



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

REPORT ON COLLEGE ACTIVITIES – JUNE 2020

June 1, 2020: BMSCE signed an MoU with M/s. XcelNow Solutions, Bengaluru, an Embed System Development company for ‘Joint development of a medical device’, Commercialization agreement to be used for analysis of temperature for breathing related cases



June 1, 2020: Sri.N.S.Suresh, Faculty, Department of Electrical Engineering contributed for the Book chapter “Smart Grid in Indian Scenario”, in The book titled “Smart Grid and Micro-grids – Technology Evolution” by Scrivener (Wiley) publication

June 2, 2020: Sri.N.V.Sreekanth, Faculty, Department of Mechanical Engineering & 3D-Printing Lab In-charge and Dr.Abhishek Appaji, Faculty, Department of Medical Electronics & Institutional Coordinator for R&D **received grant of 5000USD from IEEE Humanitarian Committee for the project titled “3D Printed Self Care Kit for Underserved Community in Urban Slums” to combat COVID19.** This project is being executed by Mr.G.K.Shekar, from 3D Printing Lab Propel Lab-II and Mr.N.Praveen from Product Innovation Lab BMSCE



June 2, 2020: Dr.Kalyan Raj, Professor & Head, Department of Chemistry and Mrs.S.Sangeetha, Research Scholar published research paper titled “Energy Storage Applications of Cobalt and Manganese Metal–Organic Frameworks” **in the refereed Journal of Inorganic and Organometallic Polymers and Materials, published by Springer**

June 2, 2020: Dr.Kalyan Raj, Professor & Head, Department of Chemistry, published research paper titled “Electrochemical and Spectroscopic Studies of Interaction of Rizatriptan Benzoate with calf thymus DNA” **in the International Journal on Physical Sciences, Vol. 11 Pg. no. 9-13**

June 3, 2020: Department of Mechanical Engineering Association organized an awareness talk on “Corona and health care”. The talk was delivered by **Dr.Ashish Chandra, Professor of Health Care Administration, University of Houston, Clear Lake**



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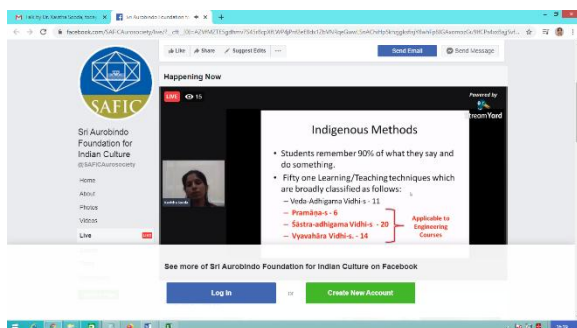
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June 3, 2020: Department of Mathematics organized online Pre-submission thesis colloquium in respect of the following research scholars under the Guidance of Dr.S.Jayanthi, Professor, Department of Mathematics from June 3-5, 2020:

- Ms.M.Revathy, presented on “ A Study of Laminar Boundary Layer Flow of Nanofluids”
- Ms.T.Kavita presented on “An Implicit Method for Incompressible Fluids”
- Mr.B.Ammani Kuttan presented on “Buoyancy Induced Boundary Layer Flows”

June 4, 2020: Dr.Kavitha Sooda, Faculty, Department of Computer Science & Engineering delivered a talk on Facebook, under SAFIC Auro society on “Application of Bharatiya methods of learning - Insights from Ancient India”



June 5, 2020: BMSCE organized Hackathon “Beat the COVID-19 Pandemic” from June 5-7, 2020. There were ten themes and teams had to work on a specific themes. Students from various disciplines participated. Two teams viz., S.K.Nikhil (Team 1) and A.Akhila, Aman Jain, Anmol Kumar, Aditya Kumar and Kesabyr Akshata Gurunath (Team 2) under the mentorship of Dr.B.R.Shambhavi secured 1st and 3rd place with prize amount of Rs.25,000 and Rs.10,000 respectively



June 5, 2020: Dr.B.Mallikarjuna, Faculty, Department of Mathematics was invited as Resource person to deliver talk in the National Webinar on Innovative Approaches in Differential Equations organized by Vignana Bharathi Institute of Technology, Telangana

June 6 2020: Dr.V.Saisha, Faculty, Department of Biotechnology was invited as Evaluator for BMSCE COVID19 Hackathon

June 8, 2020: Dr.T.S.Pranesha, Professor Department of Physics & COE was invited as member of BOA by RVCE, Bengaluru



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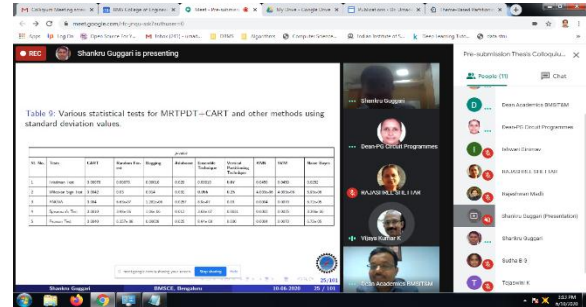
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June 10, 2020: Dr.K.Padmavathi, Faculty, Department of Electrical Engineering delivered a talk on Research opportunities and recent research in Solar PV technology in Faculty Development Programme organized by Panimalar Institute of Technology, Chennai

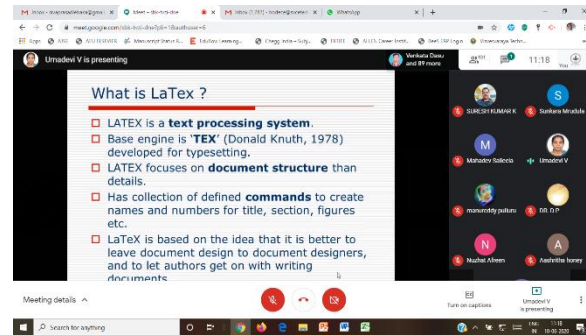


June 10, 2020: Dr.Chandasree Das, Faculty, Department of Electrical Engineering published research paper titled “Electrical switching and crystalline peak studies on $\text{Si}_{20}\text{Te}_{80-x}\text{Sn}_x$ ($1 \leq x \leq 7$) chalcogenide bulk glasses” in the **Refereed Journal of Non-Crystalline Solids Elsevier** along with her Research Scholars Mr.K.B.Jagannatha and Ms.Diptoshi Roy

June 10, 2020: Department of Computer Science & Engineering organized Ph.D thesis colloquium in respect of Mr.Shankru Guggari under the guidance of Dr.K.Vijaya Kumar, Head, Department of Computer Applications through online. The title of the research work was “Partitioning Approaches to Decision Tree Techniques”



Jun 10, 2020: Dr.V.Umadevi, Head, Department of Computer Science & Engineering was the resource person for the online workshop on “Training on Latex for Report Writing” organized by Sri Venkateswara College of Engineering & Technology, Chittoor, Andra Pradesh



June 10, 2020: Smt.Chandrakala G Raju, Faculty, Department of Information Science & Engineering has been awarded with Recognition Certificate from UNISYS Global Services Pvt Ltd, for the efforts made towards guiding students in cloud 20/20 Year 11 Technical Project Contest

June 10, 2020: Department of Information Science & Engineering organized series of WebEx sessions from IBM on “Cloud security and Normal Forms” by IBM Experts which helped students with additional knowledge in writing Normal Forms



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June 10, 2020: Department of Management Studies organized two week online Faculty Development Programme on “Research, Publication & Funding” from June 8-19, 2020. There were 130 participants from across the country and various domains

June 10, 2020: Dr.B.Mallikarjuna, Faculty, Department of Mathematics was invited as Resource person to deliver talk in the National Webinar on Differential Equations Approach in Mathematical Modelling organized by Government First Grade College, Chintamani

June 11, 2020: Department of Civil Engineering in association with the IGBC student chapter organized Webinar series on “Sustainable Construction” from June 11-13, 2020

June 11, 2020: Sri.N.V.Sreekanth, Faculty, Department of Mechanical Engineering delivered an industry invited Webinar for EEPIC technology centre on “Opportunities in Additive Manufacturing for Indian Industries Post Lockdown”. More than 100+ industries registered for this session

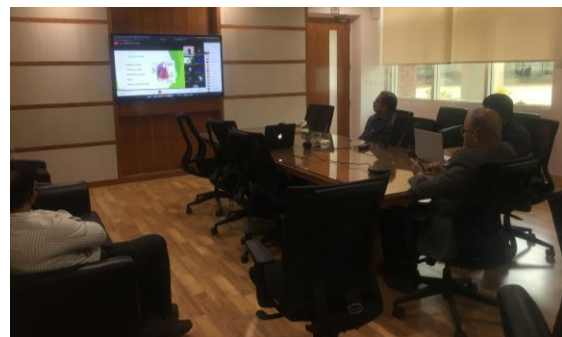


June 11, 2020: Sri.H.S.Gururaja, Faculty, Department of Information Science & Engineering delivered a talk on “Network Intrusion Detection System - Research Avenues and Perspectives” as part of the five day webinar series on research focus in computer science organized by DSATM, Bengaluru

June 11, 2020: Dr.Latha Kumari, Faculty, Department of Physics along with Mr.M.Uday Kumar and Ms.R.Swetha Research Scholars published research paper titled “Synthesis, structure and optical properties of Indium filled CoSb₃ nanomaterials” in **Journal of Physics: Conference series, Volume:1495.**

<https://iopscience.iop.org/article/10.1088/1742-6596/1495/1/012006>

June 12, 2020: Department of Mechanical Engineering organized an online talk on “Importance of Heart Health”. The talk was delivered by Dr.Venugopal Rama Rao, Former Department Head, Jayadeva Institute of Cardio-Vascular Sciences & Research and Senior Consultant-Cardiothoracic and vascular surgeon, Hanumagiri Clinic, Bengaluru





B.M.S. COLLEGE OF ENGINEERING, BENGALURU
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June 12, 2020: Dr.G.Shashi Kumar, Faculty, Department of Industrial Engineering & Management was the resource person for a National Webinar on “Repercussions of Pandemic on Women” organized by University College of Arts, Tumkur University



June 14, 2020: Sri.N.S.Suresh, Faculty, Department of Electrical Engineering filed Indian patent, Title: “Mind controlled Drone: using Brainwaves and deep learning to control drone through thoughts”. File number: 202041024955

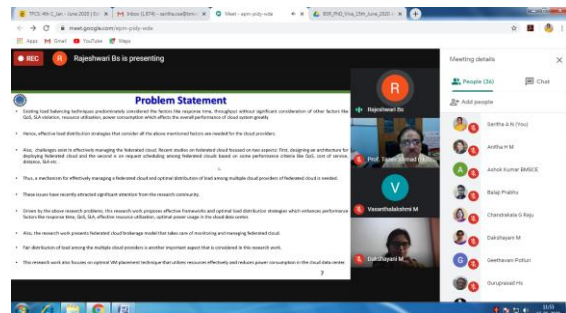
June 12, 2020: Ms.B.S.Shivani and Ms.H.Bhavani, students of 2nd semester MBA won First place in the Marketing event at the online Management Fest organized by RNSIT, Bengaluru



June 15, 2020: Department of Civil Engineering in association with the ISTE student chapter organized one-week online Faculty Development Programme on “Structural Health Monitoring and its Implications” from June 15-19, 2020

June 15, 2020: Department of Computer Science & Engineering organized Ph.D defence in respect of Research Scholar and faculty of Department of ISE, Smt.B.S.Rajeshwari on thesis titled “Optimal Resource utilization and Effective Load balancing Mechanisms in Cloud Computing Environment”, under the guidance of Dr. M Dakshayini

June 13, 2020: 10th Meeting of the Sub Committee of BOG of TEQIP-III was convened. The Committee discussed on TEQIP-III activities





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June 15, 2020: Dr.B.Mallikarjuna, Faculty, Department of Mathematics was invited as Resource person to deliver talk in the one week Faculty Development Program on Importance of Fourier Series and Transforms organised by Ghousia College of Engineering, Ramanagar from June 15-20, 2020

June 16, 2020: Dr.M.Umavathi, Faculty, Department of Electrical Engineering published research paper titled “Isolated Bidirectional DC-DC Converter for UPS Application” in the International E-Conference on recent trends in Electronics, Computing and Communication Engineering (ICRTECC 2020) organized by Saveetha School of Engineering, Chennai

June 16, 2020: Sri.H.S.Gururaja, Faculty, Department of Information Science & Engineering delivered a talk on “AI for Cyber Security” as part of the Online open course on cognitive security conducted by BMSIT&M, Bengaluru

June 17, 2020: Sri.N.S.Suresh, Faculty, Department of Electrical Engineering delivered webinar talk on “Innovative projects for real time application” organized by St Mother Theresa Engineering College, Vagaikulam, Thoothukudi

June 18, 2020: Dr.B.Mallikarjuna, Faculty, Department of Mathematics was invited as Resource person to deliver talk in the International four day Webinar Sameekaran on Importance of Mathematics organized by Andhra Mahila Sabha Arts & Science College for Women, Hyderabad, Telangana from June 18-21, 2020

June 19, 2020: 76th Meeting of the Board of Governors was convened. The Board deliberated on Administrative, Academic and TEQIP matters



June 19, 2020: Dr.R.V.Ranganath, Professor, Department of Civil Engineering addressed a live WEBINAR on “An overview of Geopolymer Concrete and Its Application” organized by Eswari Engineering College, Ramapuram, Chennai.



B.M.S. COLLEGE OF ENGINEERING, BENGALURU
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REPORT ON COLLEGE ACTIVITIES – JUNE 2020

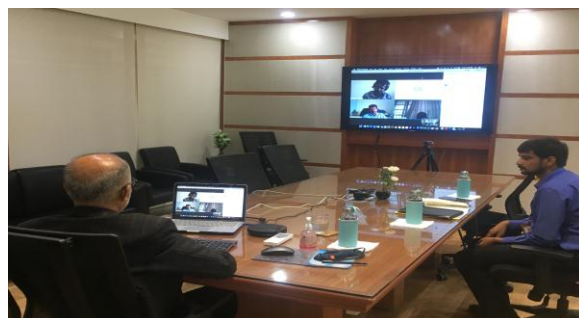
June 20, 2020: Dr.A.Satya Nandini, Professor, Department of Management Studies participated in the SAIL Case competition 2020 along with faculty members of other institutions and **won a prize money of Rs.5,000.** The final presentation was done on Webex and the case on "GO DESi: Scaling up challenges of a Social Enterprise" was published in the silver jubilee SAIL book of cases



June 21, 2020: Dr.Kavitha Sooda, Faculty, Department of Computer Science & Engineering presented paper titled "Health Attribute analysis and tracking using smart watch technology" along with final year UG students Mr.Tejas Kumar and Siddarth Pai **in the IEEE International Conference on Recent Engineering and Technology, Bengaluru**

June 21, 2020: Dr.Kavitha Sooda Department of Computer Science & Engineering published paper titled "Cancer Detection using Lung CT images" along with final year UG students Mr.Suhas M Suresh, Mr.Shrinidhi P Shetty, Mr.T.P.Omkar and Ms.Vaishnavi Rao **in the International Journal of Research in Electronics and Computer Engineering (IJRECE), Volume 8, Issue 2, June 2020**

June 22, 2020: Meeting (Online) of the Local Inquiry Committee (LIC) of Visvesvaraya Technological University (VTU), Belagavi with regard to annual inspection and affiliation



June 22, 2020: Department of Civil Engineering in association with DHI (India) organized one week online Faculty Development Programme on Advances in "Modelling of Hydrological Extreme Events" from June 22-26, 2020 under TEQIP-III

June 22, 2020: Dr.M.V.Murugendrappa, Head, Department of Physics published research paper titled "A study on the effect of PVDF on the structural and transport properties of polyaniline" **in the International Journal of Polymer Analysis and Characterization: Taylor and Francis Publication, ISSN: 1023-666X (Print) 1563-5341 (Online) with Impact Factor = 1.426.**
doi.org/10.1080/1023666X.2020.1779431

June 22, 2020: Dr.Kalyan Raj, Professor & Head, Department of Chemistry published research paper titled "A study on the effect of PVDF on the structural and transport properties of polyaniline" **in the International Journal of Polymer Analysis**



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and Characterization 10.1080 / 1023666X.2020.1779431

June 24, 2020: Startup Cell and MHRD IIC BMSCE organized two days Webinar on “Enhancement of Curriculum through CDIO” from June 24-25, 2020. Dr.P.Meena, Professor & Head, Department of Electrical Engineering delivered a talk on “Curriculum design based on Active and Experiential Learning”

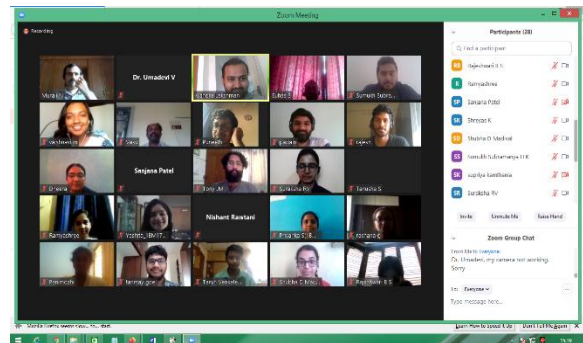
June 25, 2020: Dr.B.Mallikarjuna, Faculty, Department of Mathematics was invited as Resource person to deliver talk in the one week National Level Faculty Development Programme on Mathematical Modeling & Simulation organized by Maturi Venkata Subba Rao (MVSR) Engineering College, Hyderabad, Telangana from June 25-30, 2020

June 27, 2020: Dr.K.Padmavathi, Faculty, Department of Electrical Engineering acted as Chairperson for Session-1 in the AICTE sponsored Fifth international conference ICINETET’20

June 29, 2020: Department of Civil Engineering in association with ISTE, TEQIP-III, IWWA and supported by Visvesvaraya Jala Nigam Limited organized one week online Faculty Development Programme on “Green Energy” from June 29 – July 4, 2020

June 29, 2020: Department of Mechanical Engineering organized a talk on pre-placement for the students of 6th semester. The talk was delivered by Sri.Ananth Nag, Delivery Head, Tata Consultancy Services (Alumni of 1997 batch)

June 29, 2020: Department of Computer Science & Engineering organized the programme Catch Them Young (CTY) initiated by HPE which started during February 2020. Four teams of 6th Semester students of CSE were working on four live projects given by HPE under the leadership of Mr.Murali, HPE. Each project team consisted of four students, one faculty mentor and one HPE mentor. Final project presentation through online concluded on 29.06.2020 along with HPE mentors



June 30, 2020: Dr.R.V.Ranganath, Professor, Department of Civil Engineering delivered a lecture (online) on “Outcome based Education & self- Assessment Report” in the Margadarshan Initiative online workshop organized by AICTE

June 30, 2020: Samsung PRISM BMS Phase-2 Mid Review was conducted for the project titled “Annotation & MACRO Based Pre-processor Engine for Feature Merging and De-Merging”



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June 30, 2020: Dr.M.S.Chandraprasad, Faculty, Department of Biotechnology published a work article titled “Production and investigation of the physico-chemical properties of MEL-A from glycerol and coconut water” **in Springer: World Journal of Microbiology and Biotechnology, vol.36,pg.1-11with impact factor: 2.65.** <https://doi.org/10.1007/s11274-020-02857-8>.

June 30 2020: Dr.V.Saisha, Faculty, Department of Biotechnology was invited as Reviewer for Journal of Pharmaceutical Research and Therapeutics

June 30, 2020: Dr.G.S.Ananthnag, Faculty, Department of Chemistry published research paper titled ‘Novel acentric D-p-A-p-D nonlinear optical (2E,4E) dimethylamino)phenyl]-1-(4-penta-2,4-dien-1-one crystal for second factor and third order nonlinear applications’ **in the Journal of Chemical Sciences’ a web of science indexed journal with impact 1.496 published by Springer. Year: 2020, Vol: 132, Pgs. 1-8**

June 30, 2020: Dr.S.Jayanthi, Professor, Department of Mathematics & Dean (First Year) published research paper titled “Performance of four Different Nanoparticles in Boundary Layer Flow over a Stretching Sheet in Porous Medium Driven by Buoyancy Force” **in the International Journal of Applied Mechanics and Engineering, Vol.25, No.2, pp.1-10, June 2020**

June 30, 2020: Dr.G.N.Sekhar and Mr.Anthony Christ Melson, Faculty, Department of Mathematics published research paper titled “Nonlinear Analysis of Effect of Rigid Body Rotation on Ferroconvection **in the Journal of Heat Transfer, Vol.142, June 2020**

June 30, 2020: Dr.B.Mallikarjuna, Faculty, Department of Mathematics published research paper titled “Convective Flow of a Ferrofluid Between Rotating Stretchable Disks in An Anisotropic Porous Medium” **in the International Journal of Advanced Science and Technology, Vol. 29, No. 6, (2020), pp. 3590 – 3598, ISSN: 2005-4238, June 2020, Scopus Journal**