

VOLUME 10
JULY 2023

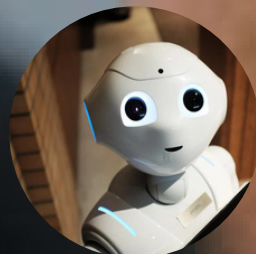


BMS INSTITUTE OF TECHNOLOGY & MANAGEMENT
AUTONOMOUS UNDER VTU | Avalahalli, Yelahanka, Bengaluru

TECHSANCHALANA

Tech cover
2023

"An engineer is the
closest thing to a
magician that you'll
ever find."
- Randy Pausch





LATE SRI B. M. SRINIVASAIAH

Founder, BMSET



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FOUNDER'S VISION

Promoting prosperity of mankind by augmenting human resource capital through quality education and training

VISION

To emerge as one of the finest technical institutions of higher learning to develop engineering professionals who are technically competent, ethical and environment friendly for betterment of society

MISSION

Accomplish stimulating learning environment through high quality academic instruction, innovation and industry-institute interface.

TECHSANCHALANA

VOLUME 10

AUGUST 2022 -JULY 2023

FROM PRINCIPAL'S DESK



Dear Friends,

We are pleased to place in your hands, the latest edition of TechSanchalana.

I would like to applaud the remarkable dedication of our staff and students for their significant contributions in enriching our academic landscape through journal publications, conference presentations, and insightful book chapters. BICEP is a thriving hub empowering students and faculty to pioneer innovation-driven enterprises with state-of-the-art facilities and a robust support network of experts.

BMSIT&M has completed 12 funded projects (Rs. 114.61 Lakhs), 10 ongoing projects (Rs.189.708 lakhs) and 3 new approved research projects amounting to Rs. 94.04 Lakhs. We have published 209 papers in SCIE, Scopus indexed and WoS journals and IP Cell has filed 49 patent applications since 2017 and 06 have been granted. The institution has also completed consultancy assignments worth more than Rs. 20 Lakhs. Thus, education at BMSIT&M is well aligned with the national goal of sustainable, equitable and inclusive economic development.

Delighted to share that our faculty offered more than 25 open courses benefitting 1736 participants, complementing the curriculum to enhance graduate attributes. Expert-led sessions featured cutting-edge topics, ensuring students gain skills for success in emerging technologies. BMSIT&M fosters a "Do it Yourself" ethos with Project Based Learning, promoting experiential learning. Shortlisted projects are showcased on OPEN DAY, evaluated by industry leaders and the best one are awarded with cash prizes inspiring continuous innovation. The two-day Tech festival Tech-Transform-2023 provided a dynamic platform for students to showcase innovation, engage in competitions, and foster technological advancements.

We are very happy to share that AICTE approved our proposal to start a new 4-year B.E program in Computer Science and Business Systems with an intake of 60 from 2023-24. Thanks to the management which posed a strong faith and confidence in us. Further AICTE has also approved an enhancement of intake in ISE from 180 to 240, CSE from 180 to 240, AIML from 120 to 180 enhancing the opportunities for aspirants who want to study at BMSIT&M. Embarking on a visionary journey, we have also introduced MBA program, bridge technology and business for holistic professional growth.

Warm Regards,

Dr. Mohan Babu G. N.

Principal

BMS Institute of Technology and Management

MESSAGE FROM THE DEAN STUDENTS' WELFARE

Dear students and staff,

It is with great pleasure that I welcome you to the 10th volume of our esteemed tech magazine, "Techsanchalana." This milestone is a testament to the ingenuity and dedication of our students and faculty, who continue to push the boundaries of innovation and technology.

This issue also highlights the endeavours of both the staff and students in improving the quality of education imparted to them through technical talks, Techtransform, Project based learning and open courses during this period. I congratulate the editorial team headed by Dr. Sunanda Dixit of CSE, Mr. Vikram Chekuri of EEE and their dedicated team.



Dr. Ambika R
Dean Students' Welfare

Warm regards,

EDITORIAL BOARD



Dr. Sunanda Dixit
Associate Professor
CSE Dept.



Mr. Vikram Chekuri
Assistant Professor
EEE Dept.

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DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

FACULTY ACHIEVEMENTS:

- Dr. Rajesh I S, Assistant Professor, Department of AI & ML, has recognised as a research supervisor by VTU in the month of May 2023.
- Dr. Archana Bhat, Assistant Professor, Department of AI & ML, has completed her final Viva voce on title "A Framework for IPV6 based energy efficient Routing in IoT in low power Lossy Networks and Multimodal sensors" on 17.5.2023 in NIT Suratkal.

INTERNATIONAL CONFERENCE:

- Dr Anupama H S and Dr Pradeep K R, Department of AI & ML, have presented a paper on "Detection of chronic lung disorder using deep learning" in the 4th IEEE International Conference held on 23rd and 24th Dec 2022.
- Dr Bharathi Malakreddy A, Professor and Head, presented and published a paper on, " A Comparative Study for Early Diagnosis of Alzheimer's Disease using Machine Learning Techniques "In 6th International Conference On Innovative Computing & Communication (ICICI-2023), from 17.2.2023 to 19.2.2023 in New Delhi.
- Dr Bharathi Malakreddy A, Professor and HOD, Department of AI & ML, Published a Paper on "Blockchain-based Access Control Model with Privacy Preservation in a Fog Computing Environment": 2022 IEEE International Conference on EElectronics , Computing and Communications Technologies on 30.8.2022.

- Dr. Mudligiriappa Niranjanamurthy, Assistant Professor, Department of AIML, presented a paper on the topic "Multi-Objective Fault-Coverage Based Regression Test Selection and Prioritization Using Enhanced ACO_TCSP" on July 2023.
- Dr. Niranjanamurthy M., Assistant Professor, Department of AIML, presented a paper for 4th International Conference on Intelligent Engineering and Management (ICIEM), London, United Kingdom, on the topic "Transactional and Sequential model for pre-processing the textual data" on July 2023.
- Dr. M. Niranjanamurthy, Assistant Professor, Department of AIML presented a paper for International Conference on Artificial Intelligence and Applications (ICAIA) Alliance Technology Conference (ATCON-1), Bangalore, India, on the topic "Text Analysis Tool" on July 2023.
- Dr. Niranjanamurthy M., and Dr Pradeep K. R., Assistant Professors, Department of AIML presented a paper for the 4th International Conference on Intelligent Engineering and Management (ICIEM), London, United Kingdom, on the topic "Global Positioning System Based Wildlife Animal Tracking System" on 2023.

"Perfection is achieved, not when there is nothing more to add, but when there is nothing left to take away."

- Antoine de Saint-Exupery

TECHNICAL TALKS

- Dr. Anupama H. S., Associate Professor and HoD, Department of AIML was a resource person for Malnad College of Engineering (MCE), Hassan, on the topic “Artificial Intelligence and Machine Learning-An Overview” on 15.7.2023.
- Dr. Vishwa Kiran S., Associate Professor, Department of AIML was a resource person for Nagarjuna College of Engineering and Technology, Bangalore, on the topic “Data Science-An Overview” on 5.7.2023 and 6.7.2023.
- Dr. Pradeep K. R., Assistant Professor, Department of AIML was a resource person for Nagarjuna College of Engineering and Technology, Bangalore, on the topic “Machine Learning Perspectives” in virtual mode.

SESSION CHAIR:

- Dr. Bharathi Malakreddy A, Professor and HoD, Department of AI & ML, has chaired the session for the conference in Oct 2022.
- Dr. Bharathi Malakreddy A, Professor and Head, Department of AI & ML, sessioned the Chair at the International Conference on Multidisciplinary Research for the track on AI & ML, SBR University, Gulbarga on 23.11.2022.
- Dr. Bharathi Malakreddy A, Professor and HoD, Department of AI & ML, session the Chair to the "International Conference on Circuits, Control, Communication and Computing (I4C-2022)" which has been scheduled on 22.12.2022 and 23.12.2022 at MSRIT, Bengaluru.

EXECUTIVE DEVELOPMENT PROGRAMME:

- Dr. Vishwa Kiran S, Associate Professor, Department of AI & ML, has delivered

an EDP for Volvo Group India Pvt Ltd, on Traditional C ++ with STL” from 18.7.2022 to 22.7.2022.

- Dr. Anupama H S, Associate Professor, Department of AIML has delivered an EDP for Mindtree Pvt Ltd, on Embedded Systems from 12.9.2022 to 16.9.2022
- Dr. Vishwa Kiran S, Associate Professor, Department of AI & ML, has delivered an EDP for Mindtree Pvt Ltd, on C and Embedded Linux during the Month of September.

RESOURCE PERSON:

- Dr. Bharathi Malakreddy A, Professor and HoD, Department of AI & ML, has delivered a talk on Data Science and Demonstration of Mathematical Application Modelling, FDP on Mathematical Foundation in Data Science" on 18.10.2022, BMSIT&M.
- Dr. Vishwa Kiran S, Associate Professor, Department of AI & ML, was the resource person for Volvo India Pvt Ltd from 17.10.2022 to 21.10.2022 on Embedded C.
- Dr. Bharathi Malakreddy A, Professor and Head, Department of AI & ML, has delivered a talk on "Mathematical Modelling in Data Science " at the International Conference on Multidisciplinary Research, SBR University, Gulbarga on 22.11.2022
- Dr. Bharathi Malakreddy A, Professor and HoD, Department of AI & ML, invited as a Guest for Innovation Day by Nokia Solutions & Networks India Pvt. Ltd., Manyata Tech Park for the “5G Advanced and Beyond” on 1.12.2022.
- Dr. Rajesh I S, Assistant Professor, Department of AI & ML, five-day online National-Level Workshop on “Deep Learning and its Applications” from 6th to 10th March 2023 organized by the Department of

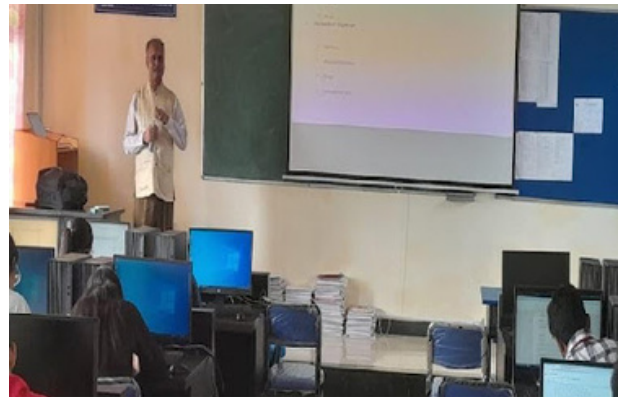
Computer Science & Engineering,
Kalpataru Institute of Technology,
Tiptur.

OPEN COURSE:

- Data Science continues to grow in popularity as a promising career path for this era. Data Science encompasses a wide range of scientific methods, procedures, techniques, and information retrieval systems to detect meaningful patterns in organized and unstructured data. Demand for Data Scientists is increasing in the market. According to recent reports, demand will skyrocket in the future years, increasing by many times. This Open Course provided data science project ideas for students new to Python or data science in general and all of the tools required succeeding as a data science developer.



- MLOps stands for Machine Learning Operations. MLOps is a core function of Machine Learning engineering, focused on streamlining the process of taking machine learning models to production and then maintaining and monitoring them. MLOps is a collaborative function, often comprising data scientists, DevOps engineers, and IT.



" A great bridge is a great monument which should serve to make known the splendour and genius of a nation; one should not occupy oneself with efforts to perfect it architecturally, for taste is always susceptible to change, but to conserve always in its form and decoration the character of solidity which is proper."
- **Jean Peronnet**

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

FACULTY AWARDS:

- Dr. Arunkumar B R has been awarded as “Best Researcher” based on the publications achievements by VD Good Professional Association on 8.7.2022.
- Dr. Anjan Krishnamurthy was awarded the “Research Excellence Award” by InSc on 7.11.2022.
- Dr. Bhuvaneshwari C M, Professor, Dept. of CSE honoured by Goa Chief Minister Shri Pramod Sawanth On Sunday 13.11.2022.

18.4.2023 (Tuesday) in Hotel Le Meridien, New Delhi.

- Dr. HemaMalini B H, Associate Professor, Dept of CSE received Global Women Inspiration Awards. Awarded to 100 Top inspirational women for facing real-life struggles and coming up in life and being a role model to the society at DoubleTree by Hilton at Armora, Baga, Goa on 26.6.2023.

Dr. Bhuvaneshwari gets award in Goa by Kannada Association

BJapur Mirror: BIJAPUR: 16 Nov: The Goa Association of Kannadigas held a programme to honor various people who have given tremendous contribution for the development of Kannada. As part of which, Dr. Bhuvaneshwari Melinamath, the lecturer in computer science who has innovated Kannada script in computer science, was awarded by the association.



She was given Rs. 1 lakh cash prize and a citation for her achievement. Goa Chief Minister, Pramod Savant was present on the occasion.

Other dignitaries such as Minister Neelkant Halankar, Satishkumar Hosmani, Chandrakant Sheti, Naresh Savai, Rajesh Patnekar, Michel

Lobo and others were present. The association has congratulated Melinamath for the award, the release said.



- Dr. Arunkumar B R, Professor, CSE has received the National Award of Excellence - 2023 from Global Management Council, Ahmedabad in appreciation and recognition of “Outstanding performance in Research and Publication” on 26.01.2023
- Dr. Arunkumar B R, Professor, CSE has been recognised as the “**Best Academician of the Year 2023**”, by the Centre for Education Growth and Research (CEGR), India Jury committee and award was presented during the Second Summit on Vision 2047 in Education cum 20th Rashtriya Shiksha Gaurav Puraskar Ceremony held on

KSCST FUNDED PROJECTS:

- The Project “S.R.A.M (Smart Robotic Arm Manipulator)” carried out by Mr. S N Shashank, Mr. Saksham Bejwani AND Mr. Naitik Goyal of CSE department students under the guidance of Prof. AMBIKA G N Asst. Prof. Dept. of CSE was approved by KSCST for a sponsorship amount of Rs 4000/- in April 2023.

“The most important thing is to keep the most important thing the most important thing.”
- Donald P. Coduto

PUBLICATION OF RESEARCH PAPERS :

- Prof. Muneshwara M S, Prof. Anand R, Dr. Anil G N “Reduce The Privacy & Security Concerns of Current Social Media Platforms Using Block-Chain Technology” Published in 1st Edition Research Advances in Network Technologies Copyright Year 2023, ISBN 9781032340487, Pages: 320, Publisher Routledge Taylor & Francis Group CRC Press Website, 15.9.2022.
- Prof. Anand R, Dr. Anil G N, “Machine Learning Approach to Detect Drowsiness on Behavioral Parameters”, Ymer, 2022, 21(1),0044-0477, pp. 1-15. October 2022, The journal is indexed in Scopus as Article - Open access.
- Prof. Anand R, Prof. Muneshwara M S, “Twitter Data Collection Using Tools for Classification of fake Data: A Survey”, Ymer, 2022, 21(1),0044-0477, pp. 63-76. October 2022, The journal is indexed in Scopus as Article - Open access.
- Dr. Arunkumar B.R has published a paper titled “Study on the Correlation between the Discrimination Index, Facilitation Value and Distractor Efficiency of a Formative Assessment Useful Tools for OBE Practices” in Journal of Engineering Education Transformations, a Scopus indexed, Q3 Journal, ,Year: 2022, Volume: 36, Issue: 2, Pages: 46-54, Q3 journal.

INTERNATIONAL CONFERENCE:

- Dr. Arunkumar B R, Professor, CSE, presented a paper titled “The NFT Wave And Better Use Cases- Using NFTs For Documents, Identification And College Degrees” 7th International Conference.

on Data Management, Analytics & Innovation, ICDMAI 2023 , Date: 20 - 22 January 2023 | www.icdmai.org, Defence Institute of Advanced Technology, (Deemed to be University), Girinagar, Next to Khadakwasla Dam, Pune, Maharashtra 411025, on 20.1.2023, online.

- Dr. Arunkumar B R, Professor, CSE has presented a paper entitled “Blockchain Based Spectrum Mapping and Access to Secondary Users for Enhanced Channel Security Efficiency in CRN”, 6th IEEE International Conference on Inventive Communication Technologies (ICICT 2023)(Scopus index) organized by Tribhuvan University, Lalitpur, Nepal held from 26.4.2-2023 to 28.4.2023.
- P Sudarsanam, Anand R, Manoj Challa presented a paper “Enhancing Road Safety: A System for Detecting Driver Activity using Raspberry Pi and computer vision techniques with Alcohol and noise sensors”, at the fourth international conference Data Intelligent and Cognitive Informatics (ICDICI 2023), organized by SCAD College of Engineering and Technology Tirunelveli, TN on 27-28th June 2003 in association with Springer.

BOOK CHAPTER:

- Prof. Muneshwara M S, “6G Wireless Communication Systems and Its Applications” under the Springer Book Titled Machine Learning and Mechanics Based Soft Computing Applications, Part of the Studies in Computational Intelligence book series (SCI, volume 1068), pp 271-288, 28.2.2023.

- Prof. Muneshwara M S, “Enhancing ATM Security in the Forensic Domain Using Artificial Intelligence” under the Springer Book Titled Artificial Intelligence and Blockchain in Digital Forensics eBook ISBN 9781003374671, Pages 17, 6.2.2023.
- Dr. Arunkumar B R has authored a Chapter titled “Designing a Typical Course-File for the Attainment of Course Outcomes and Program Outcomes: A Case Study of Computer Networks and Security” DOI: 10.9734/bpi/rpst/v9/5407E, Chapter 6, Print ISBN: 978-81-19217-17-5, eBook ISBN: 978-81-19217-23-6, Page no. 74-96 in the Book titled: “Recent Progress in Science and Technology” by Book Publishing International, UK/ India in April 2023.
- Dr. Arunkumar B R, Professor, CSE and Siddharth Vaddem, Scholar, 8th Sem CSE, authored a chapter titled “The NFT Wave and Better Use Cases—Using NFTs for Documents, Identification, and College Degrees” in the book: Data Management, Analytics and Innovation, published by Springer, May 2023.
- Dr. Ashwini N, Assistant Professor, CSE authored a book titled “AUTOMATED FORECASTING OF TIME SERIES USING COMPUTATIONAL INTELLIGENT APPROACH” published by Iterative International Publishers with ISBN:9789357470735, May 2023.
- Dr. Usha B A, Associate Professor, Dept of CSE has delivered the Talk on “IoT Security: Trends, Problems and Challenges” for the students of St. Joseph’s Institute of Technology, OMR Chennai on 14.10.2022.
- Dr. Dhanalakshmi B K, Assistant Professor, CSE has extended their support as a Resource person for Cambridge College of Engineering on “AWS Cloud” from 16.11.2022 to 17.11.2022 at Bangalore.
- Dr. Usha B A, Professor has extended support as a Resource Person for delivering the “Talk on AI in Cyber Security” at Sharanbasva University on 24.11.2022
- Dr. Arunkumar B R, Professor, CSE has extended his support as a resource person for one-day workshop titled “OBE and NBA” on 20.12.2022 at Dept. of MCA, NMIT, Bengaluru.
- Dr. Arunkumar B R, Professor, CSE has extended his support as a resource person for 5 day National workshop titled “Practical Cybersecurity, Forensics and Blockchain Technology” from 6.12.2022 to 10.12.2022 in association with NCSS, IEEE, ISTE and CSI for the students of undergraduate and Ph.D Research Scholars. He delivered the session titled “Blockchain Technology and its Significant Use Cases” from 9.30 AM to 3.00 PM (3 sessions) on 9.12.2022.
- Dr. Arunkumar B.R, Professor, CSE has extended support as a Resource person for the 5 days FDP on “Introduction to cybersecurity” held from 22.5.2023 to 26.5.2023 on the topic “Major Cyber security attacks and innovative research opportunities” on 23.5.2023 organized by VTU, Muddenahalli.

TECHNICAL TALKS:

- Dr. Mahesh G, Associate Professor, Dept. of CSE has trained Mind Tree Employees on “Data Structures using C”, for 4 days from 18.8.2022 to 23.8.2022. as a part of Executive Development Program (EDP).

SESSION CHAIRS:

- Dr. Usha B A, Professor was Session Chair for the International Conference on Multidisciplinary Research (ICMR 2022) organized by Sharanbasva University, Kalaburgi on 24.11.2022.
- Dr. HemaMalini B H, Associate Professor, Dept. of CSE was a session chair at “Third International Conference on Smart Technologies in Computing, Electrical and Electronics (ICSTCEE-2022)” organized by R&D Cell in association with School of Computing and Information Technology, REVA University, during 17.12.2022 during 11.30 AM to 1.00 PM.
- Dr. Arunkumar B R, Professor, CSE was session Chair on 25-2-2023 during ERICA 2023, held during 23.2.2023 to 25.2.2023, Springer International Conference at NMIT, Bangalore.
- Dr. Sunanda Dixit, Associate Professor, CSE was session Chair on 24.2-.023 during ERICA 2023, held during 23.2.2023 to 25.2.2023 , Springer International Conference at NMIT, Bangalore.
- Dr. Dhanalakshmi B K, Assistant Professor, CSE was invited as a session chair for Annual International conference on data science, machine learning & Blockchain Technology(AICDMB-2023) at VVCE, Mysore on 17.03.2023
- Dr. Lakshmi B K, Assistant Professor, CSE was invited as a session chair for the Annual International Conference on Data Science, Machine Learning & and Blockchain Technology at VVCE, Mysore on 17.03.2023.

CONFERENCE PRESENTATION @ IITD

The students of Second Year CSE under the guidance of Dr. Arunakumari, Assistant Professor, Department of CSE, have presented SIX Research Papers (Theme : Discrete Mathematics and its applications to society) at The 14th IEEE international conference on computing, communication and networking technologies (ICCCNT), held at IIT - Delhi, during July 6th - 8th, 2023. At this conference, papers were delivered by a total of 16 students from our department, divided into 6 groups. Details of the paper are as follows

PAPER TITLES:

1. Use of Propositional Logic in Building AI Logic and Game Development
2. An Efficient Management of Delivery and Logistics Using Euler Graph
3. An Efficient Approach to Solve Complex Rook Polynomials in Strategic Games
4. Simplifying Structure and Pattern in Complex Social Networks Using Graph Isomorphism
5. An Ameliorated Methodology for Water Supply and Management Using Binary Trees
6. Enhancing the Quality and Efficiency of Mental Health Care using Decision Trees



OPEN COURSE:

The Courses mentioned in the table were offered by the CSE department.

Sl. No	Open Course Title	No. of Participants
1	Cognitive Security and Blockchain Technology	60
2	Python for Machine Learning	35
3	Java for Placements	61
4	Mobile Application Development	49
5	Cloud Computing	45
6	Full Stack Web Development	85
7	Internet of Things	50
8	Web Technology	15



DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

FACULTY AWARDS:

- Dr. Shoba M, Associate Professor One of the authors for the book titled “Big Data Analytics Using Python” published with ISBN from Govt. of India and also available on the Flipkart & publisher International Publishing House, Registered under the Ministry of SME, Govt. of India.<https://www.flipkart.com/big-data-analytics-using-python/p/itmff9979e568f11?pid=9789356251953>
- Dr. Swetha M S, Assistant professor Completed Doctor of Philosophy on 20th September 2022.
- Dr. Anjan Krishnamurthy, Professor, received “Research Excellence Award” from InSc professional body.
- Dr. Shoba M, Associate Professor, Editor for a book titled “Futuristic Trends in Computing Technologies and Data Sciences” in IIP Proceedings Volume 2 Book 18 Part 7 ISBN: 978-81-95936-3-5.

KSCST FUNDED PROJECTS:

- The Project “Soil Analysis And Agricultural Aid Using IoT And ML” carried out by Tharang S S, Kaushik of ISE department students under the guidance of Dr. Shanthi D L was approved by KSCST for sponsorship amount of Rs 4000/-.

PUBLICATION OF RESEARCH PAPERS :

INTERNATIONAL JOURNAL:

- Dr. Basavaraj G N has published a paper with the title “Reliability-driven time series data analysis in multiple-level

deep Learning methods utilizing soft computing methods” in Scopus

- Dr. KB Surekha, Dr. Geeta patil , Dr. Anil Kumar, Dr. Mohan B A has published a paper” Machine Learning based framework to predict the Network Usage in Smart Parking Applications “in IEEE with page no:432- 435
- Dr. Mohan B A, Dr. KB Surekha, Dr. Geeta Patil Dr. Anil Kumar has published a paper with the title “Arbitrage: Stock Market Comparative Analysis” in IEEE with page no:-486-490.

TECHNICAL TALKS:

- Dr. Swetha M S, Assistant professor FDP on “Mathematical Foundations for Data Science” organized from 18th October 2022 to 22nd October 2022 at BMSIT&M.
- Dr. Swetha M S, Assistant Professor, Department of ISE, delivered a talk on “Cyber Security Innovation and Disruption” on 14.6.2023, organized by Industry Connect cell, Dept of ISE, CMR Institute of Technology and Management, Bengaluru
- Dr. Swetha M S, Assistant Professor, Department of ISE delivered a talk on “Cryptography and Soft Computing Techniques for Blockchain Applications” on 21.6.2023, organized by Industry connect cell, Dept. of CSE, Sir. MVIT, Bengaluru.
- Dr. N Rakesh, Associate Professor, Department of ISE, delivered a session on “Introduction to Machine Learning” as part of an open course programme held at BMSIT&M, Bengaluru from 12th June to 16th June 2023.

- Dr. N Rakesh, Associate Professor, Department of ISE, delivered a session on “JavaScript programming” as part open course programme held at BMSIT&M, Bengaluru from 12th June to 16th June 2023.
- Dr. Swetha M S, Assistant Professor, Department of ISE has delivered a talk on “Computer forensics and need for computer forensics” in as part of an open course - “Hands-on approach on cyber forensics and crime investigation” programme held at BMSIT&M, Bengaluru from 12.6.2023 to 16.6. 2023.
- Dr. Swetha M S, Assistant Professor, Department of ISE has delivered a talk on “Cloud Services” in as part of an open course - “AWS Cloud Services and Tools on Cloud Computing” programme held at BMSIT&M, Bengaluru from 12.6.2023 to 16.6. 2023.

OPEN COURSE :

Open course has been organized by Dept. of Information science on the topic

1. Problem solving using Java Program
2. Data Analytics Boot camp using Python
3. Complete Python Booting
4. Internet of Things
5. Deep-Learning-Building Conversational AI Applications
6. Full Stack Web Application Development Using PHP
7. Programming for IT career
8. Hands on approach to Cyber security and Cyber Forensics.

“Engineering is the art of modelling materials we do not wholly understand, into shapes we cannot precisely analyse so as to withstand forces we cannot properly assess, in such a way that the public has no reason to suspect the extent of our ignorance.”

- Dr. AR Dykes

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

RESEARCH PROPOSALS:

- **Proposal-title:** An automated support system for diagnosis of cervical cancer using deep learning based artificial intelligence for mass screening".

Funding: VTU - RGS (Research grant scheme)

Funding amount : Rs 11 Lakhs

Investigators Dr Seema Singh(PI)
Prof Chandrababha(Co-PI)

- **Project-title:** Fabrication of low-cost $\text{Cu}_3\text{BiS}_3/\text{ZnS}$ based thin film solar cell using ultrasonic spray pyrolysis

Funding Agency :DST-SERB

Amount: 18.3 lakh

Duration: 3 years (13/10/2022)

Investigator : Dr. Sabina Rahaman

RESEARCH CONSULTANCY AND EDP AND GRANTS:

Consultancy – Industry Supported Laboratory

Faculty Name: Dr. Saneesh Cleatus T

Company Name: PathPartner Technologies Pvt. Ltd. (Member of KPIT Group)

Amount Received: Rs.3,40,000/-

KSCST FUNDED PROJECTS :

1. Title: An Adaptive Motor Imagery-Based Brain Computer Interface.

Amount Sanctioned: Rs.5,000/-
(46S_BE_2748)

Name of the Guide: Dr.Saneesh Cleatus T

Student Members:

- 1BY19EC065 Mr. Jason Vincent
- 1BY19EC069 Mr. Juel Mathais George
- 1BY19EC134 Miss. Ryhan Banu R
- 1BY19EC173 Mr. Varun Sarathchandran

2. Title: UAVNET: NETWORK PERFORMANCE ENHANCEMENT IN UAV NETWORKS

Amount Sanctioned: Rs.5,000/-
(46S_BE_2859)

Name of the Guide: Dr. Ambika R

Student Members

- 1BY19EC008 Mr. Adityan A
- 1BY19EC001 Ms. Aaushi Singh
- 1BY19EC010 Mr. Akin Anto
- 1BY19EC022 Mr. Arcot Someshwaran Tushar

PUBLICATION OF RESEARCH PAPERS:

INTERNATIONAL JOURNAL:

- Anna Merine George, Sankalp Prakash, Sai ganesh T, Abhishek T Suneeth Kumar, Skanda Kumar K,” Brain tumour classification”, Gradiva Review Journal, pp.305-310, DOI:10.37897.GRJ.2022.V9I5.23.51172.
- Dr. Surekha R Gondkar, Mr. Manohar Nayak K, Mr. N S K K K Naga Jayanth, Ms. S Niruppama Shree, Mr. Sonu Kumar,” Smart Genie Cyborg”, Ymer, Volume 22, Issue 05 (May) – 2023, pp 1342-1351, ISSN : 0044-0477.
- Jayadeva G S, Nikhil Murali, Meghana S, Raksha K Kumar, Nithin Anil Nair “Design and Implementation of a High-Speed D Flip Flop using CMOS Inverter Logic” wseas transactions on electronics, Volume 13, 2022, PP. 125-129. DOI: 10.37394/232017.2022.13.16
- G S Jayadeva, B T Abhilash, Amaresh Angadi, N Bhuvaneshwari, C Manoj “ Mithra-Dhwani- conversion of Sign to Speech”, International Journal of Recent

Advances in Multidisciplinary Topics, Vol. 4, Issue 5, May 2023. <https://www.ijramt.com>, ISSN(Online):2582-7839

INTERNATIONAL CONFERENCE:

- Dr. Anitha V R “Performance Analysis of 6x6 CNT Field Effect Transistor Array Model for Biomedical Applications”. International Conference on Composite Science and Technology (COMSAT 2022), Johor, Malaysia, August 22 & 23, 2022.
- Dr. Anitha V R “Design and Development of Light Weight Fractal Tree Antenna Structure”. International Conference on Composite Science and Technology (COMSAT 2022), Johor, Malaysia, August 22 & 23, 2022.
- Mr. Jyothi prakash, Dr. G S Jayadeva "Gate C-V characteristics of n-channel MOSFET considering Quantum Mechanical effects" IEEE international conference on Smart Systems for applications in electrical sciences at SIT - Tumkur July 7-8, 2023.

BOOK CHAPTER:

- Mamatha K R “Doppler Radar Technique for Geriatric Fall Detection”, Algorithms for Intelligent Systems book series(AIS), Springer Nature , 18th August 2022.

TECHNICAL TALKS:

- Dr. Saneesh C T gave talk on "Vector Spaces and Dimensions of four subspaces" on 18.10.22 as a resource person for the FDP on "Fundamentals and Applications of Basic Signal Processing" conducted by department of ECE, SJCIT, Chikkaballapur.
- Dr. Anil kumar D and Prof. Thyagraj T were invited as the resource persons for a 3 days workshop on “Advanced Embedded Systems” conducted online by the Jain University, Kanakapura

Campus, Bengaluru during 12.12.2022 to 14.12.2022

- Prof. Mamatha K R and Dr. Rashmi N were invited as the resource persons for a 3 days workshop on “SDP on Smart Technologies and Networking Applications in real-time” conducted online by IEEE Women in Engineering Affinity Group and Department of ECE, Atria Institute of Technology, Bengaluru during 22.02.2023 to 24.02.2023.

SESSION CHAIRS:

- Dr. Anitha V R, Advisory/Technical Program Committee member in Second International Conference on Augmented Intelligence and Sustainable Systems will be held in August 2023 at CARE COLLEGE OF ENGINEERING, Trichy, India.
- Dr. Anitha V R, Reviewer at the 1st IEEE International Conference on Microwaves, Antennas and Propagation Conference (MAPCON), organized by IEEE MTT/AP society, Bangalore JT Chapter during 12.12.2022 to 15.12.2022.
- Dr. Ambika R served as a reviewer for International Conference on Recent Trends in Electronics and Communication (ICRTEC 2023), hosted by Department of Electronics and Communication, National Institute of Engineering, Mysore in association with IEEE Bangalore section and Mysore subsection, held from 10.02.2023 to 11.02.2023.

OPEN COURSE :

TECHTRANSFORM:

ECE DEPARTMENT FEST ELECSIM

- Various events like LA'PLACED, TROUBLE SHOT, EQUIZIS were conducted by the department of ECE

as part of the department fest ELECSIM conducted during TECH TRANSFORM 2022 from 25.11.22 to 26.11.22.



"Engineering refers to the practice of organizing the design and construction [and, I would add operation] of any artifice which transforms the physical world around us to meet some recognized need."

- G.F.C. Rogers

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

FACULTY AWARDS:

- Dr. Madhu Palati, Assistant Professor, Department of Electrical and Electronics Engineering received the Certificate of Excellence for reviewing the paper in "Journal of Engineering Research and Reports".
- Dr. Madhu Palati, Assistant Professor, Department of Electrical and Electronics Engineering received a Certificate of Excellence for reviewing articles in "Physical Science International Journal", on 21.07.2023.

KSCST FUNDED PROJECTS :

- The Project “Design and fabrication of Micro Drone for surveillance of Hazardous remote environment” carried out by Karan Kishore, Vishakha Aithal, Gayatri Jaltare and Vertika Srivastava of Electrical and Electronics Engineering department, under the guidance of Prof. Babu Naik G was approved by KSCST for sponsorship amount of Rs.8000/-

PUBLICATION OF RESEARCH PAPERS :

INTERNATIONAL JOURNAL:

- Prof. Manjunatha Babu P “Reliability Enhancement Using Static Variable Compensator (SVC) in Worst Case Scenario” Journal of East China University of Science and Technology, Vol.65, 1006-3080.

- Prof. H D Kattimani, Shreehari S Vasisht, Spoorthi D H, “Prototyping, Simulation and Implementation of Wireless Power Transmission for EV Charging”, International Journal of Latest Research in Engineering and Management (IJLREM), Volume 07, Issue 02, PP.09-12, ISSN: 2456-0766
- Prof. Manjunatha Babu P “Reliability Enhancement of radial distribution system by placing the reactive power compensators and distribution systems”, Bulletin of Electrical Engineering and Informatics Vol. 12, No. 3, June 2023, pp. 1302~1309, ISSN: 2302-9285, DOI: 10.11591/eei.v12i3.4515.
- Prof. Babu Naik Gugulothu, Prof. Sanjay Lakshminarayanan, Dr. Madhu Palati, Prof. Suresh Haleyr Lakshmegowda. (2023). “A Novel Method to Improve the Residual Life of Switchgear by Reducing the Impact Caused by Thermal and Mechanical Stresses Produced Due to SLG Cable Faults in Electrical Substations”, Journal of Advanced Research in Fluid Mechanics and Thermal Sciences, 106(2), 68–77. <https://doi.org/10.37934/arfmts.106.2.6877>

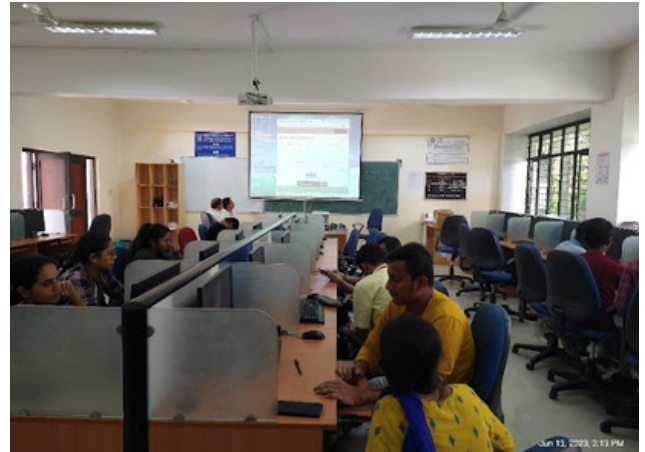
INTERNATIONAL CONFERENCE:

- Dr. Madhu Palati, " Real-Time Flora Species Identification using Unmanned Aerial Vehicle", in IEEE MysuruCon 2022, hosted by JSS Science and Technology University, Mysore during 16.10.2022 and 17.10.2022.

- Prof. Prashanth N A, Madhu Palati, "Design of integrated dual output converter for smps application in matlab/simulink", in IEEE MysuruCon 2022, hosted by JSS Science and Technology University, Mysore during 16.10.2022 and 17.10.2022.
 - Dr. M. Palati, P. V. K. Pranav, D. Reddy, V. Varshini and H Jagadish, "Real-Time Flora Species Identification Using Unmanned Aerial Vehicle," 2022 IEEE 2nd Mysore Sub Section International Conference (MysuruCon), 2022, pp. 1-6, doi:10.1109/MysuruCon55714.2022.9972570.
 - P.N.A, M Palati and P.V, "Design of Integrated Dual Output Converter For SMPS Application in Matlab/Simulink," 2022 IEEE 2nd Mysore Sub Section International Conference (MysuruCon), 2022, pp. 1-5, doi: 10.1109/MysuruCon55714.2022.9972368
 - Prof. P Manjunatha Babu, C H Hussaian Basha, "A Novel on Performance Analysis of Proton Exchange Membrane Fuel Cell System with Metaheuristic Optimization based MPPT Controller", International conference on Innovative research in science and technology on 23.05.2023.
 - Dr. Madhu Palati, Sameeksha, Pindi Hara Priya, Shylaja M, Sachin S Shekar B C, "Design of a smart braking system using Microcontroller for dual Scenarios", International Conference on Recent Advances in Fluid Mechanics and Nanoelectronics (ICRAFNM-2023), 12-14, July 2023, Manipal Institute of Technology, Bengaluru.
 - Dr. Madhu Palati, and Mahipal Bukya, "Design and analysis of peaking capacitor for generation of high voltage fast rise time pulses", International Conference on Recent Advances in Fluid Mechanics and Nanoelectronics (ICRAFNM-2023), 12-14, July 2023, Manipal Institute of Technology, Bengaluru.
 - Prof. Babu Naik Gugulothu, P Vishakha Aithal, Karan Kishore, Gayatri Jaltare, Vertika Srivastava, "Design and Fabrication of Micro Drone for Surveillance of Hazardous Remote Environment", International Conference on Recent Advances in Fluid Mechanics and Nanoelectronics (ICRAFNM-2023) from July 12-14, 2023.
 - Prof. Babu Naik Gugulothu, P Vishakha Aithal, Karan Kishore, Gayatri Jaltare, Vertika Srivastava, "A Simulation-Based Control System and Model-Based Parameter Analysis for an Economical Drone", International Conference on Recent Advances in Fluid Mechanics and Nanoelectronics (ICRAFNM-2023) from July 12-14, 2023.
 - Prof. Ozwin Dominic Dsouza, Anshul Mahesh, Kiran K V, Rohan J, Shashank Tandur, "Remote Load Switching Based on GSM", International conference on Recent Advances in Fluid Mechanics and Nanoelectronics (ICRAFNM-2023) from July 12-14, 2023.
 - Prof. Shilpa G, Vishnu Samudralal, Gaurav Kumar Rai, Eeshan Bhattacharya, "Universal DC Microgrid", International Conference on Recent Advances in Fluid Mechanics and Nanoelectronics (ICRAFNM-2023) from July 12-14, 2023.
- BOOK CHAPTER:**
- Dr. Madhu Palati, Sagar Singh Prathap, Nagesh Halasahalli Nagaraju, "Modeling and Analysis of Smart Power System," in Artificial Intelligence-based Smart Power Systems, IEEE, 2023, pp.15-36, doi: 10.1002/ 9781119893998.ch2.

SESSION CHAIRS:

- Dr. Madhu Palati, Assistant Professor, Department of Electrical and Electronics Engineering was session chair for “2nd International Conference on Research Trends in Engineering & Management (ICRTEM-2022)” organized by R R Institute of Technology, Bengaluru, India held on 25.08.2022 & 26.08.2022.
- Dr. Madhu Palati, Assistant Professor, Dept. of Electrical and Electronics Engineering was a session chair for ICGCP-2023 (International Conference on "Global Convergence in Technology, Entrepreneurship, Computing and Value Engineering: Principles and Practices"), held on 05.05.2023 at Sapthagiri College of Engineering, Bengaluru.



OPEN COURSE:

- The Open Course titled “Software Design for Embedded Controllers” has been organised by EEE Department, for the 4th and 6th Sem students from 12.06.2023 to 16.06.2023. This course is designed to provide students with a comprehensive understanding of the principles and techniques involved in the software design for controllers used for various industrial/commercial applications. Internal Resource Persons were Dr Narapareddy Ramarao and Prof. Kattimani H D.



“Experience serves not only to confirm theory, but differs from it without disturbing it, it leads to new truths which theory only has not been able to reach.”
- D'Alembert

DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION

FACULTY AWARDS:

- Prof. Sowmyashree M S defended her PhD work on title “ Design and development of Resource allocation and secured routing protocol for WSNs” on 28.9.2022 in the Department of Electronics and Telecommunication Engineering Research Center, BMSITM
- Prof. Saritha I G defended her PhD work on title “Development of Resource allocation and security algorithms for CPS ” on 26.5.2023 in the Department of Electronics and Telecommunication Engineering Research Center, BMSCE, Bengaluru.
- Mrs. Sangeetha defended her PhD work on title “Cognitive based data classification and Image steganographic Algorithm Selection using Artificial Intelligence Techniques” on 20.2.2023 in the Department of Electronics and Telecommunication Engineering Research Center, BMSITM.
- Dr. Banuprakash R, Assistant Professor, Department of ETE, received a Council under "Student Project Programme - 46th Series, for the project titled “Development of Compact Patch Antenna For MIMO Applications” to sanction an amount of Rs.5000/-, reference number-46S_BE_3304, the academic year 2022-23.
- Dr. Banuprakash R, Assistant Professor, Department of ETE, recognized as a Research Supervisor of VTU for the research scholar pursuing Ph.D./M.S. (Research)/ Integrated Ph.D. programmes as a Research Supervisor from 2023 onwards, with effect from 18.05.2023.

RESEARCH CONSULTANCY AND EDP AND GRANTS:

- Dr. Banuprakash R has conducted an EDP on “Networking through NS2” at Aditya College of Engineering, Madanapalle, A.P, from 10-11 February 2023.

KSCST FUNDED PROJECTS:

- Dr. Banuprakash R, Ashish K S, Mr. Alfreed Antony Thottan, Nikitha M R funded Rs.5000/- for the students' project titled “Development of compact patch antenna for MIMO applications.

PUBLICATION OF RESEARCH PAPERS:

INTERNATIONAL JOURNAL:

- Dr. Banuprakash R, P Ganesh, Subhash B K, published a paper with the title: “A compact frequency reconfigurable antenna for wireless applications using PIN diodes ”, in AIP Conference Proceedings 2461, 080001(2022), pp 080001(1-8), August 2022. <https://doi.org/10.1063/5.0092481>.
- Dr. Bhanuprakash R, Dwarakanath G V, Sudarsanam P, published a paper with title: “IoT based manhole cover management ”, in AIP Conference Proceedings 2461, 020006 (2022), pp 020006(1-11), August 2022. <https://doi.org/10.1063/5.0092401>

INTERNATIONAL CONFERENCE:

- Dr. C P Mallikarjuna Gowda, et.al., "Optimization in the Ad Hoc On-Demand Distance Vector Routing Protocol", Wireless Communications and Mobile Computing, vol. 2022, Article ID 7322291, 11 pages, 2022. <https://doi.org/10.1155/2022/7322291>.
- Prof Saritha I G "Secure Adaptive Cluster based Routing Using Multi Objective-Trust based Hybrid Optimization Algorithm for CPS", International Journal of Intelligent Engineering and systems, Vol.15, No.6, 2022 DOI: 10.22266/ijies2022.1231.54,pp609-617
- Dr. Banuprakash R, Prof. P Ganesh, Prof. Subhash B K, published a paper with the title "A compact frequency reconfigurable antenna for wireless applications using PIN diodes ", in AIP Conference Proceedings 2461, 080001(2022), pp 080001((1 - 8), August 2022. <https://doi.org/10.1063/5.0092481>
- Dr. Bhanuprakash R, Prof. Dwarakanath G V, Prof. Sudarsanam P published a paper with title "IoT based manhole cover management ", in AIP Conference Proceedings 2461, 020006 (2022), pp 020006(1-11), August 2022. <https://doi.org/10.1063/5.0092401>
- Prof. Siddiq Iqbal and Prof. B R Sujatha, "A HIBE using Blockchain for Hierarchical Key Management Approach in Wireless Sensor Networks," SSRG International Journal of Electrical and Electronics Engineering, vol. 10, no. 3, pp. 59-66, March 2023, ISSN: 2348-8379. <https://doi.org/10.14445/23488379/IJEE-E-V10I3P107> (Scopus Indexed).
- Dr. Banuprakash R, Manushree N, Subhiksha A P, Wadhwa Simran Deepak, presented and published a paper with title "A Circular Microstrip Antenna for K Band Applications", in International Conference on Inventive Computation Technologies (ICICT 2022), July 20-22, 2022, at Tribhuvan University, Nepal, DOI: 10.1109/ICICT54344.2022.9850665.
- Prof. Prathiba N, et.al., titled: "Using the Contrastive Language-Image Pretraining Model for Object Detection on Images containing Textual Labels", 6th International Joint Conference on Advances In Computational Intelligence, IJCACI 2022, October 15-16, 2022, organized by SAU Center for Research and Innovative Learning (SCRIL), South Asian University, India and Jahangirnagar University, Bangladesh.
- Dr. Sowmyashree M S, Dr. Saritha I G and Prof. Naveen I.G, "Design and Implementation of Radix-4 MBW Multiplier using 45 nm technology" 2022 IEEE 2nd Mysore Sub Section International Conference (MysuruCon) 978-1-6654-9790-9/22/ ©2022 IEEE (conference is indexed in SOCPUS).
- Dr. Banuprakash R, Manushree N, Subhiksha A P, Wadhwa Simran Deepak, presented and published a paper with title "A Circular Microstrip Antenna for K Band Applications", in International Conference on Inventive Computation Technologies (ICICT 2022), July 20- 22, 2022, at Tribhuvan University, Nepal, DOI: 10.1109/ICICT54344.2022.9850665.
- Prof. Siddiq Iqbal and Prof. B R Sujatha, "An Efficient and Secure Key Management Scheme using Fuzzy Logic in WSN", IEEE Third International Conference on "Technology, Engineering, Management for Societal Impact using Marketing,

"I have not failed, but found 1000 ways to not make a light bulb."
- Thomas Edison

Entrepreneurship and Talent, 10-11 Feb 2023 (TEMSMET 2023).

BOOK CHAPTER:

- Prof. R Ambika, Dr. Thejaswini S, Prof. Ramesh Babu N “IoT based website for Identification of Acute Lymphoblastic Leukemia using DL”, Bentham Science, ISBN: 978-981-5136-54-8, 2023, DOI: 10.2174/97898151365311230101

TECHNICAL TALKS:

- Dr Sowmyashree M S was invited as resource person under the banner of IEEE WiE AG, AIT STB, SDP at Atria Institute of Technology on the title “Smart Technologies and Networking Applications in real-time” where she delivered a hands-on session on Matlab Applications.
 - Prof Saritha I G was invited as resource person under the banner of IEEE WiE AG, AIT STB, SDP at Atria Institute of Technology on the title “Smart Technologies and Networking applications in real-time” where she delivered a hands-on session on CISCO Packet tracer.
 - Dr Thejaswini S was invited as a resource person under the banner of IEEE WiE AG, AIT STB, SDP at Atria Institute of Technology on the title “Smart Technologies and Networking Applications in real-time” where she delivered a hands-on session on Signal Processing and its Applications in real-time.
 - Dr Sumathi M S was invited as a resource person under the banner of IEEE WiE AG, AIT STB, SDP at Atria Institute of Technology on the title “Smart Technologies and Networking Applications in real-time” where she delivered a hands-on session on MSP430.
- its applications.
- Prof. Pratibha N was invited as resource person under the banner of IEEE WiE AG, AIT STB, SDP at Atria Institute of Technology on the title “Smart Technologies and Networking Applications in real-time” where she delivered a hands-on session on Wireshark.
 - Dr. Thejaswini S delivered a lecture session for the module "Machine Learning using MATLAB" on 20th March 2023 during the short term training program on "MATLAB & Simulink for Industrial Applications" ' organized by IETE Bengaluru.
 - Dr. Saritha I G, Asst. Professor, Department of ETE, has extended their support as a Resource person for the Open course on “Embedded System Design on FPGAs” organized by ETE on 16.6.2023.
 - Dr. Sumathi M S, Asst. Professor, Department of ETE, has extended their support as Resource person for the Open course on “Embedded System Design on FPGAs”, organized by ETE on 16.6.2023.
 - Prof. Prathiba N, Asst. Professor, Department of ETE, has extended their support as Resource person for the Open course on “Embedded System Design on FPGAs”, organized by ETE on 16.6.2023.
 - Dr. Thejaswini S, Asst. Professor, Department of ETE, has extended their support as Resource person for the Open course on “Exploring BCI and Neural Signal Processing”, organized by ECE on 15.6.2023.
 - Dr. Saritha I G, Asst. Professor, Department of ETE, has extended their support as Resource person for Outreach activity on “e-Learning”, on 20.6.2023 at Secondary Primary school at Singhanayakanahalli, Bangalore.

SESSION CHAIRS:

- Dr. Mallikarjuna Gowda C P as session chair IEEE Mysore Con 2022 - 2nd edition of the flagship International conference, JSS science and Technology University, Mysuru, on 17th october 2022.



OPEN COURSE :

- Department of ETE organized two open courses namely “Embedded System Design on FPGAs” and “PCB & System Hardware Design”, on 12.6.2023 under the Co-ordination of Dr. Raju Hajare and Dr Sumathi M S . Dr. Mallikarjuna Gowda, ETE HOD, inaugurated the courses at 8.30 am. Dr. Prabhakar Mishra, Mr. Karunakaran and Mr. Nikil Rao, are the External Resource persons for the open courses. The course is designed in line with the industry Standards for the benefit of the student.



“Let him not be grasping nor have his mind preoccupied with receiving perquisites, but let him with dignity keep up his position by establishing a good reputation. No work can be rightly done without honesty and incorruptibility.”
- Vitruvius

DEPARTMENT OF MECHANICAL ENGINEERING

FACULTY AWARDS:

- Dr. K.M. Sathish Kumar, Dr. Jagadeesh Y J, Prof. Madhu M C, and Prof S Nithya Poornima, Assistant Professor, Department of Mechanical Engineering have received APPRECIATION CERTIFICATE, for outstanding contribution to the Institute by giving 100 % results during academic period 2021-22.
- Prof. Madhu M C Assistant Professor Department of Mechanical Engineering was awarded the Solar Chartered Engineer certificate from Solar Energy Society of India on 30.1.2023.
- Dr. Nagamadhu M, Assistant Professor, Department of Mechanical Engineering was selected as Kannada Book Translator for the Materials Science and Engineering.
- Prof. Praveen Kumar T N, Associate Professor, Department of Mechanical Engineering and Chief Co-ordinator, IP (Intellectual Property) Cell, qualified Patent Agent Examination 2023 conducted during the month of May 2023 by Government of India, Ministry of Commerce & Industry, Office of The Controller General Patents, Designs & Trade Marks. Only those who qualify for the patent agent examination can register and practice as Patent Agents in India to prosecute patent applications in the Indian Patent Office.
- Dr. Keerthi Kumar N, Assistant Professor, Department of Mechanical Engineering has completed the consultancy work on the title “3-D Modelling of PowerGeneration through the Magnetic Flux” using Solid Works software. On 23.12 2023 provided by Gaamma Bytes Pvt Ltd, Bangalore.



Kannada Book Translation event

RESEARCH PROPOSALS GRANTED:

- Dr. Ravichandra K R, Assistant Professor, Mechanical Engineering Dept (PI) successfully completed the Consultancy Project with "Rethium Power Tech" and received the consultancy charges of Rs 60,000/- on 16th Dec 2022 under the title of the project "Optimizing the Resistance Spot Welding Parameters for joining the tabs to bus bar in a Lithium-Ion battery pack"

RESEARCH CONSULTANCY AND EDP AND GRANTS:

- Dr. Keerthi Kumar N, Assistant Professor, Department of Mechanical Engineering has completed Consultancy work titled “Sustainable Hydro Power Generation for Rural Area” and received a completion certificate on 7th March 2023 from Gaamma Bytes Pvt Ltd, Bangalore.

KSCST FUNDED PROJECTS :

- Dr. Ravichandra K R, Assistant Professor, Mechanical Engineering (PI), Dr. Nagmadhu M, Assistant Professor, Mechanical Engineering (Co-PI) and Dr. Jyothi C Abbar, Associate Professor, Chemistry Dept (Co-PI) (Project Partner), presented a research proposal to under the Science, Technology and Innovation (STI) Interventions, KSCST during January 23.

PUBLICATION OF RESEARCH PAPERS:

INTERNATIONAL JOURNAL:

- Prof S Nithya Poornima, Assistant Professor, Department of Mechanical Engineering published a journal paper on Experimental Analysis and Optimization of wind turbine for Domestic application in International Journal of Advance Research, Ideas and Innovations in Technology © 2022, www.IJARIIIT.com All Rights Reserved Page |117 ISSN: 2454-132X Impact Factor: 6.078 (Volume 8, Issue 5 - V8I5-1162) Available online at: <https://www.ijariit.com>
- Dr. Keerthi Kumar N, Assistant Professor, Department of Mechanical Engineering has published paper titled: “Experimental investigation of direct injection diesel engine using waste plastic oil as fuel” in IOP Conference Series: Earth and Environmental Science, doi:10.1088/1755-1315/1084/1/012009, 1084 (2022) 012009.
- Dr. Nagamadhu M, Assistant Professor, Department of Mechanical Engineering, published an article titled “A critical review on microstructure and hardness of aluminum alloy 6061 joints obtained by friction stir welding-past, present, and its prospects”, available in online at Materials Today: Proceedings, November, 2022.
- Dr. Kiran M D, Govindaraju H K, Lokesh Yadhav B R and Nithin Kumar “Effect of Various Parameters on Fracture Toughness of Polymer Composites: A Review” in International Conference on Smart and Sustainable Developments in Materials, Manufacturing and Energy Engineering (SME 2022) , NMAMIT, Nitte, 22 – 23 December 2020.
- Dr. Kiran M D, M Rajesh, Nithin Kumar, and Haiter Lenin, “Tribological Characterization of Epoxy Hybrid Composites Reinforced with Al₂O₃ Nanofiller”, Advances in Materials Science and Engineering Volume 2023, Article ID 8196933, <https://doi.org/10.1155/2023/8196933>
- Dr. Nagamadhu M, Department of Mechanical Engineering, BMSIT&M, published an article titled "Study on tearing strength of woven sisal fabrics for tents and polymer composite applications" in Journal of Natural Fiber, Volume 20, Issue 1, Tyloers and Francis Publisher, Q 1, SCI, Scopus, 5 year Impact factor of 3.760, 2023.
- Dr. Keerthi Kumar N, Assistant Professor, Department of Mechanical Engineering has published paper titled “Effect of Injection Timing in Direct Injection Diesel Engine using Plastic Oil Diesel Blends with Biodiesel as an Additive”, at Journal of Advanced Research in Fluid Mechanics and Thermal Sciences, ISSN: 2289-7879, 101, Issue 2 (2023) 73-84.
- Dr. Keerthi Kumar N, Assistant Professor, Department of Mechanical Engineering has published paper titled “A hybrid solar-battery power source with nano - grid smart home with plug-in electric vehicle” at AIP Conference Proceedings 2690, 020039 (2023); <https://doi.org/10.1063/5.0119613>, Published Online: 24 March 2023.

- Prof. Madhu M C has published Lecture Notes in Mechanical Engineering.in Springer on the topic Simulation Studies on Harmonic Analysis of Lighting Loads in Advances in Manufacturing, Automation, Design, and Energy Technologies. ICoFT 2020. Singapore. pp. 775–783, https://doi.org/10.1007/978-981-99-1288-9_80.

TECHNICAL TALKS:

- Dr Ravichandra K R, Assistant Professor, Department of Mechanical Engineering has extended their support as a Resource person for One-week lecture series on Advanced Materials and Applications in Mechanical Engineering, on 19.12.2022 from 3.30 to 5.00 PM at PES Institute of Technology and Management, Shimoga
- Dr. Nagamadhu M, Assistant Professor, Department of Mechanical Engineering has extended their support as a Resource person for Technical Talk in Mechanical Engineering, on 5.01. 2023 from 10.00 am to 04.00 pm at Government Polytechnic, Arakere.
- A Guest Lecture was organized for 3rd Semester Mechanical Engineering students on the topic of Lean Manufacturing by Mr. D Sarathy, Honorary Chairman, National Institute for Quality and Reliability, Bengaluru on 11.01.2023
- Dr. Ravichandra K R was invited to deliver a technical talk from the Institution’s Innovation Council, BMSIT on 10.02.2023 from 10-30AM to 11-30AM under the banner of “Projects with Professors” on the topic “IoT enabled Smart Systems for Smart Cities and Smart Mobility.
- Prof. K Chandra Sekhara Reddy organized a guest lecture on 26.05.2023 for the VI semester students by an Alumnus namely Mr. Sachin Raj(1BY15), LTS consultant, LinkedIn, to become familiar with corporate code.

OPEN COURSE:

- Prof. Nithya Poornima S and Prof. Sriganesh T G, Assistant Professor, Department of Mechanical Engineering organized the open course during Automation and Robotics 12.6.23 to 16.6.23 for 6th and 4th Semester students. The students were exposed to new technologies being conceived and the course was designed for those interested in contributing to developments in these fields and will provide you with the broad interdisciplinary knowledge and skills.



- Dr. Ravichandra K R and Dr. Nagamadhu M, Assistant Professor, Department of Mechanical Engineering conducted open course (Employability Enhancement Course) titled Electronics and PC Cooling Simulation and Analysis Using CFD Tool for 6th and 4th Semester students from 12th to 16th June 2023. The Students understand the knowledge of Computational fluid dynamics (CFD) and applications of CFD, Students are able solve CFD problems for general applications.



"The life work of the engineer consists in the systematic application of natural forces and the systematic development of natural resources in the service of man."

- Harry Walter Tyler

DEPARTMENT OF CIVIL ENGINEERING

RESEARCH PROPOSALS GRANTED: PUBLICATION OF RESEARCH PAPERS :

- Dr. Deepak M S, Assistant professor, Got Research grant by Science and Engineering Research Board, of INR 18,30,000/- for project titled “Advancement and Applications of High-Strength High-Performance Concrete Utilizing Electrical Arc Furnace Steel Slag Residue and Copper Slag Aggregates”.

INTERNATIONAL JOURNAL

- Dr. Ekbote Anupkumar G, Lohitkumar Nainegali, Puja Rajhans, and M. S. Deepak. "Behavioural assessment on influence of adjacently placed strip footings at different embedment level." Architecture, Civil Engineering, Environment 15, no. 4 (2022): 93-103.

KSCST FUNDED PROJECTS

- KSCST selected the UG student project for funding for the 46th series of the Student Project Programme from the Department of Civil Engineering, titled “Sustainable Masonry Wall Block with Polycarbonate Waste” guided by Mrs. Shobha R, selected for State Level Seminar to be held at Alva’s Institute of Engineering and Technology, Moodubidire from 11.08.2023 to 12.08.2023.
- The final year student project titled “Development of low-cost reinforced concrete sluice gate for small dams to mitigate floods” carried by students Bharath Singh B D(1BY19CV003) Deepthi B R (1BY19CV007), and Harsh Vardhan Kumar(1BY19CV014), Guided Mrs Archana K funded Rs 20,000 by M/s Avani Technologies.
- KSCST has selected three UG student projects for funding for the 46th series of Student Project Programme from the department of Civil Engineering. “Development of low-cost reinforced concrete sluice gate for small dams to mitigate floods” guided by Mrs Archana K, Sustainable Masonry wall block with Polycarbonate waste guided by Mrs. Shobha R.

INTERNATIONAL CONFERENCE

- Prof. Archana K and Dr. Deepak M S, Assistant Professor(s) and Bharath Singh B.D (1BY19CV002), Deepthi B R (1BY19CV007), Harsh Vardhan Kumar (1BY19CV014), Shaik Arshiya Sadaf (1BY19CV033) 8th semester, Department of Civil Engineering , BMS Institute of Technology and Management, “Study on Development of FRC and its Application on Sluice Gate" at the “International Conference on Interdisciplinary Approaches for Sustainable Development (IACESD-2023)” organized by Jyothy Institute of Technology, Bengaluru from 07.07.2023 & 08.07.2023
- Dr. Vinod B R, Department of Civil Engineering, “Numerical Analysis and Designing of Embankment With Soil Nailing”, 4th International Conference on Recent Advances in Engineering Sciences, RIT-2022) ICRAES 2022, organized by Ramaiah Institute of Technology, Bengaluru, Karnataka 560054, 13 th to 14 th October 2022.

- Dr. Rajakumara H N 3, Performance of Concrete made with Natural Aggregate and Multicycle Recycled Concrete Aggregate, IOP Conf. Series: Materials Science and Engineering, 1255, (2022) 012019, IOP Publishing, doi:10.1088/1757-899X/1255/1/012019 2023 at Waste Management Research Group (WMRG)-Indian Institute of Technology Guwahati.
- Mr. J Akshit Jain, 6th Sem, Dr Vinod B R, Anthony Raj, Department of Civil Engineering, "EFFECT OF BAGASSE ASH AND FERRIC CHLORIDE ON PROPERTIES OF SOIL" International Conference on Sustainable Infrastructure: Innovations, Opportunities, and Challenges (SIIOC 2023) held during 20.04.2023 and 21.04.2023 at NITK, Surathkal.
- Mr. Bharat Singh B D, Ms. Deepthi B R, Mr. Harsh Vardhan Kumar, Ms. Shaik Arshiya Sadaf, Professor Archana K, Dr. Deepak M S, Department of Civil Engineering, "Study on development of FRC and its application " International Conference on Sustainable Infrastructure: Innovations, Opportunities, and Challenges (SIIOC 2023) held during 20.04.2023 and 21.04.2023 at NITK, Surathkal
- Dr. Aruna G, Associate professor, Mr. Arunkumar N, Research Assistant, Department of Civil Engineering, Experimental Investigation on Cold-Formed steel channel beam with embossments, Indo-African International Conference on Advancements in Construction Materials (ICACM-2023), held during 28.04.2023 and 29.04.2023 at Vidya Jyothi Institute of Technology, Hyderabad.
- Dr. Rajesh Gopinath, 2016 batch -Vijeya Sudarshan, Chandana K , Deeksha K Shetty, Zubeni Nguillie, 2015 Batch 1 Aishwarya M, 2018 Batch 1 Sharom Shaik and L R Phanindra, Environmental performance evaluation for a medical electronics manufacturing firm during COVID-19, 4th International Conference on Waste Management - RECYCLE-2023, held during 18-16 May 2023 at Waste Management Research Group (WMRG) - Indian Institute of Technology, Guwahati.

BOOK CHAPTER:

- Surendra H J, Dr. Vinod B R , "Experimental Study of Discharge Variability on Impact Coefficient of Jet for Sustainable Development", Hydraulic and Civil Engineering Technology, Advances in Transdisciplinary Engineering, IOS Press, ISBN online 978-1-64368-355-3, DOI: 10.3233/ATDE220848, 19 th December 2022

TECHNICAL TALKS:

- Dr. Rajesh Gopinath, Associate Professor, Department of Civil Engineering, BMS Institute of Technology and Management, has extended his support as a Resource person to an Expert Talk titled "Entrepreneurs: From Engineers to Managing Engineers on 28.06.2023, at The Oxford College of Engineering, Hosur Road; during the occasion of a 1-day workshop on Workshop on "Entrepreneurship and Career Opportunities in Environmental Engineering", jointly organised by Institution Innovation Council and Department of Civil Engineering.

- Prof. Shimna Manoharan, Assistant Professor, Department of Civil Engineering extended their support as a Resource person for IGNITE 2022 a Student Development Program and gave an Expert talk on the topic of Engineering to an academic career on 06.08.2022 organized by the Government College of Engineering Kannur (SHE- GCEK) at Government College of Engineering Kannur, Kerala.
- Dr. Chandrashekarappa A, Assistant Professor, Department of Civil Engineering extended their support as Resource person for a webinar and gave Expert talk on the topic of Application of Remote sensing and GIS in civil Engineering Projects on 11.08.2022 organized by Vijaya Vittala Institute of technology, Bengaluru
- Dr. Athiyamaan V, Assistant Professor, Department of Civil Engineering extended their support as Resource person for FDP named “Advance Computational Techniques in Civil Engineering” and gave Expert talk on the topic “Introduction to modelling of RCC structural Elements using ABAQUS CAE” on 30.11.2022 organized by Department of Civil Engineering, BMSIT&M.
- Dr. Marsh Bandi, Assistant Professor, Department of Civil Engineering extended their support as Resource person for FDP named “Advance Computational Techniques in Civil Engineering” and gave Expert talk on the topic “Traffic flow modelling VISSIMMicro Simulation” on 01.12.2022 organized by the Department of Civil Engineering, BMSIT&M.
- Dr. Athiyamaan V, Assistant Professor, Department of Civil Engineering extended their support as Resource person for FDP named “Advancements in Concrete technology” and gave Expert talk on the topic “Case study on analytical study of SCC with micro steel fibre and modelling using Abaqus” on 21.12.2022 organized by Department of Civil Engineering in association with IQAC Cell, BITM, Ballary.
- Dr. G Aruna, Associate Professor, Department of Civil Engineering, has extended their support as a Resource person for the “Six Days Online Faculty Development Programme on Futuristic Trends in Civil Engineering” on 07.02.2023 at Kongunadu College of Engineering And Technology, Namakkal.
- Dr. Rajesh Gopinath, Associate Professor, Department of Civil Engineering) has delivered an Expert Talk on "Need for Climate Sustainability" on 02.03.2023 at the 5-Days National Level FDP on “Environmental Engineering and Sustainability- Research, Technologies and Challenges”, organized by Department of Civil Engineering, NMIT, Bengaluru.
- Dr. Vinod B R, Assistant Professor, Department of Civil Engineering has extended their support as Resource person for an invited talk on “Green Buildings” organized by the Department of Civil Engineering, Sai Vidya Institute of Technology, Bangalore on 19.07.2023.

"Engineering is the closest thing to magic that exists in the world."

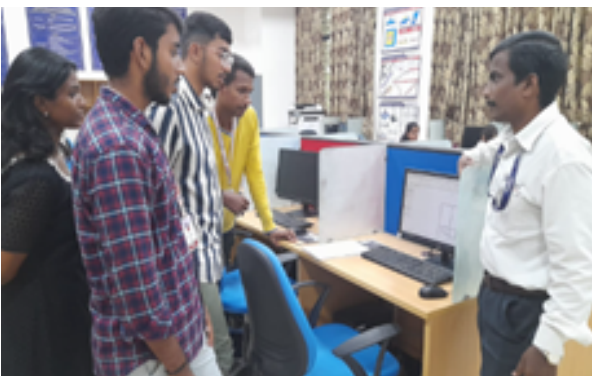
- **Elon Musk**

SESSION CHAIRS:

- Dr. Rajesh Gopinath (Associate Professor, Department of Civil Engineering, BMSIT&M) has chaired a session on 5th May 2023 and Evaluated presentations of Research Scholars in ICGCP 2023 (International Conference on Global Convergence in Technology, Entrepreneurship, Computing and Value Engineering: Principles and Practices) held in Sapthagiri College of Engineering, Bengaluru. He spoke about Essential Norms and Etiquettes in Research Presentations.

OPEN COURSE :

- Dr. Vinod B R & Professor Shobha R, Assistant professor (s), Department of Civil Engineering, BMS Institute of Technology and Management, coordinated as open course coordinators for the course titled " Planning and Drawing of Residential Building " organized by Department of Civil Engineering, BMSIT&M, Bengaluru from 12.06.2023 to 16.06.2023.



- Dr. Rajesh Gopinath and Dr. Aruna G Associate professor(s), Department of Civil Engineering, BMS Institute of Technology and Management coordinated as open course coordinators for the course titled title "Research-Academic Writing (RAW-I)-Phase 1: Skills, Tools and Ethics" organized by Department of Civil Engineering BMSIT&M, Bengaluru from 12.06.2023 to 16.06.2023.



PATENTS:

- Dr. Vinod B R, Assistant Professor, Department of Civil Engineering, Application no: 349270-001, Title of Invention: "An Architectural Engineering Construction Device", Date of filing of Application: 09-09-2021, Published Date: 08/10/2021, Grant Date: 23/12/2022, Jurisdiction: Chennai, India.

DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS

PUBLICATION OF RESEARCH PAPERS:

INTERNATIONAL JOURNAL:

- Prof. Shivakumara T and Prof. Rajshekhar M Patil, "Privacy Breach Detection and Hindrance of data in cloud computing", YMER, Vol 21, Issue 11, Nov – 2022, pp 543-551, ISSN NO: 0044-0477, Impact factor 5.7.

INTERNATIONAL CONFERENCE:

- Prof. M.Sridevi, Prof. Arunkumar B R "Prediction of Soil Moisture from Hyperspectral Bands using Machine Learning Techniques", International Conference on Engineering and Advancement in Technology – 2022, 8th and 9th July, 2022 organized by Malla Reddy Institute of Engineering and Technology, Hyderabad.
- Prof. Dwarakanath G V "IoT Security – A Secure Data Transfer among IoT Nodes" In International Conference on Advancements in Smart Computing and Information Security, Marwadi University Rajkot, Gujarat, November 25, 2022.

BOOK CHAPTER:

- Dr. P. Ganesh et. al. published a chapter titled "Enhancing the Protection of Information in Digital Voting Using the Fraud Application of Blockchain Technology" in the book "Handbook of Research on Advanced Practical Approaches to Deepfake Detection and Applications", Chapter 11, IGI Global, January 2023, DOI:10.4018/978-1-6684-6060-3.ch011.

TECHNICAL TALKS:

- Prof. Venkatesh A has conducted a one-day Hands-on workshop on "AWS Cloud Platform" at St. Joseph Engineering College, Vamanjoor, Mangaluru on 06.02.2023.
- Prof. Venkatesh A delivered a talk on "Web Technology" at Dayanad Sagar College of Arts Science and Commerce, Kumaaraswamy Layout, Bengaluru on 21.06.2023.
- Prof. Venkatesh A, Assistant Professor, Department of MCA has extended his support as a Resource person for the Expert talk on "Web Technology", on 21.06.2023 at Dayanand Sagar College of Arts, Commerce and Science, Bengaluru.
- Prof. Shivakumara T, Assistant Professor, Department of MCA has extended their support as a Resource person for a day Student Development Programme on "Networking Tools and Web Technologies", on 25-05-2023 at Sir MVIT, Bengaluru.

"The function of education is to teach one to think intensively and to think critically. Intelligence plus character - that is the goal of true education."
- Martin Luther King Jr.

DEPARTMENT OF MASTER OF BUSINESS ADMINISTRATION

PUBLICATION OF RESEARCH PAPERS

INTERNATIONAL JOURNAL:

Dr. Balu L presented a paper on

1. The influencing factors on trust in the adoption of m-wallets – a study at Bengaluru rural district, Karnataka
2. “Mobile Wallets Are Alternative or Substitute for Traditional Payment Methods: An User Perception Descriptive Analysis in Bangalore Rural District.” *resmilitaris* 13, no. 2 (2023): 6320-6331.
3. Effectiveness of performance appraisal on job satisfaction of Faculty members.

INTERNATIONAL CONFERENCE:

- Dr. Nethravathi N Presented a paper on “A Study on “comparative performance of selected gold ETF’s & equity large cap mutual funds with ref to NSE” at National conference.

- Dr. Vinay H V presented a paper on the development of an intelligent management accounting system by using machine learning and extensive data mining techniques” at an international conference organized by Thakur College of Engineering and Technology.

SESSION CHAIRS

- Dr. Vinay H V chaired a session at the National Conference held at GSSS Institute of Engineering and Technology, Mysore.
- Dr. Vinay presented an expert talk on “Taxation and investment management” at a finance symposium organized by SJCIT Chikkaballapur.

"The scientific man does not aim at an immediate result. He does not expect that his advanced ideas will be readily taken up. His work is like that of the planter - for the future. His duty is to lay the foundation for those who are to come, and point the way. He lives and labors and hopes."

- Nikola Tesla

DEPARTMENT OF MATHEMATICS

PUBLICATION OF RESEARCH PAPERS :

INTERNATIONAL JOURNAL:

- Dr. A Bhattacharyya, R Kumar, S Bahadur, G S Seth, Sunil, "Modeling and interpretation of peristaltic transport of Eyring–Powell fluid through uniform/non-uniform channel with Joule heating and wall flexibility", Chinese Journal of Physics Vol. 80, Pages: 167-182. (Publisher: Elsevier, Indexing: SCI, SCOPUS, Web of Science, Impact Factor: 3.957).

INTERNATIONAL CONFERENCE:

- Dr. Vijayakumar Kallur, Prof. V Madhukar Krishnamurthy, and Prof. R Arunkumar "Preliminary Mathematical Study of Renderings of Mantrapushpam." In AIP Conference Proceedings, vol. 2649, no. 1. AIP Publishing, 2023.
- Prof. Rudrappa, Prof. Arunkumar, Dr. Vijaykumar Kallur, and Prof.Kavyashree have presented a paper titled "Effect of Gravity Modulation on Benard- Marangoni

Convection in Magnetic Nanofluids with internal heat generation." In AIP Conference Proceedings, vol. 2649, no. 1. AIP Publishing, 2023.

TECHNICAL TALKS:

- Dr. Karabi Sikdar. Professor and HoD, Department of Mathematics has extended her support as Resource person for the Faculty Development Program on Recent Advances in Computational Mathematics and Applied Sciences, organized by the School of management, Department of Mathematics association with Karnataka Science and Technology Academy (KSTA), Reva University, Bengaluru on 17.11.2022.
- Dr. Chethan A S, Professor, Department of Mathematics has extended his support as a Resource person for the expert talk Applications of Mathematics on 15.07.2023 at Govt. First Grade College, Doddaballapura.
- Dr. Kallur V Vijayakumar, Assistant Professor, Department of Mathematics has extended his support as a Resource person for the expert talk Vector Spaces and Linear transformation on 15.07.2023 at Rajarajeshwari College of Engineering, Bengaluru.

"When I am working on a problem, I never think about beauty but when I have finished, if the solution is not beautiful, I know it is wrong."

- R. Buckminster Fuller

DEPARTMENT OF CHEMISTRY

FACULTY AWARDS:

- Dr. Swetha G A, Assistant Professor, Department of Chemistry, received a Best Oral Presentation Award at International Conference on Futuristic Materials in Science and Technology (ICFMST-2022) from Bannari Amman Institute of Technology, Sathyamangalam, Erode, Tamil Nadu on 22.12.2022.

PUBLICATION OF RESEARCH PAPERS :

INTERNATIONAL JOURNAL:

- Prof. Saniya Fatima, Prof. S Kshama Shetty, Dr. Jyoti Roy Choudhuri, Prof. K Swamynathan, K Shwetha, Sandeep Kumar “Experimental and theoretical investigation on the anti-corrosive potential of potassium ethyl xanthogenate for corrosion of mild steel in acidic media” Journal of Chemical Sciences, 134, 1-9 (2022).
- Dr. JC Abbar, Prof. G A Swetha, Prof. H P Sachin “Impact of an expired hemorheologic drug on the mitigation of zinc corrosion in acidic environment: Insights from chemical, electrochemical, and surface evaluation” Colloids and Surfaces A: Physicochemical and Engineering Aspects 650, 129518 (2022).
- Prof. Nanjundappa V S, Dr. Ramakrishnappa T, Dr. Sureshkumar, Prof. K Prakash H R, Prof. Praveen BM, Efficient strategies to produce Graphene and functionalized graphene materials: A review, Applied Surface Science Advances, 14, 2023, 100386 (2023).

- Prof. Malingappa Pandurangappa, Prof. G K Raghu, Prof. T N Ravishankar, Dr. T Ramakrishnappa, Dr. Suresh Kumar K, Prof. Suma B Patri, Prof. K M Supritha, “Designing of Au doped TiO₂ NPs as an Electrocatalyst for Nitrite Sensor” Results in Chemistry, 100964 (2023)
- Prof. GA Swetha, Prof. HP Sachin, Prof. JR Choudhuri, “Performance of an anticonvulsant drug, expired gabapentin, on zinc corrosion in an acidic environment” Emergent Materials, 1-20 (2023).
- Prof. T Singh, Prof. J R Choudhuri, Prof. M K Rana, “ α -graphyne as a promising anodematerial for Na-ion batteries: a first-principles study” Nanotechnology 34 (4), 045404 (2022).
- Prof. G A Swetha, Prof. H P Sachin “Evaluation of the effectiveness of gabapentin as a corrosion inhibitor for mild steel in a 1 M hydrochloric acid environment using theoretical and experimental methods.” Inorganic Chemistry Communications 155, (July 2023): 111082.
- Prof. V. Venkatesha, Prof. H. A. Kumara, Prof. D.M. Naik., "Generalized V-Ric vector fields on contact pseudo-Riemannian manifolds", Matematicki Vesnik, 75 (3), 166-174 (2023). DOI: 10.57016/MV-mzwb3188 (Q3).

BOOK CHAPTER:

- Dr. Jyothi C Abbar and Dr. G A Swetha jointly published a book chapter in Springer publications titled “Environmental Applications of Green Engineered Silver Nanoparticles”.

- Dr. Sureshkumar K and Dr. Ramakrishnappa T jointly published a book chapter in Springer publications titled as “Phytonanotechnology for the Removal of Pollutants from the Contaminated Soil Environment”.
- Dr. Jyoti Roy Choudhuri and Dr. Jyothi C Abbar jointly published a book chapter in Springer publications titled as “Electrochemistry of Organic Electrodes”.
- Dr. Sureshkumar K and Dr. Ramakrishnappa T jointly published a book chapter in Apple Academic Press titled as “Green Iron Nanoparticles for Nanoremediation”.
- Dr. Jyoti Roy Choudhuri and Dr. Jyothi C Abbar jointly published a book chapter in Springer publications titled as “Electrochemistry of Organic Electrodes”.
- Dr. Sureshkumar K and Dr. Ramakrishnappa T jointly published a book chapter in Apple Academic Press titled as “Green Iron Nanoparticles for Nanoremediation”.

TECHNICAL TALKS:

- Dr Jyothi C Abbar delivered an Invited talk for the Webinar Series on Nanotechnology - organised by Department of Science and Technology
- (DOST) - Philippine Council for Industry, Energy and Emerging Technology Research and Development (PCIEERD). Philippines.

“I am, and ever will be, a white-socks, pocket-protector, nerdy engineer, born under the second law of thermodynamics, steeped in steam tables, in love with free-body diagrams, transformed by Laplace and propelled by compressible flow.”
- Neil Armstrong

DEPARTMENT OF PHYSICS

RESEARCH PROPOSALS GRANTED:

- Dr. Basavaraj R B has been granted with VGST K-FIST-L1 (Rs. 15 lakhs) project entitled “Inorganic/Organic Core-Shell Hybrid Structures for Advanced Forensic and Security-ink Applications”.

RESEARCH CONSULTANCY AND EDP AND GRANTS:

- Physics Advanced Research Lab generated an amount of Rs. 12,190 as a consultancy during the year 2022-23.

PUBLICATION OF RESEARCH PAPERS

INTERNATIONAL JOURNAL:

- Prof. S K Kanchana, Prof. N Vanitha, Dr. R B Basavaraj, and Prof. Shivaraj Madivalappa have published a paper titled “Structural and optical properties of polyvinyl alcohol/copper oxide (PVA/CuO) nanocomposites”, Solid State Communications, 370 (2023) 115221.
- Prof. K C Sushma, Dr. R B Basavaraj, Prof. D P Aarti, Prof. M B Madhusudana Reddy, Efficient red-emitting SrZrO₃: Eu³⁺ phosphor superstructures for display device applications, Journal of Molecular Structure, 1283 (2023) 135192.
- Prof. S K Kanchana, Prof. N Vanitha, Dr. R B Basavaraj, Prof. Shivaraj Madivalappa, Structural and Optical Properties of Polyvinyl Alcohol/Zinc Oxide Nanocomposites, Solid State Communications, 220 (2023) 2300052.
- Prof. R Mamatha, Prof. B R Radha Krishna, Prof. B Daruka Prasad Novel green emitting Sr₆Al₄Y₂O₁₅: Er³⁺ nanophosphor for thermal sensing, data security and personal identification, Microchemical Journal, (2023) 109184.

- Prof. K N Narasimhamurthy, Dr. B Daruka Prasad, Prof. B R Radha Krishna, Nanocomposites of PVA-PVP and L-ascorbic acid modified ZnO:Fe via ultrasonic irradiation as a green technique: latent fingerprint detection, food packing and anti-bacterial applications, Inorganic Chemistry Communications, (2023) 111161.
- Prof. S R Yashodha, Prof. N Dhananjaya, Prof. H S Yogananda, Electrochemical, photoluminescence and intensity parameters of LaOCl: Dy³⁺ for sensors and white light-emitting diode applications, Applied Surface Science Advances, 9 (2022) 100253.
- Prof. N Dhananjaya, Prof. N P Ambujakshi, Prof. C R Ravikumar, Comparative study on photocatalytic degradation and sensor properties of Chonemorpha fragrans leaf extract assisted Mg_xZn_{1-x}O (0 ≤ x ≤ 1) nanoparticles, Inorganic Chemistry Communications, 144 (2022) 109827.

A scientist can discover a new star but he cannot make one. He would have to ask an engineer to do it for him."

- Gordon Lindsay Glegg

BICEP

BMS INNOVATION CENTRE AND ENTREPRENEURSHIP PARK

BMSIT&M established **BICEP - BMS Innovation Centre and Entrepreneurship Park** - Incubation Centre to encourage students and faculties to catalyze the development of innovation-driven enterprises. The Centre has been recognized and approved as the Host Institute to set up a Business Incubator (BI) by the Ministry of MSME, Govt. of India. The activities of the Incubation Centre enabled its students to get first-hand experience in entrepreneurship, promote innovation at the institute and provide a comprehensive and integrated range of support including space, mentoring, training programs, networking, and an array of other benefits.

ARIIA Ranking

India has already been improving on the global stage in terms of Innovation ranking from 86th place, 5 years ago, to 57th place this year. Atal Ranking of Institutions on Innovation Achievements (ARIIA) is an initiative of Ministry of Education (MoE), Govt. of India to systematically rank all major higher educational institutions and universities in India on indicators related to “Innovation and Entrepreneurship Development” amongst students and faculties. BMSIT&M has participated in ARIIA from the time of its beginning and positioned in the band of 151-300 in the Innovation category for the year 2023.



Smart India Hackathon 2022

Innovation Centre shortlisted about 26 teams from “Anveshana- Idea competition 2022” (Internal-Smart India Hackathon 2022) and nominated the teams to Smart India Hackathon 2022. Three teams among the 26 teams were selected for the grand finale of SIH 2020 at various nodal centres based on the category of innovation. Ms. Shama H M was the SPOC of the Smart India Hackathon 2022 from BMSIT&M.

“**Team Nonce**” from **6th Sem, CSE** have won the first place and been awarded sum of **Rs.1,00,000** in the category of “Innovation using Cybersecurity and Blockchain” for the project “Blood registry using blockchain” at IES college, Bhopal.



“Code_18” from 4th Sem, ISE, won first place in the category of “Smart Education” for the project “Bringing the power of AI for the aid of teachers in classroom” at Excel Engineering College, Erode. However, the amount awarded was a sum of **Rs. 50,000** since the amount was split with another team.



"Infinite Loop" from the 6th semester of the Electrical and Electronics Engineering (EEE) program, achieved a remarkable feat by securing the prestigious 1st runner-up position in the highly competitive "IOT and Electronics" category at the esteemed BITS, Ranchi competition. Their groundbreaking invention, the "Tongue Controlled Wheelchair," impressed the judges and earned them a well-deserved cash prize of **Rs. 75,000**.



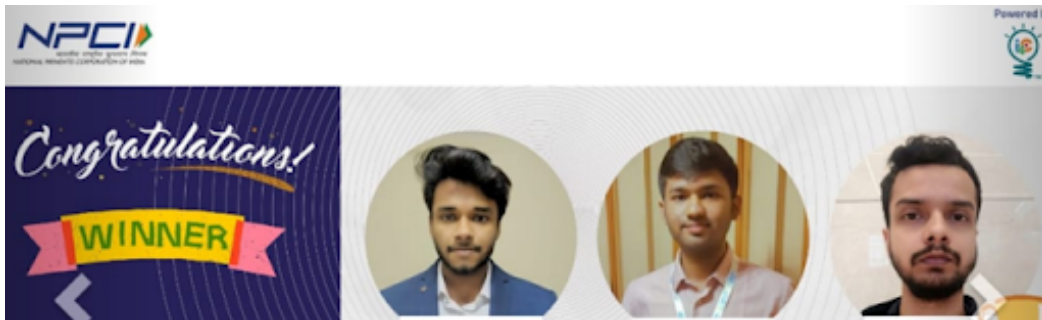
MSRIT National Level Project Competition (NLPC)

Ramaiah Institute of Technology hosted the National Level Project Competition (NLPC) on 20th April 2023, a highly anticipated event. BMSIT&M in the Finals, the project titled "DOSTBIN - home-based compost machine". It was awarded the second prize, an impressive Rs. 1 lakh in recognition of its innovative concept and execution. This remarkable accomplishment further highlighted BMSIT&M's commitment to nurturing talent and promoting impactful ideas.



NPCI (National Payments Corporation of India) Blockchain Hackathon

The NPCI (National Payments Corporation of India) Blockchain Hackathon, organized by the Inter-Institutional Inclusive Innovations Centre, witnessed a remarkable achievement by a team led by Mr. Divya Kalash (USN: 1BY19IS055) from the Department of Information Science and Engineering (ISE), 7th semester. Their outstanding proposal titled "Transparency in Carbon Credits by Automating Data Management Using Blockchain" secured the prestigious first prize, awarding them INR 15 lakh in February 2023.



SEEDBRAINS 2.0 - Innovation Award for Dostbin-Home Based Compost Machine

The Seed brains 2.0 event, organized by Cambridge Institute of Technology, created a dynamic platform for young innovators and entrepreneurs to demonstrate their ideas and compete for the prestigious top prize. Dostbin team, took part in Seedbrains 2.0 and achieved a remarkable feat by securing the first-place position, which came with a coveted cash award of Rs. 50,000. Throughout the two-day event, they passionately presented the innovative project to the jury, who duly acknowledged the team's exceptional potential and relentless hard work.



State level project exhibition at VTU Educational conclave 2022

A project titled, "Autonomous underwater vehicle for seafloor mapping", won first place in Anveshana - Idea competition organised by Innovation Centre, BMSIT&M which also secured a cash prize of Rs. 50,000/-



YUKTI Innovation Challenge 2023

YUKTI Innovation Repository serves as a platform for registering and evaluating student projects for various competitions. Through the Innovation Centre, an internal expert committee reviews and scores the registered projects. As part of the YUKTI Innovation Challenge 2023, 10 exceptional projects were selected and nominated.

Faculty- driven product-oriented projects

Faculty-driven product-oriented projects were Bi-annual events by the Innovation Centre. This was the 2nd bi-annual presentation which was held on 17.01.2023. The 1st bi-annual presentation was held on 17.05.2022 and the first phase of funds (among three phases 30%, 30%, 40%) were released for three projects. About six faculty teams presented the projects where two teams were approved for the second phase of funding and two new teams for the first phase of fundi-



AICTE IDE -Innovation, Design and Entrepreneurship boot camp

Three teams from BMSIT&M have qualified for the Innovation, Design and Entrepreneurship boot camp at NITTR Chennai and Indian Institute of Technology, GUWAHATI which is scheduled from 22nd-26th June 2023.

- 1.Prajwal V Dev and Manoj G -Team Name- BAGUSK
- 2.Tejas Mutalik Desai and Siddarth Ashok Kumar – Team Name- Team IOT-Onco
- 3.Lokesh E and Jitendriyadeep- Team Name - CODE_18, DELOAI



International Innovation Festival

Two teams from BMSIT&M have qualified for the Global Innovation Competition at CAPE Institute of Technology

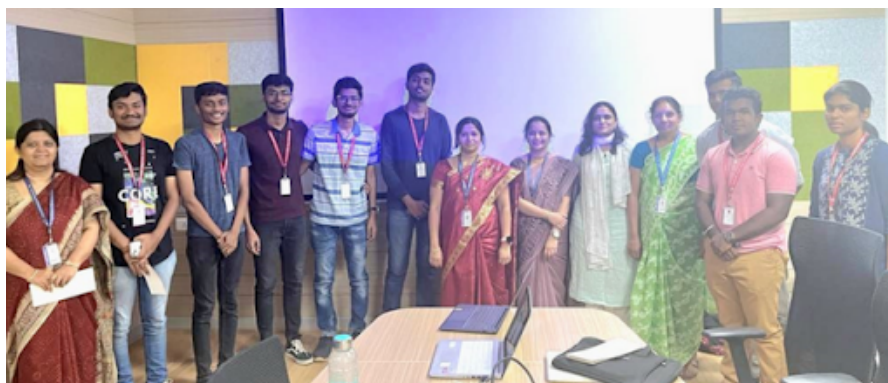
1. Venkatesh R, Shumail Ali Khan and Narasimha Murthy, ETE Dept - DostBin.
2. Prajwal V Dev and Manoj G, Civil Dept -Team Name - BAGUSK



These teams were partially funded by BICEP to attend the bootcamp offered by MoE at various locations in India.

Promoting Innovative Competitions

The institute facilitates students to participate in various competitions by providing registration fees for competitions like the National Level Project Competition (NLPC) at MSRIT, and the MANTHAN-Business Plan Competition. One project from each department is selected internally and nominated to participate in such competitions. About 8 projects were funded for MSRIT - NLPC and 3 business ideas were registered for MANTHAN Business Plan Competition.



KAVACH 2023 Cyber Security Hackathon

This hackathon has 20 Problem statements related to the cyber security domain against which the innovative minds will be able to submit their ideas and compete against each other. Four teams from CSE and ISE were shortlisted for the participation in the competition.

Projects with Professors

The "Projects with Professors" program aims to foster collaboration between students and faculty members, providing students with the opportunity to work on real-world projects under the guidance of experienced professors. The first session successfully introduced the program and generated interest among students for future project engagements. These sessions held in January and February, 2023 with Dr. Suresh Kumar, Chem Dept, Dr. Shobha M, ISE Dept and Dr. Ravichandra K R, Mechanical Engg Dept.

Intra-Institutional Internship by Innovation Centre

The course was designed to learn on how to choose a problem and approach to work on it, proof of concept, Idea validation, prototype validation, market research, product life cycle and the challenges in levels of TRL, MRL, IRL on the first week. About 16 students participated in the Module 1 internship on Innovation.



National Start-up Day

National Start-up Reverse Pitchfest was held on National Start-up Day on 24th February 2023. About 40 teams of about 120 students participated in this full day event. The event was jointly organized by CoCreate and IIC, BMSIT&M.



MSME Hackathon

BMSIT&M has been the Hosting Institute/Business Incubator (HI/BI) since August 2019. BICEP received 5 external ideas during December 2022 to incubate at BICEP, BMSIT&M. Also, MSME hackathon was held online on 21st December 2022. The Ideas undergo three levels of evaluation process which are to be funded under MSME's grants up to 15 lakh rupees. The applicants who chose BMSIT&M as the Hosting Institution (HI) were Rakesh Rathnakar Theertha, Oodles AI Platform, Sandhya Gururaj Sagar, Automation Embedded Training Centre, DARSHAN R, BUILDERS POINT, Jyotsna Rajsekar Belliappa, BLUESKY SUSTAINABLE, and Gopal Narayanappa, Tevah Solutions - Automation for Robotic Technology were the applicants.

Meeting with I2g Global Entrepreneurs Private Limited

Mr. Shashidhar and Mr. Kiran Rudrappa from I2g Global Entrepreneurs Private Limited, engaged in a discussion on 16th December 2022 about the reasons why students tend to overlook entrepreneurship as a career choice. It was highlighted that even entrepreneurs have opportunities for closure through merger and acquisition.



Industry visit to CMTI-Central Manufacturing Technology Institute and NID-National Institute of Design

CMTI hosted Drishti (Design, Research and Innovation by Harvesting Science and Technology for Industries) an online platform developed by CMTI that provides a synergy between industries and young innovators to solve complex challenges. The event was from 6th June to 8th June 2022. Ms. Shama H M, Innovation Centre in charge along with 10 first year students visited CMTI and NID on 7th and 8th June 2022. Dr. Seema Singh, Dean External Relations visited CMTI campus on 8th June 2022.



EXTERNAL EVENTS

CII Innoverge 2022 “Engineering Imagination

A three - day conference was for 3 days 25th, 26th, 27th August 2022 and was held in Taj, Westend. The principal, Dr. Sheela Kathavate, Ms. Shama H M, Dr. Usha, and Dr. Sudhamani M V were part of this conference. The conference offered a platform to interact with evangelists and entrepreneurs in various sectors. The panel discussion and the presentations on various areas and upcoming innovations in the field of engineering were the heart of this conference.



Bengaluru Tech Summit 2022

The 25th Bengaluru Tech Summit - 2022 was on the 16th and 17th of November which is India's flagship technology event and Asia's largest tech summit. Also, the students participated in the panel discussion and the presentations on various areas and upcoming innovations in the field of engineering.

Capacity Development Program

Prof. Madhu MC, the Chief Coordinator of the Innovation Cell at BMS Institute of Technology and Management (BMSIT&M), actively participated in a Capacity Development Program for College Principals. This program was conducted by The Institute for Academic Excellence (IAE) in collaboration with the Collegiate Education & Technical Education Department of the Government of Telangana and JNTU, Hyderabad. The program was held on 29th April 2023.

EXPERT TALK: Schemes of NSIC & National SC-ST Hub

On 3rd February 2023, an invited talk on "Schemes of NSIC & National SC-ST Hub" took place, featuring Mrs. Kokila, Branch Head of the National SC-ST HUB at The National Small Industries Corporation Limited, as the distinguished speaker. Coordinated by Prof. Bharathi R, Prof. Archana K, and Dr. Seema Singh, the event aimed to introduce first-year students to the available funding opportunities under Micro, Small, and Medium Enterprises (MSME, GOI) and NSIC.



Achieving problem-solution fit and product-market fit

An interactive session on “Achieving problem-solution fit and product-market fit” was held on the 17th of February 2023 with Ms. Ojal Kulkarni, Senior NKAM and the brand custodian of Britannia. The session was coordinated by Ms. Shama H M and Dr. Seema Singh. The session included the participation of 49 students with discussions on various factors involved in marketing the product.



Business Model Canvas

Mr. Sriharsha Sriram conducted a two-hour session, where he shared insights on the nine attributes of the Business Model Canvas. He presented the BMC incorporating nine attributes. Furthermore, he discussed business scenarios and applications specific to various industries. Approximately 25 individuals participated in this interactive session, which concluded with a Q&A segment.



Prototype Validation: Converting prototype into a start-up.

Mr. Sreeram Anvesh, Director at Brik oven Pvt. Ltd. was the expert for the session on 29th July 2022. It was coordinated by Ms. Shama H M, Dr. Sheela Kathavate and Dr. Seema Singh. Mrs. Sridevi and Mrs. Bharathi R participated in the session. About 30 students participated and discussed with the speaker.



Building an Innovation/ Product fit for market

Mr. Jawed Raza, Director at Aribizz Solutions was the keynote speaker for the session on 28th July, 2022. The session was coordinated by Mrs. Bharathi R, Dr. Sheela Kathavate and Dr. Seema Singh. About 60 students participated and discussed with the speaker.

Brainstorming on Zero Waste 2022

A brainstorming session on waste management was held on 22nd June 2022 at the Innovation Centre at 2:30 PM. About 10 students participated and attended the quiz. Students presented the ideas of waste management and the engineering solutions to tackle them. Dr. Seema Singh, Dr. Sheela Kathavate, Dr. Anup Ekbote, Dr. Bharathi Malakareddy, Mr. Jagadish and Ms. Shama H M were part of the session.



Students' Entrepreneurial Journey

An Interactive session was convened by Dr. Seema Singh, Dean External Relations and Ms. Shama H M, Innovation Centre in-charge. About 22 students participated at the session. In continuation with the previous session, Dr. Seema proposed the area and problem statements which were open to students to pick and start work. Ms. Shama H M explained the basics of the areas like IOT, micro-controller, web development and app development and their applications. Dr. Seema and Ms. Shama reviewed the students' ideas for Smart India Hackathon 2022.



CO-CREATE Student Entrepreneurship Panel discussion and Roadshow

The Student Entrepreneur Roadshow, organized by Cocreate, took place on January 13, 2023, at BMSIT&M campus. The event aimed to connect student entrepreneurs supported by CoCreate with students and faculty members from various disciplines. With over 125 students in attendance, the panel featured ten entrepreneurs representing different start-ups.



Start-up Premier League

A college-wide event, the 'Start-up Premier League' was organized by the 'Entrepreneurship Development Cell (EDC) of BMSIT&M' in collaboration with E-cell of RVCE, to help the future entrepreneurs of the campus to enhance their skills and expand their vision as realistic entrepreneurs. The event took place on 31st May 2022 and included the participation of 98 students in multiple groups.



"Engineering is quite different from science. Scientists try to understand nature. Engineers try to make things that do not exist in nature.

Engineers stress invention."

- **Yuan-Cheng Fung**

OPEN DAY: PROJECT BASED LEARNING

BMS INSTITUTE OF TECHNOLOGY & MANAGEMENT, Avalahalli, Yelahanka, Bengaluru organized Open Day on 08.07.2023 to exhibit the PBL project work carried out by the students of the VI semester.

Project-based Learning is incorporated for the subjects which lack the blended mode of implementation through the Curriculum prescribed by the University. Subsequently, an analysis was carried out based on the curricular course components to mitigate the gaps. Students were asked to form a team of 2-4 members and pursue the real-world problems as far as possible to gain insight into project implementation.

Institute level there were 248 teams from the VI semester who participated in the review and evaluation process. All the faculty members have participated in mentoring the Teams and Internal evaluation process on various rubrics. The shortlisted projects were demonstrated on Open Day and were evaluated by the external Jury.

The top 3 projects from each of 6th Semesters competed for a cash prize of Rs. 5000. Few glimpses of the event are as follows:



PBL project exhibition was held on 13.1.2023. A total of 464 projects were exhibited by third and fifth semester students. Industry experts were invited for evaluating the projects and the cash prizes were distributed to the best projects from each department.

PBL projects are mapped to the following POs.

PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
	✓	✓	✓	✓	✓			✓	✓	✓	✓



TECH-TRANSFORM R-EVOLVE

The annual technical festival, **Tech transform** was launched on **22nd November, 2 PM** by Sri Aviram Sharma, Trustee BMSET and Chairman BMSIT&M, Sri Ravi Venkatesam, Trustee BMSET and Chairman BMSSA and Dr. Mohan Babu G N, Principal. Dr Seema Singh, Chief coordinator of Techtransform along with core team member, Dr Shobha Rani was present along with faculty and students. The drone show was followed by video launch of the event.



TECH-TRANSFORM INAUGURATION:



Dr. Ananda Lakshmanan, Founder of Sirpi Products and Services inaugurated the 2-day Tech Festival - Tech Transform - 2022 at BMSIT&M on 25th November, 10 AM. He said that technology should be used effectively for the development of the country. He also said that most of the internet-based companies are relying on data science technology, due to which students are getting good opportunities in data science department these days. BMSITM Chairman, Sri Aviram Sharma spoke about the benefits of Tech Utsav. Principal, Dr. Mohan Babu G.N. talked about the progress of technological and industrial sectors which plays an important role in the development of any country. Students should focus on developing research, industry, and technology domestically, he said. Tech Transform run by BMSIT is a platform to showcase the technological progress of students. He said that it is a happy thing that not only the students but also the surrounding school children come and see the benefits of this. ISRO Scientist H L Srinivasa gave a brief introduction to the students about the many achievements of

ISRO. Vice Principal, Dr. Govindaraju HK was present to grace the occasion. Dr. Seema Singh, Dean of external relations and coordinator of Techtransform briefed about the highlights of the program like “Space on Wheels” by ISRO and IAF bus for giving insights to air force pilot’s experiences during the Techtransform function.

All UG departments celebrated their respective annual Techfest on 25th and 26th of November as a part of Techtransform.

- TRANSCENDENCE - Artificial Intelligence & Machine Learning (AI&ML)
- VISTARA - Information Science and Engineering (ISE)
- ANKURAM - Computer Science and Engineering (CSE)
- TECHRUTHI 6. O - Electronics and Telecommunications Engineering (ETE)
- VIDYUT - Electrical and Electronics Engineering (EEE)
- MECHATRON - Mechanical Engineering (ME)
- ELECSIM - Electronics and Communication Engineering (ECE)
- CINNOVIL - Civil engineering (CV)

Day – 2: Panel Discussion on Technological progress vs sustainable ecological system

A very important topic was discussed with esteemed panel members which was moderated by Dr Mohan Babu G N, Principal. The panel list included Mr. Rajgopal, Chief Executive Officer, Fidrox Technologies Pvt Ltd, Mr. Arunkumar Jayadevaiah, Engineering Consultant and Skill Development Trainer at LG Square Designers & Construction ,V.A.V Associates and Champion Infratech and Mr. A.C.N. Murthy. Mr Murthy is also the founder and president of rotary club of Vidyaranyapura, Bengaluru, served as director of the international service, Honoray director of Czech business incubator, Bangalore, and secretary of India - Srilanka inter-country friendship committee. Our faculty and active environmentalist, Dr Rajesh Gopinath, Civil department graced the event by contributing as one of the panel members. The faculty and students took aactive part in the panel discussion.



BMSIT&M CAMPUS



Courses offered in BMSIT&M

UNDERGRADUATE PROGRAMMES

1. B.E. in Electronics and Communication Engineering
2. B.E. in Computer Science Engineering
3. B.E. in Information Science Engineering
4. B.E. in Mechanical Engineering
5. B.E. in Electrical and Electronics Engineering
6. B.E. in Electronics and Telecommunication Engineering
7. B.E. in Civil Engineering
8. B.E. in Artificial Intelligence and Machine Learning
9. B.E. in Computer science and Business Systems

POSTGRADUATE PROGRAMMES

1. Masters of Computer Applications (MCA)
2. M.Tech in Cyber Security
3. M.Tech in Computer Science Engineering
4. Masters of Business Administration (MBA)

RESEARCH PROGRAMMES

1. M.Sc.(Engg.) By Research
2. Doctor of Philosophy (Ph. D)



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