



**B.M.S.COLLEGE OF ENGINEERING, BENGALURU**  
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**REPORT ON COLLEGE ACTIVITIES – OCTOBER 2022**

October 1<sup>st</sup>, 2022

- ❖ Dr. Meera A., Professor in the Department of Electronics and Communication Engineering, Ms. Ankitha H, Post graduate student and Ms. Smitha P Ullal, Research Scholar in the department of ECE published a research paper titled, 'Integrating an Image Moment with Image Transform for Better Energy Optimization in MRI Brain Tumor Images' in the Journal of Emerging Technologies and Innovative Research (JETIR).
- ❖ Dr. Karthik Kumara, Assistant Professor in the Department of Physics published a research paper titled, 'Structural investigations and theoretical insights of a polymethoxy chalcone derivative: Synthesis, crystal structure, 3D energy frameworks and SARS CoV-2 docking studies' in Journal of Molecular Structure, 1272, 134226, 2022. (Impact factor 3.841, Q2 Journal).  
<https://doi.org/10.1016/j.molstruc.2022.134226>
- ❖ The students of Bio Technology department, Ms. Saloni Bhatia, Ms.Padmini Gokhale, Ms.Teesta Katte, Ms.Shreeshanthi Acharya, Ms.Soumya Vidapanakal, Mr.Ram Manas along with the faculty members of the college, Smt. Prathibha N, Sri.Ashok Kumar S., Dr.Vijayakumar K & Dr.Divijendra Natha Reddy and

Sri.Sampath Chinnam, faculty, MSRIT and Sri.Avinash Arvind Rasalkar from Prabhat-Advanced Life Tech Solutions & Consultants published a research paper titled, 'Assessing the Vulnerability of Cancer Patients for COVID-19' in WoS Q2 Journal ACS Omega 2022 7 (40), 35735-35742, DOI: 10.1021/acsomega.2c03764.

- ❖ Dr. Rudra Naik, Professor in the Department of Mechanical Engineering along with Sri.M. Ravikumar, Faculty, BMSECE published a Research paper on Nano Composites titled, 'Impact of nano sized SiC and Gr on mechanical properties of aerospace grade Al7075 composites' in Frattura ed Integrità Strutturale Frattura ed Integrità Strutturale, 62 (2022) 439-447 (a Q2-rated Italian Journal).  
DOI: 10.3221/IGF-ESIS.62.30

October 2<sup>nd</sup>, 2022

- ❖ JHATAKA, an NGO and the Unicorn Art Club in collaboration with NSS Unit of the college conducted a cleanliness and awareness drive called "Jhataka Plog Run" in Hosakerehalli lake, RR Nagar,B'lore.





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**October 3<sup>rd</sup>, 2022**

- ❖ Dr. B. Sudarshan, Assistant Professor in the Department of Mechanical Engineering attended a two-week training program on 'Schlieren and Back Ground oriented Schlieren (BOS) Flow Visualisation Techniques for Supersonic Flows' conducted at National Aerospace Laboratories, Bangalore.

**October 4<sup>th</sup>, 2022**

- ❖ Ms.Saritha I. G, research scholar in the department of ETE published a paper titled, 'Secure Adaptive Cluster based Routing using Multi Objective-Trust based Hybrid Optimization Algorithm for CPS', in the scopus indexed International Journal of Intelligent Engineering & Systems, Vol.15, No.6, 2022 DOI: 10.22266/ijies2022.1231.54
- ❖ Mr. Priyanshu M & Mr. Venkatesh Subramanya Iyer Giri, students of the Department of Electronics and Communication Engineering along with Assistant Professors in the department, Mrs. Shachi P & Dr. Geetishree Mishra and Dr. Suma M N, Professor, ECE published an article titled, 'AI Powered Solution for Radio Link Failure Prediction Based on Link m Features and Weather Forecast' in the ITU Journal on Future and Evolving Technologies.

**October 7<sup>th</sup>, 2022**

- ❖ Dr. Veena N. Hegde, Professor in the Department of EIE & Dr.Rajeshwari Hegde, Professor in the department of ETE participated in Faculty Development Programme on 'Nurturing Excellence through Self Exploration' conducted by Heartfulness Institute in association with AICTE at Hyderabad during October 7<sup>th</sup> – 11<sup>th</sup>, 2022.

**October 10<sup>th</sup>, 2022**

- ❖ Smt.Vani A., Assistant Professor in the Department of EIE participated in the AICTE Training and Learning Academy sponsored Faculty Development Program (Online mode) on 'Artificial Intelligence and Machine Learning Techniques for Precision Agriculture' organised at JSS Academy of Technical Education, Bengaluru during October 10<sup>th</sup> – 15<sup>th</sup>, 2022.

**October 11<sup>th</sup>, 2022**

- ❖ The Department of Electronics and Communication Engineering in association with Synopsys India Pvt. Ltd., conducted the Pre-Conference (NEWS-2022 conference) Symposium titled, "Decoding a Career in VLSI". Sri.Vishwajith Rao, Sri. Yashu B M, Ms.Ranjitha Kumar and Ms. Tejaswini Kopalkar from Synopsys India Pvt. Ltd., Bangalore and also the Alumni of the



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college were the resource persons. The PG and UG students attended the event. The faculty members in the department, Dr.Kiran Bailey, Smt.K Sujatha, Dr.Surendra H H, Dr. Archana HR and Dr.Siddappaji, HOD, Dept., of ECE coordinated the event.

- ❖ Dr. Sainath K, Assistant Professor in the department of Chemical Engineering attended 5-Day Online International Faculty Development Programme on ‘Sustainable Nanotechnologies SNT-2022’ jointly organized by the Department of Chemical Engineering, GMR Institute of Technology, Rajam, AP, and NIT-Warangal, Telangana during October 11<sup>th</sup> -15<sup>th</sup>, 2022.

**October 12<sup>th</sup>, 2022**

- ❖ The Department of Electronics and Communication Engineering of the college celebrated Golden Jubilee on the occasion of completing 50 years (1971-2022). To commemorate the occasion, the department released the Golden Jubilee magazine, ‘Swarna Mahotsava Sanchike’ and felicitated the former employees of the ECE department. The department annual magazine, ‘Tantrika Jnana Taranga’ was also released during the occasion. The faculty members, Mrs.Radha R C and Smt.H N Latha coordinated the event. .



- ❖ The Department of Electronics and Communication Engineering in association with IETE organized 5<sup>th</sup> National Conference on “NETWORKING,





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EMBEDDED AND WIRELESS SYSTEMS – NEWS” during October 12<sup>th</sup>-13<sup>th</sup>, 2022.

The esteemed keynote speakers in the conference were :

- Dr. Srinivas Talabatulla, Professor, IISc spoke on ‘Quantum Information Technology’
- Dr. M H Kori, a distinguished fellow of IETE spoke on ‘Wireless & Mobile Communication’.
- Sri.Balu Masti, Consultant and Entrepreneur spoke on ‘Current Trends in Embedded Systems & IoT’
- Sri.Chandrashekar B U, Principal Manager, Synopsys India Pvt. Ltd., spoke on ‘VLSI Technology’.

Dr.Siddappaji, HOD-ECE chaired the conference and Dr. Surendra H H & Smt.Archana H R, Assistant Professors in the department were the convenors. A total of 26 research papers were presented in the conference by the faculty & students of BMSCE & other institutions.



- ❖ The paper titled, ‘Smart EV Charging Station with SMART Charger Application’

authored by Mr.Shrivathsa V, Mr.Sagar M S, Mr.Shaman S Mallesh and Mr.Prashanth Singh, students of ETE under the guidance of Smt.Ambika K, Assistant Professor, ETE & presented in NEWS 2022 conference received Best paper award .

- ❖ The paper titled, ‘Study of Gesticulation Based Activation of Computer Applications’ presented by Smt.Preethi K.Mane, Associate Professor and students in the department of Electronics & Instrumentation in NEWS 2022 conference received Best paper award.



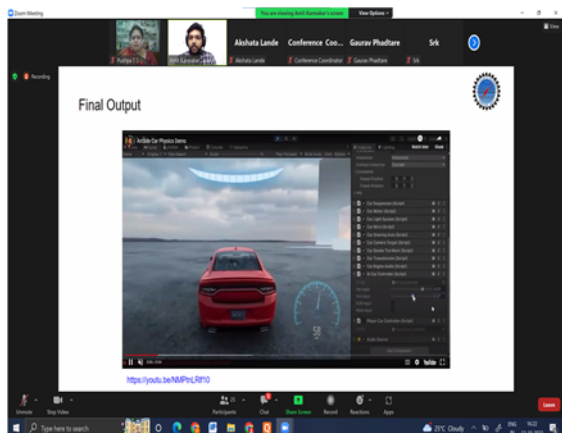
- ❖ Smt. Pushpa T S, Sri. M Shiva Rama Krishna, Assistant Professors in the department of MCA along with a student, Mr.Amit Karmakar authored a research paper titled, “ARCADE CAR PHYSICS IN UNITY 3D FOR GAMES AR/VR” and was



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presented at International Conference on Advanced Research in Computer Science and Information Technology (ICARCSIT), Kolkata, India in virtual mode.



October 13<sup>th</sup>, 2022

- ❖ Dr. Chandasree Das, Associate Professor in the department of Electrical & Electronics Engineering delivered a talk on 'Phase Change Memory and Chalcogenide Glasses: A brief overview' in the FDP on 'Hybrid Materials for Multifunctional Applications' organized by Department of Physics, BMSIT & M.



- ❖ Dr. Rudra Naik and Dr. S. Srinivas, Professors in the Department of Mechanical Engineering chaired session in the 4<sup>th</sup> International Conference on 'Recent Advances in Engineering Sciences' (ICRAES-2022) organized at M. S. Ramaiah Institute of Technology, Bengaluru .

October 14<sup>th</sup>, 2022

- ❖ Dr Prerana Gupta Poddar, Associate Professor in the Department of Electronics and Communication Engineering along with Mr. Sachin T M, PG Student in the department presented a research paper titled, 'Underwater Image Enhancement using Colour Correction and Fusion' at the 5<sup>th</sup> International Conference on VLSI, Communication and Signal Processing (VCAS-2022) scheduled during October 14<sup>th</sup>-16<sup>th</sup> 2022, at MNNIT Prayagraj.
- ❖ Ms.Asha K S, research scholar under the guidance of Dr. Rajeshwari Hegde, Professor, Department of ETE defended her PhD thesis.





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- ❖ Mr. Feroz Morab, research scholar of the department of ETE presented a paper titled, 'DoA Detection under Heavy Noise and Fading' in IEEE International Conference on Distributed Computing, VLSI, Electrical Circuits & Robotics (2022 IEEE DISCOVER) organized by JNNCE, Shivamoga.
- ❖ Dr. Chandra Shekara G., Assistant Professor in the department of Mathematics published a book chapter titled, 'Effect of Oblique Magnetic and Electric Fields on the Kelvin-Helmholtz Instability at the Interface between Porous and Fluid Layers' in the book, 'Advances in Mathematical Modelling, Applied Analysis and Computation'. Lecture Notes in Networks and Systems, vol 415. Springer, Singapore. [https://doi.org/10.1007/978-981-19-0179-9\\_15](https://doi.org/10.1007/978-981-19-0179-9_15), 14th October 2022, Publisher :Springer
- ❖ Dr. Praphulla, Assistant Professor in the department of Bio Technology delivered a talk on 'Sustainable Energy Storage Solutions' at 'Standards Conclave 2002' organized by Bureau of Indian Standards (BIS) at The Chancery Pavilion, Bangalore.
- ❖ Dr. Umavathi M., Assistant Professor in the department of Electrical & Electronics Engineering along with PG student, Ms.Latha G published a research paper titled, 'Design and Implementation of Digitally Controlled Cooler Drive Inverter for Temperature Control of Sterling Based Cryocooler' in UGC-approved Group 'II' Journal, Zeichen Journal vol.08, issue 10,2022 ,ISSN NO.0932-4747,Page No: 121-135, DOI:15.10089.ZJ.2020.V08I10.285311.2981.
- ❖ The Department of Electrical and Electronics Engineering organized an Expert Lecture on 'Modeling and Simulation of BLDC motor' by Dr.Rajesh, Associate Professor, Govt. Engineering College, Thrissur for the benefit of the students.

**October 15<sup>th</sup>, 2022**

- ❖ Dr. G. Giridhara, Professor & Head, Department of Mechanical Engineering,

**October 16<sup>th</sup>, 2022**

- ❖ Dr. Rajeshwari Hegde, Professor in the department of ETE received a certificate of appreciation as a reviewer for IEEE MYSURUCON 2022, the 2<sup>nd</sup> edition of the Mysuru Subsection Flagship International



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conference conducted during October 16<sup>th</sup> -17<sup>th</sup>,2022.

- ❖ Dr.C.Gururaj, Assistant Professor in the department of Electronics and Telecommunication chaired a session in the IEEE International Conference MysuruCon – 2022 organised at JSS Science and Technology University (SJCE), Mysuru.
- ❖ Dr.Savithri Bhat, Professor in the Department of Bio Technology and students, Ms.Veena Prasad and Ms.Yoshita S in collaboration with NCBS, Bangalore and University of Nebraska Medical Center, Omaha, NE, USA published a research article titled, 'Phytochemical Landscape Reveals the Different Metabolomics and Lipidomics Profiles in *Bacopa Monnieri* Leaf, Stem and Root' in Biomedical Journal of Scientific and Technical Research Vol 46, Issue:4,Pg, 37772-37782,.
- ❖ Ms.Sharanya S, Mr.Raghuttama BN, Ms.Ananya BR, Mr.Pranav Simha R, students of ETE under the guidance of Dr.C.Gururaj, Assistant Professor in the department published a paper titled, 'Deep Learning Based Plant Disease Detection' in IEEE International Conference MysuruCon – 2022 organised at JSS Science and Technology University (SJCE), Mysuru.
- ❖ Mr.Charan KS, Mr.Rochan Ravi G, Mr.Shashank TN, students of ETE under the guidance of Dr.C.Gururaj, Assistant Professor in the department published a paper titled, 'Image Super Resolution using Convolutional Neural Network' in IEEE International Conference MysuruCon – 2022 organised at JSS Science and Technology University (SJCE), Mysuru.
- ❖ The student volunteers from the NSS unit of the college participated in 355<sup>th</sup> Green Sunday event organized by Adanya Chetana Foundation at Jnana Bharathi Campus, Bengaluru. The volunteers planted 20 saplings of different varieties.



October 17<sup>th</sup>, 2022

- ❖ Dr. Supriya S, Assistant Professor in the Department of Chemistry, published a book chapter titled, 'Schiff base complexes for catalytic applications' in the book, Schiff Base in Organic,



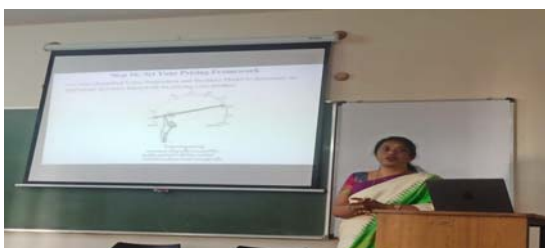


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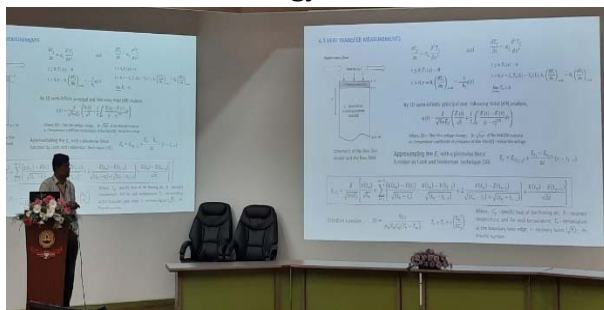
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Inorganic and Physical Chemistry,  
publisher: IntechOpen. DOI:  
10.5772/intechopen.107904.

- ❖ Dr H N Suma, Dean(Innovation) delivered Keynote address at 'ENIGMA', The Entrepreneurship Cell Of Nitte Meenakshi Institute of Technology, Bangalore, who conducted a bootcamp as part of the activities of ECELL and Entrepreneurship Ecosystem.



- ❖ Dr. Sudarshan B, Assistant Professor in the Department of Mechanical Engineering presented a paper on 'Shock interaction effect due to axial cavity in a blunt nosed geometry flying at hypersonic speeds' in 24<sup>th</sup> International Shock Interaction Symposium (SIS2022) organised at Indian Institute of Technology, Madras.



- ❖ Dr. Chetan A Nayak, Assistant Professor in the Department of Chemical Engineering attended International Faculty development Program on Novel & Sustainable Membrane Technology, organised at Siddaganga Institute of Technology, Tumakuru, during October 17<sup>th</sup>- 21<sup>st</sup>, 2022.

- ❖ Smt. Vani A., Assistant Professor in the Department of EIE participated in the AICTE Training and Learning Academy sponsored Faculty Development Program on 'Artificial Intelligence and Machine Learning Techniques for Precision Agriculture' organised at JSS Academy of Technical Education, Bengaluru during October 17<sup>th</sup> - 21<sup>st</sup>, 2022.

**October 18<sup>th</sup>, 2022**

- ❖ Smt.Anushalalitha T., Assistant Professor of ETE published a paper titled, 'Pre-covid, Covid and Post Covid Classes and Online Engineering' in international conference, REV 2022.

In: Auer, M.E., El-Seoud, S.A., Karam, O.H. (eds) Artificial Intelligence and Online Engineering REV 2022.

Lecture Notes in Networks and Systems, vol 524. Springer, Cham.

[https://doi.org/10.1007/978-3-031-17091-1\\_53](https://doi.org/10.1007/978-3-031-17091-1_53)





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October 19<sup>th</sup>, 2022

- ❖ Prof. Ketan Savla, Associate Professor in Viterbi School of Engineering, University of Southern California and Smt. Sudha Kumar, Director, USC Viterbi India Office visited the Civil Engineering department and interacted with faculty members about the road map of Civil Engineering in future.



- ❖ Dr. Rajath Vasudevamurthy, Assistant Professor in the Department of Electronics and Communication Engineering delivered a talk on ‘Reflection of Indian Values in Indigenous Agricultural Practices’ in the AICTE Training and Learning Academy sponsored Faculty Development Program on ‘Artificial Intelligence and Machine Learning Techniques for Precision Agriculture’ organized at JSS Academy of Technical Education, Bengaluru.

October 20<sup>th</sup>, 2022

- ❖ Department of Mathematics organised One week Faculty Development Programme on ‘Engineering Mathematics using Python’ in the college during 20<sup>th</sup>-21<sup>st</sup> & 27<sup>th</sup> – 29<sup>th</sup> October, 2022. Dr.Chandrashekhara G., Dr.B.Mallikarjuna & Dr.M.SGayathri, Assistant Professors in the department and Dr. Veena Jawali, HOD-Mathematics coordinated the event.

- ❖ Dr. Rajeshwari Hegde, Professor in the department of ETE was invited to deliver a talk on “Science of Meditation” at KSIT, Bangalore





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❖ Sri. Srinivasa Murthy A, Assistant Professor in the department of Civil Engineering delivered a lecture on the topic, 'Application of software in Civil Engineering' at East Point college of Engineering & Technology, Bengaluru.

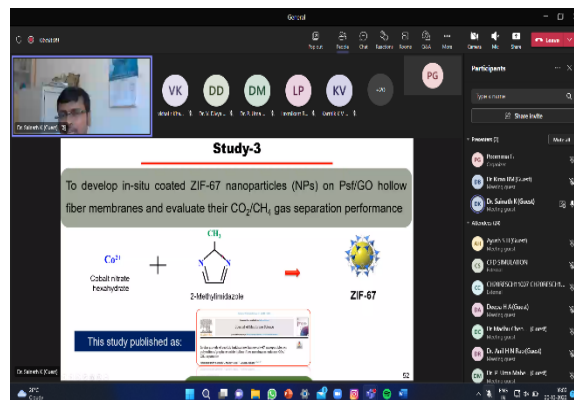
❖ Sri.Rahul R., Assistant Professor in the Department of Mathematics published a research paper titled, 'Allocation of optimal energy from storage systems using solar energy' in Journal of Energy Reports , Q2 journal with impact factor 4.937 , Volume 8, Pages836-846.

<https://doi.org/10.1016/j.egy.2022.10.033>

❖ Dr Chandra Shekara G., Assistant Professor in the department of Mathematics published an article titled, 'Machine learning Technique for improving the stability of Thermal Energy storage', in Energy Reports, Volume 8, Supplement 8, 2022, Pages 897-907, Doi: <https://doi.org/10.1016/j.egy.2022.09.205>

❖ Dr. Sainath K, Assistant Professor of Chemical Engineering delivered an expert talk titled, 'Composite HFMs for Effective CO<sub>2</sub> and CH<sub>4</sub> Gas Separation' in Five Days International Faculty Development Program on 'Novel & Sustainable Developments in Membrane Technology' organized by the Department of Chemical

Engineering, SIT, Tumakuru during October 17<sup>th</sup> – 21<sup>st</sup>, 2022.



October 21<sup>st</sup>, 2022

❖ The project proposals submitted by faculty members across the departments seeking financial assistance under Faculty Research Promotion Scheme were evaluated and 44 project proposals selected were sanctioned financial assistance by the Management under Faculty Research Promotion Scheme to pursue their research project .

❖ The department of Medical Electronics organised an industry visit to Forus Health, Bangalore for the benefit of 2<sup>nd</sup> semester M.Tech students. Students got an opportunity to see live and sample demonstrations of manufacturing of ophthalmic medical devices, 3nethra classic HD for fundus imaging for adults and 3nethra neo for fundus imaging for babies. After the demonstration session,



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students visited the production unit of devices to explore the dust free assembly of components section, testing section and packaging of devices section.



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attended the meeting and exchanged their views.



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❖ As part of the continuous improvement through Academia & Industry connect, the department of MBA conducted a Syllabus Review process. MBA Alumni from different batches were invited to review the 2022 curriculum structure & syllabus. The recommendations/suggestions made by them were noted and the syllabus were updated accordingly.

**October 22<sup>nd</sup> , 2022**

❖ As an integral part of the curriculum design process for UG and PG program, the department of Electronics & Communication organised a stakeholders' meeting to seek inputs from the stakeholders. Experts from the industry and academia, alumni, parents, students



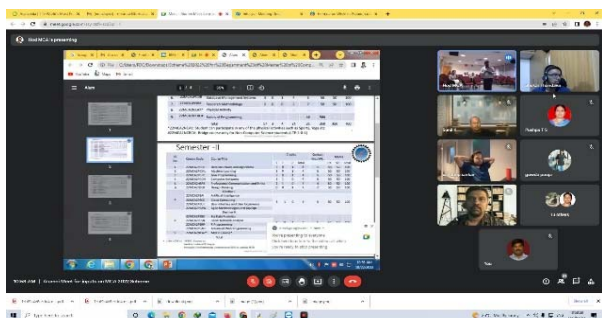




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- ❖ The department of Computer Applications organised an online Alumni Meeting seeking inputs on framing 2022 MCA scheme and syllabus. The HOD and faculty members interacted with Alumni.



adjacent to Kempambudi lake. The volunteers planted 25 saplings and made a protective barrier around it.



- ❖ The department of ETE organised DAB meeting. The experts from Industry, Alumni, students and faculty members in the department participated in the meeting.



October 23<sup>rd</sup>, 2022

- ❖ The NSS volunteers of the college participated in 356<sup>th</sup> Green Sunday organized by Adama Chetana Foundation at Bande Mahakalamma parking premises,

- ❖ Dr.Kalyan Raj, Professor in the Department of Chemistry and Dr.Malini.S, Assistant Professor, Department of Chemistry published a book chapter titled, 'Biodegradable Electronics: A Newly Emerging Environmental Technology' (page 55-72) in the book, 'Biodegradable Materials and Their Applications' with ISSN-978-1-119-90490-8 published by Wiley- Scriver.





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October 25<sup>th</sup>, 2022

- ❖ Dr. Mangala Keshava, Associate Professor, Dr. S. Raghunath, Professor and Research Scholars Mrs. M. M. Nalina and Mr. K. S. Jagadish in the department of Civil Engineering published an article, 'Computations of Characteristic Compressive Strength and Design Vertical Load Resistance of Brick Masonry' in SPRINGER online Publication J. Inst. Eng. India Ser. A <https://doi.org/10.1007/s40030-022-00691-9>

October 26<sup>th</sup>, 2022

- ❖ Dr. Rajeshwari Hegde, Professor, department of ETE and organizing secretary, PHASE SHIFT 2022 attended a meeting organized by Dr. Ravindra Peravali, Group Leader, Karlsruhe Institute of Technology, Germany for a possible collaboration for Phase Shift 2022.



October 27<sup>th</sup>, 2022

- ❖ The Board of Studies (BoS) meeting (online) of Electrical Cluster departments was convened.



October 28<sup>th</sup>, 2022

- ❖ Department of Electronics and Communication Engineering organized Induction program for the students of 3<sup>rd</sup> semester ECE.



- ❖ The NSS unit of the college in collaboration with Chirantana club celebrated Kannada Rajyotsava at Amrutha Shishu Nivasa and along with the children at Amrutha Sishu Nivasa, collectively participated in KOTI KANTA GAYANA organised by the Kannada



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and Culture Department wherein Kannada Nada Geetha and other few famous kannada songs were recited. The participants also took an oath to respect, speak, and motivate others to speak KANNADA.



- ❖ The Principal along with the other officials of the college participated in KOTI KANTA GAYANA organised by the Kannada and Culture Department wherein Kannada Nada Geetha and other few famous kannada songs were recited. The participants also took an oath to respect, speak, and motivate others to speak KANNADA.



- ❖ The department of MBA convened a BOS meeting towards finalizing the syllabus & structure for 2022-23.



- ❖ Dr. B Kanmani, Professor in the department of Electronics & Telecommunication Engineering handled the forenoon sessions on 'Fourier Series', during the one week Faculty Development Program on, 'Engineering Mathematics using Python' organized by the Department of Mathematics .

October 29<sup>th</sup>, 2022

- ❖ The PhD thesis defense of the research scholar, Mr. Shesha Prasad N. under the guidance of Dr.S.B. Bhanu Prashanth, Professor in Medical electronics was conducted.





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October 31<sup>st</sup>, 2022

- ❖ Dr. Rajath Vasudevamurthy, Assistant Professor, Department of Electronics and Communication Engineering & Dr.Prathima Bhat, Assistant Professor in the Dept. of Management Studies and Research centre were invited as judge for the third National Cultural Fest of Ekalavya Model Residential Schools organized by the Ministry of Tribal Affairs, New Delhi hosted at the Art of Living International Centre, Bengaluru



- ❖ The Protocol Club of the Dept. of Computer Science and Engineering in collaboration with NCC, NSS, Civil Defence Division of the college and BloodSea (Covisolution) along with Sanjay Gandhi Institute of Trauma and Orthopaedics hospital organized Blood Donation Drive. The stake holders actively participated in the event.



- ❖ The department of Computer Applications convened a BOS meeting towards finalizing the scheme & syllabus for 2022-23.

Sl. No.	Subject Code	Course Title	Credits			Marks					
			L	T	P	Total	CE	SEE	Total		
A.	ZJMCAPM01P	Major Project	0	0	1	100	100	200			
A.	ZJMCAR01P	Internship**	0	0	3	100	100	300			
A.	ZJMCAR00S	Research Seminar	0	0	3	50	50	100			
A.	ZJMCAR00A	Seminar Activity**	-	-	-	-	-	-			
		TOTAL	0	0	22	250	250	500			

\*\*ZJMCAR01P: Internship shall be carried out for 4 to 6 weeks after 1 semester.  
 \* Working with the governmental organization or any other research lab / premier institute (IIT, IISc, IISR etc.)  
 \*\*\*ZJMCAR00A: Social/Health/Environmental awareness, etc. work at an NGO or any other institution.