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

REPORT ON COLLEGE ACTIVITIES – OCTOBER 2021

October 1, 2021: Demonstration of Yearly Fee Management Module (ERP Solution) by e-Governance Unit of BMSCE

October 1, 2021: Dr.G.Poornima, Faculty, Department of Electronics & Communication Engineering **published research paper titled "Evaluation of MANET Routing Protocols for Higher Frequency Bands" in the Journal of Huazhong University of Science and Technology.**

October 1, 2021: Ishika Agarwal, Swathi D.G., Yashwanthi V. and Adarsh Kumar, Graduated students of Electronics & Telecommunication Engineering during 2021 **presented paper titled "Emotion Recognition from Facial Expression using CNN" in the IEEE Region 10 Humanitarian Technology Conference (R10 HTC) under the guidance of Dr.Rajeshwari Hegde Faculty of the Department organized by IEEE Region 10, Bangalore section.**
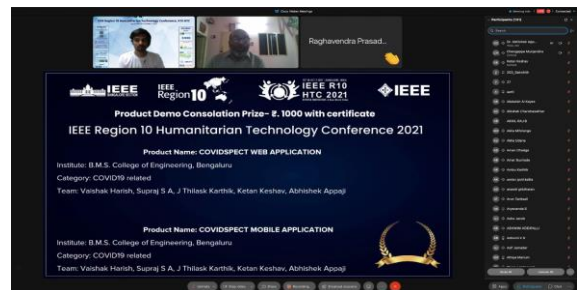
October 1, 2021: Department of Electronics & Instrumentation Engineering in association with Venjay Automation and Rotary Club Bangalore organized an Industry Institute Interactive. **As part of this**

event, an equipment named **"Multi-utility Belt Conveyor" compatible to Programmable Logic Controller (PLC) was demonstrated. Further, this Equipment, designed and developed by the company Venjay Automation, nearly worth of Rs.1.00 Lakh was donated to the Department by Rotary Club, Bangalore to carryout PLC based experiments, as their initiative towards spreading experiential learning.**

October 2, 2021: Sri.Shashiraj, Faculty, Department of Mechanical Engineering presented Yakshagana in the grand inaugural function of new district Vijayanagara, Hospete.

October 2, 2021: Vaishak Harish, Supraj S A, Thilak Karthik, students of Medical Electronics won Consolation prize for Product demo in the IEEE Region 10 Humanitarian Technology Conference 2021 under the guidance of Dr.Abhishek Appaji, Faculty of the Department organized by IEEE Region 10, Bangalore section.
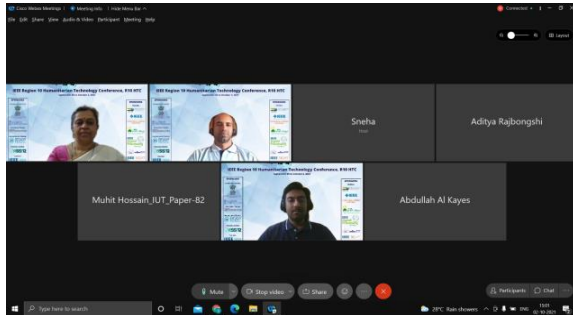
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October 2, 2021: Dr.D.N.Sujatha, Professor, Department of Computer Applications was invited to Chair a Session in the IEEE Region 10 Humanitarian Technology Conference 2021 by IEEE Region 10, Bangalore section.

October 2, 2021: BMSCE NSS Unit in association with ISRC organized an event at Amrith Shishu Nivasa, Basavanagudi on the occasion of 153rd Gandhi Jayanthi and 117th Lalbahadur Shashtri Birthday.

October 3, 2021: Dr.Shubha Rao, Faculty, Department of Information Science & Engineering along with students Anu Priya Jain and Muskan Agarwal **presented paper titled "Employee Burnout Prediction: A Supervised Learning Approach" in the IEEE 2nd GCAT, Bengaluru held from October 1-3, 2021.**

October 3, 2021: BMSCE NSS Unit (around 160 volunteers) in collaboration with Adamya Chetana Foundation participated in "Mega Plantation Drive" under the 301st "Green Sunday at the Mane Eco-Society, Bengaluru.

October 3, 2021: BMSCE NSS Unit participated in the Karnataka's first Sacred Kadamba Tree Festival supported by the Discovery Village under the aegis of Swachh Bharat Abhiyan organized by the Karnataka Forest Department and Karnataka Eco Tourism Board.

October 4, 2021: Dr.H.K.Rangavittal, Professor, Department of Mechanical Engineering was invited as Subject Expert for Faculty Recruitment by SEA College of Engineering, Bengaluru.

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October 4, 2021: Dr.K.N.Rajanikanth, Faculty, Department of Electronics & Communication Engineering delivered a talk (online) on "Power of Reinforcement Learning" in the One Week National Summit on Artificial Intelligence: Disrupting the Disruptors conducted by CHECKED IT in collaboration with Educhecked, Vitrendz, Microsoft Innovations Club, and IEEE BMSCE Student Branch.

October 4, 2021: Dr.K.Balachandra, Faculty, Department of Electronics & Telecommunication Engineering was recognized as NPTEL Super Star and Discipline for being topper in several technical courses conducted by NPTEL during January - June Semester.

October 4, 2021: Dr.Rajeshwari Hegde, Faculty, Department of Electronics & Telecommunication Engineering **co-authored a paper titled "ANN based Detection and Diagnosis of Neurological Disorder Diseases" along with other in the Scopus indexed journal Design Engineering, ISSN: 0011-9342 Issue: 8, Pages: 1111-1119.**

October 4, 2021: Dr.D.N.Sujatha, Professor, Department of Computer Applications was invited to present a webinar on "Role of IEEE in Student's Career" by KLE Dr M S Sheshagiri College of Engineering and Technology, Belagavi.

October 4, 2021: Department of Physical Education & Sports Science organized Free Covid-19 Vaccination Camp for Staff, Students and their Family members twice during the month.

October 5, 2021: Department of Computer Science & Engineering in association with Department of Industrial Engineering & Management conducted ten days value added course on "Python Programming" for the 5th & 7th Semester IEM students from September 24, - October 5, 2021.

October 5, 2021: Dr.D.N.Sujatha, Professor, Department of Computer Applications was invited as Chief Guest for the IEEE Day Celebrations by Don Bosco Institute of Technology, Bengaluru.

REPORT ON COLLEGE ACTIVITIES – OCTOBER 2021

October 6, 2021: Dr.Rajeshwari Hegde and Dr.C.Gururaj, Faculty, Department of Electronics & Telecommunication Engineering received Certificate of Appreciation for the contribution as Reviewer for IEEE Region 10 Humanitarian Technology Conference organized by IEEE Region 10, Bangalore section.

October 6, 2021: Department of Biotechnology in association with Biocos Life Sciences organized online hands-on training on "High throughput genomics analysis" from October 6-9, 2021 under DBT-Star Scheme.

October 7, 2021: BMSCE-IIC in collaboration with BMSCE-IEEE Chapter organized one day event on "Workshop on Competency" under the guidance of Sri.Madhav Murthy, Faculty, Department of Mechanical Engineering.

October 7, 2021: Dr.D.N.Sujatha, Professor, Department of Computer Applications was invited to present a webinar on "IEEE Membership and its Benefits" by Brindavan College of Engineering, Bengaluru.

October 8, 2021: Dr.Ragini Narayan Donor Trustee & Chairperson, BMSET and Sri.Aviram Shrama, Trustee BMSET inaugurated the newly renovated Placement Office.

October 8, 2021: Mechanical Engineering Association (MEA) and Department of Mechanical Engineering organized One Week value added course on "Introduction to Advanced Machining Processes and Testing" from September 30 – October 8, 2021.

October 8, 2021: Dr.G.Giridhara, Professor, Department of Mechanical Engineering was nominated as Member, NBA Expert Committee for evaluation (online) of a Polytechnic College in Maharashtra for Accreditation from October 8-10, 2021.
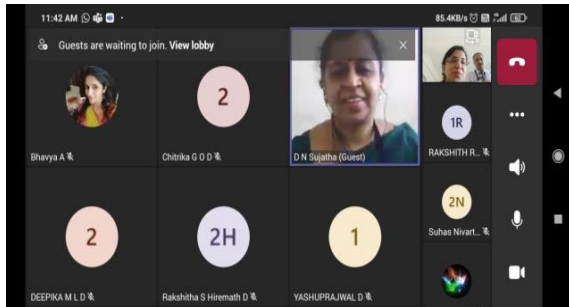
October 8, 2021: Dr.M.S.Chandraprasad, Faculty, Department of Biotechnology **published a book chapter on "Introduction to cancer and treatment approaches" in Elsevier Paclitaxel. Sources, Chemistry, Anti-cancer Actions. DOI:10.1016/B978-0-323-90951-8.00010-2 Paclitaxel (pp.1-27).**

October 8, 2021: Dr.D.N.Sujatha, Professor, Department of Computer Applications was invited to present a webinar on "IEEE: Benefits and Opportunities to Students" by Don Bosco Institute of Technology, Bengaluru.

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October 8, 2021: BMSCE Staff Badminton teams participated in the B.S.Narayan Memorial Inter Collegiate Tournament for Staff organized by BMS School of Architecture from October 8-9, 2021 and were Winners in above 40 age group, Runners in below 40 age group, 2nd Runner up in Women open category & Mixed Doubles.

October 9, 2021: Prof.Nalinaksh Vyas, Professor, IIT Kanpur visited the Rotor Dynamics facility at Department of Mechanical Engineering.

October 9, 2021: Sri.Madhav Murthy, Faculty, Department of Mechanical Engineering is appointed as Vice Chairman of ISAMPE (Indian Society for Advancement of Materials and Processing Engineering) - professional society of Bangalore Chapter.

October 9, 2021: Dr.Samita Maitra, Dr.Rajath Vasudevamurthy, Smt.Namratha, Sri.R.Shivakumar and Sri.Soumen Panda, Faculty of the respective Departments participated (online) in the Two Days IUCEE Mini-Symposium on Problem-Based Learning from October 9-10, 2021 organized by IUCEE. The faculty members presented the case-study reports of their respective Departments.

October 10, 2021: BMSCE NSS Unit participated in the Green Sunday Plantation drive - An initiative made by the Adamya Chetana during the month.

October 11, 2021: Dr.Rajeshwari Hegde, Faculty, Department of Electronics & Telecommunication Engineering along with K.S.Asha, Research Scholar **published paper titled "Predicting Future Localization based Routing Algorithm for Vehicular Adhoc Network" in the Advances in Dynamical Systems and Applications (ADSA), Journal (*scopus indexed) ISSN 0973-5321, Volume 16, Number 2, (2021) pp. 913-925.**

October 11, 2021: Department of Management Studies in association with Active Edu Technologies Indian Private Limited organized extensive Eight Days Worshop on "Microsoft Office Specialist (MOS) Excel, Word and Power Point" from October 11-23, 2021 for the students of 3rd semester.

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October 12, 2021: Dr.Rudra Naik, Prfoessor & Head, Department of Mechanical Engineering along with Mr.C.Deepak, Research Scholar and Mr.H.K.Prashanth, JRF **presented research paper titled "Experimental Study on Heat and Mass Exchanger of a Dew Point Indirect Evaporative Cooler" in the International Conference ICOFT 2020 and the same was published in Springer Nature -Lecture Notes in Mechanical Engineering (Q3). Online ISBN: 978-981-16-4222-7,** **DOI: https://doi.org/10.1007/978-981-16-4222-7_96**

October 12, 2021: Department of Electronics & Communication Engineering in association with Career Labs organized a workshop on **"Profile Building for Higher Education and Placements".** Resource person was **Mr.Mark Brandon, Head Speaker, Career Labs.**

October 12, 2021: BMSCE NSS unit and Sri.Hadagali Ashoka Faculty, Department of Biotechnology have been conferred with Best NSS Unit Award and Best NSS Programme Officer Award respectively in recognition of the service rendered for the year 2017-2018.

October 12, 2021: Dr.R.V.Ranganath, Professor, Department of Civil Engineering was invited for an academic interaction by Christ University, Bengaluru.

October 13, 2021: Dr.Rajeshwari Hegde, Faculty, Department of Electronics & Telecommunication Engineering received ISSN Research award for outstanding contribution to research.

October 14, 2021: Sri.T.N.Jagadeesh, Typist, Department of Mechanical Engineering was invited as Event Judge during DASARA UTSAV by Nandini Layout BBMP Ward and he was also felicitated.
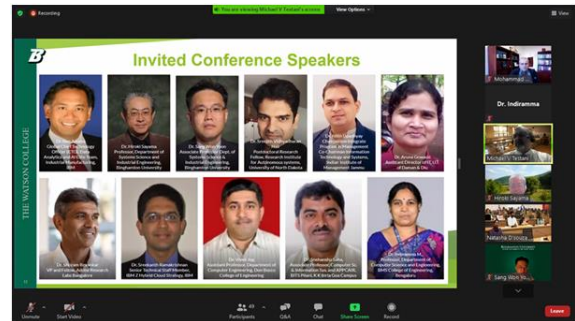
REPORT ON COLLEGE ACTIVITIES – OCTOBER 2021

October 16, 2021: Dr.M.S.Gayathri, Faculty, Department of Mathematics, **published research paper titled "Fluid Flow in Composite Regions Past a Solid Sphere" in the Journal of Biointerface Research in Applied Chemistry, Vol.:12, Issue 4, pp: 4755-4769 https://doi.org/10.33263/BRIAC124.47554 769**.

October 18, 2021: Sri.K.Arjun and Sri.Alok Pandey, Faculty, Department of Civil Engineering were invited to address on a comprehensive skill for marginalised community rural females in Kandukuru, Prakasham District, Andhra Pradesh and also to train the students on "Comprehensive skills & Personality Development" organized by the State Government of Andhra Pradesh in association with Commonwealth Educational Media Centre for Asia (CEMCA) from October 18-21, 2021.

October 19, 2021: Dr.M.Indiramma, Professor, Department of Computer Science & Engineering was invited to deliver a keynote address (online) on "Big-data as a service and case studies" in the International Conference on Big Data 2021 (DB3D) jointly organized by Don Bosco Engineering College Goa and Binghamton University, New York, USA from October 19 – 21, 2021.

October 21, 2021: Dr.A.R.Anil Chandra, Faculty, Department of Mechanical Engineering was invited as a Member for selecting Lab Level Awards for the performance year 2020 by GTRE, DRDO, Bengaluru.

October 21, 2021: Dr.S.Supriya, Faculty, Department of Chemistry **published research article titled "Porous carbon nanoparticles dispersed nematic liquid crystal: influence of the particle size on electro-optical and dielectric parameters" in the journal Liquid Crystals - Impact factor: 3.51.**

October 21, 2021: Department of Management Studies was invited to be Conference Partner (online) for the International Business Conference on "Atmanirbhar Bharat through Global Competence" organized by the **Consulate General of India along with GloMan Consulting GmbH, Hamburg, Germany.**

REPORT ON COLLEGE ACTIVITIES – OCTOBER 2021

October 21, 2021: BMSCE NSS Unit organized "Clean India Plog Run" at Basavanagudi and surrounding places as a part of Azadi ka Amrut Mahotsav.

October 22, 2021: Dr.G.Poornima, Faculty, Department of Electronics & Communication Engineering was invited to Chair a Session on "Computer Network and Security" in the 16th International Conference on Information Processing organized by Computing Professional Charitable Trust and University Visvesvaraya College of Engineering, Bengaluru.

October 22, 2021: Department of Computer Science & Engineering organized Technical seminar on "Profile Building for Higher Education & Placements". Resource persons were Mr.Mark Brandon, Mr.Nitin Ravi & Mr.Abhiskek Gupta, Counsellors, Career Labs Byjus, Bengaluru.

October 22, 2021: Dr.K.E.Ganesh, Faculty, Department of **Physics published research paper titled "An Insight into the Air Quality features over South Indian City of Bengaluru during COVID-19 Lockdown Period" in the International Journal of Innovation in Advanced Physics IJIAP Volume 01, Issue 02, October 2021, pp.58-70** https://www.isci-pub.com/journals/ijiap/iap_pdf/iap_2021_volume_01/iap_2021_issue_02/IJIAP_Vol01_Iss_02_003.pdf

October 22, 2021: Dr.C.S.Kaliprasad, Faculty, Department of Physics **published research paper titled "Radioactivity of Different types of Fertilizers and Its Effect on Agricultural Soils of Mangalore District, Karnataka, India" in Radiochemistry(Springer) volume 63, pages 667–671 (2021) IF: 0.66 (Web of science)** https://link.springer.com/article/10.1134/S1066362221050167 https://doi.org/10.1134/S1066362221050167.

October 23, 2021: Smt.H.M.Anitha, Faculty, Department of Information Science & Engineering along with students Anusha G Krishna, Divyansh Singh Rathore and Nidhi Sanjay Singh **presented paper titled "Securing Data Workflows: An Insight into Cloud Security" in the AICTE sponsored ICACC-2021(IEEE), Kochi.**

October 23, 2021: Dr.Rajeshwari Hegde, Faculty, Department of Electronics & Telecommunication Engineering received a Certificate of Commitment from Central Vigilance Commission, New Delhi for adopting the integrity pledge.

October 24, 2021: Dr.Rudra Naik, Professor & Head, Department of Mechanical Engineering was invited as Subject Expert for Faculty Recruitment by SEA College of Engineering, Bengaluru.

October 24, 2021: Dr.N.Sandeep Varma, Faculty, Department of Information Science & Engineering along with his final year UG project team students (Pushya D, Shreyas N, Shreya P) **presented research work on "FDMCA: A Novel Authentication Technique using Face Detection and Gaze-based Morse Code Entry" in the**

REPORT ON COLLEGE ACTIVITIES – OCTOBER 2021

International Conference IEEE Mysurucon 2021 organized by IEEE Mysore Subsection at Navkis College of Engineering, Hassan.

October 24, 2021: Dr.C.Gururaj, Faculty Department of Electronics & Telecommunication Engineering was invited to Chair a Session in the 1st Edition of the Flagship IEEE International Conference Mysurucon 2021 organized by IEEE Mysore Subsection at Navkis College of Engineering at Hassan. The following students graduated during 2021 of the E&T Engineering presented papers in the Conference:

- Sanjana Rao, Vidyashree T.S, Manasa M, Bindushree V, **presented paper titled "Optimal Lossless Data Compression Methodology"** under the guidance of Dr.C.Gururaj.
- Akash Bharadwaj, Muhammad Afsar, Kapish Kumar Khaitan, Rahul, **presented paper titled "Optimized FPGA Implementation and Synthesis of Image Segmentation Techniques"** under the guidance of Dr.C.Gururaj.
- Chirag S Rao, Rahul M and Srijoni Dasgupta, **presented paper titled "Sustainable Pesticide Usage in Agriculture"** under the guidance of Dr.Rajeshwari Hegde

October 25, 2021: Dr.G.Giridhar, Professor, Department of Mechanical Engineering was invited as Member, NBA Expert Committee for evaluating Engineering College in Tamil Nadu for compliance of NBA Accreditation.

October 25, 2021: Department of Mechanical Engineering organized (online) Ph.D. final Viva-Voice in respect of Research Scholar Mr.M.R.Srinivasa on the thesis titled "Studies on Dynamic Characterization of Graphene Hydroxyl Reinforced Aluminium Composites" under the guidance of Dr.Y.S.Ram Mohan, Professor & Head, Department of Aerospace Engineering.

October 25, 2021: Dr.N.Sandeep Varma, Faculty, Department of Information Science & Engineering and Project Fellows (UG) presented the progress of the R&D project (Project ID- UG-04) to Mr.Naveen Arulselv, Project Mentor from Artificial Intelligence and Robotics Park (ARTPARK), IISc, Bengaluru.

October 26, 2021: Dr.B.Kanmani, Professor & Head, Department of Electronics & Telecommunication Engineering was invited to handle One session on "Bloom's Taxonomy Levels, Action verbs and Course Outcomes" in the One Week AICTE ATAL Faculty Development Programme on Outcome Based Education Curriculum and Examination Reforms by B.V.V.S. Polytechnic College, Bagalkot.

October 27, 2021: Dr.Rajath Vasudevamurthy, Faculty, Department of Electronics & Communication Engineering was invited to serve as the Publications Chair (online) in the 10th edition of the IEEE International Conference on Cloud Computing in Emerging Markets (CCEM) 2021 hosted from New Jersey, USA.

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October 27, 2021: Dr.D.N.Sujatha, Professor, Department of Computer Applications was invited as Subject Expert for Faculty Recruitment by PES College of Engineering, Bengaluru.

October 27, 2021: Cultural Club, Department of Computer Applications conducted "Chain Spelling" and "items" events.

October 28, 2021: Department of Medical Electronics organized a workshop on "Profile Building for Higher Education". Research person was Ms.Sowmya Prabha. Career expert and Learning Architect from Career Labs, Bengaluru.

October 28, 2021: Dr.D.N.Sujatha, Professor, Department of Computer Applications was invited as Chief Guest for the IEEE Day Celebrations by Cambridge Institute of Technology, Bengaluru.

October 29, 2021: Dr.R.Jayagowri, Faculty, Department of Electronics & Communication Engineering was invited to deliver a talk on "Test Power Reduction for Recent IC Technology" in the one week Faculty Development Program on Emerging Trends in Electronics, Communication and Networking Technologies organized by Sree Vidyanikethan Engineering College, Tirupati.

October 30, 2021: Dr.H.M.Shivaprasad, Faculty, Department of Mechanical Engineering was invited to deliver a talk on "Approach to Scholarly Research" by Dayananda Sagar Academy of Technology & Management, Bengaluru.

October 30, 2021: Students of 3rd semester Mr.G.S.Prashanth (ME), Mr.V.Vishvesha (EC), Ms.Anushka Shivkumar (AI&ML), Ms.M.R.Nimisha (EC), Mr.V.Pavan (EIE) and Mr.H.S.Raghavendra (ME) presented their project titled "ROPET: A hand-gesture controlled bot" in the 10th International Conference on Cloud Computing in Emerging Markets 2021 (CCEM) under the guidance of Dr. Rajath Vasudevamurthy, Faculty, Department of Electronics & Communication Engineering hosted from **New Jersey, USA.** They received the IEEE CCEM Student Project Showcase Proposal Sponsors award.

October 31, 2021: Department of Electronics & Communication Engineering and The Electronics Society (ELSOC) Club organized a talk (online) on "Industrial IoT and its Components and Deployment Examples". The talk was delivered by Mr.Ullas Kumar, Telecom Systems Engineer, Rakon, Singapore.