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REPORT ON COLLEGE ACTIVITIES – JULY 2022

July 1st, 2022

- ❖ The Department of Electronics and Instrumentation Engineering organised project exhibition, “PRASHAMSA” sponsored by Klok Systems. The projects were evaluated by a panel of judges, Sri.Renukprasad, Business Mentor & Advisor, Senior Member, ISA Bangalore Section, Smt.Poornima Sathya Narayanan, Director at Central Parking Services, B'luru, Sri. Kiran A R, Technical director, iTriangle Infotech Pvt. Ltd., B'luru and Sri.Alok Tikoo, iTriangle Infotech Pvt Ltd, B'luru. Three best projects were awarded prizes.
- ❖ ‘Protocol’, the department club of CSE, organized a talk on ‘placements and career after graduation’ by two alumni of BMSCE, Mr. Sarthak Goyal and Mr. Rahul Kolle.



- ❖ Dr. S. M. Suresh, Professor in the Department of Mechanical Engineering was invited as an expert for the panel discussion on ‘Innovative Approaches for Sustainable Quality Education in HEIs’ at Hindusthan College of Engineering & Technology, Coimbatore.

- ❖ Dr. Murugendrappa M V, Associate Professor and Head, Department of Physics published a research paper titled, “Effect on electrical and dielectric properties of Te nanoparticle-doped PVA composite” in Journal of Materials Science: Materials in Electronics (2022), 33, 17382–17394 (2022). Springer Publishers, Q2 journal with impact factor 2.779,
<https://doi.org/10.1007/s10854-022-08618-7>
- ❖ Dr. K P Lakshmi, Professor in the Department of Electronics and Communication Engineering along with Research Scholar, Ms.Pruthvija B, published a research paper titled “Copper Chalcogenides for Rechargeable Batteries” in Science Direct-Materials Today Proceedings.
- ❖ Dr. Veena M B, Associate Professor in the Department of Electronics and Communication Engineering along with Ms. Aishwarya N, student of M.Tech, Electronics, published a research paper titled, “Swatha-Shwasa: Utility of Deep Learning for Diagnosis of Common Lung Pathologies from Chest X-Rays” in the International Journal of Early Childhood Special Education.



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July 2nd, 2022

- ❖ ‘SAMYAMA’, an Alumni meet for the first batch of students of the department of Instrumentation Engg., was organized. The Alumni interacted with the current IV and VI semester students in the department regarding roadmap, early identification of interests and their experiences in the field and expressed desire for continued fruitful interaction.



- ❖ Dr. Jyothi S Nayak, Professor and Head, Department of CSE conducted a keynote session on “Latest Trends and Developments on Artificial Intelligence” at the National Conference on Science, Engineering & Management “NCSEM-2K22” organised by Oxford College of Engineering, Bangalore.



- ❖ Dr. R. V. Ranganath, Professor in the department of civil Engineering delivered a lecture on the topic, "Behaviour of concrete in aggressive environments- Influence of Flyash and RHA" in the National conference, “Recent Advances in Civil Engineering” organised by Sharanbasava University, Kalburgi at University campus Kalburgi, Karnataka.
- ❖ One day National conference on ‘Additive Manufacturing in Aerospace, Defence (AMAD-2022) & Other Engineering Sectors’ was co-hosted by the Department of Mechanical Engineering of the college in association with National Design and Research Forum (NDRF) and the Institution of Engineers (India).
- ❖ Dr. H. S. Jagadeesh, Professor, in the department of Civil Engineering delivered a lecture in the National conference, "Recent Advances in Civil Engineering" organised by Sharanbasava University, Kalburgi at University campus Kalburgi, Karnataka.
- ❖ Dr. R. Kalpana, Associate Professor in the Department of Medical Electronics conducted a Keynote Session on "Challenges and opportunities in biomedical Applications in the National conference, "NCSEM 2022” organized by Oxford college of Engineering, Bengaluru.



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- ❖ Ms. Nikhithasri Dara, student of 4th semester, A section, Department of Machine Learning secured 1st place in Badminton-Women's Doubles category conducted from 2nd July, 2022 to 3rd July, 2022, at IISC -Rhapsody.
- ❖ Dr. Rajanikanth K.N., Associate Professor in the Department of Electronics and Communication Engineering conducted a session titled, "Application of MEMS Devices in the Avionic Space" as part of value added course on Design and Simulation of MEMS Devices for the I & II Year students of Dept. Of ECE conducted during 20th June – 2nd July 2022.

July 4th, 2022

- ❖ Dr. Jayagowri R., Associate Professor in the Department of Electronics and Communication Engineering has been granted patent for an invention titled, "A Scan Architecture and a Method of Scan Based Testing to Reduce Shift Operations Thereby Reducing Shift Power during Scan Testing".
- ❖ Department of Electronics and Communication Engineering organized valedictory function of the Value-added Course titled, "Design and Simulation of MEMS Devices" conducted during 20th June to 2nd July 2022. The course was

coordinated by Dr. M. Anantha Sunil and Dr. Rajath Vasudevamurthy, Faculty members in the department.



- ❖ A Technical interaction with Dr. Issac, Former Scientist, National Aerospace Laboratories, Rtd. Captain Sri. Jayanth and faculty & researchers in Department of Mechanical Engineering was facilitated for possible collaborative works on Hydrogen combustion engines area.



July 5th, 2022

- ❖ As a social responsibility, the students of Department of Machine Learning actively engaged in training the students of



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National High School, Basavanagudi & helped the school students to enhance their knowledge in the field of Artificial Intelligence.



- ❖ Dr. Rajeshwari Hegde, Professor in the department of Electronics and Telecommunication Engineering received a certificate of appreciation for her contribution as a reviewer in the 8th International conference on Electronics, Computing and Communication Technologies, IEEE CONECCT, organized by IEEE Bangalore section.

- ❖ Dr. Rajeshwari Hegde, Professor in the department of Electronics and Telecommunication Engineering received a certificate from Heartfulness Institute for completing the basic requirements, including practical and theoretical coursework to serve as a Heartfulness Trainer.

July 7th, 2022

- ❖ Mr. Shravan A. Kanalli, research scholar in the department of Civil Engineering was awarded Ph.D Degree under the guidance of Dr. Sureka Naagesh, Professor and co-guided by Dr. K. Ganesh, Professor in the department of Civil Engg.
- ❖ Students of second semester MCA participated in outdoor game Lagori, which was coordinated by Cultural Club of department of Computer Applications.



July 8th, 2022

- ❖ Dr C. T. Puttaswamy, Professor in the department of Chemical Engineering delivered an expert talk (online) on '*Single Use Plastic & its adverse effect on our Ecological system and why we need to discourage its use*' for Bharat Petroleum Ltd. employees.



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- ❖ Department of Industrial Engineering and Management conducted Project Open Day - Exhibition of Technical Projects by Final Year Students. Industry experts, Sri.Nataraj H. S., Director Operations at Schueco India Limited and BMS Alumni Ms. Pavamana Bharathi, Manager-Supply Chain Performance, Lean Office Specialist at Schneider Electric were invited to witness the event and encourage the students.



- ❖ Dr. Ugrasen G., Assistant Professor in the Department of Mechanical Engineering chaired a session in the 6th International Conference on “Sustainable Materials and Recent Trends in Mechanical Engineering (AMARTME-2022)” organized at Reva University, Bengaluru.

- ❖ Dr. Vijayalakshmi K., Professor in the Dept. of Medical Electronics published 2 Papers and got Best Paper award (Industry) for the paper “Early detection of Ischaemia Through High-Frequency ECGs: The role of Medical-Grade Wearables for Chest Pain Triages” at the 8th International Conference on Electronics, Computing and Communication Technologies, IEEE CONECCT (July 08-10, 2022) organized by IEEE Bangalore Section.

July 9th, 2022

- ❖ Mr. Pradeep H. N., Research Scholar in the department of Chemical Engineering, under the guidance of Dr. Chetan A. Nayak, Assistant Professor, Chemical Engineering successfully defended his doctoral thesis titled, “*Microencapsulation of C-Phycocyanin by Microfluidics*”



- ❖ Department of Electrical and Electronics Engineering organized, ‘ANVESH’, Final Year UG Project Competition, sponsored by Centum Electronics Limited & ROHM Semiconductors India Pvt. Ltd. The winners were felicitated.



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July 10th, 2022

- ❖ Dr. Rajeshwari Hegde, Professor in the department of Electronics and Telecommunication Engineering chaired a session in the IEEE CONECCT 2022.

July 11th, 2022

- ❖ The students of 4th semester BE (Civil Engg) B section accompanied by Dr. Priya V., Assistant Professor in the department of Civil Engineering visited T K Halli water treatment plant.



- ❖ The Institutional Social Responsibility Cell distributed more than 3000 books(text books/study material) to government PU College, Kolar. The books were collected as part of book collection drive conducted

by BMSCE Institutional Social Responsibility Cell.



July 12th, 2022

- ❖ Dr. Murugendrappa M. V., Associate Professor and Head, Department of Physics published a research paper titled “Studies on room-temperature acetone sensing properties of ZnCo₂O₄/PPy and MnCo₂O₄/PPy nanocomposites for diabetes diagnosis” in Applied Physics A, 128, Article number: 669 (2022) Springer Publishers, Q2 journal with impact factor 2.983<https://doi.org/10.1007/s00339-022-05792-7>

July 13th, 2022

- ❖ Dr. Manjunatha S., Assistant Professor in the Department of Chemistry participated in the 2nd International Conference on “Sustainable Materials and Technologies for Bio and Energy Applications SMTBEA-2022”, organized by SSN Institutions, Kalavakkam, Chennai, in association with Elavenil Science Association & Indian



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Science and Technology Association.

- ❖ The department of Aerospace Engg. organised a Farewell to the first batch of Final Year Students.



- ❖ As social responsibility, the students of Department of Machine Learning actively engaged in training the students of National High School, Basavanagudi and helped the school students to enhance their conceptual learning skills.



- ❖ BMSCE Kho Kho - Women team secured Fourth Place in “VTU Inter Zone Kho Kho Women Competition” held on 13th & 14th July 2022 organized by G M Institute of Technology.



July 14th, 2022

- ❖ Department of Chemical Engineering organized an *open day to showcase the final year project work of 2022-graduates*. The occasion was graced by the Principal, Dr. Muralidhara S. and Vice Principal (Academic), Dr. Bheemsha along with all the faculty members of Chemical Engineering.

- ❖ Dr. B. N. Sarada, Professor in the Department of Mechanical Engineering along with faculty members from other institutions, Prof. G. Padmavathi, Prof. S. P. Shanmuganatan, Prof. H. Ramesha, Prof. B. V. Padmini & Prof. R. Krishnamurthy published a research article titled, ‘A comparative assessment on the characteristics of HVOF sprayed cermet coatings’ in Australian Journal of Mechanical Engineering.

<https://doi.org/10.1080/14484846.2022.2100044>.



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❖ The project work on VTOL concept conducted by the two batches of students of Mechanical Engineering under the guidance of Dr. B. Sudarshan, Assistant Professor, Department of Mechanical Engineering as cited below won 2nd Prize in the '3rd South India Project Exhibition (SIPE-2K22) held at Kalpataru Engineering College, Tumakuru.

Batch	Student	Project topic
1	Akshay S Prasad	Aerodynamic design and analysis of Hybrid UAV System
	Nirmith K P	
	Chandrashekhara K L	
	Shashank H K	
2	Dheeraj	Design and simulation of control system for tilt rotor VTOL with AR technique
	Rohith J	
	Yogish Herambha	
	Gayatri	
	Shrikant B	

❖ HODs meeting was convened to discuss about conduction of fast track semester and other academic issues.



July 15th, 2022

❖ Dr.Prashanth Dalawai, Associate Professor in the department of Aerospace Engineering presented a paper titled, "Grand challenges for future space exploration" in the 'National Science Conference on Science and Technologies in Aerospace & Defence Sectors' organised at CSIR NAL Bangalore.

❖ Dr. Gnanendra P. M., Assistant Professor in the department of Aerospace Engineering along with the students in the department, Mr. Anirudh P., Ms. Harshitha P & Mr.Somu S. presented a paper titled, "Electric Propulsion" in National Conference, 'Science and Technologies in Aerospace & Defence Sectors,' organized by Kannada Saamskruthika Sangha, National Aerospace Laboratories.





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❖ Dr. Saravanan D., Assistant Professor in the department of Aerospace Engineering along with final year students in the department, Mr. Harshit Bansal, Mr.Sai Swarup & Ms. Vinitha Bhat presented a paper titled, “Numerical Investigation of Unsteady Flow Over an Oscillating Airfoil” in National Conference, ‘Science and Technologies in Aerospace & Defence Sectors’, organized by Kannada Saamskruthika Sangha, National Aerospace Laboratories and won first prize.

❖ As social responsibility, the students of Department of Machine Learning actively engaged in training the students of National High School, Basavanagudi & helped the school students to enhance their basic programming skills.



❖ IQAC, BMSCE in association with NAAC organized one day national level seminar (online) on Digital transformations under NEP 2020. Many of the faculty members of the college participated in the said seminar.

❖ Our institution has been ranked 83 in the National Institutional Ranking Framework (NIRF) - All India rankings 2022 in Engineering Category.



❖ Meeting of Deans, HODs was conducted and the Principal congratulated all the stake holders on the event of the institution being ranked 83rd in NIRF.

July 16th, 2022

❖ The BMSCE ACM Student chapter in association with Department of Machine Learning organized a Guest Talk on “Role of AI/ML in Cognitive Science Applications” for the first & second year students of the department. The Resource person was Dr. G. R. Sinha, an Adjunct Professor from Indian Institute of Information Technology, Bengaluru.





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- ❖ The delegates from six Australian universities interacted with BMSCE students regarding Higher education opportunities in Australia. The event was organized by the department of ISE in association with EDWISE International, Bengaluru.



- ❖ Department of Electrical and Electronics Engineering organized the alumni meet, *Sammilana 2022*.



- ❖ Department of Electronics and Telecommunication Engineering organized an online National level project contest, “TELECOMBAT” in association with IEEE BMSCE student branch.

- ❖ Mr. Ganesh Hedge, 4th sem. MCA student under the guidance of Smt. Shailaja K P and Smt. Pushpa T. S., Assistant Professors of MCA presented a research paper on “IoT Devices in Health Monitoring” at second International Conference on Current Trends in Multidisciplinary Research organized by Indian Academicians and Researchers Association (IARA).

July 18th, 2022

- ❖ A team of three final year Telecommunication Engineering students, Mr. Mahim M P, Ms. Rachita and Ms.Meghana under the guidance of Dr.Rajeshwari Hegde, Professor, ETE is one of the 30 finalists (winners) in the Asian Student Paper Competition (ASPC) 2022 organized by Universitas Islam Indonesia, Yogyakarta, Indonesia for the paper titled, "Optimal classification of emotions from Electroencephalography (EEG) Signals". Only one Indian team is among the winners.
- ❖ The Chairman-BOG congratulated the BMS Team on the event of the institution being ranked 83rd by NIRF in the Engineering category.



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- ❖ Scientists Dr. Karunanidhi Subramoniam (Scientist-G) & Sri. Chari from Defence Research and Development Laboratories (DRDL), Hyderabad and Mrs. Shuba, Rtd. Distinguished Scientist, National Aerospace Laboratories visited the Department of Mechanical Engineering to witness the developments of Brush Seals being developed for their defence applications.



July 19th, 2022

- ❖ Students of 4th semester BE (Civil Engineering) visited T K Halli water

treatment plant. Dr. K Asha, Dr. Geetha Kuntoji, Sri. K Arjun, Smt. K Deepa, Sri. A. Srinivasa Murthy and Sri. Shiva Prasad N., Asst. Professors in the department of Civil Engineering accompanied the students.

July 20th, 2022

- ❖ Dr. K. E. Ganesh, Asst. Professor in the Department of Physics published a research paper titled, “Assessment of learning outcomes for online and offline modes of teaching: A comparative study” in IJRDO-Journal of Educational Research with the Volume-8 | Issue-7 | July, 2022, ISSN: 2456-2947.
- ❖ Dr. Rajeshwari Hegde, Professor in the department of Electronics and Telecommunication Engineering was invited as a jury member to the online National level Intercollegiate Project Competition DBIT-TEXPO-2022 organized by Don Bosco Institute of Technology, Bangalore
- ❖ The students from the department of Mechanical Engineering, Mr. Dheeraj R., Mr. Markande A., Mr. Chandrashekhara K. L. along with Mr. Sadagopan, V., Mr. Joshi P., Mr. Jha S., Mr. Chakrabarti, A., Mr. Suwas, S. & Mr. Arora, M. published a Research Article titled ‘Augmented Reality Implementation for Fault Diagnosis on Robotic Welding Cell’ Industry 4.0 and



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Advanced Manufacturing. Lecture Notes in Mechanical Engineering. Springer, Singapore. https://doi.org/10.1007/978-981-19-0561-2_9.

- ❖ Department of Industrial Engineering and Management organized an Extension Lecture on “Leadership Developments”. Sri. Anil Nagaraj from PWC Advisory services LLC, an alumnus of the department of IEM was the resource person.

July 21st, 2022

- ❖ Cultural Club of department of Computer Applications organised an event, “sing film hits” for MCA second semester students.
- ❖ VTU Local Inquiry Committee visited the college for inspection towards grant of affiliation/variation in intake / starting of new program/research centre.

July 22nd, 2022

- ❖ Dr. K. Asha, Assistant Professor in the Department of Civil Engineering was felicitated in recognition of her dedication and valuable contribution for the growth of ICI-Bengaluru Centre as a Member of Managing Committee from July 2019 to July 2022 at Annual general body meeting held at Bangalore city institute.



- ❖ The Expert Lecture on “Drone-based survey: Applications and opportunities” by Ms. Sucharitha R., Lead GIS Consultant, Skylark Drones was organized for the benefit of the 6th semester students of Civil Engineering Department. Dr. Reshmidevi T.V., Assistant Professor in the department coordinated the event.
- ❖ Dr. Rajeshwari Hegde, Professor in the department of Electronics and Telecommunication Engineering was invited as a BoS member for the Department of ETE at Dr. Ambedkar Institute of Technology, Bangalore.



- ❖ Dr. B. Kanmani, Dean(Academics) presented a copy of her Book, ‘Effective



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Implementation of OBE leading to Accreditation' to Dr. Anil Sahasrabudhe, Chairman, AICTE,



- ❖ Dr. Shailaja V N, Associate Professor in the department of IEM was invited by Dept of IEM, R V College of Engineering as a jury member for Project Exhibition.



- ❖ Graduation Day for awarding Degree Certificates to the autonomous batch of Engineering (UG & PG), Architecture, MCA & MBA graduates of 2021 was conducted. Dr. Anil D. Sahasrabudhe, Chairman, AICTE was the Chief Guest for the event. On this occasion, 1351 graduates were conferred Bachelor's Degrees in Engineering/ Architecture and 322 graduates were conferred Master's Degree in Engineering/ Business Administration and MCA degrees.



- ❖ Sri. Lohith J.J., Assistant Professor in the department of Computer Science & Engg., was invited as a resource person for 5 days FDP on Blockchain technologies organized by Reva university and he conducted sessions on three days.

July 23rd, 2022

- ❖ Graduation Day for awarding Degree Certificates to the autonomous batch of Engineering (UG & PG), Architecture, MCA & MBA graduates of 2019 & 2020 was conducted. Prof.Govindan Rangarajan, Director, Indian Institute of Science, Bengaluru was the Chief Guest for the Event. On this occasion, 2533 graduates were conferred Bachelor's Degrees in Engineering/ Architecture and 691 graduates were conferred Master's Degree in Engineering/ Business Administration & MCA degrees.



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July 25th, 2022

- ❖ Dr. B. Kanmani, Dean(Academic) was invited to handle three sessions (in online mode) on 'Outcomes Based Education', during the one week Faculty Development Program organized by Shoolini University, Himachal Pradesh (sessions were conducted on the afternoons of 25, 27 and 29 July, 2022)



- ❖ The second semester students of MCA, Ms.Pooja T S, Ms. Ramyashree, Mr. Niteesh K R, Mr. Suhas Shrivatsava, Ms. Hemashree B J, Mr. Kiran C, Mr.Nikhil N G and Mr.Rudresh B S participated in singing "Vandemataram" during inauguration & Valedictory function of "Shrithi-2022", a state level Engineering Students Project Exhibition Competition organized by SRISHTI innovation exchange in association with Akhil Bharatiya Vidyarthi

Parishad hosted by BMSCE during July 25-27,2022.



- ❖ Dr. R. Jayagowri, Associate Professor in the Department of Electronics and Communication Engineering has been the Fellowship Committee Co-Chair in 6th IEEE International Test conference India - 2022 and chaired a session titled, "Design for Security & Analog Test" in the Conference organised by ITC India group in collaboration with IEEE and Test Technology Technical Council (TTTC), USA held at Radisson Blu, Bengaluru during 25th -27th July 2022.

July 26th, 2022

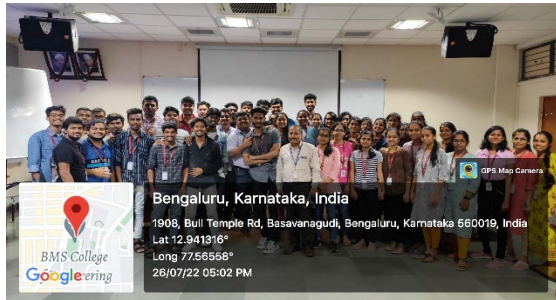
- ❖ Department of Computer Applications organized a webinar on "Oracle APEX" by



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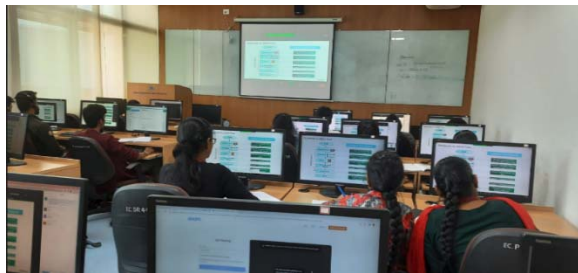
Sri.Karakuvelraj Thangamariappan, Lead Engineer, DAMAC Dubai, UAE. The event was coordinated by Sri. M Siva Rama Krishna & Sri. P. Lakshminarayana, faculty members in the department.



theme, “Motivation towards Higher Studies” for the students of National High School (NHS), Basavanagudi, Bengaluru as part of Societal Service. 23 NHS students participated in the event.



- ❖ The Department of ECE organised a two day online workshop on 26th & 27th July 2022 and Sri. Nithin Aradhya Y L from Cadence Design Systems was the resource person for the virtual workshop. An insight into Analog flow (Front end & Back end) was provided to the Post graduate students of Electronics and Digital communication. The workshop was coordinated by the faculty members in the department, Dr. Jayanthi K Murthy and Dr. Arathi R Shankar.



July 27th, 2022

- ❖ The Department of Machine Learning (MEL) organized an activity with the

July 28th, 2022

- ❖ Department of Electrical and Electronics Engineering organized International Conference on Power, Control and Sustainable Energy Systems ICPCSES-2022 in association with AARHUS University, Denmark from 28th July to 30th July 2022. Dr. G. Narayanan, from IISc, Bangalore was the Chief Guest for the conference.





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The following papers were presented during the conference by the faculty & students of the college:

- a) Dr. C. Lakshminarayana, Professor, Department of EEE along with research scholar, Smt. Suneetha M N, published a paper titled, “Design of Parameters of Buck Converter Integrated to a Hybrid DC Micro Grid using Genetic Algorithm”.
- b) Dr. A N Nagashree, Associate Professor and Head, Department of EEE along with PG student, Mr. Nikhil Kumar and Sri. Bhoopendra Kumar Singh, Sri. Santosh B L & Sri. Prakash Guthi from Centum Electronics published a paper titled, “Design and Implementation of Dual Output Forward Converter to Power-up Digital Unit for Space Application”.
- c) Dr. A. N. Nagashree, Associate Professor and Head, Department of EEE along with research scholar, Ms. Shilpa, published a paper titled, “Effect, analysis and assessment of electricity usage pattern in an educational institute during COVID-19 pandemic”.
- d) Dr. V Champa, Associate Professor, and Dr. Prema V, Associate Professor, along with research scholar Ms. Manali Raman and Sri. Priya Ranjan Mishra A from BelBird Technologies published a paper titled, “Deep Learning Model for the Prediction of Remaining Useful Life of Lithium Ion Batteries”.
- e) Dr. V. Champa, Associate Professor, along with PG student, Mr. Guruprasad Naik G and Sri. R. Harshavardhan Reddy from Rohm Semiconductors published a paper titled, “Development and Simulation of 48V Li-ion Battery management system for Electric vehicles”.
- f) Dr. A. Usha, Associate Professor, Department of EEE along with research scholar Mr. K. Lokeshwara Rao and Prof. Raghunatha R., Dept. of EEE, BNMIT published a paper titled, “Investigations on Influence of Ground Impedance on the Interconnected Three phase Four wire Balanced and Unbalanced Distribution System”. This also got the Best paper award.
- g) Dr. A. Usha, Associate Professor, Department of EEE along with PG student, Mr. Shamanth Y., and Sri. Pradeep S, Sri. Nagaraju T K, Sri. B. K. Singh, and Sri. Vinod Chippalkatti, from CENTUM Electronics Ltd., published a paper titled, “Design and Implementation of Triple Output Flyback Converter with Current Mode Control for Space Applications”.



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- h) Dr. A Usha, Associate Professor, Department of EEE along with PG student, Mr. Harikishan and Sri. Priya Ranjan Mishra from BelBird Technologies published a paper titled “Design and Implementation of a Dual Active Bridge Converter for Battery Charging Application” and won the Best paper award.
- i) Dr. R S Geetha, Professor, Department of EEE along with PG student, Mr. Shubham and Sri. Priya Ranjan Mishra from BelBird Technologies published a paper titled, “Optimal Design and Comparative Analysis of Different Bi-Directional DC-DC Converters for Energy Storage Applications”.
- j) Dr. R S Geetha, Professor, Department of EEE along with PG student, Mr. Abhishek, published a paper titled, “Performance Analysis of Boost and Interleaved Boost Converter with A Novel Switching Technique”.
- k) Dr. R S Geetha, Professor, Department of EEE along with research scholar Smt. K R Pushpa & faculty, PES University published a paper titled, “PV integrated DC-DC converter and Inverter topologies for grid tied/standalone system”.
- l) Dr. Prema V, Associate Professor, Department of EEE along with PG student, Mr. Manoj Kumar S, published a paper titled, “Design and Simulation of Back to Back Converter for Bifurcated Winding Induction Generator”.
- m) Dr. B. Venkatesh, Assistant Professor, Department of EEE along with PG student, Mr. K. M. Ankush, published a paper titled, “Design Simulation Comparative Study And Implementation of SEPIC And CUK Converter For Solar Powered Electric Vehicle Battery Charging Application”.
- n) Smt. Divya S, Assistant Professor, Department of EEE along with UG students published a paper titled, “Design, Modelling and Simulation of Traditional DC - DC Boost Converter and Interleaved DC - DC Boost Converter”.
- o) Dr. D B Prakash, Assistant Professor, Department of EEE along with PG student, Mr. B. Rakesh, published a paper titled, “Design and Implementation of Forward-Boost Hybrid Converter for Solar Powered Electric Vehicle Charging Application”.
- p) Dr. Dipesh Kumar, Assistant Professor, Department of EEE along with UG students, Mr. Ahir Jay Satish, Mr. Gourav



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Kumar Patel, Mr.Pathak Krutarth Dhimant Mr. Prajwal S C, presented a paper titled, “SMART IRRIGATION SYSTEM USING AGRIBOT”.

q) The students of department of ETE, Ms.Deeksha Manjunath, Ms. Avani KVH and Ms. Rashmi Pai K., under the guidance of Dr.C.Gururaj, Assistant Professor in the department, published their work titled ‘Proficient Implementation and Metric based Evaluation of LSB Image Steganography’.

❖ Dr. B Venkatesh, Smt. Divya S and Smt.Chaitanya L, Assistant Professors in the Department of EEE, authored “A Text Book on Basic Electrical Engineering” bearing ISBN: 978-81-940490-1-2. This book was released during the International Conference on Power, Control and Sustainable Energy Systems ICPCSES-2022 by Dr. G.Narayanan, from IISc, Bangalore.



❖ Students of MCA, Mr.Nitesh K R and Ms.Pooja T S conducted a quiz through

Cultural Club, department of Computer Applications for the students in the department and Winners were Mr. Kiran, Mr.Nikhil, Mr.Suhas and Mr.Vijay.



❖ Dr. K J Rathanraj, Professor in the Department of Industrial Engineering & Management was granted Patent for the “TWO WHEELER MOBILITY ACCESSORY” for term of 20 years from the 4th day of September 2013 in accordance with the provisions of the Patents Act, 1970.

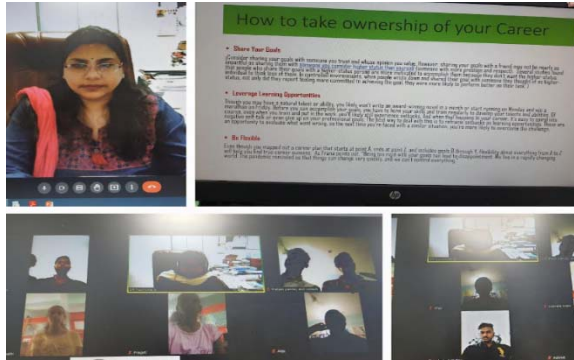
❖ Dr. C. Gururaj, Assistant Professor in the department of Electronics and Telecommunication Engineering was invited as Session Chair (online) in the IEEE International Conference on Data Science and Information System held at Malnad College of Engineering, Hassan.

❖ Dr. Poornima G, Associate Professor in the Department of Electronics and Communication Engineering was invited to handle a session on “Preparing For Your Career Path” in the Mentorship Program conducted by Freedom Employability Academy to empower Disadvantaged Youth from Gorakhpur-Rustampur.



B.M.S. COLLEGE OF ENGINEERING, BENGALURU
Autonomous Institute, Affiliated to VTU

REPORT ON COLLEGE ACTIVITIES – JULY 2022



Rajeshwari Hegde, professor, Department of ETE published a paper titled, “High Resolution Detection, Estimation and Location Using GTF DoA Method for Smart Antenna System” in the Traitement du Signal, Vol. 39, No. 3, June, 2022, pp. 1051-1060 WoS and scopus indexed (Q2 journal).

July 29th, 2022

- ❖ VTU Youth Festival, ‘PRATHIBHOTSAVA’ was hosted by the college during July 29th – 31st, 2022. Students from various colleges across the state under VTU participated in various events conducted during the fest.



- ❖ Department of Electrical and Electronics Engineering organized the valedictory function of the International Conference on Power, Control and Sustainable Energy Systems ICPCSES-2022 in association with AARHUS University, Denmark. Prof. Joseph M. Guerrero from the Aalborg University, Denmark was the chief guest for the function.

July 30th, 2022

- ❖ Mr.Feroz Morab, research scholar in the Department of Electronics and Telecommunication Engineering under the supervision of Dr. Veena N. Hegde, professor, Department of Electronics and Instrumentation Engineering and Dr.

