



SOMAIYA
VIDYAVIHAR

K J Somaiya Institute of Technology
An Autonomous Institute permanently affiliated to University of Mumbai

Department of Computer Engineering
Academic Year 2024-2025
Volume 1
"Abhiyanta" Newsletter



About Department:

The Computer Engineering department was established in the year 2001 to impart quality education. The department has well qualified and motivated faculty members and support staff. The laboratories are adequately equipped with state-of-the-art facilities. The students are members of various professional bodies like IET, CSI, IEEE, NSS etc. Various platforms are available for students, like project competition, technical & cultural festivals, international conference, etc. to showcase their talent. It is a regular practice of the department to organize industrial visits, expert talks, workshops and internship in addition to the latest certification courses for students in the field of Computer engineering. Student have won prizes in various national and international level paper presentation, competitions, project exhibition etc. As the department has good industry interaction and alumni support, students get several opportunities of internship, project guidance, placement and many more. The department is accredited by NBA in 2018 and intake has doubled to 120 from academic year 2019-20. Besides offering undergraduate (B. Tech. in Computer Engineering) it also offers Post Graduation (M.Tech.) in Artificial Intelligence. As the autonomous status is awarded by UGC from academic year 2021-22, curricula have revised for UG and PG programs by Board of Studies. Exposure courses like Skill based, Activity based and Technology based courses are added to motivate students to participate in various activities. Under Project Based Learning (PBL) mini, minor and major projects are introduced from sem III to Sem VIII which help students to work in a team and develop projects using latest technologies. The department has to its credits of maximum number of placements of the students in Infosys, TCS, Accenture, Cognizant, L&T Infotech, CSC, Tech Mahindra, Mastek, ICON, Majesco, MuSigma, BNP Paribas. Every year, few students opt for pursuing higher studies at prestigious universities in India and abroad.

Vision:

To be an excellent center of learning, imparting quality education and creating computer competent professionals to serve the society at large.

Mission:

- To provide quality education required to shape skilled computer engineers.
- To promote scientific temper and research culture through interdisciplinary and industrial collaboration.
- To prepare industry ready professionals, advance studies learners and entrepreneurs, having ethical values and social commitment.

Program Educational Objectives (PEOs):

PEO 1: Capable of analysing and solving problems for diverse applications.

PEO 2: Engaging themselves in lifelong learning and professional development to adapt to the dynamic work environment.

PEO 3: Able to exhibit a high level of professionalism and work collaboratively at their workplace.



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Faculty Achievements:

1. **Dr. Sarita Ambadekar** received certificate for appreciation for inspiring and mentoring future innovators of India to excel amongst 800+ students on their Project Deep Blue season 9 Journey (Nov 23-May 24).
2. **Dr. Shyamal Virnodkar** delivered an expert talk on "Climate Tech & Sustainability Program 2024 at Somaiya vidhyavihar Boriidl.
3. **Dr. Shyamal Virondkar** received a Research Grant of Rs. 10 Lakhs was approved on 8th April 2024 for the project 'Geofencing Phase - II' by SIRAC and Somaiya Vidyavihar University. First installment of Rs. 4,70,000/- is received on 3rd July 2024 on KJSIT's account.
4. **Dr. Shyamal Virnodkar** organized 21 Day Summer School on Geospatial Science and Technology organized by NGP-DST funded project and conducted by KJSIT in association with K. J Somaiya College of Engg. from 27th May 2024 to 16th June 2024.
5. **Mr. Abhijit Patil** was a reviewer in the international Conference on "Intelligent System for Cybersecurity" organized by the Department of Computer Science & Engineering at the NorthCap University, Gurugram on 3-4 May, 2024.
6. **Ms. Kavita Bathe** conducted an expert talk on "Radiometric correction and Geometric Correction in 21-day National Geospatial program summer school program supported by Department of science and Technology, Government of India" on 5th June 2024.
7. **Ms. Kavita Bathe** conducted expert talk on Building solutions using Machine Learning in IEEE sponsored Faculty Development Program (FDP) titled "Machine Learning & Data Analytics with Python Programming" on 6th June 2024.
8. **Ms. Kavita Bathe** conducted an expert talk on "Extracting information for Satellite images using supervised Classification" in 21-day National Geospatial program summer school program supported by Department of science and Technology, Government of India" on 8th June 2024.
9. **Ms. Chitra Bhole** Summer internship coordinator in association with CODE- AI club on ML BOOTCAMP from 3rd June to 2nd July 2024.
10. **Ms. Chitra Bhole received** appreciation for contribution to Review of Book "Software Engineering", Tec-neo Publication LLP, Computer Engineering, Semester V & A.Y. 2024-25, ISBN No. 978-93-5583-159-0 on 17th July 2024.
11. **Ms. Chitra Bhole received** appreciation for contribution to Review of Book "Software Engineering", Tec-neo Publication LLP, Electronics & Computer Engineering, Semester V & A.Y. 2024-25, ISBN No. 978-93-5583-159-0 on 17th July 2024.
12. **Dr. Jyoti Wadmare** was felicitated as an active SPOC at IIT Bombay on 29th June 2024 by Prof. Nandita - IIT Bombay, Prof Bharati and National NPTEL MOOCs Coordinator Prof. Andrew from IIT Madras.
13. **Dr. Dhanashree Toradmalle** was appointed as Reviewer for Scopus Journal organized by Int. J. of Electronic Security and Digital Forensics (IJESDF) dated on 27th July 2024.
14. **Dr. Dhanashree Toradmalle** and **Ms. Pradnya Patil** presented a poster during the National Conference on "Indian Knowledge System in Management" from 4th to 6th July 2024 at Indian Institute of Technology, Bombay.
15. **Mr. Abhijit Patil** was appointed as Reviewer for 14th IEEE Symposium on Computer Applications & Industrial Electronics organized by ISCAIE held on 24th & 25th May 2024.
16. **Ms. Shubhada Labde** received Best Paper Award in 2nd International Conference on Data Science and Network Security (ICDSNS) Kalpataru Institute of Technology, Tiptur, Karnataka held on 26th & 27th July 2024.
17. Copyright granted for "Efficient Housing Society Management Solutions" was developed by **Dr. Dhanashree Toradmalle**, Dr. Namrata Ansari, Dakshita Kolte, Kapil Bhatia, Palak Desai dated on 26th June 2024.
18. **Ms. Aarti Sahitya** was awarded as a NPTEL Believers badge from IIT Bombay for completing the six courses and passed in the courses for NPTEL examination for January to June 2024 courses.
19. **Dr. Dhanashree Toradmalle and Mrs. Pradnya Patil** has mentored students for the project "Audio Book Recording Management System" developed for All World Gayatri Pariwar (AWGP) from May 2024 to July 2024 under the initiative of Indian Knowledge System (IKS) Cell KJSIT.

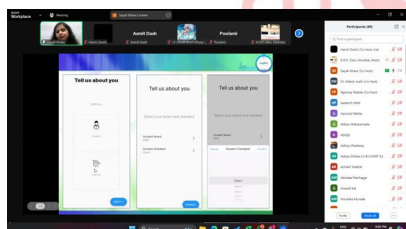


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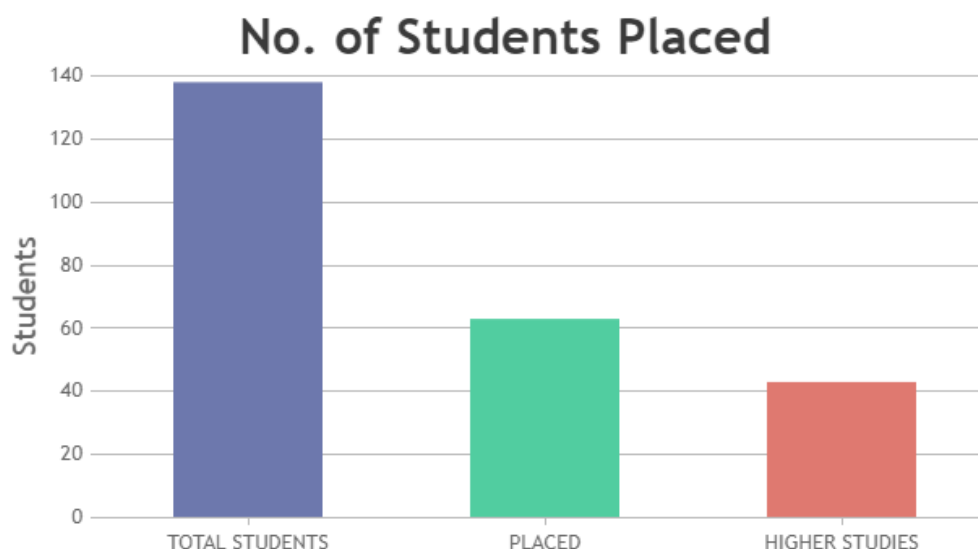
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Events Organised:

1. Dr. Sarita Ambadekar- Convener, Prof. Shubhada Labde and Dr. Shreya Patankar- Coordinators had organized a webinar on “Interview Mastery: From Preparation to Execution” dated on 16th July 2024, speaker for this is - Mr. Vishesh Karan, Software Developer at Nvent Pvt Ltd.
2. Dr. Sarita Ambadekar- Convener, Prof. Shubhada Labde and Dr. Shreya Patankar Coordinators arranged a webinar on “Interview Mastery:Essential Tips for Success” dated on 09/08/2024 and speaker for this session is Ms. Divija Kinger, Product Engineer at M/S. Seclore pvt ltd.
3. Dr. Sarita Ambadekar- Convener, Prof. Priyanka Deshmukh-Coordinator arranged a workshop on “Drone Programming”, dated on 09th August 2024 and speaker for session is Mr. Gaurav Singh CEO at Dalvik Apps.
4. Dr. Sarita Ambadekar- Convener, Prof. Mrunali Desai-Coordinator arranged a expert talk on “The Entrepreneur's Journey: Turning Vision into Reality” dated on 13/08/2024 and expert for this session is Mr. Dhawal Mewada, Founder & CEO of Texpole mumbai.
5. Dr. Sarita Ambadekar- Convener, Dr. Shyamal Virnoddar and Prof. Kavita Bathe-Coordiators arranged an expert talk on “Real time research ideas on AI & ML Applications dated on 16th August 2024 and speaker for this session is Mr. Rohit Bokade, senior software engineer at Enuke Software Pvt Ltd.
6. Dr. Sarita Ambadekar- Convener, Dr. Surekha Janrao and Prof. Priyanka Deshmukh-Coordiators has arranged a workshop on “Building and Mining Data warehouses for Real World Applications”, dated on 14th August 2024 and speaker for this session is Mr. Balwant Gorad, Senior lead AIML engineer, Tata Communications pvt.Ltd.
7. Dr. Sarita Ambadekar- Convener, Prof. Pradnya Patil and Prof. Abhijit Patil- Coordinators arranged a workshop on “Linguistic Diversity and NLP: Innovations for Indian Languages” dated on 28th August 2024 and speaker for this session is Dr. Nilesh Joshi- Senior Linguist, CFILT, Ms. Sayali Khare, Ms. Poulami Ghosh, Mr. Tejomay Padhole, Research Scholar at IIT Bombay.



Placement Statistics:





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Student Achievements:

1. Third year student's team, Abizer Agarwala and Haider Jawadwala from the Computer Engg. department won second prize with an amount of Rs. 75,000/- in the Mastek Project Deep Blue competition Season-9, May 2024.
2. Copyright granted for "Efficient Housing Society Management Solutions" was developed by Dr. Dhanashree Toradmalle, Dr. Namrata Ansari, **Dakshita Kolte, Kapil Bhatia, Palak Desai** dated on 26th June 2024.
3. **Dakshita Kolte, Kapil Bhatia, Palak Desai** has published a paper titled "Data Dynamics in Focus: Stakeholders Feedback Analysis and Interpretation" on 25th-26th May, 2024, International Conference on Emerging Innovations and Advanced Computing (INNOCOMP 2024) organized by Novel Research Foundation at Ethnic India Resort, Rai, Sonipat, Delhi-NCR, India.
4. **Dakshita Kolte, Kapil Bhatia, Palak Desai** has published a paper titled "Empowering Communities: Smart Technologies for Housing Society Governance", South India Journal of Social Sciences.
5. Final year team **Tanisha Kaur, Yatharth Wazir, Yashkumar Dubey** selected as finalists in India AI Impact Festival organized by Intel, CBSE, US Embassy held on 28th May 2024.
6. Final year team **Tanisha Kaur, Yatharth Wazir, Yashkumar Dubey** has been selected for the final round of the "AI Changemakers" Competition at the Intel(R) AI Global Impact Festival 2024 for their project Ishaara.
7. Team **Tanisha Kaur, Shruti Vasa, Nidhee Makwana** participated in competition Myntra Hackeramp: We for She organized by Myntra from June 2024 to July 2024.
8. Third year student **Zenith Shah** was recognized as one of the top performers in the DFIR internship program. Also invited for certificate distribution ceremony held on 22nd and 23rd Aug 2024.
9. Final year team **Yatharth Wazir, Tanisha Kaur, Siddhanth Shah, Dhyey Shah** selected as finalists in Deep Blue Season 9 Hackathon organized by Mastek Pvt. Ltd. from 23rd Dec 2023 to 10th May 2024.
10. Third year students **Dhriti Kothari, Divya Ghanekar, Asmit Dash, Aishwarya Kevale, Harsh Doshi, Zainuddin Fatakdawala, Vedant Hundare, Titiksha Bhavsar, Vidhi Bhanushali** has completed an internship at All World Gayatri Pariwar (AWGP) from 25-05-2024 to 15-07-2024 under the initiative of KJSIT- Indian Knowledge System (IKS) Cell.
11. Final year students **Krishna Rudani, Sumit Chawda, Ved Mota** has completed an internship at All World Gayatri Pariwar (AWGP) from 25-05-2024 to 15-07-2024 under the initiative of Indian Knowledge System (IKS) Cell KJSIT.

Publications:

- Dr. Sunita Patil, Dr. Dhanashree Toradmalle, Ms. Pradnya Patil has published a paper titled 'Divine Femininity: The Eternal Flame of Spiritual Enlightenment' on Apr-Jun 2024, International Virtual Conference on International Women's Day Unveiling the Role of Women in the Indian Knowledge System, K j Somaiya Arts and Commerce, Mumbai in collaboration with Grand Academic Portal; 9th March 2024, Gap Bodhi Taru, A Global Journal of Humanities, (ISSN – 2581-5857), Impact Factor: SJIF - 5.551, IIFS - 5.125, Volume - VII Issue II, April – June 2024, pp. 171-173
- Dr. Sunita Patil, Dr. Dhanashree Toradmalle, Ms. Pradnya Patil has published a paper titled 'Her Scientific Legacy: Women's Impact on India's Technological Renaissance' on Apr-Jun 2024, International Virtual Conference on International Women's Day Unveiling the Role of Women in the Indian Knowledge System, K j Somaiya Arts and Commerce, Mumbai in collaboration with Grand Academic Portal; 9th March 2024, Gap Bodhi Taru, A Global Journal of Humanities, (ISSN – 2581-5857), Impact Factor: SJIF - 5.551, IIFS - 5.125, Volume - VII Issue II, April – June 2024, pp. 454-459
- Dr. Sarita Ambadekar, Zainab Khan has published a paper titled 'AI-powered Prediction of 19 Personality Traits' on 24th - 28th June 2024, Fifteenth International Conference on Computing, Communication and Networking Technologies (ICCCNT), held at IIT-Mandi
- Dr. Sarita Ambadekar, Zainab Khan has published a paper titled 'AI-Powered Collective Decision-Making Systems and the Future Trends' on 24th - 28th June 2024, Fifteenth International Conference on Computing, Communication and Networking Technologies (ICCCNT), held at IIT-Mandi
- Dr. Dhanashree Toradmalle, Dr. Namrata Ansari, Dakshita Kolte has presented and published a paper titled 'Smart Solutions for Enhanced Housing Society Governance: A Technological Approach' on 4th-5th May 2024, International Conference on Research and Innovation for Sustainable Development (ICRISD-2024)



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- Mr. Abhijhit Patil, Amit Maity, Rishi More, Gitesh Kambli, Jay Oza has published a paper titled 'Harnessing Insights from Streams: Unlocking Real-Time Data Flow with Docker and Cassandra in the Apache Ecosystem' on 16th-18th May 2024, IEEE RAICS-2024; IEEE RAICS-2024; Mar Athanasius College of Engineering, Kothamangalam, Kerala
- Dr. Sarita Ambadekar, Krishi Chawda, Kush Mehta, Tanishka Borkar has published a paper titled 'NFTs and Property Tokenization: Advancements and Applications in Blockchain Technology' on 26th July 2024 in International Journal of Blockchains and Cryptocurrencies; 2024 Vol.5 No.1; DOI:10.1504/IJBC.2024.140167
- Ms. Shubhada Labde, Jay Oza, Chirag, Binayke has published a paper titled 'A Comparative Analysis of Deep Reinforcement Learning Techniques in Portfolio Optimization for Global Market Indexes' in 2nd International Conference on Data Science and Security (ICDSNS-24); Kalpataru Institute of technology, Tiptur on 26-27th July 2024
- Ms. Pradnya Patil, Dr. Sunita Patil, Bridging Traditions: Incorporating Ancient Indian Rainfall Forecasting In Today's Education, International Conference 'INDUSTRY-ACADEMIA CONNECT- AN EXPLORATION' organized by SIWS College of Arts and Commerce, Wadala, 23rd - 24th August 2024
- Aarya Shah, Dev Patel, Mahek Pandya, Mohit Patil, Dr. Dhanashree Toradmalle, Dr. Sunita Patil filed copyright on title '**Guide for KJSIT Accreditation Calculator**' with Diary No.: 11237/2024-CO/L
- Dr. Dhanashree Toradmalle, Dr. Namrata Ansari, Dakshita Kolte, Kapil Bhatia, Palak Desai filed copyright on the title '**Efficient Housing Society Management Solutions**' with Diary No.: Diary No: 9135/2024-CO/SW ; ROC No. SW-19041/2024, Diary No: 9135/2024-CO/SW ; ROC No. SW-19041/2024, Filed on: 20th June 2024
- Ms. Pradnya Patil, Dr. Sunita Patil filed copyright on title '**Modelling Rainfall Prediction using Indian Knowledge System and NLP**' with Registration No: L-152329/2024, 20351/2024-CO/L, Filed on: 21-06-2024; Registered on:07/08/2024

Book / Book Chapter Publications:

- Dr. Madhura Pahadke, Dr. Surekha Janrao, Reshma Koli, Jayesh Sarwade has published bookm chapter on title 'Genetic Screening and Soft Computing Algorithms for Risk Prediction' for book Modernizing Maternal Care With Digital Technologies on July 2024, IGI Publications, DOI: 10.4018/979-8-3693-3711-0.ch005
- Ms. Pradnya Patil, Kaustubh Kulkarni, Priyanka Sharma has published a book chapter titled 'Algorithmic Issues, Challenges, and Theoretical Concerns of ChatGPT' in book Applications, Challenges, and the Future of ChatGPT, ISBN13: 979836936824, ISBN13 Softcover: 979836936825, EISBN13: 9798369368268; DOI: 10.4018/979-8-3693-6824-4; ISBN13: 9798369368244|ISBN13 Softcover: 9798369368251, DOI: 10.4018/979-8-3693-6824-4.ch003 on 28th May 2024

Major Research and Consultancy Projects:

- **Business to Business portal**
 - **Project Investigator:** Ms. Kavita Bathe
 - **Co-Project Investigator:** Ms. Mrunali Desai
 - **Funds Sanctioned:** Rs 8,19,121/-
 - **Funding Agency:** Godavari Biorefineries Ltd. Sameerwadi, Karnataka
- **Examination data process management application**
 - **Project Investigator:** Dr. Shyamal Virnodkar
 - **Co-Project Investigator:** Ms. Kavita Bathe, Ms. Mrunali Desai
 - **Funds Sanctioned:** Service-based Payments
 - **Funding Agency:** K J Somaiya College of Science and Commerce, Vidyavihar, Mumbai
- **Geofencing Phase-I**
 - **Project Investigator:** Dr. Shyamal Virnodkar
 - **Funds Sanctioned:** Rs. 8,87,500/-
 - **Funding Agency:** SIRAC (Somaiya Institute of Research and Consultancy) - Sustainability Development and Climate Action", under Somaiya university for the Godavari Biorefineries Ltd., Sameerwadi, Karnataka, India.

Editorial Desk

Newsletter Editor: Prof. Nisha Vanjari

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