



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

REPORT ON COLLEGE ACTIVITIES – JULY 2020

July 1, 2020: Dr.R.S.Geetha and Dr.A.N.Nagashree, Faculty, Department of Electrical & Electronics Engineering along with Ms.Sowmya, student of M.Tech published research paper titled “Comparison of Voltage Stress Across The MOSFET Switch of a Fly back Converter With Various Snubbers” in the **International Journal of Innovative Science and Research Technology (IJISRT)**, ISSN No. 2456-2165 Impact Factor - 6.253

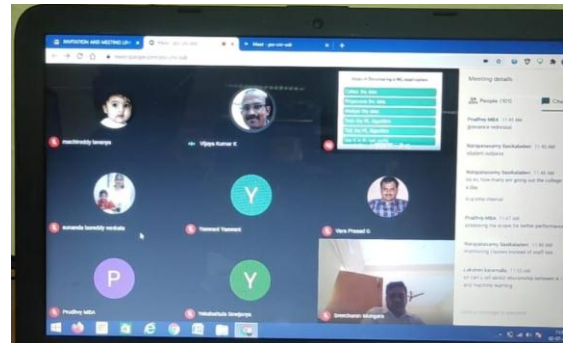
July 1, 2020: Dr.A.N.Nagashree, Faculty, Department of Electrical & Electronics Engineering along with Mr.Shreevara S Hegde, student of M.Tech published research paper titled “Improvement of Power Quality And Speed Regulation Of A Bldc Motor Drive Using An Interleaved Converter” in the **International Journal of Engineering Applied Sciences and Technology**, 2020 Vol. 5, Issue 2, ISSN No. 2455-2143, Pages 149-155

July 2, 2020: Dr.M.K.Prasanna Kumar, Faculty, Department of Electronics & Telecommunication Engineering along with student, Mr.Sriram published paper titled “Prediction of Age from Speech Features Using a Multi-Layer Perceptron Model” in 11th IEEE ICCCNT 2020 organized by IIT, Kharagpur. This paper was based on the research project completed under the SAMSUNG PRISM program

July 3, 2020: Department of Electronics & Telecommunication Engineering organized an invited talk on “Journey of translate an Idea to a Prototype”. The talk was delivered by Mr.Vinay Rao (Alumni), Staff Engineer, Cohesity



July 2, 2020: Dr.K.Vijaya Kumar, Head, Department of Computer Applications was invited to deliver Webinar on “Machine learning” during e-impact lecture workshop on “Intellectual property Rights and Innovations in Technology” by KLM College of Engineering for Women, Kadapa



July 3, 2020: Sri.P.Lakshminarayana, Faculty, Department of Computer Applications published paper titled “Automatic Generation and Optimization of Test case using Hybrid Cuckoo Search and Bee Colony Algorithm” in the **Journal of Intelligent System**, Publisher: DE GRUYTER



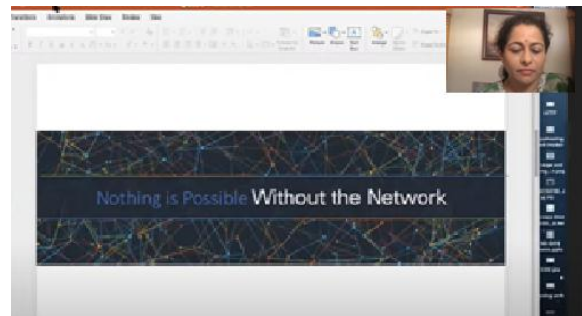
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July 4, 2020: Protocol Club of the Department of Computer Science & Engineering organized Protocol Day, annual event through online from July 4-5, 2020



July 6, 2020: Department of Electronics & Telecommunication Engineering under IEEE BMSCE student chapter organized an invited talk on “Disaggregation of HW and SW in Networking-Trends”. The talk was delivered by Smt.Sushma Srikanth, Senior Director, CISCO, USA

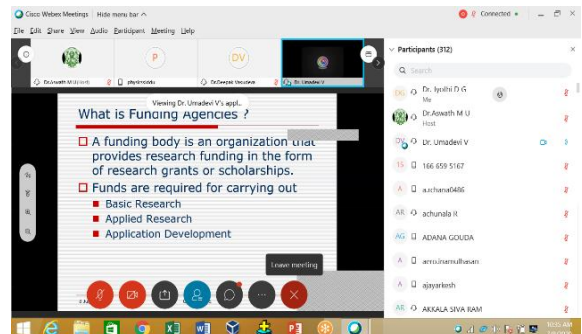
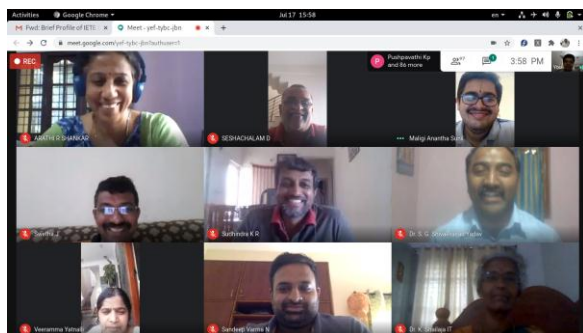


July 6, 2020: Dr.V.Prema, Faculty, Department of Electrical & Electronics Engineering was invited to deliver lecture sessions through online on the topics “Artificial Neural Networks – Concepts”, “ANN Applications” and Hands-on-sessions on “Fuzzy Logic using MATLAB” and “ANN using MATLAB” in the Faculty Development Programme on AI Techniques to Electrical Engineering by UGC-HRDC, JNTUH, Hyderabad from July 6-10, 2020

July 6, 2020: Dr.B.Mallikarjuna, Faculty, Department of Mathematics was invited as Resource Person for five day Webinar on Mathematical Perspectives on Computational Science and Engineering by Ramaiah Institute of Technology, Bengaluru from July 6-10, 2020

July 6, 2020: Department of Electronics & Communication Engineering in association with the Institution of Electronics & Telecommunication Engineers (IETE, Bangalore Centre) organized two week online Faculty Development Programme on “Applied Data Science” from July 6-17, 2020

July 8, 2020: Dr.V.Umadevi, Head, Department of Computer Science & Engineering was invited as resource person for the online Faculty Development Programme on “R&D Funding Agencies and Opportunities” by Bangalore Institute of Technology, Bengaluru





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July 8, 2020: Department of Information Science & Engineering organized a Session on “Java Programming and its Applications” for the students of 4th semester. Resource person was Mr.R.Nagesh, Assistant Manager, IBM, Bengaluru

July 10, 2020: The following faculty members of the Department of Mechanical Engineering presented research papers in the 4th International Conference Advanced Research in Mechanical, Materials and Manufacturing Engineering (ICAMMME-2020), organized by Reva University, Bengaluru from July 10-11, 2020:

- Dr.Shivashankar R Srivatsa presented paper titled “Finite Element Model updating of Boring Bar and Determination of Chatter Stability”
- Sri.V.Ramrohit presented paper titled “A study on the potential use of Soybean and Coconut Oil as carrier fluids for Smart Materials and their applications”

July10, 2020: Dr.M.Indiramma, Professor, Department of Computer Science & Engineering was invited to deliver webinar on “Introduction to Deep Learning” by Oxford College of Engineering, Bengaluru

July 10, 2020: Department of Information Science & Engineering organized a Session on “Analysis & Design of Algorithms” for the students of 4th semester. Resource person was Mr.Nalini Kannan, Software Engineer, IBM, Bengaluru

July 10, 2020: Department of Electronics & Telecommunication Engineering organized an invited talk on “How to be a successful entrepreneur? The talk was delivered by **Mr.Sanjay Sehgal, Chairman & CEO, MSys Technologies, USA**



July 10, 2020: Department of Information Science & Engineering organized a Session on “Machine Learning-Reinforcement Learning” for the students of 6th semester. Resource person was Mr.Amrinmaria R Adawadkar, Software Engineer, IBM, Bengaluru

July 11, 2020: Dr.Rajeshwari Hegde, Faculty, Department of Electronics & Telecommunication Engineering was invited as resource person for the online short term training program on “Analysis and research aspects of effect of stress on physical and mental wellbeing” by KLS Gogte Institute of Technology, Belagavi

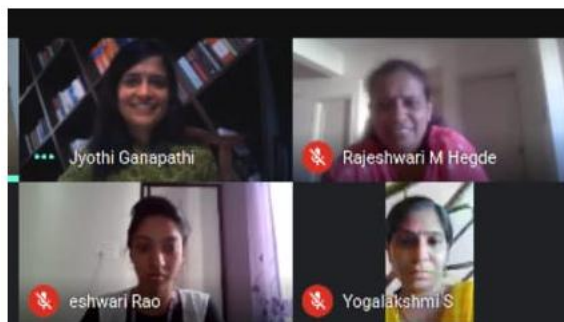




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July 11, 2020: Dr.Rajeshwari Hegde, Faculty, Department of Electronics & Telecommunication Engineering was invited as resource person for the online workshop on “Managing the Self during Pandemic” by East West Institute of Technology, Bengaluru



July 13, 2020: Department of Mechanical Engineering in association with ISTE - BMSCE Chapter organized one week online Faculty Development Programme on “Recent Advances in Heat Transfer Engineering & A session on Creativity for Researchers and Engineers” from July 13-17, 2020

July 13, 2020: Department of Information Science & Engineering under ISE Student Club organized a week-long event “Online Talent Hunt” to bring out the talent within you from July 13-19, 2020

July 13, 2020: Dr.K.Balachandra, Faculty, Department of Electronics & Telecommunication Engineering won a poetry contest in Kannada for his poem titled “Bannisalaagada Baduku” at IIIT Bangalore Literature Club

July 14, 2020: Dr.K.E.Ganesh and Dr.T.S.Pranesha, Faculty, Department of Physics jointly published research paper titled “Assessment of Radon and Thoron Exhalation from Soils and Dissolved Radon in Ground Water in the Vicinity of Elevated Granitic Hill, Chikkaballapur District, Karnataka, India” in **Radiation Protection Dosimetry (2020)**, pp. 1–8, ISSN: 0144-8420 / 1742-3406 (Print) with Impact Factor-0.831

<https://doi.org/10.1093/rpd/ncaa099>

July 15, 2020: Mr.Arpth Agarawal, Mr.Prakhar Chaube and Mr.Saket, students of 8th semester Information Science & Engineering **Won Second Prize in BITES Accelerator program for BEST Project** under the guidance of Dr.N.Sandeep Verma. **The project was placed 2nd among 181 projects from all over Karnataka state. The cash prize of Rs.15,000/- was awarded to the student team and Rs.5,000/- for the faculty**

July 15, 2020: Dr.C.Gururaj, Faculty, Department of Electronics & Telecommunication Engineering along with students, Ms.Veena Nayak, Ms.Sushma P.Holla and Mr.K.M.Akshaya Kumar published research paper titled “Automatic number plate recognition” in the **International Journal of Advanced Trends in Computer Science and Engineering, Vol. 9, No. 3, pp 3783 – 3787, ISSN 2278-3091**



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July 15, 2020: Dr.C.Gururaj, Faculty, Department of Electronics & Telecommunication Engineering along with students, Mr.Sameer V Kulkarni, Mr.M.Shashang and Ms.Shriya Umesh published research paper titled “Attendance Marking System using Facial Recognition” **in the International Journal of Advanced Trends in Computer Science and Engineering, Vol. 9, No. 3, pp 3588 – 3594, ISSN 2278-3091**

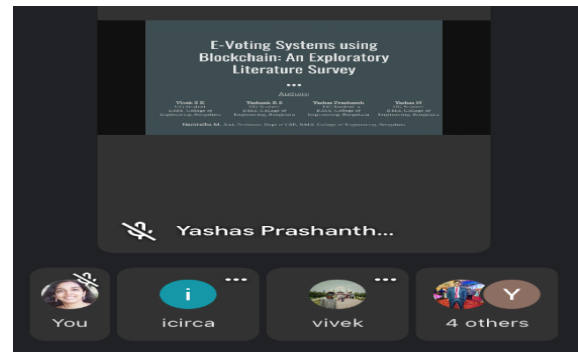
July 15, 2020: Dr.Lata Kumari, Faculty, Department of Physics was invited as resource person for one day Webinar on “Thermoelectric Nanomaterials for Green Energy Applications” by SJR College for Women, Bengaluru

https://youtu.be/6_1gnK_4yKU?t=9035

July 16, 2020: Mechanical Engineering Association (MEA) organized a Virtual Tour to a Rice Factory through Google Meet

July 16, 2020: Dr.Rajeshwari Hegde, Faculty, Department of Electronics & Telecommunication Engineering participated in the **1st All India paper writing contest on “Emerging Research” organized by World Serve Online. After three rounds of peer review, the paper has been published in the Perspectives in Communication, Embedded Systems and Signal Processing - An International Journal by the organizers**

July 17, 2020: Sri.M.Namratha, Faculty, Department of Computer Science & Engineering along with student, Mr.S.K.Vivek, Mr.Yashas Prashanth, Mr.N.Yashas and Mr.R.S.Yashank presented paper on “E-voting Systems using Blockchain: An Exploratory Literature Survey” through online in the 2nd International Conference on Inventive Research in Computing Applications (ICIRCA 2020) organized by RVS College of Engineering and Technology, Coimbatore



July 17, 2020: Dr.D.N.Sujatha, Professor, Department of Computer Applications was invited as speaker in WiE Tech Meet up, online Webinar Series, IEEE Bangladesh Section

<https://events.vtools.ieee.org/m/235518>

July 18, 2020: Mr.H.S.Yashas, Mr.T.P.Varun Kumar, Mr.Akash Jawahar and Mr.T.Sanjay, Students of Electronics & Communication Engineering participated in the **National Level E-Yantra Robotics Competition organized by IIT-Bombay and secured First Place** under the guidance of Sri.Harish V Mekali, Faculty of the Department. BMSCE Team has been participating from 2014 and won the prizes for 5 years. **Two students, Mr.H.S.Yashas and Mr.T.P.Varun also got internship**



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July 18, 2020: Department of Computer Science & Engineering in association with </CodeIO> Club and IEEE-BMSCE student branch organized Pre-Hackthon online workshop on “Design Thinking”. Resource person was Mr.Kaustubh Padakannaya, Co-Founder of a Start-up Company Pyse



July 18, 2020: Smt.T.Anushalalitha, Faculty, Department of Electronics & Telecommunication Engineering has been elected by the Governing Council of SIESRP to use the Grade & Educational Membership Title of Membership Specialization: Process Control & Instrumentation Educational-Professional Membership Qualification Certificate Fellow (FSIESRP)

July 18, 2020: Smt.T.Anushalalitha, Faculty, Department of Electronics & Telecommunication Engineering has been approved and registered as Hon. Editorial Board Member - Consulting Editor, Recognized by Innovative Scientific Research Professional Malaysia, Publisher Scientific Research Journals

July 20, 2020: Department of Mechanical Engineering in association with ISTE - BMSCE Chapter organized one week online Faculty Development Programme on “MATLAB for Mechanical Engineers” from July 20-24, 2020

July 20, 2020: Dr.S.Pradeepa, Faculty, Department of Electrical & Electronics Engineering along with Research Scholar Mr.B.Vishwa Teja published research paper titled “Optimization and Modelling of Control Algorithm for Brushless Dc Motor In-Situ of DC Microgrid” in the **International Journal of Engineering Applied Sciences and Technology**. DOI : 10.33564. IJEAST -8516

July 20, 2020: Dr.S.Pradeepa, Faculty, Department of Electrical & Electronics Engineering along with Research Scholar Ms.Pratibha Katti published research paper titled “Small Signal Model for PV fed Buck Converter in Continuous and Discontinuous Conduction modes” in **International journal of Engineering Applied Sciences and Technology**. DOI : 10.33564 IJEAST - 8506

July 20, 2020: BMSCE IEEE PES organized an event “Sudo Code 2.0” from July 20-24, 2020

July 20, 2020: Mr.Harish V Mekali, Faculty, Department of Electronics & Communication Engineering was invited as resource person for the Webinar on “ARM Processors” by Vivekananda Institute of Technology, Bengaluru

July 20, 2020: Dr.M.V.Murugendrappa, Head, Department of Physics presented research paper titled “DC Conductivity and Thermo-electric Power Studies of multiphase Polypyrrole/Vanadium Oxide-Aluminium Oxide Nano Composites” in One day online International Conference on “Advanced Materials” organized by KLE Society’s P.C. Jabin Science College, Hubballi



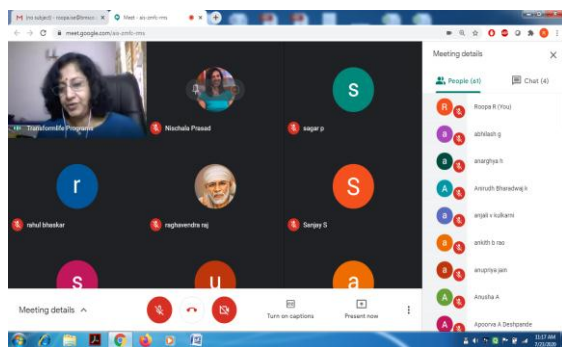
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July 22, 2020: Smt.A.N.Saritha, Faculty Department of Computer Science & Engineering along with students, Mr.Himaneesh Mukka, Mr.M.Mohan Kumar, Mr.Sanjeev Ashrit and Mr.S.Umashankar published paper titled “Plant Disease and Medical Characteristics Identification System” in the **Journal of Emerging Technologies and Innovative Research, July 2020**

July 23, 2020: Dr.B.S.Nagabhushana, Professor, Department of Electronics & Communication Engineering was invited as resource person for Webinar on “Battery Management system challenges and state of the art” by R.N.S. Institute of Technology, Bengaluru

July 23, 2020: Department of Information Science & Engineering organized Personality Development session for the students of 6th semester. Resource person was Dr.Deepa Rani Shekhar, Psychological Counselor, Corporate Trainer & Founder Director of Transform Life Programs



July 23, 2020: Department of Electronics & Telecommunication Engineering in association with IEEE BMSCE student branch organized an invited talk on “HAM (AMATEUR) Radio In Present Technologies”. The talk was delivered by

Dr.Shankar Sathyapal, Director, Indian Institute of HAMS



July 24, 2020: Dr.J.Sharana Basavaraja, Faculty, Department of Mechanical Engineering was invited to deliver online lecture on “Role of Industry Institute Interaction on Placement & Entrepreneurship” in one week online Faculty Development Programme on “Continuity in I-3” (Industry, Institute and Interaction) by B.N.M. Institute of Technology, Bengaluru

July 24, 2020: Sri.H.S.Gururaja, Faculty, Department of Information Science & Engineering was invited to deliver Hands-on session on “Network Intrusion Detection System” in the Faculty Development Programme on Emerging Cyber Security Trends - Hands on Approach by Dayananda Sagar University, Bengaluru

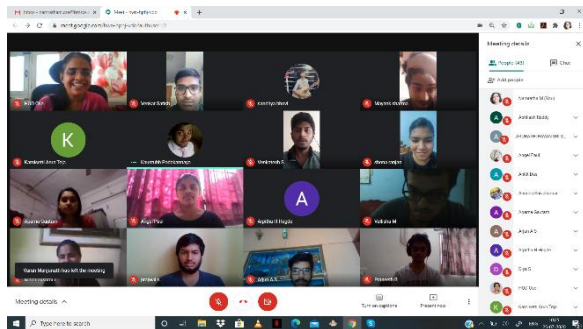
July 25, 2020: BMSCE IEEE PES in collaboration with IEEE PES Reva University organized Webinar on “Fast charging trends in EVs Date of event”



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July 25, 2020: Department of Computer Science & Engineering in association with </CodeIO> Club and IEEE-BMSCE student branch organized Hackthon on “Sustainability”. Resource person was Mr.Kaustubh Padakannaya, Co-Founder of a start-up company Pyse



July 27, 2020: Dr.B.N.Shubha, Professor & Head, Department of Management Studies was invited as Resource person for two day online National level Faculty Development Programme on “Case Writing & Analysis Skills” by Ballari Institute of Technology & Management

July 27, 2020: Department of Electrical & Electronics Engineering in association with IEEE-PELS, IES and SSIT Bangalore chapters organized national level hands-on workshop on “Simulation Tools for Power Converters and Applications” from July 27-31, 2020

July 27, 2020: Dr.B.Mallikarjuna, Faculty, Department of Mathematics was invited as Resource person for one week virtual workshop with the theme “MATLAB for Engineers” by EASYSOLVE Pvt., Ltd., Bengaluru from July 27 – August 1, 2020



July 30, 2020: Smt.Hemavathi, Faculty, Department of Electronics & Communication Engineering published research paper titled “MUACLP: Modelling Unified Architecture of Cross Layer Parameters Strategy of Handoff for Next Generation Wireless Network” in the **International Journal of Engineering and Advanced Technology, ISSN: 2249-8958 (Online), Volume-9 Issue-5, June 2020, Page No. 1246-1252**

July 27, 2020: Departments of Electronics & Communication Engineering and Computer Science & Engineering organized one week online Faculty Development Program on “IoT and Data Analytics: An End to End perspective”



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July 30, 2020: Smt.S.Lalitha, Sri.H.H.Surendra, Smt.H.R.Archana and Sri.K.N.Madhusudhan, Faculty, Department of Electronics & Communication Engineering have been **granted patent titled “Automatic Diabetic Retinopathy Detection And Estimation From Multispectral Images Using Machine Learning Algorithms” Australian Patent, application number: 2020100868, Patent application type: Innovation, Validity till: 2022-05-28**

July 30, 2020: Dr.R.Jayagowri, Faculty, Department of Electronics & Communication Engineering published research paper titled “Descending Order Thermal Distribution Partitioning Algorithm for Flip-Chip Packaged 3-D ICs to Improve Heat Sinking and Reduce TSV Count” **in the Journal: IEEE Transactions on Components, Packaging and Manufacturing Technology, Volume: 10, Issue: 7, On Page(s): 1148-1157, Print ISSN: 2156-3950, Online ISSN: 2156-3985, Digital Object Identifier: 10.1109 / TCPMT. 2020.3003503**

July 31, 2020: Sri.B.G.Suhas and Dr.Kavadiki Veerabhadrapa, Faculty, Department of Mechanical Engineering published research paper titled “Theoretical Formulation of the Thermodynamic Properties of Ammonia-Water and Ammonia – Water - Lithium Bromide Solutions” **in the International Journal of Recent Technology and Engineering (IJRTE), ISSN: 2277-3878, Volume-9 Issue-2, July 2020**

July 31, 2020: Sri.Madhav Murthy and Dr.Dr.S.Srinivas, Faculty, Department of Mechanical Engineering published research paper titled “Machinability and Delamination Studies on Glass Fiber Reinforced Polymer Matrix Composite Cut by Abrasive Water Jet Machine” **in the Conference Proceedings of ICMST&ICSMM&FMAT 2019, Peer reviewed research article published in scientific.net, Solid State Phenomena ISSN: 1662-9779, Vol. 305, pp 122-128 doi: 10.4028/www.scientific.net/SSP. 305. 122 © 2020 Trans Tech Publications Ltd, Switzerland**

July 31, 2020: Dr.P.Meena, Professor & Head, Department of Electrical & Electronics Engineering along with M.Tech student published research paper titled “Methodology for testing the Electromagnetic Compatibility of a Three phase inverter” **in the International Journal of Engineering Applied Sciences and Technology, IJEAST, DOI - 10.33564**

July 31, 2020: Dr.P.Meena, Professor & Head, Department of Electrical & Electronics Engineering along with M.Tech student published research paper titled “Implementation of Neuro-Fuzzy Controller for a PMSM drive for water pumping Applications” **in the International Journal of Engineering Applied Sciences and Technology, IJEAST, DOI: 10.33564**



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July 31, 2020: Dr.A.Satyanandini and Dr.Minu Zachariah, Faculty, Department of Management Studies were invited as **External Experts by Kingston University, UK** to be part of their research project on “Indian MSME’s responses to Covid-19 Pandemic Crisis”. This is a project funded by HEFCE Global Challenges Research Fund (GCRF) 2019-20 allocation for Kingston University

July 31, 2020: Dr.Lata Kumari, Faculty, Department of Physics was invited as resource person for one day Webinar on “Metal Oxide Nanomaterials for Nanodevice Applications” by Sri Kuvempu First Grade College and PG Centre, Channapatna

July 31, 2020: Dr.P.Gomathi, Faculty, Department of Mathematics published research paper titled “Laceability Properties in Edge Tolerant Corona Product Graphs” **in the TWMS Journal of Applied and Engineering Mathematics, Vol.10, No.3, pp: 734-740, July 2020**

July 31, 2020: Dr.N.Sujatha, Faculty, Department of Mathematics published the following research papers titled:

- Mathematical Modeling of Action potential of Purkinje Fiber Cells and Primary ION Channels Role-A Review **in the Journal of Critical Reviews, Vol. 7, Issue:14, pp: 1153-1159, ISSN: 2394-5125, July 2020**
- Mathematical Modeling of Action Potential of Human Ventricular Myocytes - A Review **in the Journal of Critical Reviews, Vol. 7, Issue:14, pp: 1160-1167, ISSN: 2394-5125, July 2020**