

IEEE PES SBC CETkr ACTIVITIES 2024

1. QUIZ COMPETITION

DATE: 25th April 2024

VENUE: Google forms

IEEE Power and Energy society (PES) SB Chapter, College of Engineering Trikaripur on behalf of PES Day'24 conducted a online 'QUIZ COMPETITION' on 25th April 2024 at 7:00pm to 7:30pm. It was conducted through Google forms. The questions were related to the topic of 'Empowering Electric Mobility Innovation'. The online registration started 2 days prior of which 70 registrations were made. Further details were sent through a WhatsApp group including all the participants. The winners are Nandhu Satheesan (S2 ECE College of Engineering Trikaripur), Liya Latheesh (S2 ECE College of Engineering Trikaripur) securing 1st and 2nd position respectively. Participation Certificates were shared to all participants.



2. WOW 5.0 TALK SESSION

DATE: 10th May 2024

VENUE: Google Meet

IEEE PES Kerala Chapter in association with IEEE Women in Power Kerala, IEEE R10 PES Women in Power, IEEE Women in Engineering, and IEEE PES SBC CETkr, conducted the first talk session of Women Of Wisdom (WOW 5.0) Tech-Talk Series on the topic 'Estimation of solar radiation and its impact on transition to green energy' on 10th may 2024. About 35+ participants took part in the session handled by Dr Kumari Namrata, Associate professor, Dept. of Electrical Engineering, NIT Jamshedpur. One hour session was very informative and helpful to gain an insight into topic. It was open to all IEEE as well as non IEEE members. The poster and content were shared to the public 1 week prior to the talk session. The talk session link and other details were sent to the participants through WhatsApp.

The detailed schedule of the session were as follows:

EVENT	SPEAKER
Welcome Address	Dr: Nafeesa K WIP coordinator, IEEE PES Kerala Chapter
Presidential Address	Dr: Ajith Gopi Chair, IEEE PES Kerala Chapter
Session	Dr. Kumari Namrata Associate Professor, Dept.of Electrical Eng. NIT Jamshedpur
Felicitation	Dr. Naveena A K Advisor, IEEE PES SBC College Of Engineering Trikaripur
Vote Of Thanks	Adithya Vijayan Chair IEEE PES SBC College of Engineering Trikaripur










DR. KUMARI NAMRATA
 Associate Professor
 Dept. of Electrical Engineering
 NIT Jamshedpur

WOW 5.0

Women of Wisdom

#SESSION 1

Estimation of Solar Radiation and its Impact on Transition to Green Energy

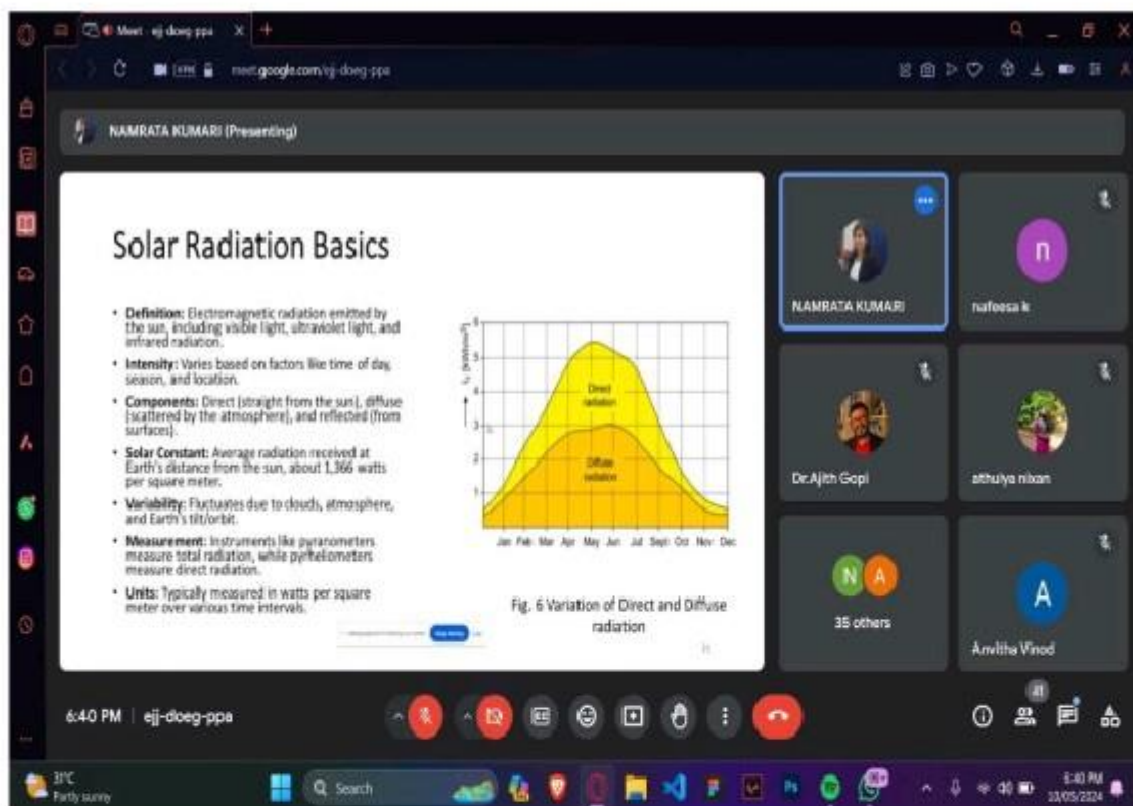
10th May 2024

6:00 PM - 7:00 PM

REGISTER NOW: https://bit.ly/WOW5_1

pes.ieeeekerala.org

[facebook.com/ieeepek](https://www.facebook.com/ieeepek) [instagram.com/ieeepek](https://www.instagram.com/ieeepek) [linkedin.com/company/ieeepek](https://www.linkedin.com/company/ieeepek) [youtube.com/channel/UC...](https://www.youtube.com/channel/UC...) /ieeepek



Solar Radiation Basics

- Definition:** Electromagnetic radiation emitted by the sun, including visible light, ultraviolet light, and infrared radiation.
- Intensity:** Varies based on factors like time of day, season, and location.
- Components:** Direct (straight from the sun), diffuse (scattered by the atmosphere), and reflected (from surfaces).
- Solar Constant:** Average radiation received at Earth's distance from the sun, about 1,366 watts per square meter.
- Variability:** Fluctuates due to clouds, atmosphere, and Earth's tilt/orbit.
- Measurement:** Instruments like pyranometers measure total radiation, while pyrheliometers measure direct radiation.
- Units:** Typically measured in watts per square meter over various time intervals.

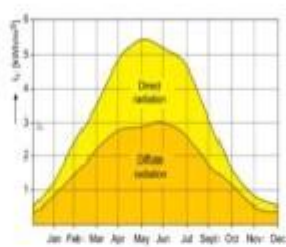





Fig. 6 Variation of Direct and Diffuse radiation




NAMRATA KUMARI




rafessa k




Dr. Ajith Gopi



athulya nixon



35 others



Anvitha Vinod

3.TRI-DAY TRIUMPH

DATE: 11,12 and 13th july 2024

VENUE: Google forms

IEEE PES SBC LBSCEK and IEEE PES SBC CETkr conducted a 3 days online challenge 'TRI-DAY TRIUMPH' which was started on 11th of july and ends with 13th of july 2024. It was conducted through Google forms.The online registration started 6 days prior of which 60 registrations were made. Further details were sent through a Whatsapp group including all the participants.The Winners are Anshif (College Of Engineenng Trikanpur), Jaazima abdul khader (Vimal jyothi College Of Engineering ,chemperi),Fidha ahamed (Mar athanasius college of Engineering Kothamangalam).Participation Certificates were shared to till participants.



TRI-DAY TRIUMPH

CHALLENGE

Embrace Reconnection
Uncover Discover
and Embark on Exploration!



JULY 11
12
13

Register now!

bit.ly/pes-challenge



TRI-DAY TRIUMPH

GUIDELINES

- Join the challenge through the registration link provided below
- Participants must join the WhatsApp group provided in the registration link
- The challenge is scheduled on July 11,12,13
- Each day you'll have to attend two challenges
- The challenge may include puzzles, fun games, hunt, quizzes and many more exciting games
- Participant must complete every challenge in order to win
- More updates will be provided on the whatsapp group

Any queries?

Rifda - 8921256980
Adithya - 7511136433



**TRI-DAY
TRIUMPH
CHALLENGE**

WINNERS

1st

Anshif
College of engineering
trikaripur

2nd

Jaazima Abdul Khader
Vimal Jyothi Engineering
College,chemperi

3rd

Fidha Ahamed
Mar Athanasius College of
Engineering, Kothamangalam

Congratulations

4. WORKSHOP

DATE: 2nd November 2024

VENUE: College of Engineering Trikaripur

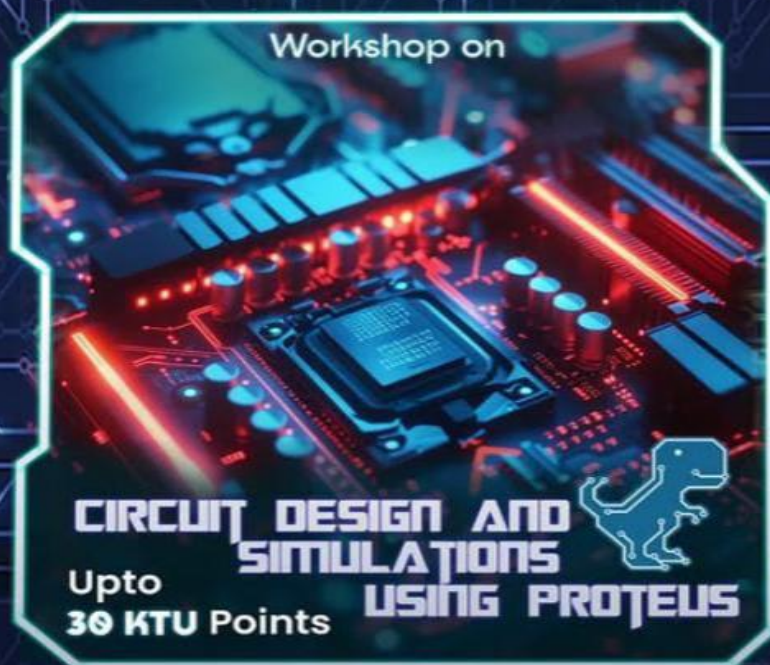
As part of REVEINS 4.0 a workshop was conducted by IEEE officials on 'CIRCUIT DESIGN AND SIMULATIONS USING PROTEUS'. Workshop was conducted for EEE and ECE students on 2nd November 2024. The main objective for the webinar was to provide the knowledge and skills needed to effectively use PROTEUS software for designing and simulating electronic circuits. Almost 80 participants joined for this session.



REVIEWS 4.0



Workshop on



**CIRCUIT DESIGN AND
SIMULATIONS
Upto 30 KTU Points USING PROTEUS**



Register at

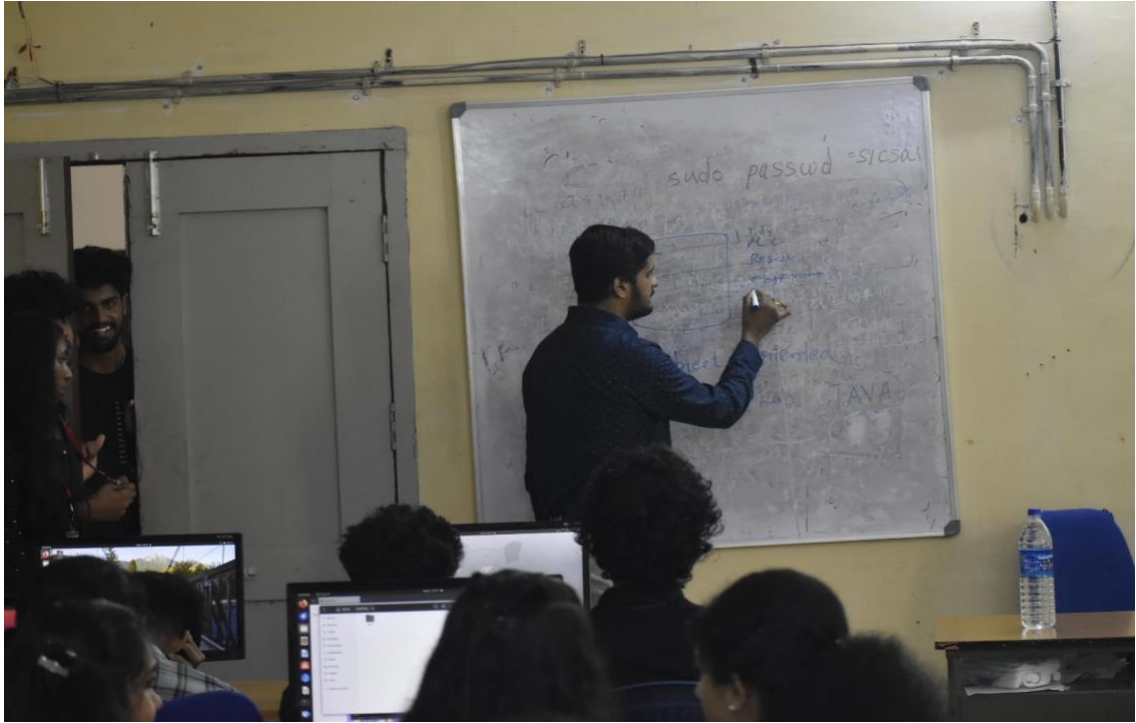
<http://reviews.ieeesbcetkr.org>

For queries-

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5. TALK SESSION

DATE: 11th November 2024

VENUE: Google Meet

IEEE PES SBC CETkr conducted a session on IEEE PES membership development on 11th October 2024 at 7:30 PM via Google Meet. The session aimed to introduce the IEEE Power and Energy Society (PES) and its membership benefits, including career enhancement, technical knowledge, and global networking opportunities. The webinar was conducted by Ms. Nikitha T, Malabar Hub MDC, IEEE PES Kerala Chapter, who provided valuable insights into PES, its global impact, and the opportunities it offers for students, such as internships, scholarships, and mentorship. The session was well-received, with about 30 participants, comprising both IEEE and non-IEEE members. The event details, including the session link, were shared via WhatsApp groups, and promotional content was circulated three days prior to the webinar.

