

MKSSS's

Cummins College of Engineering for Women, Pune
Department of Computer Engineering

ISSUE 30
DECEMBER 2023



ECHO

**SHIFT THE CONTROL TO US AND
WE WILL ALTER THE WORLD**

VISION

To equip women with an excellent education in Computer Engineering enabling them to play significant leadership roles in technology and society.

PROGRAM EDUCATION OBJECTIVES

1. To prepare students for academic competence, to be employed as computer professionals, for industry, higher studies, research, entrepreneurship and to significantly contribute to the society at large.

2. To develop students' fundamental knowledge related to mathematics, science, computer science, computer engineering and to make them capable of providing solutions to challenging problems and multidisciplinary problems

3. To enrich students with soft skills, leadership skills, professional skills, and work ethics to make them good computer professionals and role models for future generations.

4. To prepare students capable of self learning, to have the ability to adapt to changes, and to possess the ability to understand the impact of engineering on society and humankind

MISSION

1. Impart excellent education, necessary skills, training, and experimentation capabilities in the field of computer science and engineering.

2. Create a vibrant and intellectually stimulating environment for students to promote innovative and multidisciplinary real-world problem solving.

3. Develop women professionals and imbibe work ethics and leadership skills in them, thereby helping them pursue successful careers and contribute to science and technology.

4. Collaborate with industry and other universities to help create competent computer professionals.

5. Strive to fulfill the expectations of all relevant stakeholders.

PROGRAM SPECIFIC OBJECTIVES

1. Graduates capable of working in various domains, solving problems by applying knowledge and skills from Software Development, Networking, Databases, Internet of Things, and Embedded systems.

2. Graduates capable of developing, maintaining software services, software products, and embedded systems by applying the entire software development life cycle

Student Toppers



SY TOPEERS

Name	CGPA
SANIYA DIGHE	9.77
SHREYA AGRAWAL	9.75
SANIYA MAHALLE	9.63



TY TOPEERS

Name	CGPA
BHISE DIKSHA	9.72
GOYAL SONAKSHI	9.59
SHRIYA DESHPANDE	9.35



Student Toppers

B. Tech. TOPEERS



Name	CGPA
RADHIKA WADEKAR	9.67
NUPUR SHAH	9.52
ANANYA JOSHI	9.44



Co-Curricular Activities



Final Year

- Parnavi Kulkarni, Mrunamyee Manmadka, Sanyukta Muley, and Gargi Kulkarni won the second prize in the ASPIRE Project Competition (Veritas Project Group) held at MCOE, Pune.
- Mrinmayee Manmadkar, Gargi Kulkarni, Parnavi Kulkarni, and Sanyukta Muley received the Excellence Certificate in Network Security at Convene - Project Competition held at Smt. Kashibai Navale College of Engineering, Pune.
- Reena Prasad, Pranita Barbade, Akshada Malpure, and Anushka Pawar were recognized for their outstanding performances in the Kedar Tumne Project Competition held at CCOEW, Pune.
- Jahnavi Patil secured the first place in Codefest organized by IAS Integral Ad Science and CCEW, Pune.



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Third Year

- Samiksha Tawde and Manisha Suryawanshi won the third prize in the NeuroHack-Mindspark 22 Hackathon held at COEP, Pune.
- The team of Komal Vhanmane, Shreya Uttarwar, Disha Bhoje, and Shraddha Basarikatti was selected as one of the top 7 finalists out of 36 teams in the CRIF INDIA HACKATHON, a 24-hour event held at COEP, Pune.

Second Year

- The team of Mrunal Jambenal, Vidhi Bamare, Annada Dash, Vaidehi More, and Shreya Watwe won prizes in Euros and a bonus prize in a hackathon (Bonus Level) with their team named Bug Bytes, held by TomTom Mapping & Technology Company, Pune.
- Anisha Jain was awarded the 2022 Spirit of Invention Scholarship Award worth \$1300 by the Avery Dennison Foundation Spirit of Invention (InvEnt), India.

Co-Curricular Activities

- Anusha Karwa achieved an All India Rank 8 in the National Creativity Aptitude Test conducted by NCAT in New Delhi.
- The team comprising Shruti Kulkarni, Isha Purnapatre, Gargee Dorle, Ananti Mulay, Sanika Deshpande, and Khushi Zha won the third prize in the All India Women's Hackathon.



Extra Curricular Activities



Final Year

- Anushka Pawar is the winner in Zest (Volleyball) held at College of Engineering, Pune.
- Gouri Lonkar is the runner up in Zest (Football) held at College of Engineering, Pune.
- Neha Patil is the runner up in Zest (Kho Kho) held at College of Engineering, Pune.

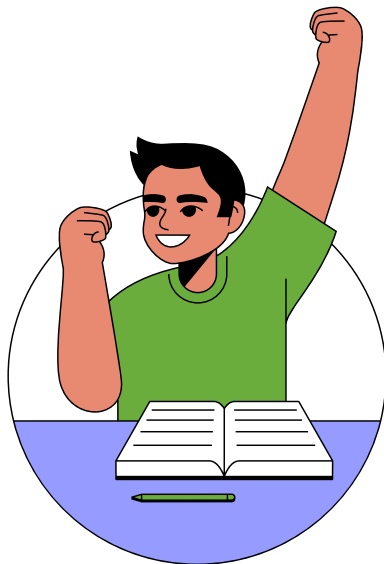


Third Year

- Sawari Shinde won a bronze medal in the Asian Junior Classic Powerlifting Championship held by the Asian Classic Powerlifting Federation in Dubai.
- Sawari Shinde also secured a gold medal in Athletics - Shotput and Powerlifting at the All India University Athletics Championship in Kasaragod, Kerala.

Second Year

- Devashree Kute secured the third prize in a dance competition organized by the United Sambodhi Organization Trust in Pune.
- Anandmayee Modak passed the Goethe A1 Exam (German exam) with distinction, scoring 91 out of 100 marks, conducted by Goethe Indien (Max Mueller Bhavan), Pune.

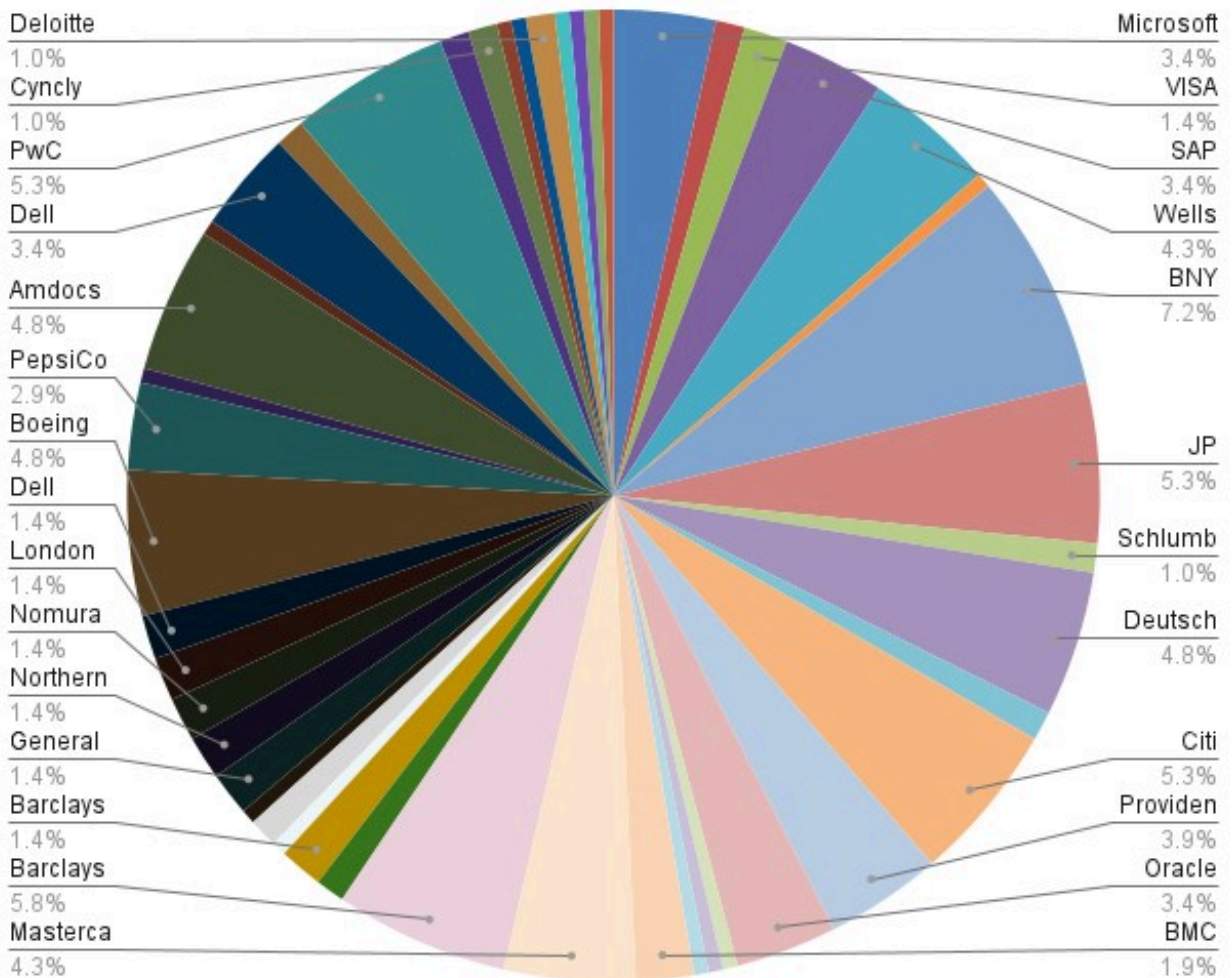




PLACEMENT OVERVIEW

Total Companies	46
Total Placements till 31 Dec '23	207
Average Package =	16.6L

CTC and Placement count



Faculty Achievements



- Dr. Neeta Maitre received an Award of Outstanding Faculty in Computer Engineering for the teaching excellence and innovation in the discipline of Engineering by Venus International Foundation, Chennai, Tamil Nadu on 15th July 2023
- Dr.Rita Patil Appointed as " Senior Advisor" at NSDC, New Delhi
- Dr.Sandhya Arora was topper of NPTEL Online Certification course Big Data Computing with consolidated score of 97%. She also Recognized as Discipline star of NPTEL.
- Dr.Sandhya Arora received Research Excellence Award 2023



Faculty as Resource person

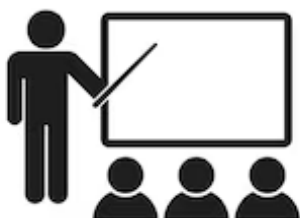
- Dr. Supriya Kelkar was appointed to the National advisory board for the ICRASET-2023 conference held in July 2023 at CCEW, Nagpur.
- Dr. Chhaya Gosavi served as an expert for the local selection committee on 11 July 2023 at PCCOE, Pune.
- Dr. Shilpa Deshpande acted as a reviewer for the IEEE International Conference on Blockchain and Distributed Systems Security (IEEE ICBDS 2023) in July 2023.
- Dr. Neeta Maitre participated as a Program Committee Member and Reviewer at the AIC 2023 on 29-30 July 2023 for AIC IEEE.
- Dr. Neeta Maitre also served as a Program Committee Member and Reviewer for the International Conference on Artificial Intelligence: Theory and Applications (AITA 2023) held on 11-12 August 2023 at ICFAI Business School (IBS), Bangalore.

Faculty as Resource person

- Dr. Chhaya Gosavi was Reviewer for Book Proposal, Book titled “Integrating AI, IoT and Cloud Computation for Social Welfare” on 2nd August 2023
- Dr. Sushila Shelke was Jury for Pre- SIH Exam 2023 at VJTI , Mumbai on 26th September 2023
- Dr. Sunita Jahirabadkar was Speaker for FDP on “ NEP 2020- Awareness” held at CCEW, Pune on 13th October 2023 in Online Mode
- Prof. Sharayu Mirasdar conducted sessions on IKS (Indian Knowledge System) for SPPU-BBA course (@International centre) on September 2023
- She joined as a Honorary advisor consultancy at Koushiki Innovision startup
- Dr. Shilpa Deshpande was session chair for IEEE International Conference on Blockchain and Distributed Systems Security (IEEE ICBDS 2023) held on 6th-8th October 2023.
- Dr. Sushila Shelke was reviewer for the International Conference on Data, Electronics and Computing at CMT , Microsoft on 21st October 2023

Faculty as Resource person

- Prof. Hitendra Khairnar translated 6 hours of the Object-Oriented Analysis and Design course (106105153) into Marathi on 31 October 2023 for IITKGP, Swayam, NPTEL.
- Dr. Sushila Shelke served as a reviewer for the Journal of Cloud Computing on 1st November 2023 at COEP Technological University (COEP Tech), Pune.
- Dr. Chhaya Gosavi was reviewer for the EAI 3rd International Conference on Intelligent Systems and Machine Learning (EAI ICISML 2024) scheduled in Pune, India, from 21 November 2023 to 5-6 January 2024.
- Dr. Sushila Shelke reviewed a book chapter titled "Interactive Media Technologies for Personal and Commercial Applications and Their Usability Evaluation" on 24 November 2023 for CRC Press, Taylor & Francis Group.
- Dr. Chhaya Gosavi was the Internal and External Reviewer for Track III in Vishwacon 2023, the 6th International Conference on Recent Trends in Engineering and Technology, held from 24th to 25th November 2023 at VIIT, Pune.



Faculty as Resource person

- Mrs. Jyoti Bangare was the keynote speaker for a patent presentation at the Vishwa Intellectual Property Conclave 2023, held from 24th to 25th November 2023 at VIIT, Pune.
- Dr. Chhaya Gosavi conducted a session on OOP overview for SY AI&DS students of PVG on 29 November 2023 at PVG, Pune.
- Dr. Madhuri Tasgaonkar served as a reviewer for the Journal of Circuits, Systems, and Computers, World Scientific Publications in December 2023.
- Dr. Neeta Maitre was a reviewer at the International Conference on Intelligent Systems: Approaches, Technologies, and Network organized by the Department of CSE-AI&DS, CSE-AI&ML, CyberSecurity on 4th and 5th December 2023 at PIET, India.
- Prof. Sakshi Mandke gave a guest lecture on the occasion of "Dr. Babasaheb Ambedkar MahaNirvan Din" on 6th December 2023 at Pragati Vidyalaya Marathi Medium School.

Faculty as Resource person

- Prof. Vaishali Salgar judged and evaluated projects for the Viva Round on 9th December 2023 at Acharya Shree Vijay Vallabh School under the CSI Pune Chapter.
- Dr. Madhuri Tasgaonkar reviewed for the IEEE Transactions on Systems, Man, and Cybernetics: Systems on 12th December 2024.
- Dr. Chhaya Gosavi reviewed for the ICDEC 2nd International Conference on Data, Electronics, and Computing on 15-16 December 2024 at ICDEC, Aizawal Mizoram, India.
- Dr. Anjali Naik served as a reviewer for ICDEC-2023 International Conference on 15-16 December 2023 at ICDEC, Aizawal Mizoram, India.
- Dr. Shilpa Deshpande was the session chair for the IEEE PuneCon 2023 Conference (Scopus indexed) on 15th and 16th December 2023 at COEP Pune.
- Dr. Madhuri Tasgaonkar reviewed for the International Conference on Data Electronics and Computing on 15th and 16th December 2026.

Faculty as Resource person

- Prof. Pranjali Deshpande conducted a guest lecture on "Machine learning perspective in NLP" for TY IT students PVG's COET & GKP(W)IOM, Pune on 26 October 2023
- Dr. Chhaya Gosavi was the resource person for the ATAL FDP on "Image and Video Data Analysis using Deep Learning" on 19th December 2023 at Amrutvahini College, Sangamner.
- Dr. Shilpa Deshpande served as an external examiner for the ME Dissertation on 28th December 2023 at Shah and Anchor Kutchhi Engineering College, Chembur, University of Mumbai.
- Dr. Madhuri Tasgaonkar reviewed for the International Conference on Artificial Intelligence, Control, Data Sciences, and Applications (ACDSA 24) in December 2025.
- Dr. Sandhya Arora served as a PhD thesis reviewer for Jadavpur University, Kolkata.
- Dr. Madhuri Tasgaonkar reviewed for Systems, Man, and Cybernetics: Systems - Review Receipt on 12 December 2023 for IEEE Transactions on Systems, Man, and Cybernetics: Systems.



Intellectual Property Publication

- A patent titled "System and method for contextual condensation of complex linguistic low resource language discourse" filed by Mrs. Pranjali Deshpande and Dr. Sunita Jahirabadkar on January 11, 2023
- A Industrial Design for “Wearable Drowning Rescue Device” is granted to Dr.Sandhya Arora and Dr.Chhaya Gosavi on 14th December 2023
- A patent titled "A System and Method for the Classification of Space Objects to Identify Debris" filled by Dr. Sunita Jahirabadkar and her students.



Book Publication

- A book “Data Science And Analytics with Python authored by Dr. Sandhya Arora was published by University press on 5th July 2023. Isbn-13 978-9393330345
- A Book Chapter- “ Iot Cloud PlatformsA Case Study In Thingspeak Iot Platform (Chapter 14)” in a book “ Integration Of Cloud Computing With Emerging Technologies” was written by Varsha Pimprale, Dr. Sandhya Arora, Nutan Deshmukh. This book was published in November 2023. Isbn9781003341437
- A book on High Performance Computing (Sppu(IT)) was authoured by Pranjali Deshpande. I was published in December 2023. Isbn 978-93-5585-179-6



Publication

- Dr. Chhaya Gosavi presented a comparative study of Register Allocation Algorithms at the 8th International Conference on ICT for Sustainable Development (ICT4SD 2023) in Goa.
- Mrs. Varsha Pimprale showcased a wearable device for monitoring the health parameters of cyclists at the same conference, ICT4SD 2023.
- Mrs. Sakshi Mandke contributed with a literature review on malware analysis methods and classification techniques at the 6th International Conference on Emerging Topics in Computing 2023 (iCETiC '23).
- Dr. Madhuri Tasgaonkar introduced EDUART, an Augmented Reality-based learning experience at the 3rd International Conference on Electrical, Computer, Communications and Mechatronics Engineering (ICECCME '23).
- Dr. Shilpa Deshpande and Mrs. Aparna Hajare jointly presented a paper on Kubernetes Cluster Disaster Recovery using AWS at the 7th IEEE International Conference on Computing Communication Control and Automation (IEEE ICCUBEA 2023).

Publication



- Prof. Shilpa Pant and Dr. Chhaya Gosavi published a survey on Deep Fake creation technologies and detection using LSTM in the International Journal on Recent and Innovation Trends in Computing and Communication.
- Dr. Chhaya S. Gosavi published a paper on Enhanced Query Optimization in Hadoop using Bio-Inspired Algorithms with HDFS technique in the same journal.
- Prof. Nutan Deshmukh, Dr. Sandhya Arora, and Prof. Varsha Pimprale collaborated on a paper discussing the correlation analysis between INR-USD exchange rates and public sentiments using Twitter at ICTCS 2023.
- Prof. Nutan Deshmukh and students presented their work on IoT-based automation of a prebuilt solar desalination system at the same conference, ICTCS 2023.
- Dr. Sandhya Arora explored Explainable AI techniques with a case study in healthcare at ICT4SD 2023.

Publication



- Dr. Sandhya Arora also presented papers on topics like Sketch to Photo Synthesis using Auto Encoder Kalman Filter and Synthetic Image Generation using StackGAN at different conferences in 2023.
- Prakash Date, Varsha Pimprale, and Sakshi Mandke conducted an explorative study on machine learning and AI for healthcare diagnosis and treatment in the Journal of Autonomous Intelligence.
- Dr. Mahendra Deore and Dr. Shilpa Deshpande presented a Network Tunnel Component for Backup over Internet at IEEE ICIMIA 2023.
- Meenal Kamlakar researched smart stress-related risk assessment of pregnant women using Internet of Medical Things in the International Journal of Intelligent Systems and Applications in Engineering.
- Dr. Anjali Naik surveyed biases and fairness in deep learning models, focusing on generative models at ICCUBEA-23.

Publication

- Dr. Supriya Kelkar and students presented projects on MicroPython-based Quadcopter Flight Controller and Comparative Analysis of Predictive Models for Fouling Factor Prediction in Heat Exchangers at IEEE 3rd Smart GenCon 2023.
- Dr. Sandhya Arora reviewed cross-weather traffic scene understanding using transfer learning for intelligent transport systems in the International Journal on Recent and Innovation Trends in Computing and Communication.



Expert Lectures Conducted



- On 13th September 2023, the "100 Rs Venture Activity" offline event, involving college students and faculty, was led by Dr. Makarand Velankar, Dr. Anjali Naik, and Dr. Megha Borse, attracting over 100 participants.
- Dr. Abhijat Vichare, an Adjunct Professor at Cummins College conducted co-teaching sessions on Functional Programming offline from 11th to 15th September 2023 for SY Computer students. Prof. Rakhi Dongaonkar, Dr. Chhaya Gosavi, and Prof. Pranjali Marne organized the sessions.
- On 18th October 2023, Muskan Nechlani, a developer at Credit Agricole in Singapore, will lead an online ReactJS workshop for TY Computer students, with an anticipated participation of 190 students, supervised by Dr. Chhaya Gosavi, Prof. Jyoti Bangare, and Prof. Priya Deokar.
- On 16th October 2023, Nicky Nagdev, a developer at AWS, conducted an online session on Android Database - SQLite and Firebase for TY Computer students under the supervision of Prof. Vaishali Salgar and Prof. Purnima Kawale.

Expert Lectures Conducted



- From October 25th to 27th, 2023, Vodafone hosted an online workshop on ReactJS for TY Computer students. The workshop was organized by Dr. Chhaya Gosavi, Prof. Jyoti Bangare, and Prof. Priya Deokar.
- Dr. Abhijat Vichare, an Adjunct Professor at Cummins College, delivered an online lecture titled "Introduction to Advanced Algorithms - Parallel, Approximation, and Randomized Algorithms" on October 28, 2023, to over 200 Third Year Computer Science students. Professors Aparna Hajare and Prof. Hitendra Khairnar were also present for the session.
- Dr. Anjali Naik, a Professor at Cummins College, conducted an offline lecture titled "Introduction to Genetic Algorithms" on October 16, 2023, for Third Year Computer Science students. Prof. Aparna Hajare and Prof. Hitendra Khairnar organized the session.
- Professor Meenakshi D'Souza from IIIT Bangalore conducted an online workshop on "Web Applications Testing, Symbolic Execution, and DART" on October 26 and 27, 2023, for Third Year Computer Science students. The session was organized by Shilpa Pant, Nutan Deshmukh, and Dr. Anjali Naik.

Expert Lectures Conducted

- A online session for TY students on “Career in Digital Marketing” Ms. Sakshi Rajput ,Digital Marketing Consultant was organized by Prof. Sakshi Mandke, Prof. Varsha Pimprale, Prof. Nutan Deshmukh
- A session on “Problem definition, ideation and market research” on 1st Aug. 2023 by Ms. Vartika Tripathi Co-Founder, PawshBox for TY students was organized by Dr. Makarand Velankar (IT) , Dr. Megha Borse(E& TC) and Dr. Anjali Naik(COMP).



ACM-W chapter



- On 9th September 2023, a coding competition titled "Code IT" was held, catering to First Year, SY & TY students from various colleges. This regional event attracted approximately 170 participants.
- Scheduled for 23rd September 2023, a webinar titled "A Glance into the World of User Experience" featured Mr. Jagan Murugan, a Mechanical Engineer and Industrial Designer based in Manama, Bahrain. The webinar, open nationally to all colleges, had 148 participants registered to gain insights into user experience (UX).



ECHO TEAM

Student coordinator

Ms. Gargee Dorale

Faculty Coordinator

Prof. Sakshi S Mandke