

Computer Science and Engineering- News Letter

January 2026

9th Jan, 2026:

Dr. Umadevi, Professor, Dept. of CSE served as resource person for a technical talk on “*Generative AI in Multimodal Medical Imaging*” at FDP on “Real-Time Digital Signal Processing and Generative AI in Multimodal Medical Imaging” organized by Department of ECE, ATME College of Engineering, Mysuru in association with IEEE Mysuru Subsection on 9th January, 2026.



16th Jan, 2026:

Dr. Rajeshwari B S and Dr. Namratha M along with UG students, Department of Computer Science Engineering published a paper titled “*A Novel Push Pull Optimization Algorithm Fostered Deadline Aware Task Scheduling in Virtualized Cloud Computing*” in Franklin Open (Science Direct) -Scopus Q3.

19th Jan,2026:

Department of Computer Science and Engineering and Department of Computer Science

and Engineering (IoT and CS) in collaboration with BMSCE IEEE Computer Society organized Hands-on Faculty Development Programme On “Cybersecurity, Ethical Hacking and Secure Systems” from 19th January, 2026 to 24th January, 2026 at Cyber Lab, 6th floor, PJA Block.



24th Jan, 2026:

Ph.D student Sudha B G (1BM16PEJ18) has completed for final Ph.D Viva-Vice exam, title “*Machine Learning Based Intelligent System For The Assessment Of Diabetic Foot Complications Using Thermography*” on 24th Jan, 2026 under the guidance of Dr. Umadevi V, Professor, Department of CSE.



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February 2026

19 Feb, 2026:

A MoU has been signed with Spiritual Applications Research Centre (SpARC) - A Research Wing of Rajyoga Education & Research Foundation (RERF), a sister organization of Prajapita Brahma Kumaris Ishwariya Vishwa Vidyalaya (PBKIVV), Mount Abu, on 19/2/26. The objectives of collaboration are providing spiritual guidance for students, teaching faculty and non-teaching staff, providing activity points to students and joint publications.



encouraged deep breathing and mindfulness. The overall message emphasized developing self-awareness and maintaining a balanced, positive mindset in daily life.



26 Feb, 2026:

As a part of Induction Program Phase II on 26th February, Sister B K Chaya of the Brahma Kumaris delivered a session that focused on the importance of inner peace and how meditation can help manage stress and improve concentration. She explained simple techniques to calm the mind and stay present in the moment. During the session, students participated in a short-guided activity that

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March 2026

2nd March, 2026:

The Department of CSE has organized an Industry visit to Aeronautical Development Agency, Bangalore for the 3rd year CSE and ISE students. Around 100 students participated in the program. The visit gave practical understanding of how computer science principles such as system architecture, real-time computing, and simulation technologies play a critical role in modern fighter aircraft development and got an opportunity to explore advanced flight simulators, which replicate cockpit controls and flight dynamics using sophisticated software models



7th March, 2026:

Samsung R&D Institute India, Bangalore (SRI-B) has launched the **Samsung Innovation Campus (SIC)** programme at B.M.S. College of Engineering, Bengaluru,

further strengthening Bengaluru's role as one of India's leading hubs for advanced technology talent.

Samsung Innovation Campus is Samsung's global CSR and skilling initiative designed to equip young learners with future-ready digital skills. Through specialised training in emerging technologies such as Artificial Intelligence (AI), Big Data and Internet of Things (IoT), the programme aims to bridge the gap between academic learning and industry requirements.

The event was graced by distinguished dignitaries including Sri. Sreevatsa D B, Vice-President – Platform Intelligence, SRI-B; Sri. Sriraman Prasad, Senior Director and Head of Tech Strategy and Customer Experience Team, SRI-B, ; Dr. Lokesh R. Boregowda, Senior Director – Advanced Research and Standards Team, SRI-B; and Dr. Balaji Rajendran, Associate Director at Centre for Development of Advanced Computing (C-DAC), Bengaluru.

The ceremony was also attended by Dr. Bheemsha Arya, Principal of BMS College of Engineering; Dr. L. Ravikumar, Vice Principal (Academics); and Dr. Kavitha Sooda, Head of the Department of Computer Science and Engineering, along with faculty members and students of all engineering branches. Aligned with the Government of India's Skill India and Digital India missions, the initiative aims to build a strong pipeline of AI and emerging technology talent while further reinforcing Bengaluru's position as India's innovation and technology capital.

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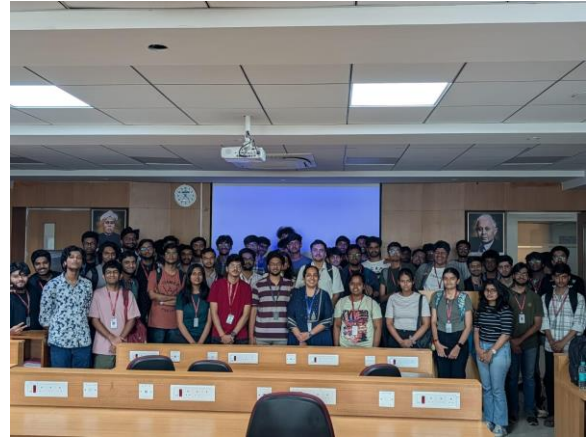
10th March, 2026

Dr. Shwetha K S, Assistant Professor, Department of CSE, BMSCE published an article titled: ***“Deep Learning applications in automated detection of plant diseases across diverse crops”*** in Journal of Integrated Science & Technology of Vol 14(4). Indexed in Scopus (Q1).

12th March, 2026:

Dr. Namratha M, Assistant Professor, Department of CSE, BMSCE was invited as a resource person for the workshop ***“Or(bit)2-code the Cosmos”*** conducted by

Singularity Club in association with BMSCE IEEE PELS.



13th March, 2026:

The Department of CSE organized a Technical Talk on ***“Latest Trends in Computer Architecture for AI and Compute Workloads”***. The talk was delivered by Mr. Akshay Katti, SOC Design Engineer at Intel USA and India. Around 124 students from the 4th Semester attended the talk.



13th March, 2026:

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The 3rd year students belonging to the CSE department along with other departments participated in CISCO Champion league Competition held in the CISCO campus.



13th March, 2026:

The Department of CSE is proud of the achievement of Ms. Shirin (1WN25CS233), a 2nd Semester CSE Student who represented India at the 56th Singapore National Aquatic Championship held during 13th to 15th March 2026 and Secured Silver Medal in 1500m Freestyle event.



14th March, 2026:

The Department of CSE is proud of the achievement of Mr. Kotagasti Mohammad Farhan (1BM23CS156), a student of 3rd who presented paper titled : *“Transcendental Algebraic Geometry, Transcendental Number Theory, and Tropical Geometry ”* At Dayanand Sagar College of Engineering, Bengaluru. He also received the Best Paper Award.



9th, 12th, 17th March 2026:

The Department of CSE organized a Technical Talk on *“HADOOP using Python”*, the talk was delivered by Mr. Sumukha, Graduate Software Engineer, Business Intelligence System. The talk introduced students to the fundamentals of Big Data and the Apache Hadoop ecosystem. Around 180 students from 3rd year attended the talk.

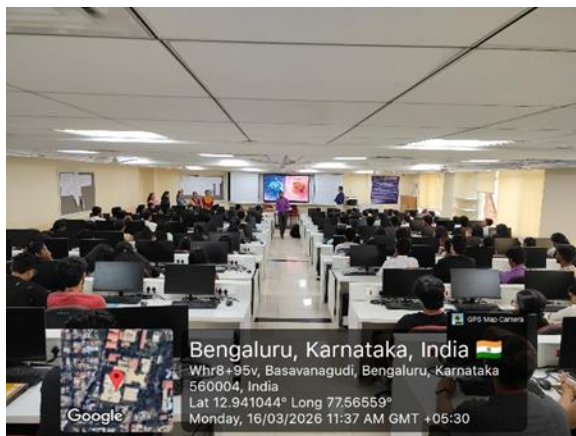
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16th March, 2026:

The Department of CSE organized an talk on “*Universal Human Values*”. It was delivered by Shri. Pradeep Nataraj, an Alumni of BMSCE and Shri. Pramod Nataraj. Around 116 students from 6th semester attended the talk.



24th March, 2026:

The Department of CSE organized a technical talk/session on “**Multimodal LLMs**”. Dr. Krishna Gurugubelli and M. Rahul Kumar, Senior Software Engineer,

SAMSUNG R&D delivered the session. Around 150 students attended the talk.



25th March, 2026:

The Department of CSE conveys its heartily congratulations to the following students who secured the prestigious Pragathi Scholarship.

- 1.Rakshitha E (1BM24CS235)
- 2.Charan C (1WN24CS069)
- 3.Vijayalaxmi (1BM25CS541)
- 4.Omkar Sadhasiv (1BM25CS489)



28th March, 2026:

Prof. Ramya K M, Assistant Professor, Department of CSE, BMSCE has presented a paper titled “*PrivIoT: A Lightweight Privacy-Driven Framework for Secure Data Sharing in Cloud-IoT Environments*” in “International Conference on Advanced

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Computing Systems and Intelligent Communication Engineering (ICACSICE)" organized by Sambhram Institute of Technology in collaboration with Scitepress

28th March, 2026:

The Department of CSE conveys its heartily congratulations to Ms. Angel Kumawat (1BM25CS041) and Ms. Sanvi Venkatesh (1BM24CS339) for securing 1st Place in the Eastern Dance Competition at Ragam 2026, held on 28th & 29th March at NIT Calicut. They were a part of the Samskruthi Sambhrama, BMSCE.



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April 2026

02-Apr-2026:

Dr. Naresh E, published an article titled “*A hybrid deep learning model for robust and efficient plant leaf disease detection using ResNet50, PCA, and SVM*” in Scientific Reports Journal.

<https://www.nature.com/articles/s41598-026-46085-w>

10th Apr, 2026:

Dr. Kavitha Sooda was invited as a Jury Member in the IEEE YESIST12 preliminary round organized by Manipal Institute of Technology Bengaluru on 10th April 2026. Her expertise and insightful evaluations added immense value to the competition, providing the participants with a unique opportunity to learn from a seasoned professional.



10th April, 2026

A group of 26 fourth-semester students visited the Product Development and Innovation Centre at Bharat Electronics Limited on 10/04/2026, accompanied by Prof. Prashant Koparde, Assistant Professor. The visit offered valuable insights into product design, embedded systems, and innovation in the defense electronics sector. Students also interacted with experts and observed advanced technologies, helping bridge the gap between theory and real-world applications.

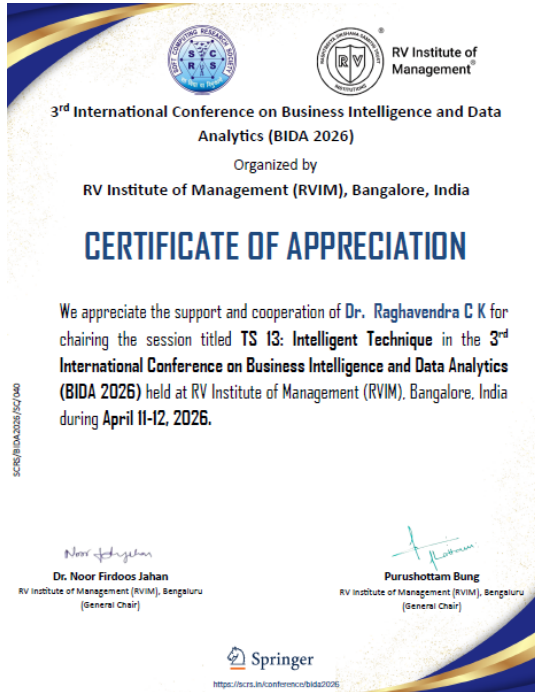


11th April, 2026:

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Dr. Raghavendra C K, Associate Professor, Department of Computer Science & Engineering, BMSCE was invited as a Session Chair for the 3rd International Conference on Business Intelligence and Data Analytics (BIDA 2026) at RV Institute of Management (RVIM), Bangalore, India.



14th April, 2026

Dr. Shwetha K S, Prof. Chaitra S P, Dr. C K Raghavendra from the Department of CSE, BMSCE published an article titled: “*Spatial structure based deep feature fusion network for autism spectrum disorder classification*” in Scientific Reports Journal.

<https://www.nature.com/articles/s41598-026-48562-8>

16th April, 2026:

Dr. Raghavendra C K, Associate Professor, Department of Computer Science & Engineering, BMSCE was invited as a Session Chair for the International Conference on Strategic Agility and Resilience (ICSAR 2026) at BNM Institute of Technology (BNMIT), Bangalore, India.



23rd Apr, 2026:

Dr. Selva kumar S was invited as an Academic Expert for the event "BOARD OF STUDIES MEETING 2026" organised on 23rd APRIL 2026 by the Department of Information Science and Engineering at Dayananda Sagar Academy of Technology and Management (DSATM), Bangalore.

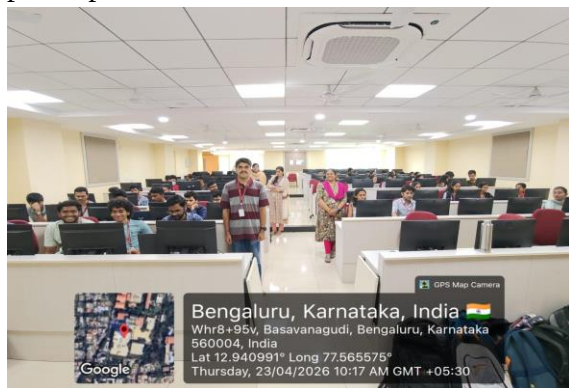


24th April 2026

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The Department of Computer Science and Engineering, BMSCE conducted a technical talk/ peer learning on “Practical Github” by Mr. Shashank Nayak for the students of 4th Semester, R Section. Around 65 students participated in the technical talk.



Dr. Seema Patil, Dr. Shobha T et al. "Sentinel AirNet: a deep learning-based framework for identifying air pollution sources in urban environments using sentinel-5P satellite imagery", The European Physical Journal Plus 141, 369 (2026). <https://doi.org/10.1140/epjp/s13360-026-07563-2>

27th to 30th April 2026

The Department of Computer Science and Engineering, BMSCE conducted an invited talk on “Harmonious Behavior” by Brahmakumari Sisters, Bengaluru for the students of 4th Semester, (A-V) Sections as a part of curriculum.



30th April, 2026

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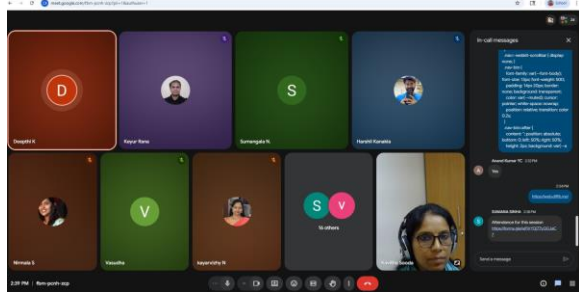
May 2026

2nd May 2026:

Dr. Namratha M, Assistant Professor, Department of CSE, BMSCE published a paper titled ***“Tangent Position-Aware Bundle Convolutional Neural Network-Based Prevention Algorithm for Block Withholding Attacks in Blockchain”*** in Transactions on Emerging Telecommunications Technologies, Wiley. (Web of Science-Q3, Scopus-Q1).
<https://doi.org/10.1002/ett.70415>

7th May 2026:

Dr Kavitha Sooda , Prof & HoD, Department of CSE, BMSCE delivered a session as a part of an FDP conducted by NITTE titled ***”From Large Language Models to Agentic AI: Trends, Challenges, and Emerging Tools for Engineering and Education.”***



9th May, 2026

Dr.Shwetha K S, et.al, from the Department of CSE, BMSCE published an article titled: ***“Efficient Lung Abnormality Detection Using Deep Convolutional Neural Networks”*** in SN Computer Science Journal.
<https://link.springer.com/article/10.1007/s42979-026-05025-1>

13th May, 2026:

Prof. Swathi Sridharan, Assistant Professor, Department of CSE, BMSCE was invited as a jury member for a technical event “Rebrand” as a part of Interact 2026 fest held by Global Academy of technology, Bengaluru



23rd May 2026:

The Department of CSE organized a Value Added Course (VAC) on the topic ***“Preparation for Placement”*** which was conducted on 23rd May 2026. The program aimed to enhance students’ employability and interview skills. The session covered aptitude, communication skills, resume building, and interview techniques. Students actively participated and gained valuable insights for campus placements.

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24th May 2026:

Prof. Rekha G S Assistant Professor, Department of CSE, BMSCE presented a paper titled ***“Dynamic Attention Mechanism for Enhanced Multimodal Sarcasm Detection”*** at 2nd Congress on Intelligent Machines and Algorithms (CIMA 2026) Organized by National Institute of Technology, Puducherry, India technically Sponsored by Soft Computing Research Society held on 23rd and 24th May 2026.

26th May ,2026

Prof. Shruthi K Assistant Professor, Department of CSE, BMSCE published a paper titled **"Plantar Pressure-Based Detection of Diabetes using a Hybrid CNN-MLP Model with Patient-Specific Metadata,"** 2026 13th International Conference on Computing for Sustainable Global Development (INDIACom), New Delhi, India, 2026, pp. 1-6, doi: 10.23919/INDIACom70271.2026.11526196

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JUNE 2026

1st June 2026:

Dr.Namratha and Dr.Chandrakala from the department of CSE are promoted as Associate Professor through CAS process.

Dr.Sreelatha from the department of CSE is promoted as Professor through CAS process.

Dr Shwetha P C from the department of CSE is appointed Associate Professor.

2nd June 2026:

Dr. Seema Patil, Dr. Shobha T, Prof. Swathi Sridharan, has received a design patent grant on “**AI based device for air quality monitoring and analysis**” on June 2, 2026, design number: 492952-001.

2nd June 2026:

Dr. Seema Patil has published a paper titled “**Dynamic Latency Optimization for Edge-Based Machine Learning Models in 6G-Enabled Industrial Internet of Things (IIoT)**” in *Acta Scientiae* ,Scopus(Q2) with ISSN: 1517-4492, 29(5), pp 95-102, May 2026

2nd June 2026:

Dr.Prameetha Pai has published a paper titled “**DLoG – automatic disc based laplacian of gaussian operator for carotid artery boundary extraction in ultrasound images**” in *Scientific reports* ,WOS(Q1) , Vol 16 19374 June 2026 ISSN :2045-2322

5th June 2026:

Prof. Anita Harish Kenchannavar has published a patent titled “**Smart Accident Detection and Emergency Response System Using ADAS**” on June 5, 2026, with Application No.202641067415 A.

17th June 2026:

The Department of Computer Science and Engineering organized a Faculty Development Workshop titled “**Curriculum Development under the GAPC 4.0 Framework**” on 17th June 2026. Speaker Prof. Sivakumar Velappan from NITTR, provided insight into the Course Design, Program Outcomes, Course Outcomes, and Assessment Mapping required for Curriculum Development. Around 76 Faculties attended the same.



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July 2026

1st July, 2026:

PG student Cherukupalli Yashwitha Reddy and CSE faculties- Dr. Seema Patil, Dr. Kavitha Sooda and Prof. Shravya A R has published a paper entitled “**Anticipating Norovirus Surges in Pediatric Daycare Centers: A Hybrid Prophet-LSTM-GRU Forecasting Approach**” in Procedia Computer Science, ISSN:1877-0509, volume 283 July 2026, pp:2834-2843, Elsevier publisher,
<https://doi.org/10.1016/j.procs.2026.06.352>

8th July, 2026:

Dr. Umadevi V, Professor, Department of CSE delivered a technical talk on “**Generative AI as an Engineering Research Assistant: Solving Real-World Industry Challenges**” at Five-Day Faculty Development Programme on “Generative AI for Innovative Research and Intelligent Problem Solving” organized by the Department of CSE, Ramaiah Institute of Technology (MSRIT), Bangalore on 8th July, 2026.



10th July, 2026:

Dr. Umadevi V, Professor, Department of CSE was the panelist on the topic “**Role of AI in Preventive Health and Wellness**” at HAI Conclave 2026, Bangalore on 10th July, 2026.



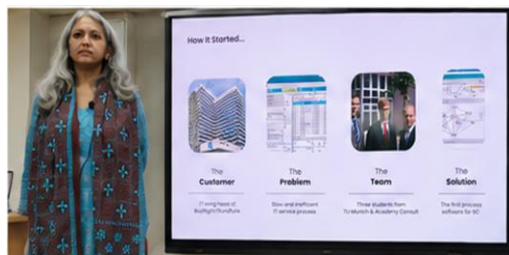
20th-25th July 2026

The Department of CSE organized a One-Week Faculty Development Programme (FDP) on “**Celonis Process Intelligence**” by ICT Academy. The session was delivered by

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Ms. Poornima Dhall, Entrepreneur, Optimist from Global Partnerships and Alliances. The event provided participants with the practical knowledge of process mining, process discovery, conformance checking, and process optimization using data-driven techniques to improve organizational efficiency. Around 32 faculty attended the same.



Contemporary Smart Grid Systems: Technologies, Applications, and Challenges
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Chapter 2: POWER, POLICY AND THE ART OF ALIGNMENT: GOVERNING GRID MODERNIZATION

POWER, POLICY AND THE ART OF ALIGNMENT: GOVERNING GRID MODERNIZATION

Abstract

Electric power systems worldwide are undergoing a profound transformation from centralized, fossil-fuel-based infrastructures to decentralized, digital, and intelligent networks. This transition is driven by rapid decarbonization, growing electrification of transport and heating, increasing penetration of distributed energy resources (DERs), and rising exposure to extreme weather events that expose the vulnerabilities of legacy grids. This chapter examines grid modernization through the combined lenses of policy and utility planning, arguing that technological advancement alone is insufficient without enabling regulatory and institutional frameworks. It presents the conceptual foundations of grid modernization, including smart

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28th July 2026:

Prof. Saritha A. N and Dr. Asha G. R along with UG student Mr. Pranav Srinivas, published a book chapter on **“Power, Policy and The Art of Alignment: Governing Grid Modernization”**. The publisher is IIP Series.