B.M.S COLLEGE OF ENGINEERING, BENGALURU-19
(Autonomous Institute, Affiliated To VTU)
Department of Electrical and Electronics Engineering

Activities in the month of January 2024

1. **23rd January 2024**: Industrial visit to Schneider Electric research lab was organized for EEE students.

2. **25th January 2024** : Dr. Umavathi M, Asst. Professor in the department of EEE in collaboration with NIT, Patna Granted a Design patent titled " SUN TRACKING SOLAR PANEL" and design no. 364665-001 on 25/01/2024, by Government of India.

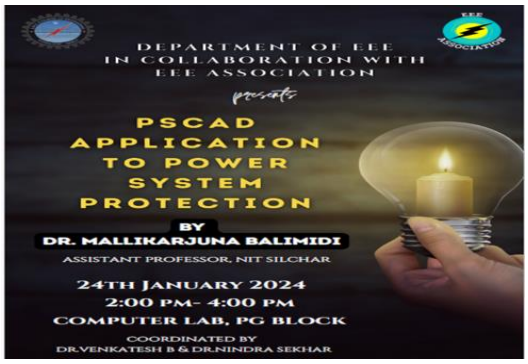
3. **10th January 2024**: Dr. Chandasree Das, Associate Professor in the Department of EEE, has delivered a Guest Lecture at BMS College for Women on "R & D Funding Opportunities".

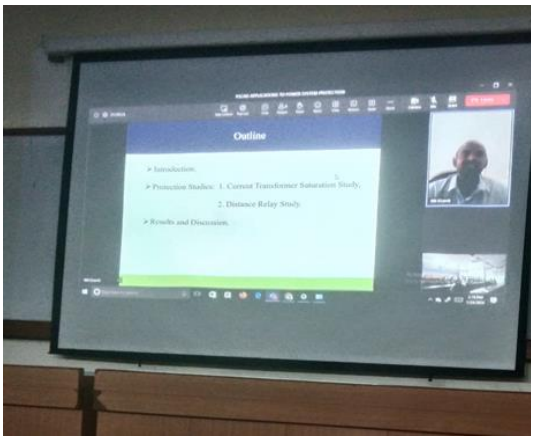
4. **20th January 2024**: IEEE PELS BMSCE Student Branch chapter received Highest Membership award from IEEE PELS Bangalore chapter

5. **31st January 2024**: Dr. Chandasree Das, Associate Professor, Department of EEE has delivered a talk on "Thin film Technology for Synthesis and Characterization of PV Cells",during ATAL FDP on "Emerging Technologies in Sustainable Energy systems" organized by Department of EEE during 29th January to 3rd February 2024.

6. **24th January 2024**: Dr. Venkatesh B and Dr. Nindra sekhar organized an online talk on "PSCAD application to power system protection" by Dr. B. Mallikarjuna, Assistant Professor, NIT Silchar on 24th January 2024,

2pm to 4pm in collaboration with the EEE association.





Activities in the month of February 2024

29th Jan 2024 to 3rd Feb 2024 : ATAL Faculty Development Program on "Emerging Technologies in Sustainable Energy System" was conducted from 29th Jan 2024 to 3rd Feb 2024 at BMSCE. The Faculty coordinators are Dr. Geetha R S and Dr. Venkatesh B. The schedule of the FDP:

29-01-2024 : "Modern Power System Stability" by Dr. Gurunath Gurrala, IISC,

"Electronic Power Conditioners and Efficient Power Management Techniques" Dr. Lakshmi N, IIT, Madras

"Energy Cooperatives and Blockchain-based trading" Dr. S. Arul Daniel, NIT, Tiruchirappalli

30-01-2024: "Power Electronics for Space Applications" Mr. Krishna Mohan, Director-Design, Centum Electronics Ltd,

"Power Electronics for Electric Vehicles: Upcoming Technologies & Challenges". Dr. Sandeep Anand, IIT Bombay

31-01-2024: "Stress management" Dr. Rajeshwari Hegde, Professor & HOD, Dept. of ETE, BMSCE

"Thin Film Technology for Synthesis and Characterization of PV Cells" Dr. Chandasree Das, Associate Professor, Dept of EEE, B.M.S.C.E.

1/02/2024: "Design of Electric vehicles" and "BLDC drives for EV", Dr. B Dastagiri Reddy, NITK, Surathkal

"Role of Batteries and Fuel Cells in the Energy Storage Domain: An Engineering Perspective" Dr. Srinivas Jayanthi, Professor, Dept. of Chemical Engineering, IIT Madras

2/02/2024: Technical report writing using Lenux, Dr. Balachandra K, Dept. of ETE, B.M.S.C.E.Industrial visit to DAS, BESCOM, HSR Layout.

3/02/2024: "Energy management in Electric Vehicles" Dr. Sanjeev K Nayak, Manager, Engineering Department unit, ALSTOM, Bangalore.

"PMU measurements in Power Systems" Dr. J. Sreedevi, Joint Director, Power Systems Division, CPRI, Bangalore

24th and 25th Feb 2024: Dr. Prema V, Dept. of EEE and Dr. Anil Chandra, Dept. of Mechanical Engg, along with students demonstrated the VR microgrid model during the annual event conducted by Dassault Systems at the office of Dassault Systemes, Bangalore

22nd February 2024: 3 Students from BMS College of Women, Basavanagudi, joined for 60 hours of internship program in Micro Devices Lab, under Dr. Chandasree Das, Associate Professor, Department of EEE.

Activities in the month of March 2024

1st March 2024: Dr. Chandasree Das, Associate Professor, Department of EEE has joined RWTH Aachen University, Germany as SPM Awardee by fetching a sanctioned grant of Rs 12,63,609/- (Twelve Lakh Sixty Three Thousand Six Hundred Nine only) from SERB under SERB POWER Mobility Scheme, Govt. of India.

7th March 2024: Dr. Prema V, Associate Professor, Dept. of Electrical and Electronics Engineering was invited as chief guest for the inauguration of IEEE PELS Student Branch Chapter at Reva University, Bangalore

13th March 2024: Prof Kalyan Delivered a lecture titled "Sensor-less Rotor Position Control in Wind Power Generation Systems" during the five-day SPARC Sponsored All India Workshop on "Renewable Energy Based Electric Vehicle Technology," which took place from March 11th to 15th, 2024. The workshop was hosted by the National Institute of Technology Tiruchirappalli and conducted in a hybrid mode.

Activities in the month of April 2024

18th April 2024: Dr. Prema V, Associate Professor, Department of EEE delivered a talk on 'Ideation for Entrepreneurship' during the 6-Day FDP on Design Thinking for Product Development at Vidya Vardhaka College of Engineering, Mysuru

30/04/2024: Industrial visit to Pavagada Solar Park was organized by Department of EEE for V sem students on 30/04/2024

Activities in the month of May 2024

1st May 2024: Dr. Venkata Madhava Ram Tatabhatla, Assistant Professor, Department of Electrical and Electronics Engineering, authored and published an article titled "Reduced partial shading effect and enhancement of performance metrics using a Fibonacci based algorithm" in International Journal of Numerical Modelling: Electronic Networks, Devices and FieldsVolume 37, Issue 3: https://doi.org/10.1002/jnm.3242

2nd - 7th May 2024: The Department of EEE, in association with EEEA, organized a one-week Value Added Course on "Electrical Technology for Sustainable Future."

2nd May 2024: Dr. Prema. V Delivered a talk titled "Analysis of Closed loop DC-DC

Converters using Fuzzy Logic Controller" for a one-week Value Added Course on "Electrical Technology for Sustainable Future" organized by the Department of Electrical and Electronics Engineering, BMS College of Engineering, Bengaluru, India in association with EEEA.

3rd May 2024: Dr. Nindra Sekhar Delivered a talk titled "Integration of power electronics controller to Renewable Energy" for a one-week Value Added Course on "Electrical Technology for Sustainable Future" organized by the Department of Electrical and Electronics Engineering, BMS College of Engineering, Bengaluru, India in association with EEEA.

3rd May 2024: Prof Ravulakari Kalyan Delivered a talk titled "Integration of Power Electronics in Wind Energy Conversion Systems" for a one-week Value Added Course on "Electrical Technology for Sustainable Future" organized by the Department of Electrical and Electronics Engineering, BMS College of Engineering, Bengaluru, India in association with EEEA.

9th May 2024: Dr. Netravathi. S. Delivered a talk titled "Optimization algorithms on software platforms" for a one-week Value Added Course on "Electrical Technology for Sustainable Future" organized by the Department of Electrical and Electronics Engineering, BMS College of Engineering, Bengaluru, India in association with EEEA.

4th May 2024: Department of EEE in association with EEEA organized Final year project Exhibition "ÁNVESH-2024".

9th May 2024: Dr. Prema V, Associate Professor, Dept. of EEE was invited as Chief Guest for "INDUSTRY ACADEMIA SYMPOSIUM", the inauguration event of the IEEE POWER ELECTRONICS SOCIETY at Cambridge Institute of Technology, Bangalore

18th May 2024: Dr. MNV Award was presented to Phanibhushan K S ,8th semester student for securing 'S' grade in Power Systems-II and a CGPA of 8.84.

B.M.S. College of Engineering
Bengaluru – 560019
Department of Electrical & Electronics Engineering
In Collaboration with IEEE SSIT Organizing
One Week Short Term Training Program on
VLSI, VERILOG, ROBOTICS AND EMBEDDED SYSTEMS
June 3rd to 7th 2024

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Head of Department, EEE, BMSCE

COORDINATORS
Dr. Prakash. D. B
Assistant Professor, EEE, BMSCE
Dr. Venkata Madhava Ram Tatabhatla
Assistant Professor, EEE, BMSCE

About BMS College of Engineering
B.M.S. College of Engineering (B.M.S.C.E) was founded by a great visionary and philanthropist Late Sri. B. M. Sreenivasaiah (B.M.S) in the year 1946. The College became an autonomous institution under Visvesvaraya Technological University (VTU) in the year 2008-09. B.M.S.C.E offers 13 UG, 16 PG & 14 Research programs. B.M.S.C.E is accredited with A++ Grade by NAAC and by National Board of Accreditation (NBA), New Delhi under Tier-I NBA Accreditation Washington accord. The institution is consistently ranked among India's top engineering colleges, and Technical Education Quality Improvement Programme (TEQIP) Institute since 2006.

About EEE Department
The department was established in 1946 under grant in aid from Govt. of Karnataka with an undergraduate program in Electrical and Electronics Engineering having a sanctioned intake of 60. The program has been granted academic autonomy since 2008 and has been accredited by NBA (Washington Accord) under Tier-I format. The department offers post graduate program in Power Electronics which started in 1991 with a sanctioned intake of 18 which is also NBA Accredited. Additionally, it operates a research center under VTU since 2003, gaining recognition as an AICTE QIP and NDF Research Center in 2012 and in 2018 respectively.

About IEEE Society on Social Implications of Technology
The IEEE SSIT (Society on Social Implications of Technology) is a professional society within the Institute of Electrical and Electronics Engineers (IEEE) that focuses on understanding and addressing the societal implications of technology. SSIT members come from various disciplines, including engineering, social sciences, and humanities, and they work together to explore the ethical, legal, and social impacts of technology on individuals, communities, and society as a whole. The society promotes responsible and sustainable technology development, aiming to foster dialogue and collaboration among technologists, policymakers, and the public to ensure that technology serves the common good.

About this Short Term Training Program
This STTP is organized in an offline mode and introduces the recent developments and future outcomes addressing the related theoretical and practical aspects of "VLSI, Verilog, Robotics and Embedded Systems"
The major course contents, include, but not limited to
- Introduction to VLSI Design and HDLs
- CMOS Logic Design and Testing
- Combinational and Sequential Logics
- Verilog Basics: Syntax, Data Types, Operators
- Behavioral and Structural Modeling
- Verilog for Combinational and Sequential Circuits
- Introduction to Embedded Systems
- Embedded C Programming
- Memory Management and Design in Embedded Systems

Outcomes of Short Term Training Program
At the end of the course, the participant would be able to
- Identify the emerging areas engineering domains to carry out research work.
- Enhance their understanding of VLSI, Verilog and Embedded Systems.
- Implement the skillset gained in allied areas develop efficient hardware solutions.

Who can register?
This STTP is useful to the students (preferably third and final year students), postgraduation students, and research scholars.

Note:
- This Short Term Training Program is purely offline. No online requests are entertained.
- Candidates must bring their laptops for smooth participation.
- Certificates will be issued upon successful completion.
- Minimum 85% attendance is mandatory.
- An AAT activity follows; passing it, alongside meeting attendance criteria, earns certificates.

For More Details, Please Contact
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Assistant Professor, EEE, BMSCE
Email: prakashdb.eee@bmsce.ac.in
Contact Number: +91-9480235493
Dr. Venkata Madhava Ram Tatabhatla
Assistant Professor, Dept. of EEE,
Email: madhavaram.eee@bmsce.ac.in
Contact Number: +91-7893222486

Activities in the month of June 2024

3rd to 7th June 2024: The Department of EEE, in collaboration with IEEE SSIT, organized a one-week short term training program on "VLSI, Verilog, Robotics and Embedded Systems."

5th June 2024: Prof Chaitanya L Delivered a talk titled "Robot Kinematics: Fundamentals and Design Analysis" for a one-week short term training program on "VLSI, Verilog, Robotics and Embedded Systems." organized by the Department of Electrical and Electronics Engineering, BMS College of Engineering, Bengaluru, India in collaboration with IEEE SSIT.

B.M.S. College of Engineering, Bengaluru – 560019

Department of Electrical & Electronics Engineering

Program Schedule for Short Term Training Program on VLSI, Verilog, Robotics and Embedded Systems

June 3rd to 7th 2024

	SESSION 1	SESSION 2	SESSION 3	SESSION 4	SESSION 5
Date	3rd June 2024	4th June 2024	5th June 2024	6th June 2024	7th June 2024
Time	3:30 PM – 6:30 PM	3:30 PM – 6:30 PM	3:30 PM – 6:30 PM	3:30 PM – 6:30 PM	3:30 PM – 6:30 PM
Resource Person	Dr. Vasundhara Patel	Dr. M.S. Suma	Chaitanya. L	Dr. Veena N. Hegde	Dr. Kanth Raj
Venue	ECE – Lab Third Floor	EEE Computer Lab, 2nd Floor and Medical Electronics Lab, 4th Floor	EEE Computer Lab, 2nd Floor	EEE Computer Lab, 2nd Floor EIE Computer Lab, 2nd Floor	EEE Computer Lab, 2nd Floor
Title	Design and Simulation of VLSI Circuits	Basics of Verilog and its modeling	Robot Kinematics: Fundamentals and Design Analysis	Overview of Embedded Systems and Applications based on STM Microcontroller	Applications of Embedded Systems for Automotive (EV)

27th June 2024: Dr. Prema V, Faculty, EEE, along with Dr. Anil Chandra A Rand Dr. Suhas B G, Faculty of Mechanical Department presented and published a paper titled "VR Enabled Solar/Wind Microgrid for Enhanced Learning" in the international conference 15th ICCCNT 2024 at IIT Mandi, India

27th June 2024: Prof Chaitanya L, Faculty EEE Presented a paper titled " Tackling Dta challenges in Energy domain - Synthetic data is the answer " in Women in data Science (WiDS 2024) organized by Intuit, Bangalore .

Activities in the month of July 2024

23rd July 2024: Dr A. N Nagashree, Dr. Usha A & Dr Geetha R S visited CENTUM ELECTRONICS LTD. ON 23rd JULY 2024 to review the project work carried out by 4th semester M.Tech Power Electronics students.

12th July 2024: Dr. A N Nagashree, HOD, Dept. of EEE served as session chair for the track "Power, Energy & Electric Vehicles" during the international conference CONECCT 2024 held at Indian Institute of Science, Bangalore

12th July 2024: Dr. Prema V, Associate Professor, Dept. of EEE served as track chair and season chair for the track "Power, Energy & Electric Vehicles" during the international

conference CONECCT 2024 held at Indian Institute of Science, Bangalore

16th July 2024: Department of EEE organized an Industrial visit to Bhoruka Power plant situated near Hemmige Village , T Narasipura Taluk, Karnataka

22nd and 23rd July: The following students of M. Tech Power Electronics, EEE Dept. participated and won prizes in the Intramural sports competitions AY: 2024-25

SHREENIDI G - 1BM23EPE13

1) Table tennis-winner

2) Badminton-runner

3) Throwball-runner

SHAMBHAVI INDARAGI - 1BM23EPE11

1)Badminton-runner

2)Throwball-runner

SAMPREETHI B C- 1BM23EPE10

1) Throwball-runner

27th July 2024: Dr. Geetha R S was invited to the BoS meeting at EEE Dept.,Dayanand Sagar College of Engineering, Bangalore.

30th July 2024: Dr. Umavathi.M, Assistant Professor, Dept. of EEE served as Board of Examiners to scrutinize the question papers at BNMIT, Bangalore.

3rd August 2024: Dr.Ravulakari Kalyan have been awarded the Ph.D. degree from NIT Tiruchirapalli for the Academic year 2024.

4th August 2024: Dr Prema V, Assoc. Prof, Department of Electrical and Electronics served as Finance Chair for the 41st

International Conference INTELEC 2024, organized by IEEE Power Electronics Society (IEEE PELS) held at JW Marriott, Bangalore from 4th August to 7th August 2024

4th August 2024: Prof. Chaitanya.L along with UG student Vageesh Maiya presented a paper titled "A Long Horizon Data Augmentation Technique to Produce Reliable Synthetic Battery Parameters" at 41st International Conference INTELEC 2024 held at JW Marriott, Bangalore on 4th August 2024.

23th August 2024: Professor D.S Ramakrishna Award for the year 2023-2024 along with a cash Prize of Rs. 10,000 was presented to Ananya G (1BM21EE005) , VII Sem student for being the Second Topper upto sixth semester .

29th August 2024: An industrial visit to Entuple Technologies was organized for first-year M.Tech Power Electronics students, featuring sessions and lab visits led by Mr. Pranay Chowdary. The visit was coordinated by Dr. R.S. Geetha, Dr. Chandasree Das, Dr. Prema, and Dr. R. Kalyan.

Activities in the month of September 2024

18th Sept 2024: Department of Electrical & Electronics Engineering in collaboration with Department of Physics and Department of Chemistry along with Chirantana, Astronomy club, Rotaract club and Department of Sports and Physical Education, organized "A visit by students of Mayasandra Govt. High School to BMSCE Campus" under DST-FIST Project on 18th

September 2024. 30 students with 2 teachers visited the BMSCE Campus.

20th Sept 2024: Department of Electrical & Electronics in association with IEEE PELS-IES SBC, BMSCE and Reliamotive Labs organized a three-days Hands-on workshop on "Magnetic design, Simulation and Development" from 20th to 22nd September-2024

24th Sept 2024: Dr. Prema V, Associate Prof, Department of Electrical and Electronics co-authored a paper titled 'A model for effect of partial shading on PV panels with experimental validation', in the journal Energy Reports, Elsevier (Q2 Journal)

24th sept 2024: Dr. Ravulakari Kalyan, Assistant Professor , Department of EEE Organized a session 'Values makes us valuable' by Expert Dr. Vishal kaushal, applied science manager, Amazon to first year students for the induction program and also Faculty-coordinator for induction program during 23-09-2024 to 02-10-2024

26th Sept 2024: Dr. Prema V, Associate Prof, Department of Electrical and Electronics delivered a technical talk titled "Advantages of WBG Devices for Advanced Motor Drives in EV Applications" during FDP on "Power Electronics Application for Electric Vehicle Technology & Sustainable Energy Integration" at Dayananda Sagar College of Engineering, Bangalore

26th Sept 2024: Dr.Umavathi M.,Assistant Professor organized a IEEE SSIT induction

program for 1st semester students of Department of Electrical & Electronics Engineering and Electronics & communication Engineering session on "CAREER COUNSELING".

26th Sept 2024: Dr. Ravulakari Kalyan, Assistant Professor, Department of EEE Organized a session 'Password for happiness' by Expert HG suvarna Goura Hari Das, Director IYF, Iskcon south bengaluru for the induction program

Activities in the month of October 2024

16th Oct 2024, Wednesday: One day training program on "Mitsubishi's DIPIPM Solution for Power electronics applications" was conducted for Faculty, EEE Department. The resource person was Mr. Sourabh, Field Application Engineer, Mitsubishi Electric India pvt Ltd.

4th October 2024 : An expert talk by S. Sridhar, Chief operating officer GRAPHEME Labs on "Application of Patent Law to Technology" was organized by EEE Association of Department of Electrical and Electronics Engineering. For 7th Semester students.

5th October 2024: One day hands -on workshop on MATLAB/Simulink was organized for 5 th semester students by EEE Association of Electrical and Electronics Department. Faculty members Prof. Soniya Agrawal and Prof. Madhav Ram handled the sessions.

Activities in the month of November 2024

November 7th : Dr. Prema V, Assoc. Prof, Department of EEE chaired a session at the international conference TEECCON-2024 at School of EEE, REVA University, Bangalore

November 9th : Dr. Prema V, Assoc. Prof, Department of EEE published a paper titled "Li-ion Battery State of Charge estimation and cell balancing using Extended Kalman Filter" during 8th IEEE International Conference on Computational Systems & Information Technology for Sustainable Solutions (CSITSS), held from 7th to 9th November, 2024 at RV College of Engineering, Bangalore

November 15th : Department of Electrical and Electronics Engineering in association with EEEA organised a talk on " A Few Lessons from a Professional Carrier" for students.

November 15th : Dr. Prema V, Assoc. Prof, Department of EEE delivered a technical session and hands-on training during a Workshop on "Applications of Intelligent Controllers In Electrical Engineering Using MATLAB / SIMULINK" at The Oxford College of Engineering Bengaluru.

November 28th : Dr. Prema V, Assoc. Prof, Department of EEE published a paper titled "Performance comparison for speed control of BLDC motor for different switching devices" during the international conference ICSPE at O.P Jindal university Raigarh

November 30th : Dr. Prema V, Assoc. Prof, Department of EEE was invited as chief guest for the IEEE PELS & IES Student Congress 2024 & IES Day Celebration on November 30, 2024, at Cambridge Institute of Technology, Bangalore.

November 30th: Soniya Agrawal, Assist. Prof, Department of EEE has given a technical talk on "Power Electronics Converter For Electric Vehicle" at the IEEE PELS & IES Student Congress 2024 & IES Day Celebration on November 30, 2024, at Cambridge Institute of Technology, Bangalore.

Activities in the month of December 2024

5-12-2024: Department of EEE conducted the event - Bob the Circuit Builder as a part of phase shift 2024.

6-12-2024: Dr. Prema V, Associate Professor, Department of EEE delivered two sessions on 'Wide Band Gap Devices for Advanced Electric Drives for EV Applications with Hands on Training' during the ATAL FDP on 'Cutting Edge Developments in Electric & Hydrogen Cell Vehicles for Educators' at The Oxford College of Engineering, Bangalore

6-12-2024: Soniya Agrawal, Assist. Professor, Department of EEE delivered two sessions on 'Wide Band Gap Devices for Advanced Electric Drives for EV Applications with Hands on Training' during the ATAL FDP on 'Cutting Edge Developments in Electric & Hydrogen Cell Vehicles for Educators' at The Oxford College of Engineering, Bangalore.

7.12.2024: Dr. Prema V, Associate Professor, Department of EEE delivered a session on 'Power Electronics in EV Applications' during IEEE_PES Industry Academia Conclave at Acharya Institute of Technology, Bangalore.

12.12.2024: Department of Electrical & Electronics and EEE Association in collaboration with Reliamotives Labs organized a 2-days Hands-on workshop on 'Electric Motor Design Using MotorXP and MATLAB – From Basics to Advanced' during 12th and 13th Dec 2024. More than 40 external participants attended the workshop.

13.12.2024: Dr. Umavathi M, Assistant Professor ,Department of EEE invited as a BOE member at B.M.S.Institute of Technology(B.M.SIT), Bangalore.

14.12.2024: Dr. Umavathi M, Assistant Professor ,Department of EEE invited as a Session Chair for 2nd International Conference on Intelligent and Sustainable Power and Energy Systems (ICISPES 2024) at Dayananda Sagar College of Engineering, Bangalore.

15.12.2024: Soniya Agrawal, Assistant Professor ,Department of EEE , Published a paper entitled "A Fault-Tolerant Common-Ground based Five-Level inverter for Photovoltaic Applications" to an ESCI index Journal IEEE Journal of Emerging and Selected Topics in Industrial Electronics.

17.12.2024: Dr. Umavathi M, Dr. Prakash, and Dr. Chechan raj,Assistant Professor ,Department of EEE Organized an industrial Visit to EMMVEE Photovoltaic Power Pvt. Ltd, Bangalore for 5th semester EEEStudents

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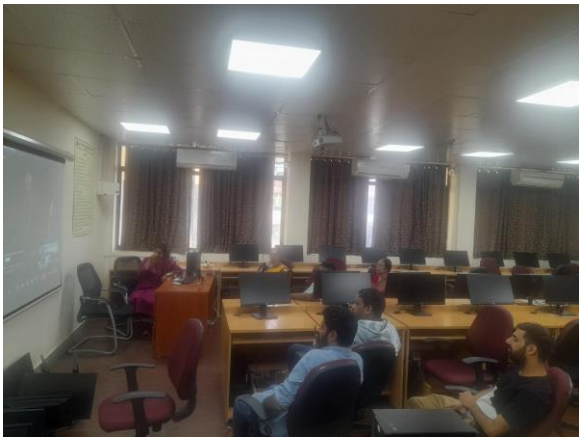
18.12.2024 : An Industrial Visit to Integrated Electric Company Ltd. was arranged as a part of Phase shift 2024.

21.12.2024: An interaction with the batch of 2009-2013 and Department of EEE was held for discussion on possible collaboration activies.



21.12.2024: Department of EEE in association with EEEA organized 'Sammilana 2024'- Annual Alumni Meet of EEE Department. Around 50 UG & PG Alumni attended the Event .

21.12.2024: Prof Vijay Vittal Award was presented to the following students :
Vidhya T (1BM15EE061)
Wayne Paul Martis (1BM16EE065)
Manohar Bhat (1BM17EE032)
Prashanth MS (1BM18EE038)
Sneha C (1BM19EE055)
Vandana B R (1BM20EE065)
Bhagyashree M Patil(1BM21EE012)