



**B.M.S. COLLEGE OF ENGINEERING, BENGALURU-19**  
(Autonomous Institute, Affiliated to VTU)

**DEPARTMENT OF ELECTRICAL & ELECTRONICS**  
**ENGINEERING**

***Faculty Achievements during the year July 2024- June 2025***

**Dr.A.N.Nagashree**

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, 12<sup>th</sup> July 2024

**Dr.R.S.Geetha**

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

**Dr.Chandasree Das**

1. **26th May 2025: Dr. Chandasree Das, Professor**, in the Department of EEE in collaboration with EEE Association organized an Invited talk on “Semiconductor Manufacturing: Opportunities and Prospects in India for Fresh Engineers”, by Prof. Sushobhan Avasthi from CeNSE, IISc, Bangalore.



**Dr. Umavathi.M**

1. Dr. Umavathi.M, Assistant Professor, Dept. of EEE served as Board of Examiners to scrutinize the question papers at BNMIT, Bangalore, 30th July 2024.
2. Dr. Umavathi M, Assistant Professor, Department of EEE invited as a BOE member at B.M.S.Institute of Technology(B.M.SIT), Bangalore, 13<sup>th</sup> December 2024.
3. 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, 14 December 2024.



4. Dr.Umavathi M., Assistant Professor in the department of EEE invited as a Department Advisory Board (DAB) Meeting for the academic year 2024-2025,in BNM Institute of Technology, Bengaluru. On 2<sup>nd</sup> Feb 2025



5. **Dr.Umavathi.M**, Associate Professor in the Department of Electrical and Electronics Engineering, invited for a project exhibition 2025 in the dept. EEE BNM Institute of Technology,Bengaluru. On 12 april 2025



6. **Dr. Umavathi .M** Associate Professor in the Department of Electrical and Electronics Engineering, published a research article in the Web of Science Journal titled “Enhancing Performance toward Torque and Flux Control Through a Hybrid Approach of Intelligent and DTC for SRM Drives” in IEEE Access, which has an impact factor of 3.4. on 12<sup>th</sup> may2025.<https://doi.org/10.1109/ACCESS.2025.3569277>

7. **Dr. Umavathi .M Associate Professor** in the Department of Electrical and Electronics Engineering, along with the Research scholar Hemavathi .R, et al. published a research article titled “Electroluminescence Imaging For Defect Analysis in Polycrystalline Solar Cells” in Web of Science Metallurgical and Materials Engineering, which has an impact factor of 0.9. on 29<sup>th</sup> may 2025 <https://doi.org/10.63278/1705>

## Dr Nethravathi S

1. Dr. Nethravathi.S, EEE was invited as an External Session chair for the paper presentation session at the IEEE International Conference on "Intelligent and Innovative Techniques on Computing, Electrical and Electronics" on 16th January 2025 at BNM Institute of Technology, Bengaluru.
2. **Dr. Netravathi S Associate Professor and** in the Department of Electrical and Electronics Engineering, invited to serve as a jury member for the Intercollegiate Project Exhibition - ĀVIṢKĀRA 2025, in association with the ISTE and IEEE Student Branch Chapter Bangalore Section at Vemana IT, Bangalore

## Dr. B. Venkatesh

1. **Dr. B. Venkatesh, 15th February 2025:** Dr. B. Venkatesh, organized an insightful talk on "Electromagnetic Compatibility (EMC)" from Bosch Global Software Technologies Private Limited, Bangalore has been organised on 15th February 2025 at 10 am in EEE Department. The talk is scheduled from 10 to 11.15 am

## Prof Chaitanya.L

1. 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.



2. Prof. Chaitanya L, Assistant Professor, Department of Electrical & Electronics Engg. received outstanding ex-officio award for the year 2024 from IEEE PELS Bangalore chapter On 22<sup>nd</sup> Feb 2025.



## **Dr. Prakash DB**

1. Dr. Prakash DB organized an insightful talk on "Electromagnetic Compatibility (EMC)" from Bosch Global Software Technologies Private Limited, Bangalore has been organised on 15th February 2025 at 10 am in EEE Department. The talk is scheduled from 10 to 11.15 am

## **Prof. Soniya Agrawal**

1. 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.



2. 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, 6<sup>th</sup> December 2024.



1. Soniya Agrawal, Assistant Professor, Department of Electrical & Electronics Engg. published a paper titled “A Five-Level Switched Capacitor-Based Common-Ground Inverter for Photovoltaic Applications” in the International Journal of Circuit Theory and Applications (Q2), 20th February 2025.
2. 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. 20<sup>th</sup> feb 2025
3. Dr. Netravathi S Associate Professor and **Soniya Agrawal**, Assistant Professor in the Department of Electrical and Electronics Engineering, invited to serve as a jury member for the Intercollegiate Project Exhibition - ÄVIŠKÄRA 2025, in association with the ISTE and IEEE Student Branch Chapter Bangalore Section at Vemana IT, Bangalore, 10<sup>th</sup> may2025.
4. Soniya Agrawal, Assistant Professor in the Department of Electrical and Electronics Engineering, presented a paper titled” Dual Point Grounded Five-Level T-type Inverter for Photovoltaic Applications” in the 17th Edition of ECCE Asia IEEE conference, held from 11th–14th May 2025 at Hilton and Hilton Garden Inn, Embassy Manyata Business Park, Bengaluru on 13<sup>th</sup> may2025.



## Dr. Prema V

1. 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, 12<sup>th</sup> July 2024.

2. 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



3. 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), 24<sup>th</sup> Sept 2024

4. 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, 26<sup>th</sup> Sept 2024



5. 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 7<sup>th</sup> 2024.

6. 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 8<sup>th</sup> IEEE International Conference on Computational Systems & Information Technology for Sustainable Solutions (CSITSS), held from 7<sup>th</sup> to 9<sup>th</sup> November, 2024 at RV College of Engineering, Bangalore

7. 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 15<sup>th</sup> 2024



8. 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 28<sup>th</sup> 2024.

9. 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 30<sup>th</sup> 2024.



10. 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<sup>th</sup> December 2024



11. 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., 7<sup>th</sup> December 2024



12. 13th January 2025: Dr. Prema V, Associate Professor, EEE delivered a technical session on ‘Advancements in Power Electronics with Wide Band Gap Devices’ during a two-week Faculty Development Program at New Horizon College of Engineering, Bengaluru.

13. IEEE PELS BMSCE Student Branch chapter received Highest embership Award from IEEE PELS Bangalore chapter 22<sup>nd</sup> Feb 2025



14. Dr. Prema V, Associate Professor, Department of Electrical & Electronics Engg. received best faculty award for the year 2024 from IEEE PELS Bangalore chapter, 22<sup>nd</sup> February 2025.



15. Dr. Prema V Associate professor in the Department of Electrical and Electronics Engineering, Presented a paper titled "Dual Point Grounded Five-Level T-type Inverter for Photovoltaic Applications" in the 17th Edition of ECCE Asia IEEE conference, held from 11th–14th May 2025 at Hilton and Hilton Garden Inn, Embassy Manyata Business Park, Bengaluru.



16. Dr. Prema V delivered a technical talk and hands-on session during a one-week training course on 'Integrated Skills in Power Electronics and Embedded Systems' at National Institute of Technology, Calicut, Kerala on 23<sup>rd</sup> June 2025

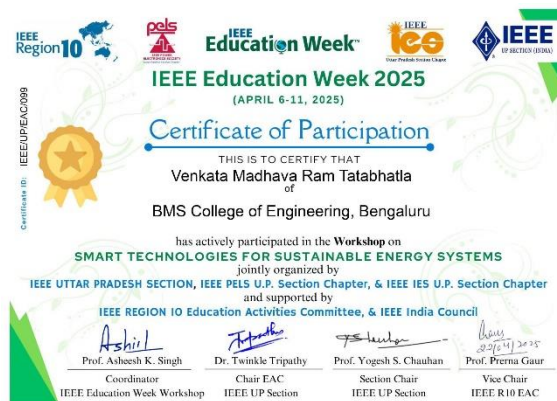


## Dr. Madhavaram T

1. **Dr. Madhavaram T**, Dr. Ravulakari Kalyan, and Dr. Nindra Sekhar were honored with the Silver Medal for their outstanding contributions to "FDP Activity in Teaching." This recognition was awarded as part of the Faculty Development Program (FDP) titled "**Empowering Educators: Leadership, Research, and Pedagogical Excellence.**"



2. **Dr. Venkata Madhavaram Tatabhatla** published an article in *International Journal of Modelling and Simulation*, Taylor and Francis (Q2) on 01.04.2025, Sekhar, N., Tatabhatla, V. M. R., & N, K. (2025). A novel single sensor maximum power point tracking algorithm for standalone photovoltaic systems. *International Journal of Modelling and Simulation*, 1–20. <https://doi.org/10.1080/02286203.2025.2485441>
3. **Dr. Venkata Madhavaram Tatabhatla** has attended a Workshop titled "Smart Technologies for Sustainable Energy Systems", jointly organized by IEEE Uttar Pradesh Section with support from IEEE Region 10 Educational Activities Committee and IEEE India Council, from April 6, 2024, to April 11, 2025.



4. **Dr. Venkata Madhavaram Tatabhatla** has attended the **MATLAB EXPO** on **22nd April 2025** at Radisson Blu, Marathahalli, Bengaluru, Karnataka 560037

## Dr. Ravulakari Kalyan

1. Dr. Ravulakari Kalyan have been awarded the Ph.D. degree from NIT Tiruchirapalli for the Academic year 2024.



2. Dr. Madhavaram T , **Dr. Ravulakari Kalyan**, and Dr. Nindra Sekhar were honored with the Silver Medal for their outstanding contributions to "FDP Activity in Teaching." This recognition was awarded as part of the Faculty Development Program (FDP) titled "**Empowering Educators: Leadership, Research, and Pedagogical Excellence.**"



## **Dr. Nindra Sekhar**

1. Dr. Nindra Sekhar were honored with the Silver Medal for their outstanding contributions to "FDP Activity in Teaching." This recognition was awarded as part of the Faculty Development Program (FDP) titled "**Empowering Educators: Leadership, Research, and Pedagogical Excellence.**"



2. **Dr. Nindra Sekhar** published an article in *International Journal of Modelling and Simulation*, Taylor and Francis (Q2) on 01.04.2025, Sekhar, N., Tatabhatla, V. M. R., & N, K. (2025). A novel single sensor maximum power point tracking algorithm for standalone photovoltaic systems. *International Journal of Modelling and Simulation*, 1–20. <https://doi.org/10.1080/02286203.2025.2485441>

3. Dr. Nindra Sekhar organized an insightful talk on "Electromagnetic Compatibility (EMC)" from Bosch Global Software Technologies Private Limited, Bangalore has been organised on 15th February 2025 at 10 am in EEE Department. The talk is scheduled from 10 to 11.15 am .