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Journal Publications

- "Multi-Modality Feature Learning Environment For Person Authentication Using Hand geometry" Journal of Environmental Protection and Ecology Volume 26 Issue 4, Pages 1340 - 1350 ISSN:1311-5065 Publisher Scientific Bulgarian Communications, 14-10-2025.
- "Federated Learning-Based Privacy-Preserving Data Sharing System for Cloud Platforms" IEEE Digital Explorer 2025 2nd International Conference on Artificial Intelligence and Knowledge Discovery in Concurrent Engineering (ICECONF).09-10-2025.
- "Implementing Thread Detection System In Corporate Networks" The Patent Office Journal No. 27/2025 Application No.202521057324 A Publication Date : 04/07/2025.
- Biometric identification for a secured environment using AI-based facial recognition, Page: 185-190, DOI: <https://doi.org/10.18280/ijssse.140118> 29-02-2024
- Iris Recognition Approach for Preserving Privacy in Cloud Computing in International Journal of Online biomedical Engineering (IJOE), Nov 2023
- "Smart Recommendation for Unanimous People" SSRG International Journal of Computer Science and Engineering July 2023
- "Predictive Lead Scoring Engine Using Machine Learning" in UGC-care-group-II-Journal- Wutan Huatan Jisuan Jishu, June 2023
- "Investigation of Layerwise Feature Analysis for Backdoor Attacks Detection in Deep Neural Networks" in IJARCE, Aug-2023
- Emerging security solutions in Transportation systems in International Journal of Research in Engineering and Science (IJRES) , November 2023.
- Multimodal Biometric-Based Secured Access Mechanism for Wireless Sensor Networks" In International Journal of Online & Biomedical Engineering, Vol.8, Issue 9, p86-99. 14p.1-9-2022, Q3 Journal, Scopus, WoS
- "Survey Paper On Current Blockchain Solutions For Secure bank Transactions", International Journal Of Advanced Research (IJAR), May 2020.
- "Survey on current block-chain methods for anonymous reporting and Incentive Rewarding", Wutan Huatan Jisuan Jishu Journal, May 2020.
- "Recommendation of sensor based smart dustbins using IOT" International Journal of recent trends in engineering & research (IJRTER) May 2020.
- "Security Issues Faced By Internet Of Things: A Survey", International Journal of Recent Engineering Science (IJRES), Volume 7 Issue 3 May 2020.
- "Machine Learning For Handwriting Recognition" International Journal of Computer (IJC), ISSN 2307-4523, Global Society of Scientific Research and Researchers, June2020.

- “Implementation of DSL for web scraping”, International Journal of recent trends in engineering & research(IJRTER), May 2020.
- “An Insight on Understanding Entrepreneurship Through an Activity Based Learning Approach”, Journal of Engineering Education Transformations, Volume 31, No. 3, ISSN 2349-2473, eISSN 2394-1707, January 2018.
- “Biometric security in Wireless Sensor Networks: Issues and Challenges”, SSRN Electronic Journal, January 2018. DOI: 10.2139/ssrn.3280783.
- "ENHANCING SECURITY USING KEYSTROKE DYNAMICS" International Journal of Engineering Applied Sciences and Technology, 2019 Vol. 4, Issue 3, ISSN No. 2455-2143, Pages 213-225 Published Online July 2019 in IJEAST, (<http://www.ijeast.com>)
- “Privacy Preserving Data Access to Cloud”, ‘International Journal of Innovative Technology and Exploring Engineering (IJITEE)’, ISSN: 2278–3075 (Online), Volume-8 Issue-9, July 2019, Page No.:2612-2617.
- “Efficient Power Consumption in Clustering the MANET” COMMUNICATIONS INDEPENDABILITY AND QUALITY MANAGEMENT, An International Journal, CDQM, Volume 16, Number 1, 2013, pp. 31-39 UDC 654.16:004.78]:621.3.016.2, ISBN:8184872712 9788184872712.

Papers Presented In Conferences

- Blockchain for Finances in India” 3rd International conference on Innovative Data Communication Technologies and Applications (ICIDCA), Aug 2021
- “Recommendation of Multimodal User Authentication for Wireless Sensor Networks” , International Conference on Wireless Communications Signal Processing and Networking–WiSPNET 2019 held at SSN College of Engineering, Chennai, India during 21- 23 March 2019.
- “Facial Expression classifier using better technique: Fisherface Algorithm” 7th International Conference on Advance in Computing Communications and Informatics – IEEE Conference -ICACCI'18.
- “Predicting Customers Churn Methods using data Analytics for Telecom Industry” Second International Conference on Green Computing and Internet of Things- IGCLOT – 2018.
- Selection and Extraction of Optimized Feature Set from “Finger Print Biometrics – A Review”, Second International Conference on Green Computing and Internet of Things-IGCIOT – 2018.
- “An Insight on Understanding Entrepreneurship Through an Activity Based Learning Approach” Journal of Engineering Education Transformations , Volume 31 , No. 3, January 2018, ISSN 2349-2473, eISSN 2394-1707.
- “Homecare and assistance of activities for the elderly”, National conference on sustainable engineering and management”, 26th to 27th May 2017, at oxford college of engineering, Bengaluru.
- “Hybrid security approach for multilevel security in data communication”, National conference on VLSI, communication and signal processing-2017(NCVCS-17)- 16th-

17th May 2017.

- “Efficient Low Power Clustering for Mobile Adhoc Networks”, International Conference on Future Computing ICFC – December, 2012, RVCE, Bangalore.

Blended Learning and MOOC Certifications

- Nptel-Elite certification for the course “Introduction to Internet of Things”- Online course IIT, Kharagpur- Ministry of HRD, Govt. of India- July –oct-2018.
- Nptel- certification for the course “Joy of computing Online course, IIT, Madras- Ministry of HRD, Govt. of India- Jan –Apr 2019.
 - Nptel- certification for the course Computer Networks and Internet Protocol” Online course IIT, Kharagpur- Ministry of HRD, Govt. of India- Jan- Apr 2020
- Nptel- certification for the course “Object Oriented System Development Using UML, Java And Patterns” Online course IIT, Madras- Ministry of HRD, Govt. of India - Jan – Apr 2023

Collaboration with Talent Micro Innovations, 2019

- Couple of hands-on sessions/workshops conducted since Feb 2019
- Consultancy/ Project Proposals is goal set as part of MoU signed June 2019
- Engineers Without Borders - Bangalore, Student Chapter, BMSCE Faculty Coordinator, 2017
- Student members currently working towards the Blood Donation App, Government Schools initiative for Library Management App projects.
- The abstracts submitted are Medical Emergency App and Education and Welfare Schemes Awareness App.
- “E-Ticketing for transport system” secured First Place in the Innovative Idea Contest organized by EWB-Bengaluru, 2016.
- Five days FDP “Data Science and Communication Networks” was conducted during Jan 2, 2018 to Jan 6, 2018 in collaboration with EWB-B. The EWB-B professional members were active resource persons for few of the sessions held.

TEACHING

Core Courses

- Software Engineering
- System Software
- Object Oriented Modeling and Design
- Operating System
- Cyber Laws and IT protection
- Logic Design
- System Software
- Object Oriented Analysis & Modeling
- Decision Support Systems
- Software Testing
- Management Information Systems
- Information Systems

- Principles of programming Languages
- Computer Networks
- Database Management Systems
- Storage Area Networks
- Data Structures
- Entrepreneurship and Management
- Software Project Management & Finance
- Programming languages
- Programming with C
- Object Oriented Programming with C++
- C#.NET
- UNIX System Programming

WORKSHOPS/FDP/SEMINARS/GUEST-LECTURE/INDUSTRIAL-VISIT ORGANISED

- Industrial visit to CISCO for Pre-placement talk on June 21st 2024: Address: SEZ Unit, Cessna Business Park, Kadubeesanahalli Village, Hobli, Sarjapur, Varthur Rd, Marathahalli, Bengaluru, Karnataka 560103
- Organized and coordinated “One day hands-on workshop on “DIGIDOC” on 9th march 2023 for Technical and non-teaching staffs of BMSCE.
- Coordinated Guest Lecture on “Introduction and talk about Continuous Integration & Delivery” by Kausthub Narayan , Atlassian Inc (BMSCE Alumnus) on 11th Feb 2020 for 6th semester students.
- Coordinated an Extended Lecture on “Mathematical approaches to Data Science” -Mr. Adithay Tygarajan, from Colorado University of Boulders, United States for 4th semester students on 27th February, 2019.
- Organized an Extended Lecture on “Android Applications” by Mr. Chirag Shenoy, Alumni BMSCE, from Sharechat for students of 4th semester on 16th February, 2019.
- Guest Lecture on “DESIGN THINKING MEETS AGILE” MR. Nagendra, Co-founder & Principal Advisor from Skill Velocity. And Director of Software Engineering, Honeywell addressed 4th and 6th semester students on 22nd February 2019.
- Workshop on “Docker Containers and Virtual Machines” by Mr. Ganesh B G, Alumni of BMSCE, MS (University Of Colorado Boulder), Software Developer – 2 at Oracle Cloud on February 9, 2019
- Organized Workshop on “HAAR CASCADE for Image processing using Python” by Shashank Narayan, Solution Architect, Akamai Solutions for students of 4th semester on 2nd March,2019.
- Workshop on “Career Planning in New Age Technologies” on 16th and 23rd February 2019 for 4th semester students by H V Janardhana, Director, TalentMicro Innovations.
- Hands-on session for second year students on a “Lucene based search-engine called Elastic search” by our own alumnus Kausthub Naarayan B working for Atlassian, Software Company on 24th March 2019.
- Organized an Extension Lecture on Employees First & Customers Second “(MAD) By HCL Mrs. ReshmaSahu for 6th semester CSE and ISE on 7-3-2013.
- Extension Lecture on “Indian Cyber Law” by Na. Vijayashankar” for 8th semester students CSE and ISE on 14-3-2013.
- Workshop on “git- compilation” by Shantanu , Krishna Bharadwaj, Vinay .S.R, Deepak Mittal At ISE lab on 23-3-13 for 6thsem and 4thsem ISE students.

- Coordinated a Guest Lecture on “Role of Engineering Students in Nation Building” by V. Dillibabu on March 10, 2016.
- Guest Lecture on “HOW TO BUILD PROFESSIONAL PROFILE USING GITHUB AND LINKEDIN” by Sandesh K S. alumni (ISE) from HPE, Software Engineer on November 9, 2016.
- Industrial visit to BSNL Network Operation Centre on 3rd April 2019 Venue: BSNL East Telephone Exchange, Frazer Town, Bangalore.

FDP/SEMINARS/WORKSHOPS ATTENDED

- Dealing with Sexual harassment at workplace, prevention, prohibition and redressal by CICC, Oct 2023.
- Two week online FDP on “Research, Publication & Funding” conducted by Department of Management Studies & Research Center, BMSCE from 8th June to 19th June, 2020.
- TEQIP-NPIU-Two week course on “Digital Transformation in teaching Learning Process” from April 6th to 22nd April 2020.
- Attended WORKSHOP (BOOT CAMP) ON IOT and DATA ANALYTICS At BMSCE, organized by ECE, CSE & ISE from 8th - 9th February 2019.
- TEQIP–III Sponsored FDP on “Linux Programming”, from 15th to 19th July, 2019, Organized by Dept. of ISE, E&C, BMSCE, CS & IT, MJPRU, Bareilly.
- TEQIP–III Sponsored one week FDP on “Practical Approaches for Engineering courses from Industry Perspective”, from 22nd to 26th July, 2019, Organized by Dept. of ISE, E&C, BMSCE, Dept. of CSE, MJPRU, Bareilly.
- FDP on Joy of Computing, Jan – Apr 2019 (12 weeks MOOC) NPTEL, IIT Madras (1 ½ week).
- FDP on Introduction to Internet of Things, July – Oct 2018 (12 Weeks MOOC) NPTEL Kharagpur.
- Participated in the FDP on latest research trends in IT industry at Dr. AIT on 10th Feb 2018.
- TEQIP-III - FDP on Queuing Theory and Stochastic Process for advanced systems, BMSCE from 2nd -13th July 2018.
- TEQIP- III sponsored FDP on “Data Science & Communication Networks”- BMSCE from 2nd – 6th Jan 2018.
- FDP on “Big Data and Machine Learning” by ECE, ISE, BMSCE -11th – 15th June 2018.
- Two-days’ workshop on “Use of E-resources for teaching and Research” held at BMSCE during 4th and 5th May 2017.
- TEQIP-II workshop on Data Storage & Management (SAN) with Datalifecycle.com pvt Ltd., BMSCE from 11th and 12th Feb 2017.
- TEQIP-II One-week workshop on “Machine Learning, by BMSCE from 5th to 10th January 2017
- Participated in training programme on IPR for faculty of engineering organized by the National Law School of India University, Bangalore on 4th February 2016.
- Participated in the workshop on “Problem based learning” in ICTIEE 2015, BMSCE

- and Indo-US collaboration for engineering education – BMSCE on 6th Jan 2016.
- TEQIP-II one-week workshop on “Internet of Things: Sensors to cloud analytics”, RVCE from 18th to 23rd July 2016.
 - Participated in workshop on “Learning Platform for Better Outcomes” by ‘Inpods’ BMSCE on 5th January 2015.
 - Attended training workshop entitled “Ph.D Colloquium in IACC, 2015 organized by BMSCE and IEEE Bangalore section from June 12 to 13, 2015.
 - Participated in “Research quality through quality publications: Why? How? When? Workshop held at library auditorium, BMSCE on 30-10-2015 and 18-11-2015.
 - Participated in Three-day workshop on “Research Methodologies & Latex” organized by VTU e-learning center, Mysuru at AIT from 29th-31st July 2015.
 - Workshop on Mission10x Teaching Methodologies at BNMIT, ISTE, Wipro Bangalore from 19th – 23rd July 2010.
 - QIP- Staff Development Programme on “ Teaching-Learning Methods”, conducted by Govt. of India, EFDC- Basic Science Cluster, BMSCE, National Institute of Technical Teachers Training & Research, Bangalore from 2nd – 07th August 2010.
 - FDP on “ Mobile Application Development” by dept. of ISE, BMSCE- 01st August 2014
 - One-day workshop on “Identification of slow learners and performance enhancement”, BMSCE on 20th August 2013.
 - TEQIP –II sponsored Faculty Development Program on Advanced Digital Communication Concepts organized jointly by DTTC, BGTD, BSNL, Bangalore and DEPT. of TCE, BMSCE, Bangalore from 28th January – 2nd February 2013.
 - Workshop on “Information Security and Cyber Forensics for Technical Faculty Members” by KSEDCL, KEONICS CYBER LAB, Race Course Road, Bangalore from 6th -8th February 2013
 - Faculty Development Programme on “Cloud Computing” conducted by Tata Consultancy Services, TCS, Bangalore on 7th March 2013.
 - Two- Week ISTE Workshop on “Database Management Systems” conducted by Indian Institute of Technology Bombay ,IITB (MHRD)- BMSCE, Bangalore from 21st – 31st May 2013.
 - TEQIP-II sponsored One week Faculty Training program on “Signal Processing Using Matlab & Simulink” organized by Dept. of ECE, IIC, BMSCE & Solipsys Lab - BMSCE, Bangalore from 8th – 13th July 2013.
 - Three day workshop on “ Knowledge Management and Data Analysis for Real World Applications [KMDA-13]”, organized by CSE/ISE/ECE/IT, RVCE- RVCE, Bangalore from 22nd -24th July 2013.
 - FDP on “Innovation, Cloud Computing, Software Engineering & Project Management Topics” conducted by Tata Consultancy Services ,TCS, Abhilash Building, Bangalore- 29th – 30th August 2012.
 - National Level Workshop on “Mobile Development” conducted by Cambridge Institute of Technology”, ISTE, VTU, CiTech, Bangalore from 21st – 22nd February 2011.
 - Workshop on Software Tools, Techniques and practices for Engineers and scientist [STTPES] by IIT Bombay- FOSSEE Project, BMSCE, Bangalore from 10th – 17th June

2011.

- One day workshop on “Cloud Computing [CLOUDS-2011], ISE, BMSCE- Clouds – Lab, Melbourne University, Bangalore on 28th December 2011.
- Two day Engineering, Faculty Development Workshop on “Student –Teacher Relationship in the Changing World”, BMSCE, Bangalore from 8th-9th February 2010.
- Quality Improvement Programme-“Instructional Design & Delivery “Systems” pedagogical training sponsored by TEQIP at BMSCE, Bangalore from 16th - 21st February 2009.
- “Information on demand workshop 2009”, BMSCE, BITES, SPFU, Bangalore, 2009.
- One-Week AICTE-ISTE sponsored Short term program on “Biomedical Systems & Control” (AICTE/ISTE –Dept. of ME, BMSCE) , BMSCE, Bangalore from 25th - 31st March 2009.
- National Workshop on “Image Processing & Computer Vision”, DSCE, Bangalore from 16th -17th October 2008.

Membership or Fellowship of Professional / Academic bodies, societies

- ISTE [Lifetime Member]
- CSI [Lifetime Member]
- Engineers Without Borders
- Professional membership: Institute For Engineering Research and Publication(IFERP)