



# SJB Institute of Technology

(A Constituent Institution of BGS & SJB Group of Institution & Hospitals)  
No. 67, BGS Health & Education City, Dr. Vishnuvardhan Road, Kengeri, Bengaluru - 560 060

Approved by AICTE - New Delhi.

Affiliated to Visvesvaraya Technological University, Belagavi,

2(f) and 12(B) recognized by UGC, New Delhi.

Accredited by NAAC, Accredited by NBA. Certified by ISO 9001-2015



## Department of Computer Science & Engineering

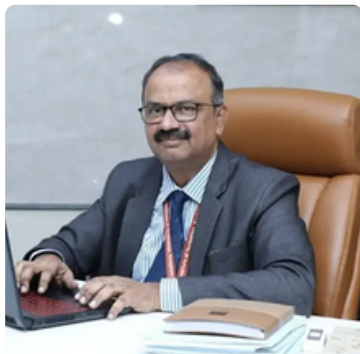
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SADHANA

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### About SJBIT

SJB Institute of Technology (SJBIT) was established in the year 2001 by Sri Adichunchanagiri Shikshana Trust® (SAST®) under the guidance of His Holiness Jagadguru Padma Bhushana Sri Sri Sri Dr. Balagangadharanatha Maha Swamiji. Presently the trust is being administered by Chief Pontiff, His Holiness, Sri Sri Sri Dr. Nirmalanandanatha Maha Swamiji. SJBIT is committed to personal, social, and intellectual



Dr. K. V. Mahendra Prashanth  
Principal,  
SJBIT

growth emphasizing a overarching educational programme leading to high academic standards with the leadership of Revered Sri Sri Sri Dr. Prakashanatha Swamiji, Managing Director, BGS Group of Institutions.

SJBIT was granted autonomous status by Visvesvaraya Technological University (VTU), Belagavi, Karnataka, effective from the academic year 2023-24. The institute is approved by the All India Council for Technical Education (AICTE), New Delhi, accredited by the National Assessment and Accreditation Council (NAAC), New Delhi, and holds an 'A+' grade accreditation from the National Board of Accreditation (NBA), New Delhi. SJBIT is also recognized by the University Grants Commission (UGC), New Delhi, with 2(f) and 12(B) certifications, and is certified by the International Organization for Standardization (ISO 9001-2015). Classrooms are equipped with advanced digital facilities, including LCD projectors and Apple iPads, and the campus provides 1 Gbps internet and Wi-Fi access. SJBIT fosters strong industry partnerships with leading companies such as Rexroth Bosch, National Instruments, Intel, and Toyota Kirloskar.

### Institution Vision

To become a recognized technical education center with a global perspective.

### Institution Mission

To provide learning opportunities that foster students' ethical values, intelligent development in science technology and social responsibility so that they become sensible and contributing members of the society.

### Core Values:

Humanity, Honesty, Integrity, Teamwork, Continuous Learning and Innovation



Dr. Krishna A N  
Professor and Head,  
Dept. Of CSE, SJBIT

### About the Department

The Department of Computer Science and Engineering at our university has a rich history, having been established in 2001 with an initial intake of 60 students, which was later expanded to 180 in 2011. The department offers a distinct and dynamic learning experience, supported by a team of highly qualified faculty members. We provide programs in B.E. in CSE as well as Ph.D. opportunities.

Within our department, we take pride in our devoted group comprising 3 seasoned professors, 1 adjunct professors, 7 associate professors, 22 assistant professors, and 12 technical staff. This team is unwaveringly dedicated to elevating the standard of education for both students and faculty members alike. Among these members, 11 hold doctoral degrees, and an additional 12 are actively pursuing their Ph.D. This collective commitment underscores our ongoing efforts to provide an enriched educational experience.

We take great pride in our state-of-the-art laboratories, equipped with the latest hardware and software tools, along with a comprehensive departmental library. This environment provides students with a unique opportunity to delve into exciting fields of study under the guidance of exceptional educators. It's worth noting that our department has earned recognition as a "Research Center" by VTU, and our track record includes the achievement of 6 gold medals and 21 ranks to date. Our faculty members are actively engaging in research, publishing in reputed journals, and contributing to innovative projects.

### Department Vision

To become a Centre of excellence producing "Creators of Innovative Technology" who can contribute positively to the ever changing industrial demands and societal needs.

### Department Mission

To encourage participation of faculty and students in research activities for enhancing their subject knowledge and acquire information regarding current trends To provide exposure to students on latest tools and technologies in area of Computer Science and Engineering Preparation of our graduates for leadership in profession and in higher education by providing excellent teaching learning environment enabling them to serve the society.



## Department Activities

### Empowering Through Education: Workshop Series

- A three-day workshop on "**Data Visualization Tools (Tableau and Power BI)**" was held on June 11, 13, and 14, 2024, the sessions, led by Prerana H, Senior Data Analyst at KIPI.BI, Bengaluru, saw 83 enthusiastic students diving into the world of data visualization.



- A one-week online FDP on "Computer Graphics and Image Processing" was held from April 22-27, 2024, led by Prerana H, Senior Data Analyst at KIPI.BI, Bengaluru, with 47 participants.
- From April 23-25, 2024, a three-day "Database Management System" workshop for technical staff was held. Expert insights were provided by Mr. M.S. Satyanarayana from Canopus GBS Pvt. Ltd., Bengaluru, along with contributions from SJBIT's CSE Department faculty: Dr. Bindiya M.K., Dr. Prakruthi M.K., and Anusha M.



### Enlightening Minds: Guest Lecture Series

- The Department of CSE hosted a guest lecture by Dr. Umashankar M L, Technical Lead at Wipro Ltd, on January 31, 2024. He shared insights on Agile Scrum Methodology, engaging 200 participants in project management practices.



- On February 23, 2024, the Department of CSE welcomed Mr. Naveen Mudunuru from Happiest Minds, who delivered an engaging lecture titled "Introduction to FOSS - Build Your Future with Free Software." His presentation captivated 198 participants, emphasizing the benefits and opportunities of Free and Open Source Software.



### Alumni Interactions

- On March 9, 2024, the CSE Department held an alumni session with Mr. Arun Channaraju (2016-2020 batch). He presented "Off-Campus Bonanza" to 8th-semester students, offering strategies for off-campus placements and industry navigation.



- The Department of Computer Science and Engineering organized an Alumni Interaction Session on 15th May 2024, featuring Mr. Akshy Adiga, an alumnus from the 2015-2019 batch. The session, tailored for 4th and 6th semester students, focused on Application Development.



### Aptitude and Technical Training Program

The Department of Computer Science and Engineering conducted an Aptitude and Technical Training Program on 26th June 2024, with enthusiastic participation from 4th and 6th semester students. The session focused on enhancing aptitude problem-solving skills, technical knowledge, and interview preparation strategies, aligning with industry requirements.



## Aptitude and Technical Training Program



### Celebration of Rama Lalla Pratistapana and Rama Navami

The Department of Computer Science and Engineering celebrated two auspicious events with great devotion and enthusiasm. On 22nd January 2024, the department marked the sacred occasion of Rama Lalla Pratistapana in Ayodhya with traditional rituals, prayers, and a vibrant cultural program. Continuing this devotion, the department celebrated Rama Navami on 18th April 2024, commemorating the birth of Lord Rama.



### A Visit to Open Day Event at IISc

On 25th February 2024, students visited the Indian Institute of Science (IISc) during its Open Day. The visit provided students with a unique opportunity to explore cutting-edge research exhibits, interact with experts, and gain insights into the latest advancements in science and technology.



## Project Exhibition Winners - 2024

### Project Exhibition

The Department of Computer Science and Engineering organized a Project Exhibition on 2nd May 2024 to showcase the innovative final-year projects developed by students. The event featured diverse projects across emerging domains, reflecting the creativity, technical expertise, and problem-solving abilities of our students.

Prize	Team Members	Project Title	Guide
I	Kushal P Pramod K Prashanth Preetham B	Early Stage Detection of Parkinson's Disease Using Machine Learning Techniques	Dr. Naveena C
II	Monik L Pavan S G R K Deekshith Laxminarayan	Real-Time Elderly Fall Detection as Ambient Intelligent in Old Age Homes	Mrs. Laxmi Shabadi
III	Vishwanath Shilpa S D Nisarga B K Sahana D	A Novel Approach to Track Individuals Using Deep Learning	Dr. Bindiya M K
IV	Keerthana M S Krishna Sekhar Deepthi K J Pratheek	DDoS Detection Using ML Methods	Dr. Veena H N
V	Vinay M V Suchith Kumar G M Shashidhar A S Sukanya Bakare	Restaurant Feasibility Study and Behavioral Based Restaurant Recommendation System	Dr. Prakruthi M K

### Farewell Ceremony

The Department of Computer Science and Engineering hosted a farewell ceremony for 8th-semester students on May 25, 2024. Dr. Krishna A N, Head of the Department, welcomed everyone, highlighting lifelong learning and ethics. Principal Dr. K.V. Mahendra Prashanth congratulated students and shared valuable advice. The event included performances, heartfelt speeches, and memorable moments, making it a special send-off.



### Career Insights

The placement season for the 2023-24 batch has been a significant milestone, highlighting the department's commitment to student success. Out of 174 students, an impressive 95 secured placements in reputed organizations, reflecting their hard work and perseverance. A total of 66 companies, spanning various industries and domains, participated in the recruitment process, offering diverse roles in software development, data analytics, cybersecurity, and more. The impressive placement statistics reflect the hard work and dedication of our students, supported by the relentless efforts of the faculty and the placement cell. This achievement underscores the department's commitment to shaping industry-ready professionals.

**"Success is where preparation and opportunity meet"**

- Bobby Unser

## Staff Publications

1. Dr. A. N. Krishna, Y. L. Chaitra, A. C. Atul, M. Bharadwaj, K. T. Abbas, Allen Abraham, Anirudh S. Prasad. "Real-time Machine Vision System for the Visually Impaired" SN Computer Science, Volume 5, Issue 4, PP. 1 - 9.
2. Dr. Bindiya M. K., Satvik Somvanshi, Shama S. Kolhar, Shreya Gupta, Shreyas Ramchandra Haladi. "Tracking the Expense using MERN Stack and Data Visualization" International Journal of Recent Engineering Research and Development (IJERD), Volume 9, Issue 3, PP. 78 - 83.
3. Dr. Bindiya M. K., Sathwika, Raksha, Sanjana, Sharanya. "Mental Health Tracker Using Data Science, AI, and ML" IJCRT, Volume 11, Issue 4, PP.653 - 658.
4. Dr. H. N. Veena, Kavita K. Patil, P. Vanajakshi, Anilkumar Ambore, Naveen Chandra Gowda. "An Enhanced RNN-LSTM Model for Fundus Image Classification to Diagnose Glaucoma" SN Computer Science, Volume 5, Issue 5, article number 514.
5. Dr. Bindiya M. K., Vishwanath, Sahana D., Nisarga B. K., Shilpa S. D. "A Novel Approach to Track Individuals Using Deep Learning" International Journal of Engineering Trends and Technology, Volume 70, Issue 4, PP. 12161 - 12166
6. Mrs. Anusha M., Prince Kumar, Sadhana Kumari, Mohd. Arsalan Lari, P. Sirisha. "PHISHNET: Multi-Algorithmic Safety Net for Advanced Phishing URL Detection" International Journal of Scientific Research in Engineering and Management, Volume 7, Issue 4, PP. 1 - 8.
7. Mrs. Anusha M., Manasa M., Punith H. N., Rahul V. Sanka, Sarath Kumar V. "Severity Detection of Diabetic Retinopathy Using Deep Learning Algorithm" International Journal of Scientific Research in Engineering and Management, Volume 7, Issue 5, PP. 1 - 22.
8. Dr. Roopa M. J., Neha Nagendrayya, Nithin G., Riya Nagori, S. Tejas, Dr. Umashankar M. L. "Cyberbullying Detection Using Machine Learning Techniques" International Journal of Research and Analytical Reviews (IJRAR.ORG), Volume 6, Issue 5, PP. 901-906.
9. Mrs. Kala Chandrashekhar, Alfiya Sama, Arushi Pundir, Ghazala Jamal, Harsh Ranjan. "A Heterogeneous EMR Sharing System Using Blockchain" International Journal of Recent Engineering Research and Development (IJERD), Volume 9, Issue 4, PP. 28-35.
10. Mrs. Vijayalakshmi B., Animesh Anand, Biswadeep Bhagat, Darshan Raje Urs, Harish Kumar K. "Facial Image Captioning Using DNN" International Journal of Scientific Research in Engineering and Management, Volume 7, Issue 5, PP. 1 - 4.
11. Akanksha R. Swamy, Arveti Akhila, B. Pooja, C. Vinaya Chowdary, Mrs. Kala Chandrashekhar. "Deep Learning-Based Classification of Cervical Cancer Variants" International Journal of Recent Engineering Research and Development (IJERD), Volume 9, Issue 4, PP. 50-58.
12. Dr. Roopa M. J., Manogna Ravikumar, Neha C., Nisarga C., Ridhi V. "Orthodontic Malocclusion Detection on Clinical Images Using ML Techniques" International Journal of Recent Engineering Research and Development (IJERD), Volume 9, Issue 5, PP. 77-84.
13. Mrs. Rajeshwari G. L., Rajath K. V., Manoj Kumar C., Manikanta S., Mohith Raj C. M. "Blockchain-Based Secure Voting System" International Journal of All Research Education & Scientific Methods, Volume 12, Issue 4, PP 19-24.
14. Mrs. Jyothi P. K., Vinayak Nagraj Shet, Vidyashree K. P., Usha C., Yojana. "Voice and Text-Based Communication Framework for Deaf, Dumb, and Normal People via Web-Based Video Calls" IJCRT, Volume 11, Issue 4, PP 854-857.
15. Naveen Chandra Gowda, Dr. Veena H. N., and D. Roja Ramani "Efficient Identification of DeepFake Images Using CNN" 2nd International Conference on Intelligent Data Communication Technologies and Internet of Things (IDCIoT-2024), IEEE.
16. Dr. Veena H. N., Rajani, Naveen Chandra Gowda, and D. Roja Ramani "Two-Stage Video Classification Approach Using Convolution Neural Network" 2nd International Conference on Intelligent Data Communication Technologies and Internet of Things (IDCIoT-2024), IEEE.
17. Dr. Mohan H. S., Dr. Rajesh L., and Dr. Bindiya "Hybrid Adam Coati Optimization with DLSTM for Biomedical Parameter Prediction Using Sensor" International Conference on Distributed Computing and Electrical Circuits and Electronics, IEEE.
18. Dr. Prakruthi M. K., Chaitra M., Shashidhar A. S., Suchith Kumar G. M., Sukanya Bakare, and Vinay M. V. "Restaurant Feasibility Study and Behavioral-Based Restaurant Recommendation" Intelligent and Innovative Technologies in Computing, Electrical and Electronics (IITCEE), International Conference, IEEE.

## Editorial Board

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