmosphere.

- The test potentially enables India to claim the right to be involved in the formation of future international norms and guidelines.
- Most important is to prove that India has a capability to defend themselves in a space.
- ASAT can be used against enemy satellites and to disrupt crucial conditions during war.

Ultimately ASAT weapon is meant to act as a DETERRANT to RIVALS.

Parvathi Kasaval-5th Sem

ART GALLERY



CALL FOR NEWS LETTER ARTICLES

We need articles for future edition of news letter, kindly share your skills/talent/work by providing a short/in depth article for the next edition of the news letter. We would like to invite you all to submit a short story article (technical or non technical /painting/sketching/photography/poems /jokes/quotes/ and more. Feel free to communicate with us.

NEWSLETTER COMMITTEE

Editors:

Dr. Manoj Kumar M (Professor & HOD)

Mr. Kiran Kumar GR (Asst. Professor)

Student members:

Mr. Prajwal V M (5th Sem)

Ms. Pruthvi HR (7th Sem)

Learn from yesterday, **Live** for today,

Hope for tomorrow.

The important thing is not to stop questioning.

-Albert Einstein.