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 2019

1. Two days workshop on "IoT and Home Automation with Home Automation kits" was organized by Department of EEE, BMSCE in association with National Institute of Technology, Tiruchirappalli, Tamil Nadu at BMS college of Engineering, Bengaluru on 26th and 27th January 2019.

Activities in the month of February 2019

1. Department of EEE coordinated 16th International Conference on Remote Engineering and Virtual Instrumentation REV 2019 held at BMSCE between 3rd Feb and 6th Feb 2019.

2. Dr.C.Lakshminarayana, co-authored a paper titled "Design and Development of Solar Electric Hybrid Heated Bed Smart Electric Stove" during the Sixteenth International Conference on Remote Engineering and Virtual Instrumentation held at B.M.S.College of Engg between 3rd and 5th Feb 2019.

3. Dr.P.Meena, Prof, & HOD EEE, co-authored the following papers during the Sixteenth International Conference on Remote Engineering and Virtual Instrumentation held at B.M.S.College of Engg between 3rd and 5th Feb 2019.

I. Development of Internet of Things Platform and Its Application in Remote Monitoring and Control of Transformer Operation
II. Cyber-Physical Control and Virtual Instrumentation
III. Remote Monitoring and Control of Electrical Systems with Augmented Reality and Digital Twins

4. Dr.R.S.Geetha, co-authored a paper titled "Design and Analysis of Interleaved Buck-Boost KY Converter " during the Sixteenth International Conference on Remote Engineering and Virtual Instrumentation held at B.M.S.College of Engg between 3rd and 5th Feb 2019.

5. Soniya Agrawal and Chandasree Das presented a paper titled, "Switching studies on $Ge_{15}Te_{70}In_5Ag_{10}$ Thin films device for Phase Change Memory Applications" during the sixteenth international conference on remote engineering and virtual instrumentation held at B.M.S.College of Engg between 3rd and 5th Feb 2019.

6. Dr.Chandasree Das visited Alpha Design Technologies Limited for inspection of Project of M.Tech Student on 12/2/19.

7. Dr. Chandasree Das was one of the resource person from Centre of Excellence in Advanced materials research at BMSCE for Three Day workshop on Material Characterization and Processing organized by F E T M J P Rohilkhand University, Bareilly, UP from 14/2/19 to 16/2/19.

8. Department of EEE organized an interactive session regarding opportunities for students to join the Centre for project and research activities with Mr.Stefan Ipach, Manager of Research and Academic programs, Robert Bosch Centre for Cyber Physical Systems, IISc on 15/2/19.

9. Department of EEE organized an Industry Interaction promotion session from The Indian Society for Remote Engineering and Data Science (INSOREDS) on 16/2/19.

10. Dr.P.Meena presented the progress of the Industry sponsored project titled "Mixed Reality based content creation for Electrical Machines" during the Annual Technical Conference at R & D Centre of Dassault Systems, Pune on 21/2/19.

11. Dr.A.Usha co-authored a paper titled, "Design and implementation of multiple output interleaved Flyback converter with post regulator" presented at IEEE ICECCT 2019 held during 20 Feb - 22 Feb 2019, Coimbatore.

12. Department of EEE organized a hands on session on "Techniques to Inductor Design" by Alumnus Mr.Gyanendra (2018 Batch) for M.Tech Power Electronics and VI Sem EEE Studentson 22/2/19.

Activities in the month of March 2019

1. A meeting with the officials from University of West of Scotland was coordinated by Department of EEE for possible opportunities for collaboration on 18/3/19.

2. A meeting was scheduled with Distinguished Visiting INAE Prof. S.S. Murthy and Dr. IndraPrakash an expert from Scheider Electric for a discussion on collaborative projects on 27/3/19.

3. Department of EEE organised Teqip III sponsored two day workshop on "Power Electronics circuits and systems - design challenges and issues" in association with IEEE SSIT-ES on 29th and 30th March 2019

Activities in the month of April 2019

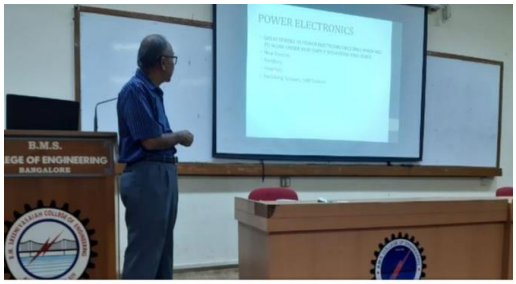
1. Prof.Umavathi.M published a paper titled "Investigation on solar-wind hybrid renewable energy system using single sepic converter" in the "National Conference on Advancement in Electrical Sciences" on 05.04.2019 at SNS College of Technology, Coimbatore.

2. Department of EEE organised Industrial Visit for 6th semester UG and 2nd semester PG students to Pavagada Solar Park, Tumkur District on 9/4/19.

3. Dr.Lakshminarayana, Dr.V.Champa and Dr.A.N.Nagashree were resource persons in the workshop on "Present Trends in Non-Conventional Practices in Power Engineering" conducted in the Electrical Engineering Department, FET –MJP Rohilkhand University, Bareilly on 15-16 April 2019.

4. Centum Electronics Ltd. was visited by faculties of Electrical Department and PG students on 22/4/19.

5. Department of EEE organised an expert lecture by Prof.S.S.Murthy, AICTE-INAE distinguished visiting faculty, on the topic" Electric Vehicles" for M.Tech (Power Electronics) students on 25/4/19.



6. Department of EEE organised an expert lecture by Prof.S.S.Murthy, AICTE-INAE distinguished visiting faculty, on the topic" Synchronous Machines" for UG (EEE) students on 25/4/19.

7. IEEE PES Student Chapter was inaugurated on 27/4/19.

8. MNV Memorial award was presented to Pranav Acharya of 8th semester, EEE on 27/4/2018.

Activities in the month of May 2019

1. Department of EEE organized a meeting with industry expert Mr. Anand for Relay Lab modifications on 4th May 2019.

2. Department of Electrical and Electronics had coordinated Ambedkar Jayanthi celebration on 10th May 2019.

3. Department of Electrical and Electronics had arranged curriculum design meeting with industry experts' alumnus, faculties and students on 11th may 2019.

4. A one day project competition was held at Department of Electrical and Electronics BMSCE ,on 18th May 2019 for selecting the best three projects of the department by Industry experts with TEQIP-III.

5. Dr. Chandasree Das published a paper in IEEE Transactions on Electron Devices titled as "Electrical Switching and Optical Bandgap Studies on Quaternary Ag-Doped Ge–Te–In Thin Films" on 26/2/19.

Activities in the month of June 2019

1. Dr. V Champa, faculty Department of Electrical and Electronics presented a technical paper entitled *"A novel Oil Based Dielectric Coolant and investigation on its Performance under High Frequencies* "at Annual Meeting of

the Electrostatics society of America, held at Rochester, NY, USA on 10th June 2019.

2. Dr. A. N. Nagashree, faculty Department of Electrical and Electronics presented a technical paper entitled "*Investigation on Dielectric properties of vegetable Seed Oils and Solid Insulations as Composite Insulation at High Frequencies* "at Annual Meeting of the Electrostatics society of America, held at Rochester, NY, USA on 10th June2019.

3. Dr. V Champa, and Dr. A N. Nagashree faculty Department of Electrical and Electronics have visited Rochester University , NY, USA on 10th June 2019.

4. Department of EEE organized TEQIP III sponsored two days workshop on "Product Management " For UG & PG students on 15th -16th June 2019 In Association with FET M.J.P Rohilkand University, IEEE-SSIT, IEEE-PES Student Chapter

5. Department of EEE organized TEQIP III sponsored one week workshop on "Remote Measuring Monitoring and Control of Electrical systems" in association with M.J.P. Rohilkhand University, Bareilly from 17th -21st June 2019.

Activities in the month of July 2019

1 Projects completed as an outcome of the value add course on Product Management conducted on June 15th and 16th 2019 was evaluated by industry experts experts on 6th July 2019.

2 Department of EEE, in association with department of Electronics and Telecommunication Engg & F. E.T M.J.P. Rohilkhand University, Bareilly jointly organized TEQIP III sponsored four day workshop on "Drone Technology" from 19th -24th July 2019.

3 Dr. V Champa faculty Department of Electrical and Electronics co-authored a paper along with her M.Tech scholar Harsha Raghvendra kodgi titled, "Comparative study between negative and positive Lou converter on reduction of THD" On 25th July in REVA University, Bangalore.

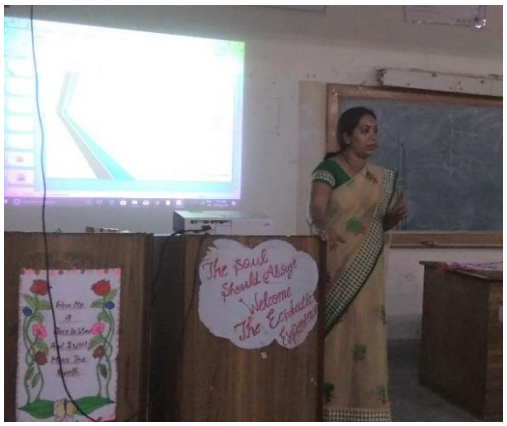
4 Dr. P. Meena HOD Department of Electrical and Electronics Engineering was one of the resource person in the workshop on "Signals, sensors &measurement system" Organized by EIE Department, BMSCE from 22nd to 26th july Under BMSCE Startup cell in association with & F. E.T M.J.P. Rohilkhand University, Bareilly.

5 Dr. R S. Geetha faculty Department of Electrical and Electronics have delivered a lecture on "Microprocessor and micro controllers in automation systems" on 31st July 2019 during faculty Development Program on "Deep Dive sessions on industrial automation system and controls"in Mechanical Department, BMSCE.

Activities in the month of August 2019

1. Mrs soniya Agrawal faculty Department of Electrical and Electronics was a

resource person for Basic Electrical Engineering in the Induction Program conducted by FET MJP Rohilkhand University, Bareilly, UP, on 5th august 2019.



2. Department of Electrical and Electronics organized a expert lecture on"Tips to deal with Challenges faced while pursuing Engineering Education ", byDr. Mala Venugopal", Consultant Psychologist as a part of EEE Freshmen Orientation on 16th and 17th Aug 2019.

3. Department of Electrical and Electronics arranged an Indusrial visit to "Nelmangala Substation"for 5th sem EEE students on 23rd August 2019.

Activities in the month of September 2019

1. The Dielectrics Lab in the Department of Electrical and Electronics was inaugurated on 5th September 2019 by Principal, BMSCE.

2. Dr.Praveen Kumar, Assistant Professor, Department of Electrical and Electronics published a Journal paper titled, "FPGA based design and HIL verification of a soft-core directional-OCR" in Electric Power Components and

Systems Journal (Impact Factor-0.888) that comes under Q2 category September-2019

3. Department of EEE organized various events as a part of Phase Shift 2019.
   1. Are you an Arduino Ninja?
   2. Plan P
   3. PSYCHIC'S SURVIVAL
   4. Workshop on design of PV panels
   5. Tech Junk
   6. EV TECH TALK
   7. Make-a-thon
   8. A Week To Peak

4. The faculty and staff team of department of EEE visited the lab set-up by Schneider Electric on the use of modern technologies at the Karnataka skill development and Centre of Excellence at New Horizon College of Engineering on 24th September 2019.

5. Chand Basha (H 1BM17EE403) 5th sem EEE represented college Kho Kho Team as Captain and won 2nd prize in CMRIT Tournament 27/09/2019. OtherTeam members are Deekshith.N P 1BM18EE018 Shashank 1BM18EE046

6. Abhijnya Nayak 3rd sem EEE, won the first prize(Gold medal) at the Women Weight Lifting competition (53 kg category) at the DASARA sports 2019-20.

Activities in the month of October 2019

1. Dr. Chandasree Das, faculty department of Electrical and Electronics attended a meeting at IISc on MEMS community chip under ISSS along with two faculties from ECE department and EEE students Ankit and Gurukiran from 5th sem Electrical and Electronics on 12th October 2019.

2. A demo of OPEL RT-Hardware in loop compatible with MATLAB and Demo on Numerical Relay was arranged in Department Electrical and Electronics on 17th October 2019.

3. Department of EEE organized one week workshop on "Introduction to Renewable Energy and Power Electronics "from 21st October to 25th October 2019 for 5th Sem students.Dr. K Padmavathi faculty department of Electrical and Electronics handled a session on "Modeling PV cells and its characteristics "on 21st October 2019.

4. Department of EEE organized one day workshop on Control System Design using MATLAB by Math Works on 22nd October 2019 faculties of ME and EEE department participated in the workshop.

5. Dr. P Meena HOD EEE and Dr. R. S. Geetha handled a session on "Introduction to PV simulator-

Demo of its working" for V Sem EEE and PG Power Electronics students on 23rd October 2019.

6. Dr. V. Champa and Dr. A N Nagashree faculty department of Electrical and Electronics handled a session on "Experimental Studies on PV Panels" to V Sem EE students on 24th October 2019.

7. The Dr. D.S. Ramakrishna award - 2019 function for the meritorious student of EEE was conducted on 25th Oct 2019.The award of Rs.10,000/- with a certificate was awarded to Nikhil Shanbogue of V sem EEE.

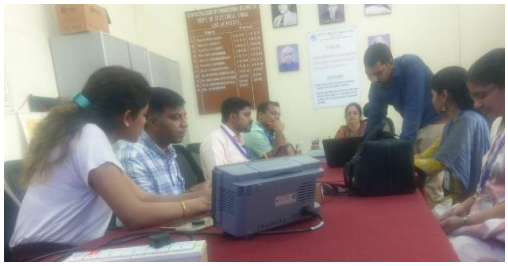
8. Dr. Arjun M faculty department of Electrical and Electronics Department handled a session on "Introduction to variable frequency power electronics drives" on 30th October 2019 for V Sem EE students.

9. Ms. Venissa Carol quadros , 7th sem student Department of Electrical and Electronics secured First rank in 800 meter run and 400 meter run (women) in VTU"s 22nd inter-collegiate Athletic meet held at guru Nanak Dev Engineering College, Bidar From 22nd to 25th October 2019.

Activities in the month of November 2019

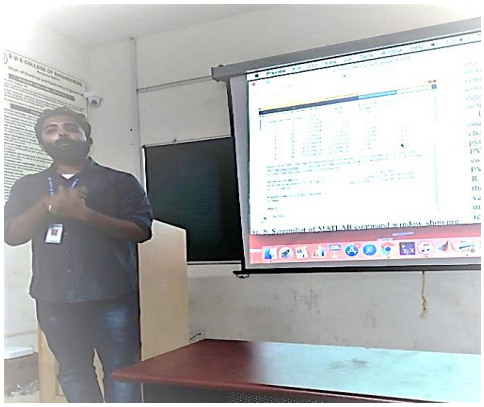
1. Dr. C Lakshminarayana Professor Department of EEE received the award for "Excellence in Higher Education, Engineering" in the 1st industry leadership conclave and Awards from Honorable justice Madras high court valinayagan and Petroleum minister Paneerselvam at Hotel Green Park, Chennai.

2. A demonstration of IoT kits was arranged for faculty in the EEE department from Key Sight Technologies on 13th Nov 2019



3. Abhishek Y N,M.Tech student with Dr. A N Nagashree faculty department of Electrical and Electronics presented a paper titled "Analytical comparison of Dual Active Bridge converter with Push Pull Converter for power transfer efficiency" in Global conference in advancement in technology Organized by Nagarjuna college of Engineering, Bangalore 18th -20th october 2019.

4. Sudha C Nashipur M tech student with Dr. Chandasree Das, faculty department of Electrical and Electronics presented a paper titled "An efficient AC/DC power supply unit design approach used in communication switches" in Global conference in advancement in technology Organized by Nagarjuna college of Engineering, Bangalore 18th -20th october 2019.
5. Department of EEE organized one day workshop for UG and PG students on "Technical writing". as a part of IEEE PES activity, on 22nd November 2019. Dr. Arjun faculty department of Electrical and Electronics was the resource person for the workshop.



6. Dr. P Meena HOD department of Electrical and Electronics attended Bangalore Tech Summit as an invitee from BMSCE on 18th November 2019.

7. Mr. Deepak Sethi and Mr. Vishwanath senior alumni of BMSCE demonstrated the working of sensors donated to BMSCE.on 22nd Nov 2019.

8. Dr. Umavathi M Assistant professor Department EEE completed her Phd Viva-Voce exam titled "Investigation on grid connected and self-governing solar –wind hybrid Energy system using modern converters" on 28th November 2019 at college of Engineering Guindy campus, Anna University Chennai.

9. Chaitanya L faculty EEE department along with 5th sem EE Students attended Bangalore Tech Summit on 29th November 2019.

Activities in the month of December 2019

1. Dr. C Lakshmi Narayana Professor Department of Electrical and Electronics delivered an expert lecture on "Optimization techniques for power system problems, AI Based algorithm for reactive power compensation in Deregulated Environment" in TEQIP_III sponsored one week faculty development program on" Recent research concept and key concepts in Electrical Engineering, at Delhi Technological University During December 2nd to 6th 2019.

2. Department of Electrical & Electronics Engineering organized A Distinguished technical talk on "Documenting Research ", by Dr. S.S.Murthy, Formerly Professor, IIT Delhi,INAE,DVP,for faculties, PG Students and Research Scholars on 2nd December 2019.

3. Dr. P Meena, HOD,EEE and Dr. K.Uma Rao RVCE, along with R. Venkataswamy research scholar presented a paper titled "Internet of Things based Metaheuristic Reliability Centered Maintenance of Distribution Transformers" in The International Conference on Sustainable Energy and Green Technology 2019 (SEGT 2019) held on 11-14 December 2019 in Bangkok. Elsevier Conference.
4. Consultancy work was taken up in Dielectrics lab –for MSRIT, Department of EEE by Dr. A N Nagashree and Dr. V Champa Associate Professors Department of EEE on 11th December 2019.

5. Department of EEE organized an exhibition of Project Posters VII sem EEE, and V sem self study on 10th Dec 2019.

6. Mukthanjali M tech student and Dr. P Meena, HOD department of Electrical and Electronics presented a paper titled "Investigations on IGBT Failures for a Solar Pump Variable Frequency Drive Application" in ICEECCOT-2019 Conference 13-14Tth December at GSSS Institute of Engineering & Technology for Women, Mysuru.

7. Dr. Arjun M Assistant Professor Department of Electrical and Electronics published a paper in IEEE transactions in circuit and System titled" Small Signal Model for PV Fed boost converter in Continuous and Discontinuous Conduction Modes"
8. Dr Chandasree Das with her Phd students Diptoshi Roy and, Jagannatha K. Published paper titled "Manifestation of intermediate phase in Cu doped Si-Te glasses" in Journal of Non-Crystalline Solids, Elsevier on 14th December 2019.