



B.M.S. COLLEGE OF ENGINEERING, BENGALURU

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REPORT ON COLLEGE ACTIVITIES – DECEMBER 2023

December 1st, 2023

- Department of Electronics and Communication Engineering organised a talk titled, 'Interdisciplinary approach in Technology Development' and 'Broadband Circularly Polarized Moxon Based Antenna'. Prof. Shibani K Koul, a world-renowned researcher, Professor Emeritus of IIT, Delhi and Prof. Edip Niver, Professor Emeritus, Department of Electrical and Computer Engineering, New Jersey Institute of Technology, USA were the resource persons. The event was coordinated by Dr.Karthikeya G. S., Assistant Professor in the department.



December 2nd, 2023

- Dr. Rajanikanth K. N., Associate Professor, Department of Electronics and Communication Engineering published a research paper titled, 'A survey and Analysis of Drone Detection Systems using a Systems Approach Superposed on Scenarios' in Systems Engineering (Q2),

The Journal of the International Council on Systems Engineering, Wiley.

<https://doi.org/10.1002/sys.21735>

- Dr. Shivakumar R., Assistant Professor in the department of Chemical Engineering participated as a Technical program committee member and reviewer in the Congress on Smart Computing Technologies (CSCT 2023), an international conference organized by the Soft Computing Research Society and SAU Center for Research and Innovative Learning (SCRIL), India during December 2-3, 2023.

- Sri.R.Rahul and Dr. Chandrashekara G., Assistant Professors in the department of Mathematics co-authored and published a research paper titled, "Photovoltaic fuzzy based modelling on defining energy efficient solar devices in industry 4.0" in the journal of Optical and Quantum Electronics Web of Science Q2, Impact factor 3. <https://doi.org/10.1007/s11082-023-05661-4>

December 4th, 2023

- Dr.H.B.Nagaraj, Professor and HOD, Civil Engineering was invited as chief guest for the conduction of one week Short Term Training Program on the topic, "Futuristic Trends & Advances in Civil Engineering for Sustainable



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development” organized at YCCE, Nagpur during Dec.4-6,2023. He also delivered a lecture on the topic, “Engineering Behaviour of Fine-grained soils, Alternate Building Materials and Sustainability”.



- Dr.Nalina V., Assistant Professor, Department of ISE along with Ms.Monisha and Mr.Giridhar, Alumni of the department, presented a paper titled, “Digital Twins in Smart Farming” at the 10th IEEE Asia-Pacific Conference on Computer Science and Data Engineering (IEEE-CSDE 2023) held during December 4th-6th 2023.

- Department of Computer Applications organized a webinar on “Career Opportunities and Industry Expectations in Cloud Computing Domain” by Mr.Sheraz Nazeer, Full Stack Academy, Hyderabad for the benefit of third semester MCA students. The event was coordinated by Sri. M. Siva Rama Krishna, Assistant Professor and Sri.P.Lakshminarayana, Associate Professor in the department.



December 6th, 2023

- Dr. Selva Kumar S., Assistant Professor, Department of CSE was the resource person for workshop focused on 'Robotic Process Automation' organised by the Department of Data Science at SVIT, Bangalore.





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December 7th, 2023

- Dr Chetan A. Nayak, Assistant Professor in the Department of Chemical Engineering co-authored & published an article titled, "Simulation of droplet generation in microfluidic T-junction device for micro-encapsulation process" AIP Conf. Proc. 2399, 030009 (2023) Impact factor of 1.0, Q4 journal (WOS). DOI: <https://doi.org/10.1063/5.0132182>

- Dr.B.Kanmani, Professor, department of Electronics & Telecommunication Engg., was invited to conduct one day workshop for faculty members on, 'Effective Implementation of OBE', organized at Amal Jyothi College of Engineering (AUTONOMOUS) Kanjirappally, Kerala.



- Sri. M. Siva Ramakrishna, Assistant Professor, Department of Computer Applications participated in one day Conference on "Inspiring Excellence in Higher Education and Industry with

Technology" organised by The Economic Times as an academic delegate.



- Placement Club of Department of Computer Applications organized coding session for the benefit of the students. The students, Ms.Ananya A Rao, Mr.Rayan Bakshi, and Mr.Prashant who were placed recently, conducted the session and shared their interview experience.





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✚ Dr. R. N. Ravikumar, Dr. Vardhaman S. Mudakappanavar, Associate Professors, Dr. Tataram K. Chavan, Assistant Professor, Department of Mechanical Engineering along with Dr. K. J. Rathanraj, Professor, Department of Industrial Engineering Management published a technical paper titled, 'Experimental studies on performance of air foil thrust bearing load carrying capabilities considering different foil materials' in International Conference on Advances in Materials, Ceramics and Engineering Sciences (AMCES-2020), AIP Conf. Proc. 2399, 030023-1–030023-12; <https://doi.org/10.1063/5.0132220>

poster paper titled, "Grinding characteristics and hydration properties of flax seed (*Linum usitatissimum*) residue: A source of dietary fibre" in 9th International Food Convention (IFCoN) organized by Association of Food Scientists & Technologists (India) Mysore at CSIR - Central Food Technological Research Institute (CFTRI), Mysuru during December 7-10, 2023.

✚ Chemical Engineering Department Cultural Club was inaugurated.

December 8th, 2023

✚ The Department of CSE organised a seminar on Higher Education in foreign Universities by Nestlings Global Education Overseas Education for the benefit of 5th semester students. Sri. Vikranth B.M., Assistant Professor in the department coordinated the event.



✚ Dr. Chetan A. Nayak, Assistant Professor in the Department of Chemical Engineering co-authored & presented a

✚ Dr. Hari Prasad Uppara, Assistant Professor in the department of Chemical Engineering published an article titled, "Copper molybdenum mixed metal oxides catalysts for efficient soot oxidation in diesel emission control" in Chemical papers (web of science, SCIE), Pg 1-9, 2023. <https://doi.org/10.1007/s11696-023-03206-3>



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✚ Department of Electronics and Communication Engineering in association with IEEE Communications Society Student Branch chapter conducted 'TECHNO – SOCIAL', poster making competition. 60 students participated in the event and the winners were felicitated.



✚ Dr.Gnanendra, Assistant Professor in the department of Aerospace Engineering received Elite + Silver Certificate for completing the course on "AeroEngine Gas Turbine Cycles", offered by Prof.Chethan kumar S Mistry, IIT Kharagpur under NPTEL-AICTE.

✚ Dr.Ashwini Appaji, Alumni Relations Manager was awarded 2023 MGA Young Professionals Achievement Award for Exemplary Leadership and contributions to IEEE students and Young Professionals activities for membership growth and retention and also 2023 outstanding WIE volunteer award from IEEE WIE Bangalore section for seamless contributions .

✚ Dr. Veena M.B, Associate Professor and Mr. Girish N., research scholar in the department of Electronics and Communication Engineering published a research paper titled, 'Evaluation of WATERMARK Channel for Underwater Communication using Dual Tree Complex Wavelet Transform based Orthogonal Frequency Division Multiplexing Model' in the International Journal of Computer Network and Information Security Published Online by MECS Press. Vol 15, No.6 PP 16-29, ISSN: 2074-9104, DOI: 10.5815/ijcnis.2023.06.02 (Scopus)

✚ Department of Electronics and Telecommunication Engineering organized a talk by Dr. Suhas Sreehari, Scientist, Oak Ridge National Lab, Assistant Professor at U Tennessee, USA for the 5th semester students in the department as part of the course on "Signal Processing for Multimedia".





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✚ In a compelling rendezvous with the realms of data science, the CSE(DS) department in collaboration with AI&DS department recently played host to an enlightening talk titled, "Getting Started with Data Science," by Mr. Nishanth Shetty, a distinguished research scholar from IISc. The event, attended by an enthusiastic cohort of around 80 students, provided a compelling introduction to the dynamic field of data science.



✚ Department of Civil Engineering organised NIRMAAN 2023, Civil Engineering students' symposium in the college during Dec.8th – 10th, 2023.



December 9th, 2023

✚ Dr.Madhukar K., Assistant Professor, Department of Mathematics presented a paper titled, 'Flow Past a Rigid Sphere in a Couple Stress Fluid at Low Reynolds Numbers' in the conference, "ISTAM Congress 2023" organised at IIT Warangal, Telangana during Dec.7-9,2023.

December 11th, 2023

✚ Dr. Karthikeya G S, Assistant Professor, Department of Electronics and Communication Engineering presented a paper titled, 'Application of Metamaterials in mm Wave 5G Antenna Designs' in the IEEE MAPCON 2023 conference organised at Ahmedabad during December 11th-13th, 2023.



✚ Dr. Umesha V., Assistant Professor, Department of Mathematics presented a paper titled, 'Comparing Hybrid Functions and Haar Wavelets to establish quadrature rules for numerical integration' in National Conference on Computational Methods in Applied



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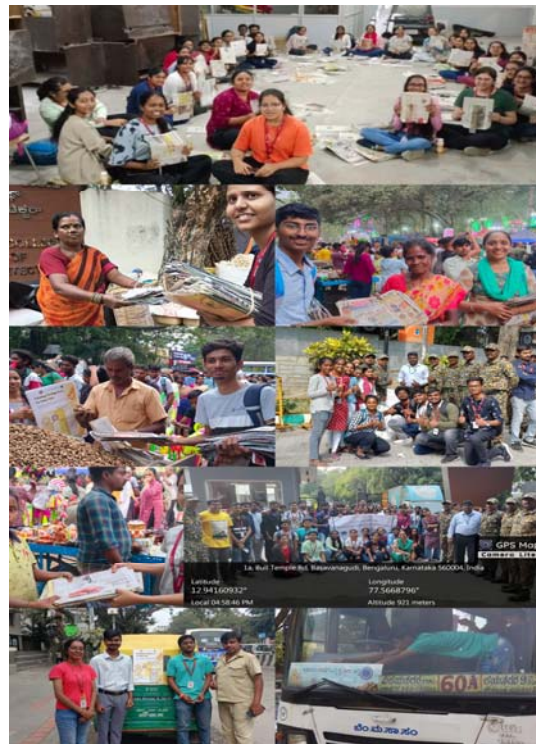
Science and Engineering (NCCMASE 2023) organised at Dayananda Sagar College of Engineering Bengaluru during Dec.11-12, 2023.

- ✚ The NSS Unit of the college in collaboration with NCC, Phase Shift Core committee, Manusmaran club of department of EIE and Lions Club, Gavipuram organized a Blood Donation Camp in the college. Partnering with medical institutions, 200 units of blood were contributed, benefiting Kidwai Memorial Institute of Oncology, Indira Gandhi Hospital and BMST Rotary.



- ✚ The NSS Unit of the college volunteered for a three-day "Zero Waste Kadlekai Parishe" during Dec.11-13,2023. The

volunteers made around 2100 paper bags over a week and distributed to the vendors in Kadalekai Parishe. Additionally, the volunteers engaged in publicity about "Zero Waste Kadlekai Parishe" by placing display boards on BMTC buses passing via Ram Krishna Ashram. The volunteers also engaged in active plogging throughout the day in shifts and collected surveys from vendors, enhancing awareness and understanding of waste management practices. The event showcased dedicated efforts in pre-event preparations, waste reduction initiatives and community engagement, aligning with the commitment to creating a sustainable and zero-waste environment.





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✚ Dr. Shivashankar Srivatsa, Dr. Sangamesh C. Godi, and Dr. Chidanand K. M., Assistant Professors, Department of Mechanical Engineering participated in one week AICTE Training and Learning Academy (ATAL) Faculty Development Program on 'Advances in Modelling, Simulation and Testing of EV Technology' organised at R.V. College of Engineering, Bengaluru.

December 12th, 2023

✚ Dr. Y K Suneetha, Associate Professor and HOD, Chemical Engineering attended the awareness program at CMTI, Bengaluru as a member of ICC.



✚ Chemical Engineering Department launched a *ChemE Connect club*. As part of this, a lecture session on the topic, 'Entrepreneurship and Higher Education opportunities available to Chemical Engineering students in Canada', by an alumnus (2012 batch) of the department, Ms. Bhavana Rao, currently resident of Canada and is into Business Consulting, Project Management and Engineering Design was organised. Dr. Srilakshmi

Diddi, Assistant Professor in the Department coordinated the event.



✚ The Department of CSE organized a Technical talk on "Interest Rates and Bond Valuation, Stock Valuation" for 7th semester UG students. Sri. Surya Mallampally, Chartered Accountant, MS Rao & Co., Proprietor & Director of Sumup Solutions Pvt. Ltd., was the resource person. Smt. Madhavi R P, Associate Professor, Smt. A N Saritha and Sri. Vikranth B M., Assistant Professors in the department coordinated the event.



✚ The department of Medical Electronics organised a talk on "An Overview of Regulatory Affairs for Medical Devices and Job Opportunities" by Sri. Akash K A,



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Quality Assurance and Regulatory Affairs Engineer, Niramai Bangalore.



- ✚ Sri.Pradeep S., Assistant Professor in the Department of Biotechnology was invited to deliver an expert talk on Bioprocessing at Dayananda Sagar College of Engineering, Bangalore as a part of Chem Talks.



December 14th, 2023

- ✚ Dr. B. Sudarshan, Assistant Professor, Department of Mechanical Engineering along with UG Students, Mr. Udayaa Karthik B S, Mr.Sanat J Kumar, and Mr.Pratik Agarwal presented a conference poster on 'Flow Visualization study on a NACA0020 airfoil with sinusoidal tubercles using photo luminescence particles' in 27th National and 5th International ISHMT-ASTFE Heat and Mass Transfer Conference at IIT Patna.



December 13th, 2023

- ✚ The department of Civil Engineering conducted "Civil Engineering Faculty Colloquium- Cycle-2, by Dr. T Rajanna, Assistant Professor in the department.



- ✚ The Annual Technical Symposium, PHASE SHIFT 2023 with the theme: "Techoptopia: Into the Future" was organised in the college during Dec. 14-15, 2023. Sri.Guruprasad Mudlapur, President, Bosch Group India & Managing Director, Bosch Ltd., and one of our esteemed alumni was the Chief Guest for the Inaugural function and Sri.Aravind Kamath, Founder, EMC Engineers, Ex.Principal Consultant,



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Bosch & Ex Scientist-E, ADA was the Guest of Honour for the function. Sri.Aviram Sharma, Trustee, BMSET and other dignitaries graced the occasion.



As a part of Phase Shift 2023, various technical events and exhibition organised by the departments saw a huge participation of the students from different colleges.

Department of Electronics and Communication Engineering organized the following workshops and events for the students .

Workshops:

- **The SecureEmbed workshop:** Sri.Suresh, Senior Manager, Sienna ECAD was the resource person.



- **Beyond Waves Antenna Evolution:** Dr.Balamati Choudhury, Senior Scientist at the National Aerospace Laboratories (NAL) and Mr. Daniel Amos, Director of Rapid 3D and Dr.Maruti Tamrakar, Application Engineer at Keysight Technologies were the resource persons.



- **FPGA Finese:** Mr. Vishnudev Gowda, an Application Engineer at CoreEL Technologies was the resource person. The workshop commenced with a detailed introduction to the FPGA architecture, specifically centred around Basys3 and PynQ boards with hands-on session.



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Events:

- **Electrostorm:** Electronics-themed treasure hunt. The event aimed to infuse fun and interactivity into the world of electronics, encouraging participants to explore and apply their knowledge in an engaging manner.



- **Fury Road:** 52 teams brought their pre-built RC cars to navigate a challenging course of obstacles, battles, and racing tracks. The competition aimed to determine the most skillful and innovative RC car builders.

Department of computer applications hosted various events as a part of PHASE SHIFT 2023

- **The Byte Breakout: Escape Room**

The Byte Breakout challenge comprised three escape rooms; each with an unique theme, set of coding and tech-related puzzles. Teams navigated through each room and a special dark room, aiming to complete the escape rooms in the shortest time possible.

Teams of three participants each, consisting of tech enthusiasts pursuing bachelors and masters from various colleges across Bengaluru eagerly participated in the Byte Breakout challenge. The event drew 15 teams, each bringing a diverse set of skills and creativity to escape the rooms.





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- **Hands-on Workshop “Cloud & AWS”**

The Cloud & AWS Workshop, an insightful and interactive session aimed at educating participants about cloud technologies and Amazon Web Services (AWS) was conducted. Mr. Mohit Agarwal and Ms. Zikra Iqbal from STL Digital, Bengaluru were the resource persons.

- **Byte Blitz: Capture the Flag**

The Byte Blitz challenge comprised two rounds, each with a unique theme and set of coding and tech-related puzzles. Teams of three participants each, pursuing Bachelor’s and Masters’ degree at various colleges across Bengaluru eagerly participated in the Byte Blitz challenge. The event drew 14 teams, each bringing a diverse set of skills and creativity to Crack the passwords.



- **Technovision Web Design Challenge**

The Technovision contest was split into three rounds, the first of which comprised multiple choice questions about web design. The second round required students to design a simple yet appealing website and the third round required students to make the website reactive and responsive. The event drew nine teams, each with a distinctive combination of skills and creativity to contribute to the vision.





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As a part of Phase Shift 2023, Department of Electronics and Telecommunication Engineering organized a workshop on Computer Networks by Sri. Samba Murthy, General Manager, Vigvin Technologies.



The following events were conducted in the Department of Mechanical Engineering as part of Phase Shift-2023.

- **Unmanned, Unmatched – Seminar:**

Dr.Guruprasad, former Director General DRDO, Distinguished Scientist, New Delhi & Former Director R&DE (Engineers), DRDO, Pune was the resource person. The seminar focused on autonomous systems like swarm technology for UAVs and the event aimed to enlighten students on their pivotal

role in defence. The seminar included discussions on applications and implications of showcased technologies, fostering an engaging atmosphere for learning.



- **Autonomous Mobility Solution**

A seminar on transformative leap in the field of transportation, promising to redefine the way we move and interact with our surroundings was organised. Sri.Vivek, Business Development Manager-Acoustics, Hexagon MSC Software Ltd., B'lore was the resource person. The innovative systems leverage cutting-edge technologies, such as artificial intelligence, machine learning and advanced sensors, to enable vehicles to navigate and operate without human intervention were discussed. The seminar included discussions on applications and implications of showcased technologies like AI&ML and electronics sensors, fostering an atmosphere for interdisciplinary learning.





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• Futuristic Diagnostic Tool In Mechanical Engineering

The seminar on 'Futuristic Diagnostic Tool in Mechanical Engineering' by Dr.Girish Doddamani, CEO at Enviro Sense Tech , Bengaluru highlighted the convergence of innovation and diagnostics, offering a visionary perspective into cutting-edge tools and focused on the complexity of modern mechanical engineering systems and the escalating demand for cutting-edge diagnostic solutions.



- ✚ Dr. B Mallikarjuna, Assistant Professor, Dept. of Mathematics presented the research paper titled, "Convective Heat transfer in a lid-driven porous cavity filled with ternary hybrid nanofluids" in 27th National and 5th International ASTEF Heat and Mass Transfer Conference organised at IIT, Patna during December 14th -17th , 2023.

- ✚ As part of Phase Shift 2023, Departments of CSE(DS) and AI&DS conducted the electrifying "Casino Code Off" event captivated participants as 22 teams entered the thrilling competition. With half the challenges coding-based and the

rest pure entertainment, competitors strategically utilized their accumulated points and base money for game-changing powerups, creating an unforgettable fusion of coding skill and strategic gaming.



- ✚ Dr.Venkatesh T Lamani, Assistant Professor, Department of Mechanical Engineering presented a paper titled, "Effect of Pressure Drop on Multi-phase Flow of High-Pressure Homogenizer-CFD Study" in 27th National and 5th International ASTEF Heat and Mass Transfer Conference organised at IIT, Patna during December 14th -17th , 2023.

- ✚ As part of Phase Shift 2023, Departments of AI&DS in collaboration with CSE(DS) organised the captivating "Crack The Codex" event with 13 participants facing three exhilarating rounds. In Round 1, challengers engaged in a fast-paced Capture the Flag cipher/decoding challenge, solving six puzzles within a time limit of one hour. The difficulty



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levels awarded varying points, setting the stage for Round 2.

Here, contestants raced against the clock in quick-response rounds, mastering Emoji Pictionary, Mouse Maze, and Match the Tiles in 15 minutes. The top 5 participants with the highest points from Rounds 1 and 2 advanced to Round 3, where they tackled 10 algorithm challenges in one hour.



✚ Dr. Shubha Muralidhar, Assistant Professor, Department of Management Studies & Research Centre, chaired a Session in the International Conference on “Strategic Agility & Resilience: Benchmarks & Best Practices” organized by Department of Business Administration, B N M Institute of Technology, Bengaluru.



✚ ‘Healthcare Startup Pitch’ conducted under Phase Shift 2023, illuminated the convergence of innovative ideas and entrepreneurial spirit within the healthcare sector. This platform, designed to foster MedTech and Healthcare-based innovations, saw spirited participation from diverse institutions. The event structure allowed each team 8 minutes to present their pioneering solutions, highlighting crucial aspects ranging from identifying healthcare problems to elucidating business models and technological innovations.



Singularity, the Astronomical Society of Department of Physics of the College hosted a seminar on the topic, “theory of astrophotography in real life” by Dr. Ram Mohan, Scientist, Abaa, Bengaluru. The event's objective was to educate participants on the intricate workings of

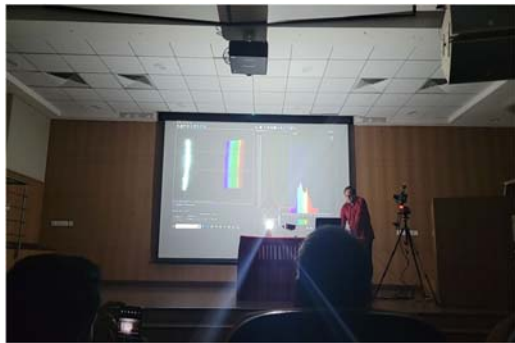
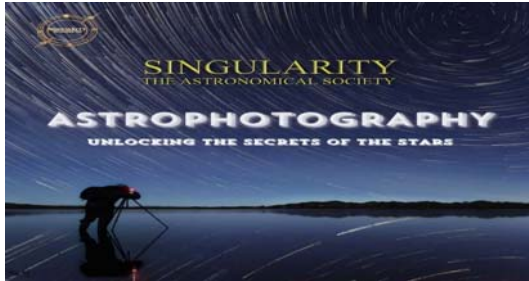


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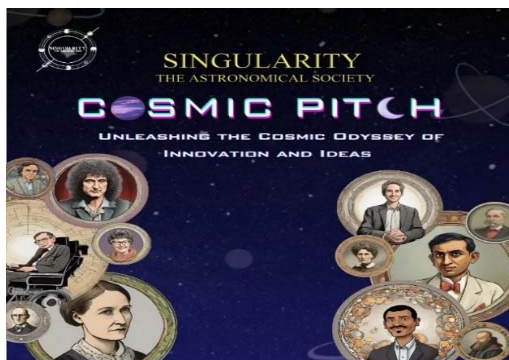
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capturing the beauty of the night sky.



As a part of Phase Shift 2023, Singularity - The Astronomical Society of department of Physics of the college conducted the event, "Cosmic Pitch" by Dr. Sreenath R, Scientist, ISRO, Bengaluru who had worked on several missions including the Chandrayaan - 3 and Mars Orbiter Mission.



Department of EEE organized following events as a part of Phase Shift 2023

- Bob The Circuit Builder
- Big Daddy
- Electra Buzz
- AI Application in MATLAB
- Talk on VLSI
- Talk on Future Electric Power Grids



During Phase Shift 2023, the NSS unit of the college took the initiative to transform the college technical fest into an eco-friendly event by implementing a 'Zero-waste' approach. The primary objective was to promote waste segregation and minimize overall waste. To achieve this, steel cutlery was borrowed from



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Adamyta Chetana Foundation's plate bank, serving nearly 4,000 people and reducing the need for disposable plates. Dedicated student volunteers monitored the segregation of dry and wet waste throughout the event. The initiative successfully showcased a commitment to sustainable practices by actively involving the community in reducing waste and promoting responsible resource utilization.



The Department of Electronics and Instrumentation Engg., organized the following events on the occasion of Phase Shift 2023

- AI and ML using Edge Devices:

The resource person were Sri. Rohit Prajapati, Technical Director at DigiToad Technologies and Sri. Laingam Meetei, Field Application Engineer, DigiToad Technologies.



- Anadigit Lockpick :

Smt.Sindhujha V, Associate Software Engineer, Bosch Global Software Technologies was the resource person.



- MAZE RUNNER 2.0 :

The resource person was Sri.Prajwal Uppoor, Software Engineer-2, SANDVINE Technologies, Bengaluru.



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- Printed Circuit Board :

Mr. Jitthu Joseph and Ms. Linet Thomas, both distinguished research scholars from the esteemed Center for Nano Science and Engineering (CeNSE) at the Indian Institute of Science in Bengaluru (IISc) were the resource persons .



- VR Edutainment: The resource persons were Dr. Pavanraj HR, Senior System Engineer, Sri. Lathesh Shetty, VR Engineer, and Sri. Ashwin V., VR Engineer from Modelicon Infotech LLP .



- ROS Workshop: Sri. Rohith J Sharma, founder AEROBO labs & our Alumnus was the resource person.



December 15th, 2023

- ✚ Dr. Karthik Kumara, Assistant Professor in the department of Physics co-authored & published a research paper titled, "Microwave-Assisted Synthesis and Characterization of Some Aldehyde Derivatives of Imidazo[2,1-b][1,3,4]thiadiazole: Crystal Structure Insights, In-Silico and Biological Studies" in Journal of ChemistrySelect, Volume8, Issue47, December 15, 2023, e202302877 and Q2 Journal. Online ISSN:2365-6549 Print ISSN:2365-6549.DOI:

<https://doi.org/10.1002/slct.202302877>



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- ✚ Singularity - the Astronomical Society of Department of Physics conducted the event, "Space land Intelligence" as a part of Phase Shift 2023. Dr. Sreenath R., Scientist, ISRO, Bengaluru was the resource person.



workshop during Phase Shift 2023. The event was a visionary workshop that bridged the realms of human cognition and cutting-edge technology. It was an immense journey into the boundless potential of these two fields as they merge to redefine the landscape of healthcare and human capabilities. The resource person, Dr. Sanjeev Kubakadi, the founder and CEO of ITIE Knowledge Solutions demonstrated the hands-on working of the system. The students obtained an insight into the promise of the exciting field of Brain Computer Interface and possible career opportunities in this field.

- ✚ Dr. Abhishek Appaji, Associate Professor in the department of Medical Electronics Engineering was awarded with IEEE India Council Outstanding YP Volunteer of the Year 2023 at 12th IEEE INDICON, Hyderabad.



Stalls - Project Exhibition

During Phase Shift 2023, along with various workshops, seminars, competitions, departments showcased projects done by their students.

- ✚ The Department of Medical Electronics Engineering in collaboration with the Department of Computer Science and the Association of Medical Electronics (AME) organised 'Brain Computer Interface'





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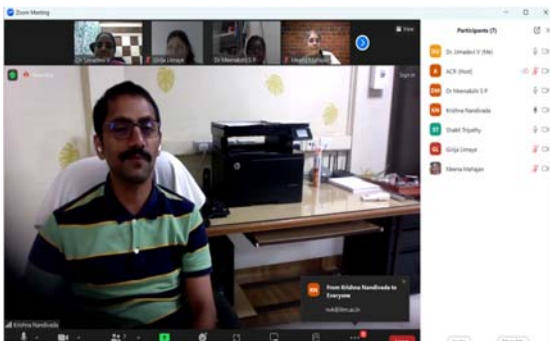
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Department of Electronics and Telecommunication Engineering received the Best Project Stall award.

The collaborative effort of all the departments of the institution made the PHASE SHIFT 2023 event, a grand success



- Dr. Umadevi V., Associate Professor, Department of CSE, participated in academic discussions with Dr. V. Krishna Nandivada, Professor, HOD (CSE), IITM .



- Dr. Sreelatha R, Dr.Mahalakshmi, Assistant Professors in the department of ISE along with the students in the department, Mr.Chiranjeevi Nayak B, Ms.Sushmitha R and Ms.Supriya G V.,

presented(online) a paper titled, “Automatic Vehicle Counting for Traffic Management System using Image Processing and IOT” at the 6th EAI International Conference on Big Data Innovation for Sustainable Cognitive Computing organised at Coimbatore during Dec. 15th - 16th, 2023.

- Dr.A.Satya Nandini, Professor, Department of Management Studies and Research Centre chaired a session in the International Conference on "Strategic Agility and Resilience: Benchmarks and Best Practices organised at BNMIT, B'lore



December 16th, 2023

- Alumni meet was organised in the college. The Alumni Homecoming was a remarkable event, uniting alumni, faculty, and current students for a day filled with reminiscence, camaraderie, games, fun and celebration. The



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department of ISE started the event in the department with a short movie called “Nostalgia” created by the current students in the department. Interactions also focused on requirements in the TLP like the software tools along with industry opportunities and Post graduate studies in India and Abroad. The students found the interaction highly resourceful and motivational.



The 10th Alumni Homecoming was a grand success, weaving together the threads of the past and the present. The event culminated with a colourful program in the evening. One of our distinguished alumni, Sri. Dattatri Salagame, CEO, President & MD, Bosch Global Software Technologies graced the function as the Chief Guest. Twelve of our alumni who were a part of ISRO team contributed towards nation's milestone, Chandrayaan 3 & Aditya L1 mission were invited and felicitated. Around 850 alumni were on the campus and attended the open house and the formal gathering. On this occasion, 76 Alumni who graduated from the year 1981 & 1982 were felicitated. The winners of Alumni Sports Day scheduled during November 2023 were felicitated on this occasion.





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On the occasion of Alumni Day 2023, BMSCEAN Merit Scholarships were awarded to 58 students.



- ✚ Dr. Umadevi V., Associate Professor, Department of CSE participated in Computer Science & Engineering "AMA" (Ask Me Anything) online event conducted by IIT Madras .



- ✚ Dr. R. Suresh Kumar, Assistant Professor, Department of Mechanical Engineering conducted Two-day workshop on 'Outcome-based education and accreditation' at JIS College of Engineering, Kalyani, Nadia during Dec.16-17,2023.



- ✚ Dr.Sreelatha R, Assistant Professor in the department of ISE delivered a talk on "Career Opportunities, Challenges, Different Streams and Prospects in the Field of Engineering" for 2nd PUC students of Vidya Vardhaka Pre-



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University College, Rajajinagar,
Bangalore



December 17th, 2023

✚ The department of Biotechnology under ICSSR (GOI) grant under Short term empirical research project in association with NSS unit of the college organised an awareness talk on “Modern menstrual hygiene techniques among the women in rural areas” for ladies of Aravind textiles at hostel premises, Ckikkakamanahalli, Bangalore. The resource persons were Ms Pavithra, Researcher and Ms .Jayashri Deshpande, Field officer , coordinated by Dr Savithri Bhat, Professor, Department of Biotechnology and Dr Rashmi S Shenoy Assistant Professor, Department of Biotechnology of the college. Fifty ladies participated in the event. Free hampers were distributed to all the interested participants.



✚ The NSS volunteers of the college actively participated in handling registrations, verifying identities and assisting 120 students from various schools and colleges during the event of scholarship distribution to visually impaired students organised by Vidya Vikas Trust, Rajajinagar, Bengaluru .



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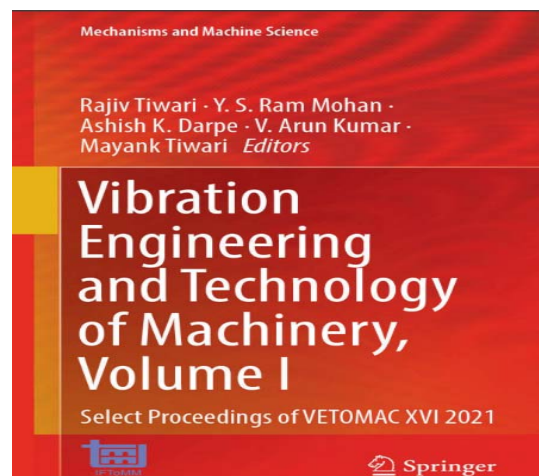


December 18th, 2023

✚ The department of Physical Education and Sports of the college organised KREEDOTSAV'23 State Level Inter-Collegiate Sports during December 18-22, 2023 in the college. The NSS unit of the college in collaboration with the department of Physical Education and Sports, organized a zero-waste "Kreedotsava" utilizing plates borrowed from the Adamyta Chetana Foundation's plate bank to serve food to the Participants and staff.



✚ Proceedings OF VETOMAC XVI 2021 Conference organised in the college during Dec.16-18, 2021 has been published online by Springer publications in December, 2023.





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- ✚ The department of Civil Engineering in association with ICI - Bangalore Centre organised a technical seminar on "Recent Trends in Concrete". Dr. Sreenivasa Murthy A., Dr.R.Manjunath and Dr.Asha K., Assistant Professors in the department coordinated the event.



- ✚ Mrs. Shabnam Siddiqui, Assistant Professor in the department of Chemical Engineering attended 5-day FDP program on 'Sustainability in Process Engineering', conducted by Department of Chemical Engineering, MIT World Peace University during December 18-22 ,2023.

December 19th, 2023

- ✚ The Department of CSE organized a Technical talk on "Interest Rates and Bond Valuation, Stock Valuation" for 7th semester BE students. Sri. Surya Mallampally, Chartered Accountant, MS Rao & Co., and Proprietor & Director of Sumup Solutions Pvt. Ltd., was the resource person. Smt.Saritha A N, Sri.Vikranth B M and Sri.Sunil Kumar

Karanam, Assistant Professors in the department coordinated the event.



- ✚ Dr. Chidanand Badiger, Assistant Professor, department of Mathematics delivered a lecture on Linear Algebra in the CSIR NET/KSET Workshop organised at Tumkur .
- ✚ Dr.M.N.Suma, Professor and Dr.Sudheendra K R., Associate Professor, Department of Electronics and Communication Engineering along with Mr.Skanda H., UG student in the department have been granted Indian Patent for-'A SYSTEM AND A METHOD FOR PROVIDING DYNAMIC BEAM-STEERING FOR AN ANTENNA' in the name of B.M.S COLLEGE OF ENGINEERING.

- ✚ The department of Mechanical Engineering organised a lecture on the topic, 'Basics of Heating Ventilation and Air Conditioning & Refrigeration



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Insulation' by Sri. Ramanathan Annamalai, Manager – Business Development, ALP Aeroflex Company for third semester students in the department. The program aimed at educating students about the latest development in the field of HVAC. Dr.Sudarshan B, Assistant Professor in the department coordinated the event.



The Department of Chemical Engineering in association with the Department of Biotechnology organised a lecture titled, "*Digital Technologies for Operational Excellence - Role of Chemical & Biotech Engineers*" by Sri. Sanjay Venugopal, Senior Technologist, Yokogawa .



December 20th, 2023

A talk on Drug Abuse Awareness by Sri.Rahul Kumar Shahpurwad IPS, DCP, South Bengaluru city was organised in the college as part of Crime Prevention month.



Dr. Karthik Kumara, Assistant Professor, Department of Physics co-authored & published a research paper titled, "Hydrothermal synthesis of Bi₂S₃ nanoparticle as a prospective electrode for supercapacitor" in Journal of Next Materials Volume 2, January 2024, 100081, Q2 Journal. Online ISSN: 2949-8228.

The department of Medical Electronics Engineering organised an industry visit to Mardi Bio Industries Pvt. Ltd., aiming to provide a comprehensive understanding of the processes, technologies and standards employed in handling biomedical waste to the



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students. The said state-of-the-art biomedical waste management facility located in Sampangi Rama Nagar, Bengaluru specializes in the efficient and environmentally responsible disposal of biomedical waste generated by healthcare institutions, laboratories, and pharmaceutical companies.



- Department of EEE organized an Industrial visit to Bloom Energy (India) Pvt. Ltd.



December 21st, 2023

- Dr.Umavathi M., Assistant Professor in the Department of EEE chaired a session in 3rd International Conference on “Innovative Mechanisms for Industry

Applications (ICIMIA-2023)” organised by Dayananda Sagar College of Engineering (DSCE), Bengaluru during December 21-23, 2023.

- Dr. Rajeshwari Hegde, Professor & Head, Department of Electronics and Telecommunication Engineering chaired a session in the IEEE International conference on Innovative Mechanisms for Industry Applications organised at Dayananda Sagar College of Engineering during December 21-23, 2023.



- The paper titled, “Numerical investigation of hypersonic flow over re-entry vehicle in continuum regime” co-authored by the students, Mr.Ram Naresh Mahato, Mr.Arun Kumar M, Ms.Vastala Chillala along with Dr.D.Saravanan, Assistant Professor, Dr.Rammohan Y.S., Professor & HOD-Aerospace Engineering and Ms.Sushmitha S., doctoral student of IISc, B’lore was presented in the 6th Indian Science Conference held at Ahmedabad, Gujarat during Dec 21st to 24th, 2023 and the student, Mr.Ram Naresh got the third



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prize in the “Emerging Science and Technology” category. The said paper had got the first price at “SWADESHI VIJNANA ANDOLANA – KARNATAKA (Karnataka State Unit of Vijnana Bharati)” held at TUMKUR UNIVERSITY, Tumakuru in the month of October and was recommended for presentation in the 6th Indian Science Conference .



✚ Dr.A.Satya Nandini, Professor in the department of Management Studies and Research chaired a session on “Transformation and Business Recovery Process in Financial Sector” organised at Nitte Meenakshi Institute of Technology, Bengaluru.



✚ Department of Computer Applications organized a webinar on “LETs Explore : Basics of Software Testing and Manual Testing”, by Ms.Priyanka Arora, Automation Engineer, Engineer Diaries, New Delhi.



✚ One day Tech Summit, “TechSolstice” was organised by the department of Electronics and Instrumentation Engineering and the ISA BMSCE student section. The resource person, Prof.Mel Siegel, Professor Emeritus from Carnegie Mellon University (CMU), USA delivered a keynote address titled, “The Coming Revolution in Inertial Navigation” during the inauguration of the summit. Industry experts, Sri.Ramkerur, CEO, Sunlux Bengaluru, Sri. Shankar Balkrishnan, President, ISA Bangalore section were few of the distinguished members participated in the Summit along with faculty and students. As a part of the Tech Summit activity, eleven student projects carried out by EIE Department



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under faculty supervision, addressing complex Engineering Problems were reviewed by Prof. Mel. MoU was signed on the same day between the college & Sunlux Technovations Pvt. Ltd, Bengaluru in collaboration with Prof.Mel Siegel, CMU, USA as Mentor.



- ✚ The department of Civil Engineering in association with INTACH, Bengaluru Chapter & ACCE(I) – Bengaluru Centre, supported by HELIFIX and FOSROC organised a 3-day Workshop on “Sustainable Materials and Technologies for Heritage and Traditional Buildings” during December 21-23, 2024.

December 22nd, 2023

- ✚ The department of Mechanical Engineering organised a lecture on ‘Role of Computer Aided Design in product design and Manufacturing’ by Sri.T.R.Amarnath Babu, Trainer, Vijay CAD/CAMM solutionz for fifth semester students in the department. The program aimed at educating students

about the latest development and job opportunities in CAD/CAM domain. Dr.Chidanand K M., Assistant Professor, Dept. of Mechanical Engineering coordinated the event.



- ✚ Dr. Shubha Muralidhar, Assistant Professor, Department of Management Studies & Research Centre chaired a session in the International Conference on “Global Economic turmoil: Transformation & Business Recovery Process” organized at Nitte Meenakshi Institute of Technology, Bengaluru in association with the Kettering University, Michigan, USA, University of Dubai, Asian institute of Technology, Thailand, The Asia pacific University of Technology & Innovation, Malaysia and the Marino Marcos State University, Philippines.





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✚ Sri.Gururaja H S., Assistant Professor in the department of ISE won the best presentation award under faculty category at the second International Conference on recent trends in Management, Engineering and Technology (ICMET) 2023 held during December 22-23,2023.

✚ Dr.V.Nalina, Assistant Professor in the department of ISE along with the UG students, Mr.Shashank S., Mr.S.Prajwal and Mr.S.Samarth presented a paper titled, “Deep Learning-Based Solid Waste Classification:A Convolutional Neural Networks” at the Second International Conference on Recent Trends in Management, Engineering and Technology (ICMET) 2023 held during December 22-23,2023.

✚ Department of Electronics and Telecommunication Engineering organized a talk on “Long Term Evolution (LTE)” by Dr. K. R. Sudhindra, Associate Placement Officer & Associate Professor ,Department of Electronics and Communication Engineering for the 7th semester students in the department .



December 24th, 2023

✚ Dr. Gauri Kalnoor, Assistant Professor in the department of CSE along with a PG Student, Ms. Varalakshmi P., published a paper titled, “ Ship Detection Using Yolo v8 and Yolo-NAS” in GRADIVA REVIEW JOURNAL, indexed in Web of Science, Q4 Quartile Rank and UGC approved journal with impact factor 6.3.

✚ Dr. Rajeshwari Hegde, Professor & Head, Department of Electronics and Telecommunication Engineering organized meetings with Sri.Vinay Rao, an alumnus and co-founder, Taproots.ai, Mr.Amogh Avadhani, Software Developer Oracle and Mr.Rishabh Sanghavi, Founder, Bupp - Eliminating honking pollution from Indian roads and 5th semester students on 5th, 18th & 24th of December 2023 to work on a real time project to reduce noise pollution.



December 28th, 2023

✚ Dr.S.B. Bhanu Prashanth, Professor in Medical Electronics was invited as Chief



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Guest for the inaugural function of BIOMEDTECH-2023-24, the technical fest at SSIT, Tumkur. He also delivered a keynote address on 'Qualities of Great Engineers'.



Institute of Technology, Kolkatta during December 27-30,2023. The team has been awarded 1st prize for best paper presentation.

✚ Ms.Sneha Suresh Kumar, Ms.Shrimoyee Ghosh, & Mr.Chinmayee Purvachari Badiger, 7th semester students of the department of Chemical Engineering under the guidance of Mrs. Shabnam Siddiqui, Assistant Professor in the department presented a paper titled, "*Modelling and optimization of methylene blue dye removal using eucalyptus bark biomass in a packed bed column: a comparative analysis of ANN and ANFIS predictive models*" in the International conference on Energy Transitions: Challenges and Opportunities, IChE – Chemcon 2023 organised at Heritage Institute of Technology, Kolkatta during December 27-30,2023.

✚ Placement Club of department of Computer Applications conducted coding challenge on Hacker rank for 100 points. The students were given a particular code to solve in any preferred programming language.

December 30th, 2023

✚ Ms. C.V. Bhoomika and Ms. M.W. Swathi, 7th semester students in the department of Chemical Engineering under the guidance of Dr. Sainath K, Assistant Professor in the department presented a paper titled, "*Cobalt-based Leaf-like ZIF for Cr(VI) Removal: A Novel Nanomaterial*" in the International conference on Energy Transitions: Challenges and Opportunities, IChE – Chemcon 2023 organised at Heritage

✚ A paper titled, "*Predictive Modelling of Organic and Inorganic Pollutants Adsorption with Metal-Organic Frameworks: A Comparative Computational Study*" authored by Mrs.Shabnam Siddiqui, Assistant Professor in the Chemical Engineering Department and Mr.Prakyath P Thalya, 7th semester student in the department & co-authored by Dr. Sainath K, Assistant Professor in the department was presented in the International



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conference on Energy Transitions: Challenges and Opportunities, IChE – Chemcon 2023 organised at Heritage Institute of Technology, Kolkatta during December 27-30,2023.

- ✚ Dr. Hari Prasad Uppara, Assistant Professor in the Department of Chemical Engineering along with the students, Ms.Alaka Atrey and Ms.K.Diksha, presented a paper titled, “Structural, surface morphological and photocatalytic properties of MOF derived CuO catalysts” in the International conference on Energy Transitions: Challenges and Opportunities, IChE – Chemcon 2023 on Dec 27 -30, 2023 held at Heritage Institute of Technology, Kolkatta during December 27-30,2023. The team has been awarded “Best Paper Award”.

process engineering application. Sri.Debashish showcased few case studies on flow induced noise with sample data points on ODYSSEE A-EYE and solver. Dr.B. Sachin Kumar, Assistant Professor, Dept. of Mechanical Engineering coordinated the event.



- ✚ Department of Mechanical Engineering in association with Mechanical Engineering Association (MEA) organized one day seminar on “Machine Learning for Enhanced Engineering” for fifth and seventh semester students as a part of skill enhancement. Sri. Vivek, Business Development Manager-Acoustics and Sri.Debashish from Hexagon MSc Software Ltd., B'lore were the resource persons. The speakers illustrated the analytical, numerical and AIML methodology and tools for any engineering problems. The significance of training data and sample size were explained with real life examples in

December 31st, 2023

- ✚ Dr.Laitha S., Assistant Professor, Department of Electronics and Communication Engineering co-authored published a research paper titled, ‘Delay-aware optimized scheduling algorithm for high performance wireless sensor networks’ in the Journal for Control, Measurement, Electronics, Computing and Communications, Automatika, 65:1, 92-97, DOI: [10.1080/00051144.2023.2269642](https://doi.org/10.1080/00051144.2023.2269642)



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✚ NSS volunteers actively engaged in a series of 'Green Sundays' organized by Adanya Chetana Foundation in Bangalore at different locations viz., Jalahalli, Maragondanahalli-Electronic City, Bangalore University-Biopark-Campus and Anjanapura-Avalahalli held on December 3rd, 10th, 17th, 24th and 31st, 2023. These events focused on planting saplings, offering crucial care like watering and manuring, and fostering environmental awareness.