



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 2020

1. SAMMILANA-2020, Alumni Summit For Strategic Action Plans For Mentoring Mobilising Industry Collaborations Leveraging Alumni Expertise For Nurturing Skills In Advanced Technologies was arranged by the department of Electrical and electronics on 4th January 2020.



2. Department Of EEE team won the Inter-Departmental Staff Tennis Ball Cricket (M) Tournament being organized during January 2020.



3. Department of EEE organized Four Day Hands on Training on Linear Integrated Circuits Lab for Technical

Staff from 20th Jan 2020-23rd Jan. Dr. Arjun M & Dr. N S Suresh and Ms. Harini were the resource persons for the workshop.



4. Department of Electrical & Electronics Engg in Association with Higher Truth Consulting organized Two Day Workshop On "High Impact Presentation Skills program" for students From 23rd to January 24th, 2020 This was sponsored by 1986 Batch BMSCE-EEEAlumni



5. Department of EEE organized IV Sem Orientation program on 28th Jan 2020 which involved by Technical Talk on “ 5G- An introduction by Neelakantan. V, Principal Consultant, Infosys and “Essentials for Machine Learning”, Karthik Krishnan, Consultant, Business Intelligence Adobe India



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6. Department of Electrical & Electronics Engg organized Refresher Course on Fundamentals of HDL between 2.00pm and 4.00 pm on 29th January to 31st January 2020. Divya S assistant professor EEE was the resource person for the course.



Activities in the month of February 2020

1. VI sem EEE students' team "Vulcans" were shortlisted by the external jury arranged by STARTUP CELL, MHRD IIC B.M.S .C.E for selections into the Smart India Hackathon under the hardware category for the problem statement "Generalized Epileptic Seizure Alert System" on 4th feb 2020.
2. BMSCE,EEE alumna from 1981batch, Ms. Dharini Dixit from USA addressed the students on "Skills for the millennial for industry readiness", on 5th Feb 2020.



3. VIth semester B.E. Electrical and Electronics Engineering students and faculty visited Boruka Power plant on 7th Feb 2020.



4. Dr.P.MeenaHOD,EEE represented academia as a panelist on the



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discussion "Visualizing IoT solutions for smart automation" on 14th Feb 2020 during the Mitsubishi Electric Cup held at B.M.S.College of Engineering.



5. An expert talk on emerging technologies in the power engineering domain was arranged for VI sem EEE students by Mr. Prasad Ranga, entrepreneur on 15th Feb at 11.00am.



6. Second semester M.Tech Power Electronics students and faculty visited Shivanasamudra solar Power plant and Shimsha Hydel power plant on 18th Feb 2020.



7. 8th semester students from EEE department, Team - PYRATES (Aayush Bafna, Jatin, Chethan and Arjun) have won Third place in the National level MAKE-A-THON organized by Shri Shankaracharya Technical Campus (SSTC), Bhilai, Chhattisgarh held on 27th and 28th Jan 2020. Won Cash prize of Rs.10,000/- .
8. MoU for Long term association with BMSCE for training and development of faculty and students in 'Data Analytics and Data Science' with GALE partners with presence in New York, Toronto, Singapore was executed on 25th Feb 2020 initiated and to be co-ordinated by department of EEE.
9. Department of EEE organized Lecture by Prof S S Murthy INAE distinguished Visiting Professor on "BLDC Motor "on 28th & 29th Feb 2020.



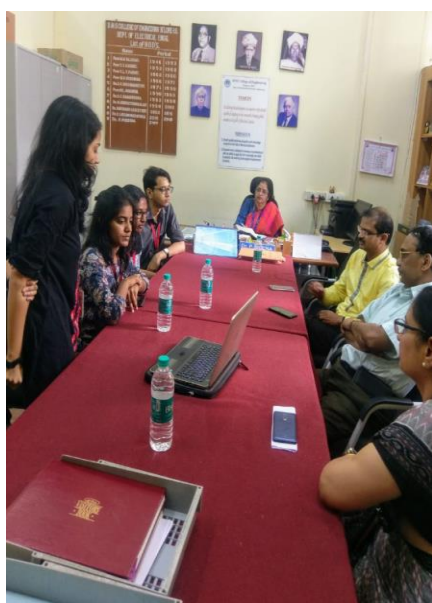
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10. EEE, VIII th sem students part of the winning team at the VTU Kho-Kho competition on 5th Feb 2020.



Activities in the month of March 2020



1. Meeting held on 5th March 2020 with Mr. Muralidharan Founder of a renowned start up Yogify for collaboration with EEE department for the project titled “Generalized Epileptic Seizure Alert System”.
2. A successful along with HoD, EEE for collaboration with the police department for the 8th sem EEE project titled " Design and development of a Black Box for Four wheelers". The project was encouraged and supporting information for the project shared.
3. On 24th & 26th March 2020, an online meeting of HoDs EE,EC,IS & CS was held with the founders of Parjanya Solutions a Start Up, co-ordinated by HoD,EE for Projects in the area of Augmented reality,Digital Communication and Embedded systems.
4. BMSCE IEEE Power and Energy Society Students Chapter,organized online SudoCode 2020 from March 19-25, 2020.

Activities in the month of April 2020

1. Dr. P.Meena, HOD, EEE & Mrs. Divya S, Assistant Professor, Dept. of EEE, BMSCE conducted an Online 'Workshop on Data Analytics', on 24th April 2020 from 12 PM to 1.30 PM using the Goto Meeting platform. Resource person was Mr. Gaurav Ganerwal, Director, Analytics and Strategy, GALE Creative Agency, Bengaluru. Around



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44 students from EEE, TCE and ISE had participated in the event.

2. BMSCE IEEE PES Students Chapter celebrated IEEE PES day on 27th April 2020.

List of events Shutter up - 10 participants .

Anime cyber quiz challenge - 32 participants

Skill-up with Skill-X Webinar - 33 participants

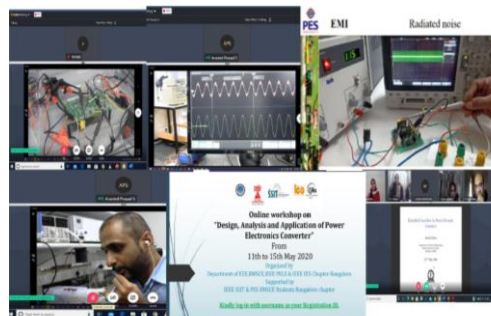
Hourglass - 35 participants

Musical eve with Ninaad- 40 minutes.

Activities in the month of May 2020

1. Dr. C. Lakshminarayana, Prof. Dept. of EEE & Chair IEEE SSIT & Dr. R S Geetha Prof. Dept. of EEE & Secretary IEEE SSIT Organized online AGM for IEEE SSIT ES joint chapter, Bangalore section on 2nd May 2020.
2. Dr. P.Meena, HOD Dept. of EEE and Prof. Divya S, Assistant Professor Dept. of EEE organized Online 'Workshop on Data Analytics', Resource person was Mr. Gaurav Ganeriwal, Director, Analytics and Strategy, GALE Creative Agency, Bengaluru, 4th May 2020 , Around 33 students from EEE, TCE and ISE had participated in the event.
3. Dr. A Usha, Soniya Agrawal, Chaitanya L and Dr. Prema, Dept. of EEE, BMSCE Organised one-week National Level online workshop on “Design, Analysis and Application of Power Electronics Converter” from 11th May to 15th May 2020.Nearly 186 Participants across India

successfully participated in the workshop.



4. Dr. R S Geetha Prof. Dept. of EEE Invited as chief guest for Two days workshop on "Deep Learning" organised at Nagarjuna College of Engineering and Technology on 25th May 2020.



5. Dr. Suresh N S Assistant Professor Dept. Of EEE Filed a patent on “Zero Powered Motor” registered, File number: 202041021841. Filed on 25/5/2020.
6. Dr. Suresh N S Assistant Professor Dept. Of EEE Has contributed in the chapter “Smart Grid Pilot Project in India” of the book titled, "Integration of Renewable Energy Sources with Smart Grid" in the month of May 2020.



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studies on Si₂₀Te₈₀-xSn_x ($1 \leq x \leq 7$) chalcogenide bulk glasses”

Activities in the month of June 2020

1. Dr. Suresh N.S Assistant Professor, EEE has contributed for the Book chapter “Smart Grid in Indian Scenario”. In The book titled, "Smart Grid and Micro-grids – Technology Evolution”. By Scrivener (Wiley) publication. Date : Jun 1st, 2020.
2. Dr. Padmavathi K. Professor,EEE, delivered a talk on Research opportunities and recent research in Solar PV technology on 10-06-2020 in a 05 days FDP organized by Panimalar Institute of Technology, Chennai.



3. .Dr. Chandasree Das , Associate professor ,Dept. of EEE along with her Phd students Jagannatha K.B. and , Diptoshi Roy, Published a paper in Journal of Non-Crystalline Solids Elsevier, Titled “Electrical switching and crystalline peak

4. Dr. Suresh N.S Assistant Professor, EEE has filed Indian patent, Title: “Mind controlled Drone: using Brainwaves and deep learning to control drone through thoughts”. File number: 202041024955; Date : 14/06/2020
5. Dr.Umavathi M, Assistant Professor Dep. EEE,Published a Paper Titled : "Isolated Bidirectional DC-DC Converter for UPS Application" in International E-Conference on recent trends in Electronics, Computing and Communication Engineering (ICRTECC 2020), Saveetha School of Engineering, Chennai On 16th June 2020
6. Dr. Suresh N.S Assistant Professor, EEE has given webinar talk on the topic “Innovative projects for real time application” conducted by the department of EEE of St Mother Theresa engineering college, Vagaikulam, Thoothukudi. On Date: 17th June 2020



<https://www.youtube.com/watch?v=rIFP4j8U61Y&t=2430s>



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7. Dr. P.Meena Prof. & HOD, EEE delivered a talk on "Curriculum design based on Active and Experiential Learning "on 25th June 2020 in the 2 day webinar series on "Enhancement of curriculum through CDIO"organized by start-up cell and IIC BMSCE.



8. Dr. Padmavathi K. Professor,EEE, acted as Session-1 chair on 27-06-2020 in AICTE sponsored Fifth international conference ICIETET'20



Activities in the month of July 2020

1. Dr. R. S Geetha Professor EEE & Dr. A N Nagashree Associate prof. EEE with M.Tech students Sowmya have published a Paper Titled: "*Comparison of Voltage Stress Across The MOSFET Switch Of A Fly back Converter With Various Snubbers*" in International Journal of Innovative Science and Research Technology(IJISRT),ISSN No :- 2456-2165 Impact Factor :- 6.253.On 1st July 2020

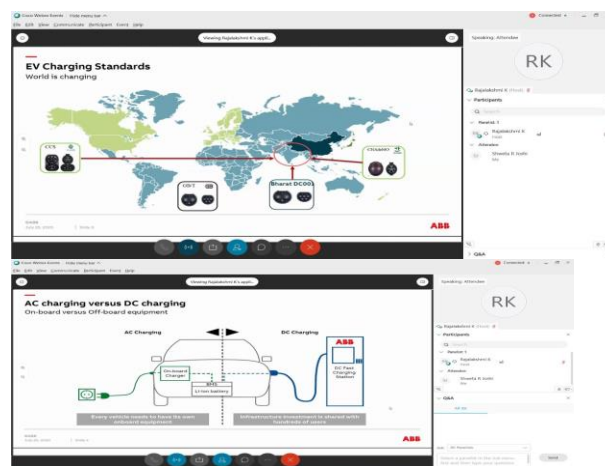


2. Dr. A N Nagashree Associate prof. EEE with her Mtech students Shreevara S Hegde,have published a Paper Title"*Improvement of Power Quality And Speed Regulation Of A Bldc Motor Drive Using An Interleaved Converter*" in International Journal of Engineering Applied Sciences and Technology, 2020 Vol. 5, Issue 2, ISSN No. 2455-2143, Pages 149-155.On 1st July 2020.



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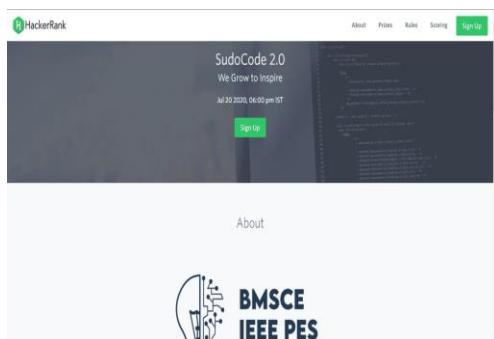
3. Dr. Prema V- delivered lecture sessions through online on the topics “Artificial Neural Networks – Concepts”, “ANN Applications” and Hands-on-sessions on “Fuzzy Logic using MATLAB” and “ANN using MATLAB” on 07-07-2020 and 08-07-2020 in the Faculty Development Programme on “AI Techniques to Electrical Engineering” held during 06th – 10th July 2020, organized by UGC-HRDC, JNTUH, Hyderabad.
4. Dr.P.Meena, Prof. & HOD,EEE along with her M.Tech student has published the paper titled,”*Methodology for testing the Electromagnetic Compatibility of a Three phase inverter.*”International Journal of Engineering Applied Sciences and Technology,IJEAST, DOI- 10.33564, July,2020.
5. Dr.P.Meena, Prof. & HOD,EEE along with her M.Tech student has published the paper titled,”*Implementation of Neuro-Fuzzy Controller for a PMSM drive for water pumping Applications*”,International Journal of Engineering Applied Sciences and Technology,IJEAST,DOI: 10.33564,July 2020
6. Dr. S Pradeepa Professor EEE with her PhD student Mr. Vishwateja B has published a paper “*Optimization And Modelling of Control Algorithm For Brushless Dc Motor In-Situ of DC Microgrid* ” in International Journal of Engineering Applied Sciences and Technology.DOI : 10.33564. IJEAST - 8516 on 20th July 2020.
7. Dr. S Pradeepa Professor EEE with her PhD student Ms. Pratibha Katti has published a paper “*Small Signal Model for PV fed Buck Converter in Continuous and Discontinuous Conduction modes*” in International journal of Engineering Applied Sciences and Technology.DOI : 10.33564 IJEAST -8506. 20th July 2020.
8. BMSCE IEEE PES in collaboration with IEEE PES Reva University has organized a Webinar on Fast charging trends in EVs Date of event: 25th July, No of participants were 50.



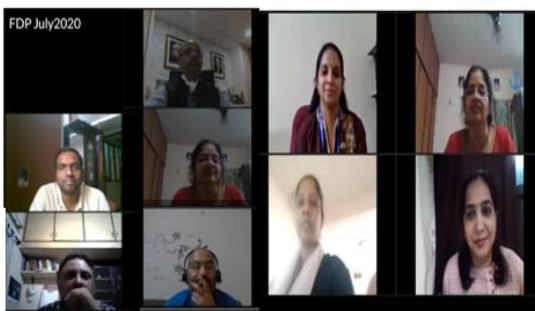


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9. BMSCE IEEE PES has organized an event topic: Sudo Code 2.0 , from 20th-24th July No of participants were 41.



10. Dr. Usha A, Dr. Prema V and Dr. Soniya Agrawal- Organised a national level hands-on workshop on "*Simulation Tools for Power Converters and Applications*" during 27th to 31st July 2020, co-organised by IEEE-PELS, IES and SSIT Bangalore chapters.



Activities in the month of August 2020

1. Dr. C lakshminarayana Prof. EEE has been Elected as Editorial Board member-Consulting Editor by Journal Of Engineering Technological Research (JETE) On August 1st, 2020 Kuala Lumpur Malaysia.
2. Dr. C lakshminarayana Prof. EEE has been awarded by the governing council of SIESR as Fellow (Life member) On August 1st, 2020 Kuala Lumpur Malaysia.
3. Dr. C lakshminarayana Prof. EEE along with his Mtech student has published a paper titled "Seven level modular multilevel converter with FFT analysis" International Journal of Engineering Applied Sciences and Technology. (Unpaid) DOI : 10.33564/ISSN:2455-2143 August 2020.
4. Dr. A Usha Associate Prof. EEE with her PhD student Suma Umesh, has published a paper titled "Ni-Substituted ZnO carbonaceous composite prepared by inert-ambient pyrolysis for high-selective SO₂ sensing" at the International Conference on Accelerating Innovations in Material Science AIMS - 2020 which is held ONLINE from 4th-7th August' 2020, BMS Institute of Technology & Management, Bengaluru, India.
5. Dr. A Usha Associate Prof. EEE with her Mtech student



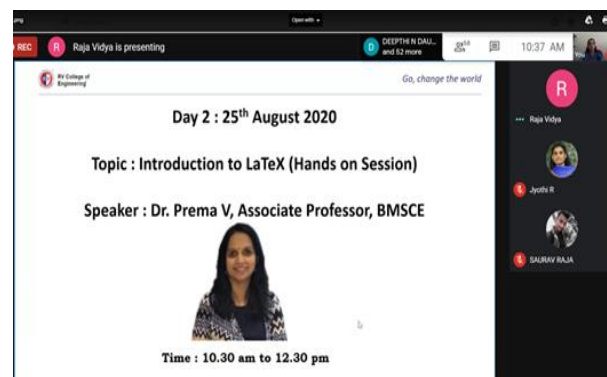
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Shivabhagya M S, has published a paper titled, "Design and Development of Digitally Controlled Programmable DC to DC Converter" at the International Journal of Engineering Science Technology and Research (IJESTR), the Volume 5 and Issue 4, on August 2020.

6. Dr. A N Nagashree Associate prof. EEE with her Mtech students Shreevara S Hegde, have published a Paper Title "Enhancement of Power Quality and Speed Regulation of a BLDC Motor Drive using Water Cycle Algorithm", Volume 5, Issue 8, August – 2020 International Journal of Innovative Science and Research Technology ISSN No:- 2456-2165.
7. Dr. P.Meena, Dr.R.S Geetha, Dr. Prema V, Ms. Divya S, Ms. Chaitanya.L and 20 UG and 2 PG Students of Department of EEE were assigned the "Development of Virtual Labs in Electrical Domain using 3d Experience platform", project under the scheme of "Internship Opportunities for Students and Faculty" by Dassault Systemes on 24th August 2020.
8. Dr. A N Nagashree Associate prof. EEE with her 8th sem EEE (UG) project students H B Shylashree, Monika Divakar and Neha R Navada presented a paper titled "

Density based smart traffic light system for emergency vehicles", in 1st international conference on Innovations in clean Energy Technology - ICET-2020 held at Maulana Azad National institute of technology, Bhopal (Energy Centre) on 27-28 August 2020.

9. Dr. Prema V delivered 2 days hand-on sessions on "Introduction and advanced skills using Latex" for the workshop on "Technical Report Writing and LaTeX" conducted by RV College of Engineering, Bangalore on 25th and 26th August 2020.



10. A Webinar on "Sociological, Psychological Issues and Possible Remedies during COVID-19" was organized by IEEE SSIT ES Joint Bangalore chapter in collaboration with Dept. of EEE, B.M.S.C.E on 29th August 2020.



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11. Student Congress-2020, a flagship event of IEEE PES Bangalore Chapter hosted by BMSCE during 28-30 August 2020. Following Events has been conducted during the

- Event: Keynote 1
Date: 28/08/2020
Time: 10.30 AM
No. of participants: 50

Speaker: Atheeth Shivalinga Prasad
- Event: Keynote 2
Date: 29/08/2020
Time: 2.00 PM
No. of participants: 50

Speaker: Sarthak Goyal
- Event: Panel Discussion 1
Date: 28/08/2020
Time: 3.00 PM
No. of participants: 45

Speakers: Dr. Ashwini Appaji,

Dr. D.N.Sujatha, Dr. Kavitha Sooda, Spoorthy U

- Event: Panel Discussion
Date: 29/08/2020
Time: 4.00 PM
No. of participants: 45

Speakers: Rajashekhar S, Udaykumar Birje, Parag Thakre, Arun Narayan, Ananth Srinivasan, Amit Jain

- Event: Workshop
Date: 28/08/2020
Time: 5.00 PM
No. of participants: 20

Speaker: Rahul Kolle

- Event: Interactive quiz
Date: 30/08/2020
Time: 5.30 PM
No. of participants: 80

- Event name: Ideathon
Date : 28th to 30th Aug

No of participants : 45 (21 teams)

- Final evaluation Judges :
-Mr Muralidhar Somishetty (Wellnessys technologies Pvt Ltd)
-Mr Vivek Singhal (CellStrat)
-Mr Gowtham N (IEEE Bangalore Section)

Time : Final evaluation happened on 30th Aug from 3:00 to 5:00 PM

Activities in the month of August 2020



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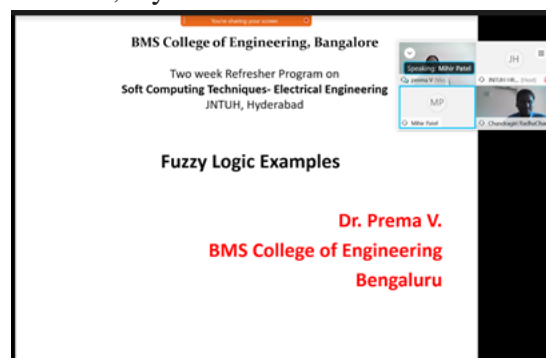
Activities in the month of September 2020.

1. Divya S, Assistant Professor EEE & UG students, published a research paper titled “Modeling and Simulation of a Battery charging circuit for Electric Vehicles using Z-source converter” in the International Journal of Engineering Applied Sciences and Technology, IJEAST. 25th September 2020.
2. Dr. R.S.Geetha Prof. EEE & PG students Soumya published a paper titled “ Design and implementation of multiple output forward converter with Mag-amp and LDO as post regulators for space application” in the International Journal of Engineering, Science and Technology. Vol. 12, No. 3, 2020,pp.43-56”,DOI:<http://dx.doi.org/10.4314/ijest.v12i3.5> on 24th August, 2020.
3. Dr. Chandasree Das & PG student Deepak G , Published a paper titled” Active Discharge Of DC Link Capacitor In SRM Drive For Electric Vehicle Application” International Journal of Engineering Applied Sciences and Technology, 2020.

Activities in the month of October 2020.

1. Dr. Prema V Associate Prof. EEE has been invited for expert sessions

through online on the topics “Artificial Neural Networks – Concepts”, “ANN Applications “ and Hands-on-sessions on “Fuzzy Logic using MATLAB” and “ANN using MATLAB” on 07-10-2020 and 08-10-2020 in the two weeks refresher Programme on “Soft Computing Techniques- Electrical Engineering” during 05th – 16th October 2020, UGC-HRDC, JNTUH, Hyderabad.



2. IEEE PES SB has organized the event : “Circuit hunt” 80 students have participated in the event on 11th October 2020.
3. IEEE PES SB has organized the event : “Crossword ” 60 Students have participated in the event on 12th October 2020.
4. Dr. A Usha Associate Prof. EEE and PG student Ramkumar M R published a paper titled”Design and Development of Multiple Stage High Efficiency Synchronous Buck Converter System “ at Fifth International Conference on Advances in Recent Technologies in Electrical and Electronics –



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ARTEE2020 on Oct 29-30, 2020;
Bhopal, India.

Activities in the month of November 2020.

1. **November1, 2020:** Dr. A Usha , Faculty EEE and PG student Ramkumar M R published a paper titled "Design and Development of Multiple Stage High Efficiency Synchronous Buck Converter System " at **Fifth International Conference on Advances in Recent Technologies in Electrical and Electronics – ARTEE2020 on Oct 29-30, 2020; Bhopal, India.**
2. **November 1, 2020:** Dr. R.S. Geetha, Faculty EEE and PG student Gangambe S published a paper titled "Voltage Oriented Control of Two Level and Three Level Neutral Point Clamped PWM Rectifiers " at **Fifth International Conference on Advances in Recent Technologies in Electrical and Electronics – ARTEE2020 on Oct 29-30, 2020; Bhopal, India.**
3. **November 8th 2020:-**IEEE Power and Energy Society BMSCE Student chapter organized "**Energitica**" , a math and science based quiz..
4. **November 15 th 2020:-**IEEE Power and Energy Society BMSCE Student chapter organized in collaboration with Bolivian student chapter on a Webinar on "**computer vision and AI for new age automotives**" , the Speaker was Dr Nagesh Poojary, Head of Computer Vision - Bangalore at Continental India Ltd..
5. **November 20th 2020: Dassault Systemes La Fondation sponsored Project** titled, "**Innovative Methodology for content development facilitating effective study of Electrical Machines using Mixed Reality**", executed by students, Gurukiran Prabhu, of EE, Kruthik.H.M of ME, mentored by Dr.P.Meena, Prof.& HOD, EE and Prof. Sreekanth Nagar.V Asst. Prof, ME was chosen amongst 10 representative projects to be presented during Annual Day worldwide inauguration Conference on 20th Nov 2020.
6. **November 22nd 2020:-**IEEE Power and Energy Society BMSCE Student chapter in collaboration with IEDC BIT organized Entrepreneurship event "**Zero to one: Making ideas happen**" "Speakers of the event were Mr. Siddharth Nair Founder, Xfinito Biodesign and Mr. Atheeth S Prasad, Research scholar IISc Bangalore.
7. **November 23 rd 2020:-** Dr.A.N.Nagashree & Dr.V.Champa Faculty EEE received Indian Patent grant Titled: "**A process to extract**



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liquid dielectric coolant from the sesame oil” with Patent No: 351971.

8. **November 24th 2020:-**
Dr.V.Champa & Dr.A.N.Ngashree
Faculty EEE Received Indian Patent
grant , topic Titled: **“A process to
extract liquid dielectric coolant
from the Rice bran oil”** with Patent
No: 352034.

Activities in the month of December 2020.

1. **December 5:-** Dr. P.Meena, Prof. & HOD, Divya S, Asst. Prof. and Chaitanya L, Asst. Prof., Dept. of EEE, organised an online expert talk by EEE alumnus on the topic **“PLANNING FOR THE NEXT GENERATION ENERGY GRID-KEY INSIGHTS”** on 5th Dec 2020, Saturday from 9.30 AM to 10.30 AM.

BMS COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRICAL AND ELECTRONICS
Presents
ONLINE EXPERT LECTURE
ON
Planning for the next generation energy grid: key insights
PATRONS
Dr.B.V. RAVISHANKAR, PRINCIPAL, BMSCE
Dr.S.MURALIDHARA, VICE PRINCIPAL, BMSCE
DATE:
5th December 2020
TIME:
FROM 9:30AM to 10:30 AM
All are cordially invited

EXPERT SPEAKER

Dr.Mandhir Sahni
Principal Engineer
EERPLUS, Inc - Energizing Next Generation Solutions

COORDINATORS
Dr. P.MEENA
Professor & HOD
Dept.of EEE
Prof.DIVYA S
Assistant Professor
Dept.of EEE
Prof.CHAITANYA L
Assistant Professor
Dept.of EEE

2. **December 11:-** Dr. Dipesh Kumar, Assistant Professor, Dept. of EEE was invited as a resource person to deliver a talk and hands-on session in the AICTE Sponsored Two-Week Faculty Development Program on **“Renewable Energy Forecasting Indian Scenario and Future Prospects”** from December 07-19, 2020 organized by Sir M Visvesvaraya Institute of Technology, Bengaluru.



3. **December 15:-** Dr. Prema V., received a fund of Rs. 9.5L for the research project titled **“Development of a Novel, cost effective Wind/PV micro grid for Tribal Community Living-Phase1”**, from Dassault Systemes-La Fondation
4. **December 18:-** Dr. Prema V, Associate Prof. EEE has been invited for expert sessions through



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online on the topics “Fundamentals of MATLAB” on 18th Dec 2020 in the 2-week online workshop on “MATLAB in interdisciplinary Engineering and Research conducted by Vimal Jyothi Engineering College, Kerala during 14th Dec to 31st Dec 2020.

5. **December 24:-** Dr. C. Laxminarayana, Prof. EEE and his project students have been sponsored Rs. 50,000/- by **Energy Conservation & Energy Efficiency Section, Karnataka Renewable Energy Development Limited (KREDL)** to carry the project on Energy Conservation & Energy Efficiency or IoT.
6. Dr. R.S.Geetha, Professor. EEE delivered online expert lecture on “Modelling of Electrical and Electronics systems using MATLAB Simulink” on 17th Dec 2020 in the 2-week online workshop on “MATLAB in interdisciplinary Engineering and Research conducted by Vimal Jyothi Engineering College, Kerala during 14th Dec to 31st Dec 2020.
7. Dept of EEE arranged a webinar on “Building AI on Low Power ARM Cortex Microcontrollers for IOT Applications” for EEE students on 31/12/2020. The resource person was Mr. Rohit Prajapati, CTO, DigiToad Technologies, Bangalore.





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