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REPORT ON COLLEGE ACTIVITIES - FEBRUARY 2023

February 1st, 2023

Dr. B. Kanmani, Professor in the department of Electronics & Telecommunication Engineering handled the forenoon sessions during the KTU sponsored one week Faculty Development Programme (FDP) on Outcome-Based Education: Adopting Effective Pedagogy organized by Jyothi Engineering College, Cheruthuruthy, Thrissur, Kerala.



- Patent was granted to Dr. R. N. Ravikumar, Associate Professor in the department of Mechanical Engineering and his team for the invention titled, 'CASCADED AIR FOIL THRUST BEARING'.
- Dr. Rajanikanth K. N., Associate Professor in the Department of Electronics and Communication Engineering presented the research paper titled, 'Enhancing Immersive User Experience Quality of StudoBot Telepresence Robot with Reinforcement Learning' co-authored with

Mr. Mohammed Rehab Sait and Mr. Sumukh R K, UG students in the Department at IEEE International Conference on Advances in Intelligent Computing and Applications 2023 organized at Cochin University of Science and Technology(CUSAT), Kerala during Feb. 1st-3rd, 2023.

Dr. Karthik Kumara, Assistant Professor in the department of Physics published a research article titled, "Structural elucidation of 1:4:4 stochiometric form of thymine-gallic acid cocrystal hydrate: Hirshfeld surface analysis, 3D energy framework, DFT calculations, and SARS CoV-2 docking studies" in Journal of Molecular Structure, 135072, 2023. (Impact factor 3.841, Q2 Journal)

https://doi.org/10.1016/j.molstruc.2023.1 35072

February 2nd, 2023

Ms. Anindita Chattopadhyay, Ms. Pooja Desai, Mr. Viswas P, PG students in the Department of Electronics and Communication Engineering under the guidance of Dr.Vasundhara Patel K S, Professor, Dept., of ECE presented their research paper titled, 'An Improved Quaternary Decoder Design Using 32nm CMOS and GNRFET for High Density Memory Application' in the International Conference on Nano Composites Application conducted Aerospace at



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Cambridge Institute of Technology, Bengaluru during Feb. 2nd-4th, 2023.

February 4th, 2023

Dr. Manjunatha S.O, Assistant Professor in the Dept. of Physics published a research paper titled, "Highly efficient EMI shielding applications of porous nickel-iron ferrite doped with yttrium nanocomposite thin films as a multifunctional material" in Journal of Materials Science- J Mater Sci: Mater Electron (2023) 34:409 with impact factor 2.4, ISSN 0957-4522 (print) 1573-482X (Electronic) https://doi.org/10.1007/s10854-023-

Dr. Manoharan, HOD-MBA was the resource person for a session in the Faculty Development Program titled, 'Tips and Techniques of Research' organised at Acharya Institute of Graduate Studies,

About 80 faculty members

February 6th, 2023

attended the session.

Bengaluru.

09844-3

Dr. G Saravanakumar, Associate Professor, Sri. Suresh Erannagari, Assistant Professor, Department of Mechanical Engineering along with faculty members of other institutions published a paper titled, Thermal Conductivity of Hot-Rolled Al7075/TiB2/Graphite Hybrid MMCs in Journal of Institution of Engineers (India) 2023 https://doi.org/10.1007/s40033-023-00448-z

Dr. Manjunatha S.O. Assistant Professor, Dept. of Physics published a research paper earth(Sm³⁺) titled. "Rare doped CoCr₂O₄ ceramics sensor towards room temperature detection of greenhouse methane gas" in Ceramics International (2023)with impact factor 5.53. ISSN 02728842 (print) 18733956 (Electr onic)https://doi.org/10.1016/j.ceramint.2 023.01.215

February 7th, 2023

Sri.K.Arjun, Assistant Professor in the department of Civil Engineering was a Resource person for Faculty Development Program (FDP) organised for the benefit of 100 higher education faculties in Madurai Kamaraja University, Madurai, Tamil Nadu with the support of Tamil Nadu State Development Corporation (TNSDC) in association with Commonwealth Educational Media Centre for Asia (CEMCA).





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February 8th, 2023

A delegation from City University of Seattle's Antonio Esqueda Flores visited the college. The delegates discussed about the probable academic collaboration with the BMSCE team and MOU was signed.



February 9th, 2023

Dr.S.B. Bhanu Prashanth, Professor in the department of Medical electronics was invited to deliver a talk on "Mastering Exam writing Skills", for the students of EIE and ETE departments at Dayananda Sagar College of Engineering, Bengaluru.



February 10th, 2023

- * Ms. L.Jayashree and Ms. Suveditta, PG students in the Department of Electronics and Communication Engineering under the guidance of Dr.Vasundhara Patel K S, Professor, Dept., of ECE presented their research paper titled, 'Set Up and Hold Time Analysis of D Flip-Flop Based on CMOS and GNRFET' in the 3rd International Conference on Technology, Engineering, Management for Societal Impact using Marketing, Entrepreneurship and Talent (TEMSMET 2023) organised at Vidya Vikas Institute of Engineering and Technology, Mysuru during Feb.10th -11th, 2023.
- Mr.Sai Gagan Sirigeri of first semester BE(Information Science and Engineering) bagged Bronze medal in 3rd Khelo India Winter Games (Icestock) held at Jammu Kashmir, Gulmarg during February 10th to 14th, 2023.





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- Dr. Deepthee M. R., Assistant Professor in the Dept. of Mathematics published a paper titled, "Concurrent Engineering of a medium level Assembly Using Virtual Tools" in BULLETIN MONUMENTAL - ISSN / e-ISSN 0007-473X. Volume 24, Issue 1, Page No.7-11.
- Dr. D. N. Sujatha, Professor in the Department of Computer Applications participated as resource person for BITES Annual Convention organised at Infosys, Mysore during Feb.10th-11th, 2023.



February 11th, 2023

The student branch chapter of IEEE PELS & IES joining SBC of BMSCE received outstanding student branch chapter award from IEEE-PELS Bangalore chapter for their dedicated and outstanding performance throughout the year 2022.



Mr.Shravan S. Rao & Mr. Shrinivas B. Mural, UG students in the Dept. of Electrical & Electronics Engineering received outstanding volunteer award from IEEE-PELS Bangalore chapter for dedicated voluntary contribution to the PELS chapter throughout the year 2022.





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Dr. Prema V., Associate Professor & Smt.Chaitanya L., Assistant Professor in the Dept. of Electrical & **Electronics** Engineering received outstanding Ex-Officio award from IEEE-PELS Bangalore for dedicated chapter voluntary contribution to the **PELS** chapter throughout the year 2022.





Smt.Pushpavathi.K.P., Assistant Professor in the department of Electronics & Telecommunication Engineering successfully defended her thesis titled, "Digital Filters for Carrier aggregation" under the guidance of Dr.B Kanmani, Professor, ETE.

February 12th, 2023

Ms.Rakshitha, 7th Semester UG student in the department of Electronics and Communication Engineering and Mr.Sharath R., 1st Semester UG student in the department of Information Science and Engineering were selected for VTU Cross Country Men & Women teams in South Zone Inter University Championship 2022-23, held at Presidency University, Bengaluru on 12th February 2023.





Dr.Santosh Desai, Prof & Head, Dept. of EIE in association with Dr. Vinutha Srikanth, Associate Professor, RVITM, B'lore & Dr.M.G.Srinivasa, Associate Professor, MIT, Mysore published a Research paper titled, "Quantitative Detection of Ammonia Gas Via V2O5 Metal-Oxide Based Sensor Combining with Regression Model" in Acta Scientific Computer Sciences, Volume 5 Issue 3



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(February 12, 2023): pp.54-60. https://www.actascientific.com/ASCS/ASCS-05-0416.php

Third semester MCA students visited Biomethanation Plant - Yediyur Ward as a part of societal activity.



February 13th, 2023

83rd meeting of Board of Governors was convened in the college.



SINGULARITY', the Astronomical Society of BMSCE (Department of Physics, BMSCE) conducted an orientation program, "Orientation'23" for first year students of the academic year 2023-24. The event consisted of introduction to the club which looks into the club's history, events and upcoming projects. The introduction was followed by Q&A session which provided more insight into the functioning of the club and the benefits of becoming a member.

February 14th, 2023

- Dr. R.V.Ranganath, Professor was invited to conduct a mock accreditation review of Civil Engg program at Dayananda Sagar College of Engineering.
- Dr. C.S Kaliprasad, Assistant Professor, Dept. of Physics along with faculty members from other institutions published a research paper titled, "Evaluation of natural radioactivity and assessment of health risk due to the consumption of medicinal plants grown in the Western Ghat region of India" in the International Journal of Environmental Analytical Chemistry with impact factor 2.731 , Q 2 Journal, ISSN 10290397, 03067319 https://doi.org/10.1080/03067319.2023. 2176230



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February 15th, 2023

- The Ph.D viva voce of Sri. Srinivasa Murthy, Assistant Professor in the department of Civil Engineering was conducted.
- Dr.K.E Ganesh Assistant Professor in the Dept. of Physics published an article in Bangalore Mirror news paper regarding air quality study conducted him. https://bangaloremirror.indiatimes.com/b https://bangalore/others/fuming-city/articleshowprint/97927618.cms?prtpage=1

February 16th, 2023

Dr. R.V.Ranganath & Dr. H. S. Jagadeesh, Professors in the department of Civil Engineering were felicitated by Hon'ble Minister of Sports and Youth of Karnataka, Dr.Narayana Gowda on the event of successful completion of Kanteerava stadium waterproofing/ Rehabilitation and related repair work.



❖ Dr. Deepthee M R, Asst. Professor and Dr.Hemanth Kumar C, Asst. Professor, Dept. of Mathematics published a paper titled, "Wigner distribution function approach to analyze MIMO communication within a waveguide" in the Elseviere Heliyon journal Q1 Journal on 15 February 2023.

https://doi.org/10.1016/j.heliyon.2023.e1 3929

Dr.B.Sudarshan, Assistant Professor in the department of Mechanical Engineering delivered a talk on 'Studies on the shock wave effects on biopolymers and nano tubes using the modified Reddy shock tunnel' and presented a technical paper titled, 'Hypersonic flow study in a pneumatically operated academic shock tunnel' authored by him in association with Mr.H A Pranav & Mr.A V Sanjay, students in the department at the 7th National Symposium on Shock Waves (NSSW-2023) organised by Society of Shock Wave Research (IISc) at Physical Research Laboratory, Ahmedabad.





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- An orientation programme was organised by the department of Controller of Examination for the faculty members who joined BMSCE since 2017 and were apprised about the prevailing examination process in the college.
- Placement Club of department of Computer Applications organized a session for first semester MCA students to brief about the placement process. Third semester MCA students, Ms. Bhagyashri, Mr.Kiran and Mr.Sharan shared their experiences in facing placement interviews.



The research grants from Vision Group for Science & Technology, Government of Karnataka for the year 2021-22 have been sanctioned as mentioned below:

Name of the faculty	Project Tile	Total
		Grant
D. C. II.'. L. KD	(T	amount
Dr. Sudhindra K R,	'Investigation	Rs.30
Associate Professor	on Antenna	Lakhs
Dept. of ECE	Design using	
	High	
	Performance	
	Materials for	
	Next	
	Generation	
	Wireless	
D D C 1 1	Networks	D 20
Dr. B. Sudarshan	Establishing	Rs.20
Assistant Professor	the	Lakhs
Dept. of Mech. Engg	Infrastructure	
	and	
	Aerodynamic	
	Investigation	
	on an Airfoil with Novel	
	Tubercles and Serrations	
	Geometry for Wind Turbine	
	Applications	
Dr.Sainath K.	Chemical	Rs.0.25
Assistant Professor	Engineering	Lakhs
Dept. of Chemical	Engineering	Lakiis
Engg		
Dr.Chandrashekhara	Numerical	Rs.3
Assistant Professor	Investigation	Lakhs
Dept. of	of stability of	Lakiis
Mathematics	Rheological	
Mathematics	fluids through	
	vertical	
	porous	
	channels in	
	the presence	
	of External	
	fields with	
	variable	
	viscosity	
	viscosity	



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February 19th, 2023

Mr.Vishnu K A of 7th Sem. BE(Mechanical Engineering) and Mr.Giridhar A., of 7th Sem. BE (Information Science and Engineering) were felicitated by Karnataka Swimming Association in a function organised at Tennis Pavilion (Bangalore Palace) for representing Karnataka state in the Water Polo Nationals 2021 and 2022.





February 20th, 2023

Dr. Chetan A Nayak, Assistant Professor in the Department of Chemical Engineering was invited to deliver a talk(online) on 'Significance of steam and its uses in Food *Industry'* by Food Science Department, St. Aloysius College.



An orientation Program for first semester PG Students (2022-23 batch) was organized. The event focused mainly on sensitizing the students about Structure of curriculum, Course registration, Examination System, Examination Rules, Placement & Internship, Scholarships and other Research avenues.





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* Five teams of 3rd semester UG students from the Department of Electronics and Telecommunication Engineering interacted on "Soft skills and human values for the professional and personal life" with industry experts Sri. Santhanam Balaraman, Senior DGM, L & T Chennai, Sri.Sheshadri Venkatadri, Senior Principal Engineer, Collin Aerospace, Dr. Ashish Johri, Principal Consultant, Synergie H R, Jaipur, Sri. P V Rao, Associate Director, KPMG, Vijayawada, Sri. Swamy Vishwanathan, Senior Director, Sutherland Global Services, Chennai.



Dr. Raghu Yogaraju, Assistant Professor in the department of Mechanical Engineering in association with faculty members from other institutions, Sri.Pradeep Kumar G. S. (CHRIST University (Deemed), India), Sri.Sachit T. S. (Symbiosis Institute of Technology, Symbiosis International University (Deemed), India), Sri.Mruthunjaya M. (JSS Academy of Technical Education, India), Sri.Harish Kumar M. (CHRIST University (Deemed), India) and Sri.Sasidhar Jangam (CHRIST University (Deemed), India) published a book chapter titled, 'Mechanical and Tribological Properties of Polymer Composites Developed by FDM'. Source Title: Development, Properties, and Industrial Applications of 3D Printed Polymer Composites.

February 21st, 2023

Mr.Sanyam Mishra of 7th Semester BE (ECE) represented VTU Power Lifting Men team in All India Inter University Championship 2022-23, held at Guru Kashi University, Bathinda, Punjab during Feb. 21st-24th, 2023.



February 22nd, 2023

Dr. Rajeshwari Hegde, Professor in the Department of Electronics and Telecommunication Engineering was invited to handle an online session in the FDP on "Integrated Well-being and Mental



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Health", organized by KLS Gogte Institute of Technology, Belagavi.

Dr. Umesha V., Assistant Professor in the Dept. of Mathematics published a paper titled, "Chebyshev and Block Pulse Wavelet Approach for the Non-Linear Quasi-Singular Integral Equation" Vol.13 / Issue 76 / February / 2023, pp: 52994-5300, in Indian Journal of Natural Sciences, ISSN: 0976 - 0997, February -2023 (Web of science).

February 23rd, 2023

Dr.Kalyan Raj, Professor in the department of Chemistry delivered a talk on 'Avenues in Materials Research for Engineering Applications' at KSIT Bengaluru.



Mr. N.Naveen Kumar and Mr. Sandesh Y M, PG students in the Department of Electronics and Communication Engineering under the guidance of Dr.Vasundhara Patel K S, Professor, Dept., of ECE presented their research paper titled, 'Implementation of the AES Algorithm on FPGA' at 8th international Conference on Emerging Research in Computing, Information, Communication and Applications organised at Nitte Meenakshi Institute of Technology (NMIT), Bengaluru during Feb. 23rd-25th, 2023.

Sri.Rajeev Chandrasekhar, Hon'ble Union minister of state for Electronics & Information Technology and Union Minister of state for skill development & Entrepreneurship visited the college and interacted with the students.







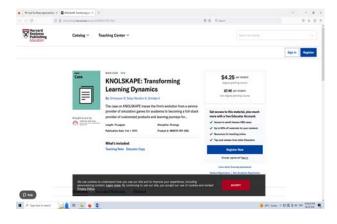
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Dr. Anil Chandra A.R., Assistant Professor in the department of Mechanical Engineering was invited as a resource person to conduct a workshop on "Fatigue Testing" at HKBK College of Engineering.

February 24th, 2023

Case study document on "KNOLSKAPE" authored by Dr.Sathyanandini, Professor in the department MBA & co-authored by Prof. Srinivasan from IIMB has been directly listed live on Harvard Business School Publishing website.



33 research scholars registered at the research centres of the college were awarded Doctor of Philosophy in the Annual Convocation held at Visvesvaraya Technological University, Belagavi and among them, 14 are faculty members in the college.





Ph.D. Degree Awarding Ceremony

Dr. Karthik Kumara, Assistant Professor in the Department of Physics published a research article titled, "Sulfur Nanoparticle as an Effective HEK-293 Anticancer Agent" in Moroccan Journal of Chemistry, 11(2), 434-443, 2023. (Impact factor 1.03, Q3 Journal).

https://doi.org/10.48317/IMIST.PRSM/m orjchem-v11i2.37722

February 25th, 2023

Sri.Shantaram, Associate Professor and Sri.Narayana, Senior Driver in the department of EEE who retired on 28th Feb. 2023 on attaining the age of superannuation were felicitated by the



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Department of Electrical and Electronics Engineering and EEE Association.



Dr. D N Sujatha, Professor, Department of Computer Applications delivered a technical talk at Vemana Institute of Technology.



Smt.T.Anushalalitha, Assistant Professor in the department of Electronics and Telecommunication Engineering handled a session in the FDP on "EMI Shielding Concepts and Electro-static Devices (ESD)" organized by CCAR, Bengaluru. Dr. Minu Zachariah, Associate Professor in the department of MBA was the session chair for HR Track in the 11th International Conference on 'Contemporary Issues in Management' conducted by International School of Management Excellence, Bengaluru.



Essay writing and Poster making competitions were organized for the students on the theme, "Global Science for Global Wellbeing" on the occasion of National Science Day being celebrated on 28th Feb. 2023.

February 26th, 2023

Dr. G. Giridhara, Prof. & Head, Mechanical Engineering is appointed as a Technical Advisor to National Design and Research Forum (NDRF) for the expertise in the multidisciplinary area of Structural Dynamics, Structural Health monitoring



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and Rotor Dynamics as applied to aerospace, automotive, power, renewables, oil & gas and other programs of NDRF.

Dr. Manjunatha S.O, Assistant Professor in the Dept. of Physics along with faculty members from other institutions published a research paper titled, "Graphene-Cobalt chromate ceramics composite for humidity sensor Applications" in the Journal of Alloys and Compounds (2023) (In Press) with impact factor 6.37 ISSN 0925-8388 (print) 1873-4669 (Electronic)

DOI: https://doi.org/10.1016/j.jallcom.20 23.169438

February 27th, 2023

- An Induction Program was organized for Lateral Entry students of III Semester BE admitted during the academic year 2022-23. The students were briefed about the Structure of curriculum, Course registration, Examination System, Examination Rules and Placement & Internship.
- One week Training Program for nonteaching staff on Computer Proficiency and Skill Development was organised by the Departments of EEE and EIE in collaboration with EEE Association, ISA BMSCE Student Section from 27th Feb. to 3rd March 2023. Sri.Syed Akram, Dr.Manjunath D R and

Dr.Selva kumar S, Assistant Professors in the department of CSE & Dr.Umavathi, Assistant Professor in the department of EEE were the resource persons for the program.









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❖ PENTAGRAM, the Mathematical Society of the college conducted its first event of the year, 'Lega-Lies', solving fun mathematical puzzles and games. 21 student teams (team of 2) participated in the event. The event saw great enthusiasm among the participants.





Dr.H.N. Suma, Dean (Innovation) and Dr.S.B.Bhanu Prashanth, Professor in the department of Medical Electronics were invited as external IIC expert members for the Quarterly meeting of the Institution Innovation Council (ICC) at HKBK College of Engineering.



Dr. Kaliprasad C.S, Assistant Professor in the department of Physics published a research paper titled, "Evaluation of radiological hazards and trace element contamination around thermal power plant at Udupi on the Southwest coast of India" Acta Geophysica (2023) with impact factor 2.336 (Web of science Q1) Electronic ISSN 1895-7455

DOI: https://doi.org/10.1007/s11600-023-01048-x

February 28th, 2023

The National Science Day was celebrated in the college. On this occasion, a talk by Dr.Deshpande V Rajakumar, Director Neurosurgery, Fortis Hospital on the topic, "Decoding Brain Surgery for Engineers" was organised. The departments of Chemistry, Physics and Mathematics coordinated the event.







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Dr.Kalyan Raj, Professor in the department of Chemistry delivered a lecture on the topic, "Glimpses of the Journey of Science" on the occasion of National Science Day celebration at Vemana Institute of technology, Koramangala, Bengaluru.



Dr. Surendra H H, Dr. Archana H R, Assistant Professors and Dr. Siddappaji, HOD,ECE have been sanctioned research grant of Rs.10,50,000/-, for the project proposal titled, 'RF OQC (Out Going Quality Control), RF Talent and System Integrations' for research funded project under 'Antenna Design and Development Programme' from Liveon Technolabs Pvt. Ltd., Bengaluru.



- A felicitation function was organised by the college for the following employees of the college who retired from service at the college on attaining the age of superannuation.
 - 1) Sri.Shantaram, Associate Professor, Dept. of EEE
 - 2) Sri.Narayana, Senior Driver, Dept. of EEE
- Dr. Karthik Kumara, Assistant Professor in the Department of Physics was invited as the chief guest for National Science Day celebration at Government First Grade college, Chintamani and he delivered talk on the topics, "Opportunities in Basic Sciences" and "Structural Diversity in Materials".

