



**B.M.S. COLLEGE OF ENGINEERING, BENGALURU**  
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**REPORT ON COLLEGE ACTIVITIES – DECEMBER 2021**

**December 1<sup>st</sup>, 2021**

Dr. Kaliprasad C.S, Assistant Professor, in the Dept. of Physics published a research paper titled “Evaluation of radiological hazards due to natural radionuclide in rocks and the dependence of radioactivity on the mineralogy of rocks in Udupi district on the south west coast of India” in Springer: Journal of Radioanalytical and Nuclear Chemistry (2021), ISSN No 02365731, 15882780 Q3 Journal with Impact Factor: 1.37 <https://doi.org/10.1007/s10967-021-08114-y>

Mrs.Ambika A.V., Research Scholar in the Department of Physics participated in the one day webinar on “Photo Electric Effect: 100 Years” organized by the Department of Physics, Bangalore Institute of Technology.

Dr.C.Lakshminarayana,HOD-EEE and Dr. Venkatesh Boddapati, Asst.Professor in the Dept. of Electrical and Electronics Engg., completed consultancy work on Electrical vehicles and submitted reports to MOSAIQUE PVT LTD. (India).

Dr. Chandasree Das, Asso.Professor in the dept., of Electrical and Electronics Engineering published a paper titled “A composition-dependent thermal behavior of Si<sub>20</sub>Te<sub>80-x</sub>Sn<sub>x</sub> glasses: Observation of Boolchand intermediate Phase” in the International Journal, Journal of Non-Crystalline Solids (SCI Indexed).

Smt.V.Nalina, and Dr.P.Jayarekha, faculty from the dept. of ISE published a paper titled "Cloud-assisted multi-tier hierarchical safety routing strategy for collision avoidance in vehicular ad hoc network" in International Journal of Vehicle Information and Communication Systems, Inderscience Publications, Vol. 6, No. 3-4pp 251-273.

Dr.C.Gururaj, Asst.Professor of Electronics and Telecommunication Engineering received a certificate of appreciation for reviewing technical papers in the IEEE International Conference on Electrical, Electronics, Communication, Computer Technologies and Optimization Techniques organized at GSSS Institute of Engineering for Women, Mysuru.

Dr. Rajeshwari Hegde, Professor in the Dept. of Electronics and Telecommunication Engineering received certificate of Appreciation for reviewing the papers in the IEEE International Conference on Mobile Networks and Wireless Communication organized by SSIT, Tumkur.

**December 2<sup>nd</sup>, 2021**

Dr. Venkatesh Boddapati and Dr. Prakash D.B., Faculty from Department of Electrical and Electronics Engineering published a paper titled, “Design and feasibility analysis of a Solar PV and Biomass-based Electric Vehicle Charging Station for Metropolitan



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cities (India) in Distributed generation and alternative energy journal (Scopus Indexed).

A paper titled “Simulation study of FLC based MPPT for unshaded and partially shaded PV systems” authored by Ms.Deepika Jain, Ms.Harshitha N, Ms.Supriya R.M. and Ms.Megha G., UG students of dept. of EEE (an outcome of their UG project) under the guidance of Dr.Padmavathi K, professor, Dept., of EEE was presented in International conference ComPE-2021 organised by NEHU, Meghalaya in virtual mode.

Dr. Seshachalam, Professor, Department of Electronics and Communication Engineering delivered a talk(online) on “Quality Question Paper Setting” as resource person in STC on Teaching Learning Process to Enhance Program Outcomes organized by National Institute of Technical Teachers Training and Research(NITTTR) Chandigarh.

Mr. Chethana K Y, faculty in the department of Aerospace Engineering presented a poster at International Conference on Advanced Materials and Mechanical Characterization (ICAMMC – 2021) organized by SRM institute of Technology, Tamil Nadu.

Dr. B. Sudarshan, Assistant Professor, Department of Mechanical Engineering presented (online) a paper titled ‘A Study on Aerothermal Effects Mitigation by

Forward-Facing Cavity in a Hypersonic flow’ in Aerospace and Aeronautics World Forum, an International Conference organized by Continuum Forums on the theme, ‘Technological and research & development in Aerospace and Aeronautics Engineering’ held in Frankfurt, Germany.

Dr. R. N. Ravikumar, Associate Professor in the Department of Mechanical Engineering along with Sri.S. Madhu published a book chapter titled ‘Vehicle to Grid Technology’ In: Kathires M., Kanagachidambaresan G. R., Williamson S.S. (eds), E-Mobility. EAI/Springer Innovations in Communication and Computing. Springer, Cham. [https://doi.org/10.1007/978-3-030-85424-9\\_10](https://doi.org/10.1007/978-3-030-85424-9_10).

**December 3<sup>rd</sup>, 2021**

Dr.C.Gururaj, Asst.Professor, Dept. of Electronics and Telecommunication chaired a session in the IEEE International Conference on Mobile Networks and Wireless Communications.

Sri.K.Arjun, Assistant Professor, Department of Civil Engineering participated in one-day National Seminar on "High Performance Industrial Flooring" organized by Indian Concrete Institute(ICI) in association with DSCE, Blore.



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Dr. SHAILAJA V N, Associate Professor, Dept. of IEM published 2 papers in BMJ, Web of Science Journal, ISSN/E-ISSN 0007-473X, volume 22, Issue 11- 2021 titled-

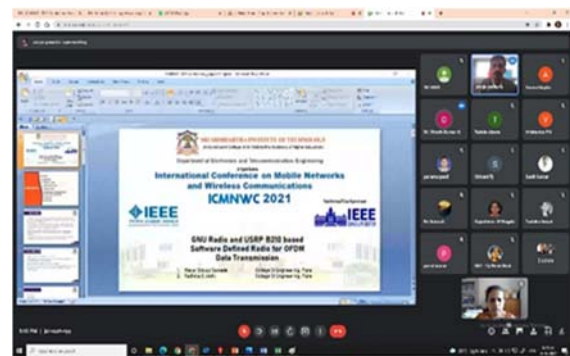
**(i)“Design of Material Allocation Module in an ERP System for Product Industry”**  
(Page No.152-158  
<https://doi.org/11.37896/BMJ22.10/4416> )

**(ii)“Design of Blockchain Framework for Smart Contracts in Agricultural Sector using I.E Techniques”** (Page No 159-164.  
<https://doi.org/11.37896/BMJ22.10/4417>)

Dr. Rajeshwari Hegde, Professor in the Department of Electronics and Telecommunication Engineering received certificate of Appreciation from Institute for Engineering Research and Publication (IFERP), for her contribution as a member of the organizing committee to the International Conference on Advances in Engineering, Science and Management.

Dr.Karsiddappa, Hon’ble Vice Chancellor, VTU addressed(online) all the Principals & Directors regarding academic and examination issues. The Principal, Vice Principal & COE of the college participated in the meeting.

Dr. Rajeshwari Hegde, Professor in the Dept. of Electronics and Telecommunication Engineering chaired a session in the IEEE International Conference on Mobile Networks and Wireless Communication organized by SSIT, Tumkur



M. Tech. students of Mechanical Engg dept. presented papers (online) as cited below in the 66<sup>th</sup> Congress of the Indian Society of Theoretical and Applied Mechanics (ISTAM), an International Conference organized by School of Mechanical Engineering & School of Advanced Sciences, VIT-AP University.

1. Mr.Purushotham Sangappa Lokapur (M.Tech-Machine Design) presented paper on ‘Dynamic Simulation of Low-velocity Impact on a Composite Panel’ under the guidance of Dr. Anil Chandra A. R., BMSCE and Dr. Krishna Lok Singh, CSIR-NAL.
2. Mr.Sai Sagar G. (M. Tech. Manufacturing Sc.,& Engineering) presented paper on ‘Design implementation of radar absorbing



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material for a load bearing Torsion Box Structure’ under the guidance of Dr. Anil Chandra A. R., BMSCE and Mr. Anand Kumar Mall, ADE-DRDO

titled “Image Steganography using RSA Algorithm for Secure Communication”, in 21 IEEE International Conference on Mobile Networks and Wireless Communications (ICMNWC)

**December 4<sup>th</sup>, 2021**

Meeting of the Principal & HODs with Alumni Association of the college was convened to discuss about alumni association plan for the next 6 months, involving alumni in the college events and building alumni-student relationship.



Department of Electronics & Telecommunication Engineering organized a comprehensive viva of Mr Feroz Morab Research scholar under the guidance of Dr. Veena N Hegde, Professor & Head, Dept. of EIE and Dr. Rajeshwari Hegde, Professor, Dept. of ETE.

Dr Balachandra K., Assistant Professor in the dept. of ETE received NPTEL Evangelist and NPTEL star awards for his consistent performances in the courses conducted by NPTEL

Department of Physical Education & Sports Sciences in association with BBMP organized free vaccination drive (Covid 19) and RTPCR test.

BMSCE CIIE, Startup Cell and MHRD IIC BMSCE jointly organized a motivational talk by Mr.Suresh Narasimha, Co-Founder, CoCreate Ventures on “Start Ups are Not Risky Anymore”.

Sri.Shreenivas B, Dr Vasanth Lakshmi, faculty of ETE and students, Ms.Preksha B and Ms.Rishika Harish presented a paper





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BMSCE Basketball team(Men) secured Runners up position in Infini-2021 organized by PES University during 4-7, Dec.2021.

**December 5, 2021**

Mr.Ajay Patel, Mr.Kshitij Sharma and Mr.Prasansa Bhagat, 5th semester students of Electronics and Telecommunication Engineering are selected with ‘A’ grade based on their project and are invited to present a paper on Waste Management of Perishable Fruits and Vegetables in the Project Oriented PBL program at the IUCEE Annual Student Forum 2022. The team is being guided by Dr. Rajeshwari Hegde, Professor, Dept. of ETE.

Sri. M Siva Rama Krishna, Asst. Professor, Dept. of Computer Applications and Incharge of B S Narayan Centre for Advanced Learning & Software Development participated in the event, ‘Prabhuddha Bharat’ organized by VTU as a delegate from the college.



**December 6th, 2021**

Dr. Chandasree Das, Associate Professor, and Smt. Divya S, Assistant Professor, Dept. of EEE, received the NPTEL DISCIPLINE STAR recognition in Electrical Engineering, during July – December 2021 from NPTEL.

Dr. B. Sachin Kumar, Assistant Professor, Department of Mechanical Engineering along with the student, Mr.Vineeth Parashivamurthy published a paper on ‘Analysis and Optimization of Dimensional Accuracy and Porosity of High Impact Polystyrene Material Printed by FDM Process: PSO, JAYA, Rao, and Bald Eagle Search Algorithms’, in *Materials* 2021, 14, 7479. <https://doi.org/10.3390/ma14237479>

**December 7, 2021**

Dr. Indiramma M, Professor, Department of Computer Science & Engineering was invited as a resource person for the ‘Two Week STTP(Online) on Research Opportunities of Artificial Intelligence and Machine Learning in Image processing and analysis’ organized by SRM University, Chennai, to deliver talk on “Deep Learning Algorithms for Image Classification”.

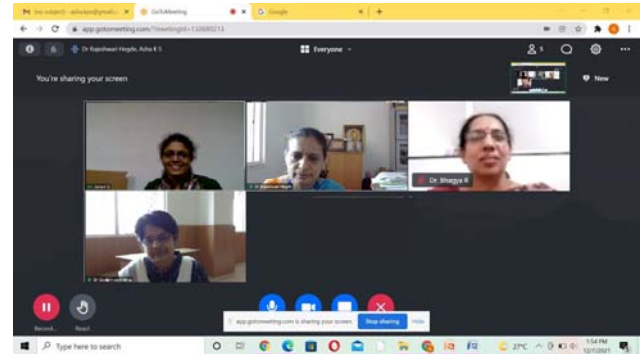
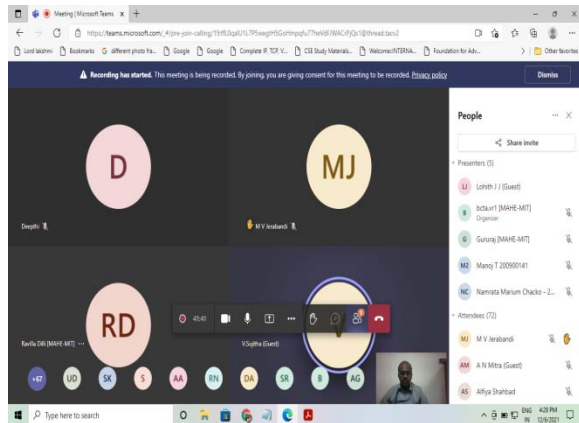




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Sri.Lohith J J, Asst. professor in the Department of Computer Science was invited as a resource person for the Online ATAL FDP on “Blockchain and its applications” organized by MIT, Manipal to deliver talk on “Introduction to Bitcoin and mining” and “Hands on ethereum smart contracts”



**December 8<sup>th</sup>, 2021**

BMSCE CIIE and IIC BMSCE in association with the Department of Electrical & Electronics organized an online workshop on “Entrepreneurship Skill (Attitude and Behavior Development)”. Sri. Sheshnag Chitlur Sreenivasa, Co-Founder, Sunintown Renewables Pvt. Ltd. was the resource person.

Dr.Prasanna Kumar MK, Assistant Professor in the dept. of ETE along with recently passed-out student, Mr.Sriram Ravishankar published a paper titled "Empirical Performance Analysis of Speech Based Age Classification, in 2021 IEEE International Conference on Electronics, Computing and Communication Technologies (CONECCT), 2021, pp. 01-05, doi: 10.1109/CONECCT52877.2021.9622575.

Department of Electronics & Telecommunication Engineering organized an open seminar-2 of the research scholar, MS.Asha K S under the guidance of Dr.Rajeshwari Hegde, Professor, ETE.

B S Narayan Centre for Advanced Learning and Software Development in collaboration with Ethnotech Pvt. Ltd., interacted with Engineering students about industry Certifications and Career Opportunities as a part of IIOP (Industry Institute Outreach Program)

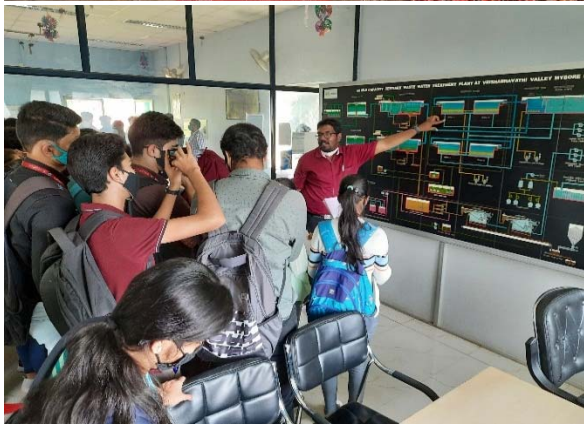




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Dept. of Civil Engineering organised Industrial Visit to Vrishabhavathi Valley sewage treatment plant, Bangalore for fifth semester (C Section) students. Smt. Prathima B, Assistant Professor accompanied the students.



Dr B Kanmani, Professor and Head, Department of Electronics and Telecommunication engineering delivered a lecture on “Engineering Curriculum aligned to OBE and NEP-2020” in a three days webinar on Implementation of National Education Policy organised by the Bangalore Institute of Technology, Bangalore.



**December 09, 2021**

Sri. M R Muralidhara, Foreman and Mrs. Radha B, Technical Assistant, Department of Electronics and Communication Engineering, installed “CADENCE SOFTWARE TOOL” in the systems of Department of Elns & Instrumentation Engg and conducted 3 days workshop for the faculties and instructors of Dept. of EIE on the “Analog and Digital Design Flow” from 9<sup>th</sup>-11<sup>th</sup> December 2021.



Dr. Veena N Hegde, Professor and HOD, Electronics and Instrumentation Engineering along with a final year student, Ms.Amiti Singh presented (online) a paper titled “Performance Analysis of the Variable step-



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size Griffiths' LMS (VGLMS) algorithm for fetal Electrocardiography" in an IEEE international conference on Electrical, Computer and Energy Technologies (ICECET 2021) held during 9<sup>th</sup> & 10<sup>th</sup> December 2021, at Cape Town, South Africa.

Dr K Narasimha Rao, Professor in Electronics & Instrumentation Engineering authored a paper titled, "Model Predictive Controlled-ZCS-Quasi-Resonant-Converter Fed DC drive with enhanced response" in the Web Of Science Journal, Bulletin Monumental Journal along with co-author from other institution ISSN /E-ISSN 0007-473X in Volume 2, Issue 11, Pages : 8 to 13, 2<sup>nd</sup> November 2021

Sri.Gururaja H S, Dr. N. Sandeep Varma, Asst. professors of ISE Department organized talk on "Innovation and Technology" by an industry expert, Sri. Murali N from Hewlett Packard. The talk was organized as a part of VII-semester Industry Motivated Course.



Dr B Kanmani, HOD-ETE was one of the five invited speakers during the International workshop by Mathworks on 'Embedding MATLAB Teaching Tools in Courses', wherein she conducted the session on, 'Teaching Digital Signal Processing using Matlab as an Engineering Tool'.

**December 10, 2021**

R&D proposal under interdisciplinary category has been approved towards funding of Rs.12.06 Lakhs by Dassault Systemes and Co-funded by BMSCE. Dr. N. Sandeep Varma, Assistant Prof. Dept. of ISE is the Principal Investigator of the project and Sri. Devaraj K, Asst.Prof., Dept. of ME & Dr. Kayarvizy N, Asso.Prof., Dept. of CSE are co-investigators in the project. The project is sanctioned for a duration of 15 months.

Dr R V Ranganath, Professor, Department of Civil Engineering delivered a lecture on 'Role of OBE for Implementation of NEP-2020' at Bapuji Institute of Engineering and Technology, Davanagere organised in association with VTU, Belgaum.

Dept. of Civil Engg organised Industrial Visit to Vrishabhavathi Valley sewage treatment plant and Kanva reservoir for fifth semester BE (C Section) students. Dr. Maya Naik, Professor of Civil Engg accompanied the students.





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Department of Computer Applications along with BMSCE IEEE WIE organized a talk on "Information Processing techniques for Mobile sensing applications" by Dr. Prasant Misra, Research Scientist at TCS.



Dr. H. M. Shivaprasad, Associate Professor, Department of Mechanical Engineering was nominated to the Board of Studies in the Dept. of Mechanical Engineering, KLS Gogte Institute of Technology, Belagavi, for a period of three years from 08.09.2021 to 11.08.2024.

14th meeting of Sub Committee of BOG for TEQIP was conducted. The activities during the grace period and project closure procedure were discussed. The Principal, BMSCE and Dr.L.Ravikumar, TEQIP Coordinator acknowledged the chair and member of the committee and Nodal officers for their kind support extended in making TEQIP III project implementation successful in the Institution.



Meeting of the HODs was convened. Presentation on CIIE-its Initiatives, Progress & Openings and a Demo on MATLAB registration and usage of MATLAB tool were presented in the meeting.

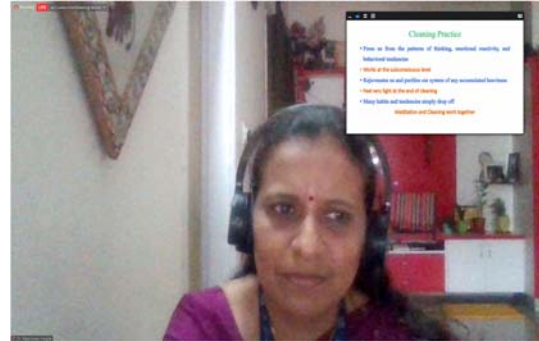


The College Council Meeting was convened to discuss about the commencement of first year BE Classes, inauguration and orientation program.



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Dr. D N Sujatha, Professor, Department of Computer Applications was invited as a guest to IEEE Student Congress 2021, VVIET, Mysore.

**December 11, 2021:**

The Department of Physics convened Board of Studies meeting. Engineering Physics syllabus, both theory & Lab were discussed at length; the modified final syllabus with change in course code for II Sem BE were approved by the BOS.



Dr. Rajeshwari Hegde, Professor, Dept. of Electronics and Telecommunication Engineering presented two papers on “Effect of Heartfulness Meditation on Human Consciousness” and “Heartfulness – The Way of the heart for Self-Transformation” in the Conference on Hindu Meditation Traditions & Techniques organized by INDICA, an institute for global study of indigenous knowledge.

Dr. Rudra Naik, Professor & Head, Department of Mechanical Engineering, BMSCE assumed additional charge as Principal, B. M. S. Evening College of Engineering.





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**December 12, 2021:**

Department of Medical Electronics organised an Extension Lecture series on "Insights on Medical Device Regulatory Affairs and Quality Assurance" by Smt.Manjushree S P, Medical Device Regulatory affairs & Quality Assurance professional at Alcon.

**December 13<sup>th</sup> 2021:**

**Orientation for First year BE Students.**



Orientation Programme for First Year B.E. (2021-2022) students was held from 13.12.2021 to 28.12.2021. Physical Activity, ethos of the institution, Universal Human Values, soft skill development, talk by eminent personalities, activities by pentagram and the Quiz club, creative arts, campus tour and visit to local areas & department, interaction with the department were the highlights of the programme. A lecture on yoga for rejuvenation for the

youth was delivered by Prof.Omkar, Prof.,Iisc, Bangalore.



Sri. Shubham Singh, CEO and Co-founder of Craste, an alumnus of 2010-2014 batch of Chemical Engineering, delivered a talk on "Entrepreneurial Opportunities after graduating from Chemical Engineering" to 7<sup>th</sup> semester students of the department.



A four-day Hands-on Workshop was organized by Mechanical Engineering Association (MEA) on the topic, 'LATEX' conducted by Dr. G. Saravanakumar, Associate Professor, Department of Mechanical Engineering from 13<sup>th</sup>-14<sup>th</sup> and 20<sup>th</sup>- 21<sup>st</sup>, December 2021 for 5<sup>th</sup> Semester



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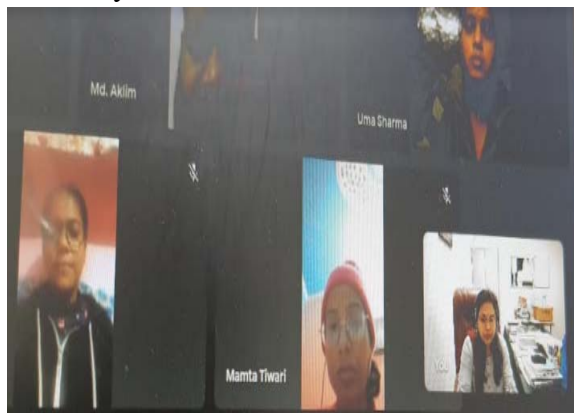
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Students. 38 students participated in the program.



**December 14, 2021:**

Dr. Poornima G, Associate Professor in the Department of Electronics and Communication Engineering was invited as “Mentor” to empower disadvantaged youth students in the Mentorship Program conducted by Freedom Employability Academy, New Delhi.



BMSCE Kabaddi – Women team were the winners of VTU Inter Collegiate Bengaluru Zone Kabaddi Tournament organized by KS

Institute of Technology on 14<sup>th</sup> & 15<sup>th</sup> Dec.2021



Sri.Arjun K, Assistant Professor in the Department of Civil Engineering was invited as Resource Person for Online Training Programme on ICT for teachers from Commonwealth Educational Media Centre for Asia (CEMCA), New Delhi, India conducted during Dec. 14<sup>th</sup> -18<sup>th</sup>, 2021

**December 15, 2021:**

Dr. Seshachalam, Professor, Department of Electronics and Communication Engineering was invited as subject expert for Staff Selection Committee by Nitte Meenakshi Institute of Technology Bengaluru for Faculty Promotion. The interviews were conducted online.

Dr. Rajath Vasudevamurthy, Asst.Professor in the Department of Electronics and



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Communication Engineering attended the meeting of researchers organized by IKS (Indian Knowledge Systems) division of the Higher Education department of MoE. The meeting highlighted the financial support available for Colleges, Universities and other institutions interested in the study, research and promotion of IKS and the event was hosted by the Center of Ancient History and Culture of JAIN (deemed-to-be) University, Bengaluru.

Dr. Chetan A Nayak and Sri.Shivakumar R, faculty of Chemical Engineering were awarded certificate of Appreciation for their exceptional contribution as primary evaluator in Toycathon, 2021 under the Ministry of Education Innovation Cell & AICTE.

Dr.Rajeshwari Hegde, Professor, Department of Electronics & Telecommunication Engineering was invited as a resource person by KSIT, Bangalore for the induction program.



A meeting chaired by the Principal was conducted to review the preparedness for NIRF 2022



A meeting of Board of Governors was conducted.



Smt. Divya S, Assistant Professor, Dept. of EEE, received Certificate of Appreciation from Ministry of Education's INNOVATION CELL (Government of INDIA) and AICTE for exceptional contribution as **Primary Evaluator** in the Pre-Screening round of Toycathon 2021.



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BMSCE Basketball – Men team were the Runners up of VTU Inter Collegiate Bengaluru Central Zone Basketball Tournament organized by BMS College of Engineering.



BMSCE Swimming – Men team were the Runners up in VTU Inter Collegiate Single Zone Swimming Competition organized by Jyothi Institute of Technology.



Dr.B. Mallikarjuna, Assistant Professor in the Department of Mathematics published a research paper titled, ‘Spectral Quasi linearization method and multiple regression analysis of Reiner-Philippoff fluid flow in ZAMM’ in Journal of Applied

Mathematics and Mechanics (Web of Science: Q2)

DOI: 10.1002/zamm.202100071

Dr.B. Mallikarjuna, Assistant Professor, Department of Mathematics published a research paper titled, ‘Numerical and regression analysis of Cu-nanoparticles flows in distinct base fluids through a symmetric non-uniform channel’ in European Physical Journal-Special Topics (Web of Science-Q2)

DOI: <https://doi.org/10.1140/epjs/s11734-021-00400-w>

As a part of XVI International Conference on Vibration Engineering & Technology of Machinery, VETOMAC-2021, three Pre-Conference Workshops were arranged for the benefit of Research Scholars and Post-graduate students . The details are:

### 1. Rotor Dynamics Workshop

Dr. Rajiv Tiwari, Professor, IIT-Guwahati, was the resource person. He covered the aspects of ‘Transverse Vibration of Rotor Systems using Finite Element Method’. The finite element formulation for Rotor systems under different boundary conditions and application of MATLAB to solve problems using above formulation were demonstrated. This workshop was attended by 72 participants.



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art 10 am

## 2. Scientific Writing Workshop

Ms. Priya Vyas, Editor, Applied Sciences and Engineering, Springer Nature Group, conducted the workshop. Requirements of a good Technical article to get accepted for publication in reputed peer-reviewed journal were highlighted. This workshop was attended by around 100 participants comprising of faculty, research scholars and PG students of Department of Mechanical Engineering .



## 3. Vibration Energy Harvesting Workshop

The experts for delivering the workshop were Prof. Grzegorz Litak and Prof. Piotr Wolszczak, Professors from Lublin University of Technology, Poland. Nonlinear dynamics based energy harvesting systems, Modeling, Analysis and simulation for dynamic stability of composite structures, piezoelectric and electromechanical systems and other complex systems were addressed.

Application of these concepts for synchronization of energy harvesting systems with multiple degrees of freedom were demonstrated using MATLAB.

This workshop had participation of about 100 participants.

## December 16th 2021

Department of Electrical and Electronics Engineering organized an Industrial visit to Nelamanagala substation for the students of 7th semester and the visit was coordinated by the faculty members, Dr. Chethan Raj D and Dr. Venkata Madhava Ram Tatabhatla.

Departments of Mechanical Engineering & Aerospace Engineering, BMSCE organized 16<sup>th</sup> edition of **VETOMAC – 2021**, International Conference on Vibration Engineering & Technology of Machinery in association with IIT Guwahati, IIT Patna and TVII (The Vibration Institute of India) from 16<sup>th</sup> to 18<sup>th</sup> December 2021, in memory of Prof. J.S. Rao.



The Inaugural function of VETOMAC 2021 was held on Thursday, 16th December 2021



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in Auditorium-1, B.S. Narayan Platinum Jubilee Block. The conference was inaugurated with exuberance by eminent personalities like, Shri Kota Harinarayana, Shri Nalinaksh Vyas, Smt. Indira Rao (wife of Prof. J.S. Rao), Dr. S. Muralidhara, Principal, Dr. Suresh Ramaswamyreddy, Vice Principal, Shri Aviram Sharma, Trustee, BMSET, Dr. Rudra Naik, HOD, Department of Mechanical Engineering, and Dr. Y. S. Rammohan, HOD, Department of Aerospace Engineering.

The inauguration was followed by a key note address by Dr. V. K. Saraswath, Member, NITI Aayog, and Chancellor, Jawaharlal Nehru University, on the guidelines for the development of architecture for Integrated Vehicle Health Monitoring (IVHM). Sri.Kota Harinarayana delivered a keynote address on IVHM and SHM (Structural Health Monitoring) application in Aerospace and the way of reducing the number of component and monitoring by employing IVHM and SHM.

118 short-listed papers were deliberated during the conference besides a number of invited talks, spread over three days.

The event was widely publicized in the local news papers.

ಚಿತ್ರಕವಚದ, ವಾಗವಿನ್ಯ, ಮಂಗಳ, ಪೂಜಾ, ಪವನಕ ನಿರವ್ಹಾಣ, ಕವನವೇನಿ, ಮೈವಾಸವು ಸೇರಿದಂತೆ ಪಾಂಡಿತಿ ಕೇಂದ್ರವನ್ನೇಕೆ ಪೂರ್ಣಪರಿಷತ್ತು ಕ್ರಮವು.ವೇನೇನು ಎಂದು ಪಟ್ಟಿಪು ಸೂಚನೆ ನೀಡಿದ್ದಾರೆ.

ವಯ್ಯ ವಾಡಿ ಎಂಬ ಅಗ್ರಹವನ್ನು ಸರ್ಕಾರಕ್ಕೆ ಸುಸೇವಕ ಅಭಿವೃದ್ಧಿಯ ಸ್ವಲ್ಪವಾಗಿದ್ದರೆ, ಪಾಂಡಿತಿ ಸೇವಾಕೇಂದ್ರ ಹೆಚ್ಚುವು ವೇನು ನೀಡಬೇಕೆಂದು ಪರಿಶೀಲಿಸಲಾಯಿತು.



Research Paper titled “Optimum Design of Intershaft Squeeze Film Damper (ISSFD) Ring for Vibration Attenuation” presented by Dr. H. M. Shivaprasad, Associate Professor, Department of Mechanical Engineering along with Dr. G. Giridhara, Dr. Raghu Yogaraju, Mr.Yatish Muddappa P. P., Dr. R. N. Ravi Kumar, and Dr. V. Arun Kumar was selected for Best Paper award from Springer in the 16<sup>th</sup> VETOMAC 2021



BMSCE Basketball – Women team secured fourth place in VTU Inter Collegiate Bengaluru Zone Basketball Tournament organized by BMS College of Engineering.





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BMSCE Wrestling & Judo – Men team were Runners up in VTU Inter Collegiate Single Zone Wrestling & Judo competition organized by KLS, Vishwanathrao Deshpande Institute of Technology, Haliyal.



The selected students will work under the guidance of a faculty team lead by Dr. Samita Maitra and comprising of Dr. Sreelakshmi D, Sri. Shivakumar R, Sri. Soumen Panda and Dr. Chetan A Nayak in collaboration with MathWorks.



**December 17, 2021:**

BMSCE Basketball – Women team were the Runners up of VTU Inter Zone Basketball Tournament organized by BMS College of Engineering.



Sri. M R Muralidhara, Foreman and Mrs. Radha B, Technical Assistant, Department of Electronics and Communication Engineering were the resource persons for two days workshop on “CADENCE TOOL FLOW” conducted on 17<sup>th</sup> & 18<sup>th</sup> Dec.2021 for the faculties, research scholars and students of BMSCE. Analog and Digital Design Tool Flow was covered during the course of the workshop.

Department of Electrical and Electronics Engineering organized an Industrial visit to Nelamanagala substation for the students of 5th semester and the visit was coordinated by the faculty members, Dr .Venkatesh B , Smt. Chaitanya .L , Dr. Prakash.D.B and Dr. Dipesh Kumar.

As a part of Industry-Institute Interaction between the Department of Chemical Engineering, BMSCE & MathWorks India Private Limited, a team from MathWorks visited the Department of Chemical Engineering to conduct interviews for selecting students for Informal Internships.



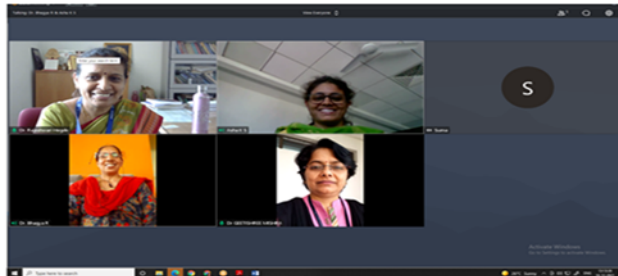


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Smt.Pushpavathi.K.P, Asst.Prof.,Dept. of Electronics & Telecommunication Engineering and Dr. B Kanmani, HOD-ETE published a paper titled “Design of FIR filters for LTE-Advanced technology” in IUP journal of electrical and electronics engineering, Vol. 14, Iss. 4, October 2021. 18-26.

Department of Electronics & Telecommunication Engineering organized a colloquium of the research scholar, Ms.Asha K S under the guidance of Dr. Rajeshwari Hegde,Professor,ETE.



**December 18, 2021:**

Dr.Rajeshwari Hegde, & Dr.Vasantha Lakshmi M., faculty of Dept. of Electronics and Telecommunication Engineering received a certificate of Appreciation for exceptional contribution as Primary Evaluator in “Toycathon 2021” organized by Ministry of Education’s Innovation Cell under AICTE.

Department of Chemical Engineering had organized one-day symposium “Back to Roots” as a mark of tribute to late Dr. H. S.

Usha, who rendered her service as assistant professor in the department of chemical engineering for 15 years. Four lectures were arranged from alumni of the department.



BMSCE Yoga – Men team were the VTU Champions & Women team were the Runners up in VTU Single Zone Yoga Championship organized by Vidyavardhaka College of Engineering, Mysore during Dec.18-19,2021





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**December 19<sup>th</sup>, 2021:**

First year BE programs Inaugural function was arranged and Dr. N C Shivaprakash Retd. Prof., IISc & Mentor to several Educational institutions was invited as the chief Guest for the program. The newly joined students along with their parents participated in the event.



**December 20, 2021:**

Dr. Kalyan Raj, Professor in the Department of Chemistry published a research article titled “Evaluation of Electrochemical and Anticorrosion Properties of Polyaniline-Fly Ash Nanocomposite” in the Hindawi International Journal of Corrosion, Volume 2021, Article ID 1547384, 10 pages, DOI: <https://doi.org/10.1155/2021/1547384>

IIC BMSCE in association with the Department of Electrical & Electronics organized a talk on “Critical Thinking” by Sri. Dhiraj Rao, Freelance Corporate Trainer.

Dr. Shivashankar R. Srivatsa, Assistant Professor in the Department of Mechanical Engineering on nomination by the college, attended as Member of the Assessment Committee of National Council of Science Museums, Ministry of Culture, Government of India, for assessment of promotion cases in respect of technical staff of Visvesvaraya Industrial and Technological Museum.

PG and UG students of Department Mech. Engg., published papers as mentioned below in the Joint International Conference of ICTACEM, APCATS, AJSAE and AeSI2021, organized by Indian Institute of Technology, Kharagpur, held during December 20-22, 2021 under the guidance of Dr. Sudarshan B., Assistant Professor, Department of Mechanical Engineering.

1. Mr.Pranav K. (M. Tech. – Thermal) presented paper titled ‘Shock wave effects on Chitosan biopolymer for drug delivery applications’.
2. Mr.Sanjay A. V. (M. Tech. – Thermal) presented paper titled ‘Effect of oblique shocks interaction on the inlet structure in a hypersonic flow’.
3. Mr.Praful K. (M. Tech. – Thermal) presented paper titled ‘Experimental study on two octave Indian flute acoustics’.
4. Mr.Viswanath, S Mukund, Mr. J V Sujan and Mr.S Suhas (UG students) presented paper titled ‘Aerodynamic

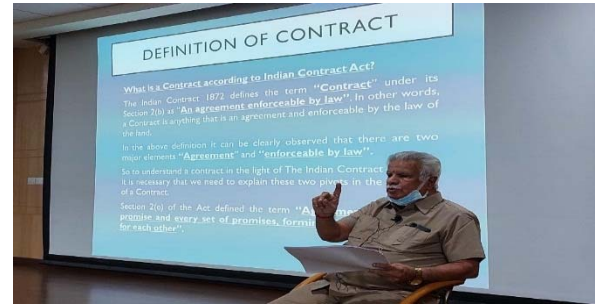


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Study on Airfoil U- shape Tubercles Geometry’.

5. Mr.Rohith J, Mr.Shashank H K, Mr.Akshay S Prasad, Mr.Dheeraj R (UG students) presented paper titled ‘Design of Propulsion System for Propeller-less UAV’.



**December 21<sup>st</sup>, 2021:**

A Guest Lecture on “Nonlinear Dynamics and Chaos” by Prof. Sriranga Rajan, Retd Professor of IIT Bombay was organized for the benefit of students of Depts. of Aerospace and Mechanical Engineering .



Memorandum of Understanding was made between the Principal, BMSCE and M/s CANMED HEALTHCARE, Bengaluru. This MoU aims at development with collaborative work in the area of research leading to industry collaboration, to take it to the level of product and entrepreneurship, to have startup and patent.



Guest lecture on the topic “Contracts, Specifications and Estimations” by Sri.Vasu, Retd. Assistant Executive Engineer, GOK, Expert & Legal Advisor in Contracts, Specifications and Arbitration was organised for VII semester B E(Civil) students. Sri.A Sreenivasa Murthy, Sri.Dheeraj Kumar N and Dr. Manjunath R., faculty in the dept. of Civil Engg., coordinated the event.

**December 22<sup>nd</sup>, 2021:**

Sri. Siva Rama Krishna and Sri.Lakshminarayana P. faculty from MCA briefed about the internship and skill development opportunities for budding Engineers to become industry ready professional, during I year BE orientation program.



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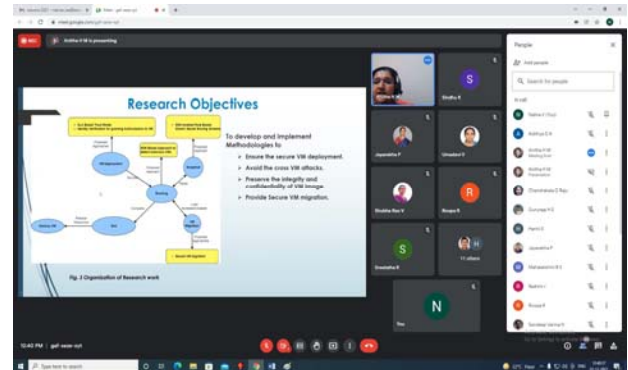
The Dept. of Mech.Engg conducted BOS meeting to finalise the first year BE syllabus.

Ms.Ishika Agarwal, Ms.Swathi D G, Ms.Yashwanthi V and Mr.Adarsh Kumar, 2021 graduated students of Electronics & Telecommunication Engineering published a paper titled “Emotion Recognition from Facial Expression using CNN”, **DOI:** 10.1109/R10-HTC53172.2021.9641578 in the IEEEExplore under the guidance of Dr. Rajeshwari Hegde, Professor, ETE

Mr.Chirag S Rao, Mr.Rahul M and Ms.Srijoni Dasgupta, 2021 graduated students of Electronics and Telecommunication Engineering presented a paper titled “Sustainable Pesticide Usage in Agriculture”, **DOI:** 10.1109/MysuruCon52639.2021.9641700 in the IEEEExplore under the guidance of Dr. Rajeshwari Hegde, Professor, ETE.

**December 23, 2021:**

Ph.D pre-submission colloquium of Mrs.Anitha HM, Asst. Prof. in the Department of ISE under the guidance of Dr.P Jayarekha, Professor, Department of ISE was conducted.



The team, **AGNIDHAIRYA** consisting of students from Dept. of Aerospace Engg, Mr.Abhishek Jain, Mr.Kamalesh, Ms.Bhavani Prasad, Mr.Halesh N. & Mr.Sainath V. Ambalazeri submitted an Initial Concept Report on ‘water Scooping Amphibian Aircraft for Fire-Fighting’ to IIT Bombay for the Fifth National Aerospace Conceptual Design Competition(NACDeC-V). The team was guided by Dr.Y.S.Ram Mohan, HOD-AE, Prof.Kamesh J.V. and Sqn.Ldr(Retd.) K N Ramakrishna.

Meeting of the Principal & Vice Principal with OBE experts in the college was convened to discuss about conducting workshop on ‘Outcomes Based Education’



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for the faculty members who have joined the College since 2016.



Dr. Gnanendra P M., Asst.Professor in the dept. of Aerospace Engg presented a paper, EXPERIMENTAL INVESTIGATION ON THE EFFECT OF PRIMARY AIR FLUX IN A CO-CURRENT BIOMASS GASIFIER in the 1<sup>st</sup> International Conference on WATER, ENERGY & ENVIRONMENT [WEECON 2021], organized by ISET Research India during December 23-24,2021.

Dr.B.Mallikarjuna, Assistant Professor, Department of Mathematics delivered a lecture on "MATHEMATICAL MODELING" in the International Faculty Development Program on "MATHEMATICAL MODELING AND DATA ANALYTICS" organized by the Department of Mathematics, Amity University, Tamil Nadu during Dec. 23<sup>rd</sup> - 29<sup>th</sup>, 2021.

**December 24th, 2021:**

MBA department organized a Guest Lecture on the topic, 'India's new labour codes' by Sri. Rajiv Gopinath, Assistant Professor of Law, B.M.S. College of Law for 3rd semester MBA students of HR specialization.

The Cultural Club of Dept. of Computer Applications hosted a student event, 'Secret Santa' for MCA students and the winners were felicitated.

**December 25th, 2021:**

Department of ISE had organized an e-Webinar on "Augmented Reality & Virtual Reality" by Mr. Sujay, Founder Viga Entertainment Technology, Alumnus of EC Dept. for the benefit of BMSCE students.





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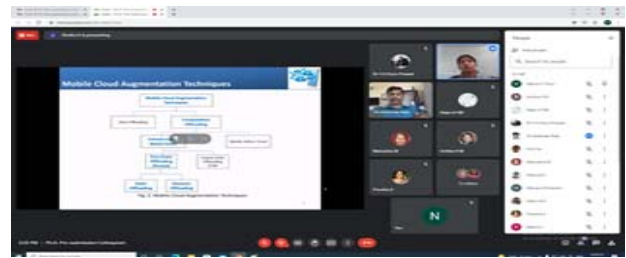
Dr. Rajeshwari Hegde, Professor, Department of Electronics & Telecommunication Engineering was invited as a keynote speaker during 7th International Virtual Conference on Interdisciplinary Research for Sustainable Development organized by International Institute of Organized Research - I2OR (A Registered MSME with Ministry of MSME, Government of India) and Green ThinkerZ (A Registered Society with Government of Punjab, India) in association with Centre for Smart Modern Construction, Western Sydney University, Australia.



Dr B Kanmani, Professor & Head, Department of Electronics & Telecommunication Engineering received a certificate of Appreciation from the ICTIEE 2022 team for her contribution as a Reviewer.

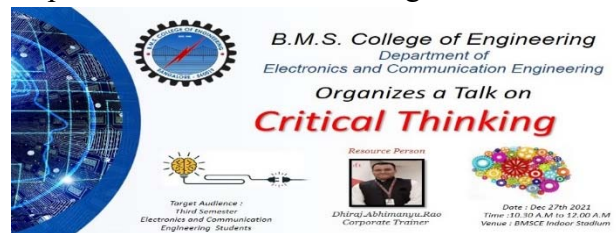
**December 27<sup>th</sup>, 2021:**

Ph.D Pre-submission Colloquium of Mrs. Sindhu K, Asst. Prof., Department of ISE under the guidance of Dr. H S Guruprasad was conducted .



Department of Electronics & Instrumentation organized an Induction program for first year students. The Ex-NAL scientist, Mr. V Shankar gave a talk on “Applications in Instrumentation Engineering” on this occasion. Students interacted with the faculty members and visited all the labs in the department.

Department of Electronics and Communication Engineering organized an interactive session on the topic “Critical Thinking” by Sri. Dhiraj A Rao, Corporate Trainer for the students of 3<sup>rd</sup> semester ECE. Dr. Arathi R Shankar, HOD-EC, Dr. Geetishree Mishra, Mr. Eesha D, Faculties, Dept of ECE were the event organizers.





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Sri. Shashiraj, Assistant Professor, Department of Mechanical Engineering was invited by the Director, Office of the Commissioner, Dept. of Collegiate and Technical Education, Government of Karnataka, as resource person for the Faculty Development Program on “Ansys Software” conducted from 27<sup>th</sup>- 31<sup>st</sup> December 2021 at National Institute of Technical Teachers’ Training and Research, Extension Center, SJP Campus, Bengaluru. The faculty members in dept. of Mechanical Engineering from various polytechnics across the state participated in the FDP.



**December 28<sup>th</sup>, 2021:**

Meeting of the HODs was convened to discuss about the preparedness for NIRF 2022 ranking and other academic issues.



Dr. Arathi R Shankar, HOD-EC, Dr. Geetishree Mishra, Mr. Eesha D, Faculties, Department of Electronics and Communication Engineering organized an interactive session on the topic “Inner Electronics” by Sri. Nitin Nirmal from Health Foundation for the benefit of students of 3<sup>rd</sup> semester ECE



Dr. Poornima G, Asso. Professor, Department of Electronics and Communication Engineering was invited to deliver a talk on “Discovering Your Career” in the Mentorship Program conducted by Freedom Employability Academy, New Delhi.







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Dr. Prema V, Asso.Professor in the Department of Electrical & Electronics was invited as a judge for the poster design contest on Sustainable Energy organized by IEEE PES, IEEE IAS and Amrita School of Engineering, Bangalore.

Dept. of Computer Applications in collaboration with B S Narayan Centre for Advanced Learning and Software Development conducted Hands-on workshop on “Automation Testing Selenium with Python” for third semester MCA students . Smt. Shambavi Gupta, Corporate Trainer demonstrated test cases on Selenium.

**December 29, 2021:**

Dr. Sainath K, Assistant Professor, Chemical Engineering, BMSCE, along with 7<sup>th</sup> semester students, Ms.Smruiti Venkatesh and Ms.Sakina Lokhandwal presented a poster titled “Synthesis of Zeolitic Imidazolate Frameworks-67 Nanoparticles” in 74<sup>th</sup> Annual Session of Indian Institute of Chemical Engineers in CHEMCON 2021 organized by CSIR-Institute of Minerals & Materials Technology, Bhubaneswar, Odisha, India.

Dr. Chetan A Nayak, Assistant Professor, in the dept. of Chemical Engineering presented a research paper titled “Acoustic field assisted demixing studies in aqueous two-phase system with peg and potassium

phosphate” authored by Dr.Chetan A. Nayak, Smt.Devika R. Balasubramanian, & Sri.Shivakumar R in 74<sup>th</sup> Annual Session of Indian Institute of Chemical Engineers in CHEMCON 2021 Organized by CSIR-Institute of Minerals & Materials Technology, Bhubaneswar, Odisha, India.

Mr. Shivakumar R, Assistant Professor, Chemical Engineering, BMSCE, presented a research paper titled “Micromorphology and Pore Size Evaluation of Biomass Chars During Pyrolysis” authored by Sri.Shivakumar R, Smt.Devika R. Balasubramanian, and Dr.Samita Maitra in 74<sup>th</sup> Annual Session of Indian Institute of Chemical Engineers in CHEMCON 2021 Organized by CSIR-Institute of Minerals & Materials Technology, Bhubaneswar, Odisha, India.

Dr. Suma M N, Mr. Jeeru Dinesh Reddy, Mrs. Latha H N, Faculties in the department of Electronics and Communication Engineering conducted refresher programs as cited below for 3<sup>rd</sup> semester E & C students .

- ‘**Writing for Grants and Project Proposals**’ by Prof. Suma M N.
- Demonstration on using “**Latex Tools**” for **Report Writing and Technical Paper Preparation**” by Prof. Latha H N.
- **Rubrics** about the “**Mini Projects and Major Project Presentations**” by Prof. Jeeru Dinesh Reddy.



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Dr. Shubha Muralidhar, Asst.Professor, Department of Management Studies & Research Centre was invited as an External expert for Pre-Ph.D. Colloquium of Mr. Sumukh S.G (USN 1BG13PBN02), Research Scholar, BNMIT, Bengaluru.

Mrs Dhanya G., Research scholar in Department of Physics doing her Ph.D. under the guidance of Dr. T S Pranesha, Professor, Department of Physics, delivered an Open seminar II of her Ph.D. work on the title “Variability of Atmospheric Trace Gases over Southern tropical Megacity Bengaluru”.

**30th December 2021:**

Department of Electrical & Electronics Engineering organised an Industrial Visit to Karnataka Solar Power Development Corporation Limited (KSPDCL), Pavagada 2050 MW Solar Power Park, Tumkur District for the 5th Semester students. The visit was coordinated by Dr. Umavathi M, Dr. Prakash.D.B, Dr.Chethan Raj D, and Dr. Dipesh Kumar.



Free vaccination (Covid-19) drive and RTPCR test was organized by Department of Physical Education & Sports Sciences in association with Bruhath Bengaluru Mahanagara Palike.



Department of EIE renewed the MoU with Mitsubishi Electric India from December 2021 to December 2023. It may be recalled that the MEI has set up a PLC & SCADA Lab in BMSCE and the same would be upgraded to a Lab of Factory Automation shortly.

Department of Electronics & Instrumentation organized a technical talk on “Sustainable solutions for Complex Engineering Problems - Key Challenges” by Mr. Tito Kishan Vemuri Innovation Coach/Director, TRIZ Deployment of MATRIZ in India & Mr. Santhosh Jois ,BMSCE Alumnus, research scholar @ IIT Bombay. The talk was aimed at



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encouraging students to practice existing methodologies while tackling new challenging problems using technology, management of products and patenting.

B S Narayan Centre for Advanced Learning and Software Development and Department of Computer Applications in collaboration with LGSi conducted Placement drive for MCA students. LGSi selected seven MCA students for placement.

Dr. D N Sujatha, Professor, Department of Computer Applications was invited as a Guest of honor for the inauguration of IEEE Student Branch at RYMCE, Ballari.

**December 31<sup>st</sup>, 2021:**

Sri.Gururaja H S, Dr. N. Sandeep Varma faculty of dept. of Information Sc., & Engg., organized an industry expert talk on 'Corporate Innovation' by Mr.Manjuprakash Rama Rao, Director, Advanced Technologies, Honeywell. The talk was organized as a part of VII-semester Industry Motivated Course.