



K.L.E Society's

**KLE College of Engineering & Technology, Chikodi - 591 201**

(Approved by AICTE, New Delhi and Affiliated to VTU, Belagavi)

An ISO 9001 : 2015 Certified Institution

*In pursuance of excellence...*



**Department of Computer Science and Engineering**  
Department of Computer Science and Engineering

# **Cognizance**

**Newsletter: 2023-24**

## *PRINCIPAL's Desk*



Rural empowerment through education has been the cornerstone of the efforts of the KLE Society since inception. The objective of taking “Technical Education” right to the doorstep of the rural citizens, led to the establishment of KLE College of Engineering and Technology,

Chikodi. With 13 batches of engineers to our credit since 2008, we take pride in our accomplishments to date. Our students have established their mark in across multiple domains of responsibilities.

KLE Society spares no effort in equipping its institutions of learning and consequently, KLECET is blessed with a wonderful infrastructure that provides for a unique learning experience. The services of dedicated, experienced and knowledgeable faculty members have been the defining force of our successes. Having evolved add on experiences that provide a unique combination of theory and practice, we have also established systems for individual and collective mentoring. Every student under our cares part of a unique learning experience which nurtures a skilled, creative and innovative engineering professional who adds value to both the profession, society and the nation. It is in the future of our students that we find our inspiration and pride.

**Dr. Prasad B. Rampure**  
Principal

## *HOD's Desk*



Computer Science & Engg. Branch was started in the year 2008, so as to provide the students with analytical, design, logical & communication skills necessary to build computing systems. The starting intake of 60 is increased to 120 during the academic year 2012-13.

It is one of the most preferred branches in Engineering. Computers are an integral part of our lives today and studying them has become a priority for students. The study of computers branches into two groups- Computer Science & Computer Engineering.

The Computer Engineering deals with the design & construction of computers and is mainly concerned with computer hardware. Extensive research in computer hardware has contributed high-speed architecture, such as parallel architecture.

**Dr. S. G. Gollagi**  
HOD

## *Chief Editor's Desk*

Primary objective of this newsletter is to act as a communication tool that will not only give information about activities on campus but also will educate, inform and motivate its readers on various issues of interest. It will also provide a platform to an individual to spread creative ideas. In this newsletter, we have reported significant achievements and activities of departments as well as an individual student and staff. Placement statistics for the last pass-out batch have also been presented. We editorial members would like to thank Principal, Head of Department, Staff Members and Students of the department for providing information and valuable suggestions on time. I hope you will enjoy reading this “Cognizance”.

**Dr. Bahubali M. Akiwate**  
Chief Editor

## Editorial Members:

Sl. No.	Name	Designation
1.	Dr. Bahubali M. Akiwate	Chief Editor
2.	Prof. Shrihari Joshi	Member
3.	Mr. Subhash Mali	Member
4.	Miss. Srusti S. Bannavar	Member
5.	Mr. Rohit Bhati	Member

## *VISION*

To produce globally acceptable young minds with technical competency in computer science and engineering for the betterment of society.

## *MISSION*

1. Adopt modern teaching and learning processes with emphasis on leadership.
2. Strengthen academic and research activities in the emerging domains of computerscience and engineering for life-long learning.
3. Encourage students to acquire interdisciplinary engineering knowledge and work collaboratively to meet global challenges.
4. Empower employability and entrepreneurship skills of students in association with alumni, institute and industry with a sense of social responsibility

## *PSO's*

1. Apply the knowledge of algorithms, networking, web design, IoT, AI and data scienceto analyze, design and implement solutions for real-time problems with innovative approaches.
2. Utilize modern computer languages and platforms to be an entrepreneur, to excel in higher studies and research by practicing ethical standards and human values.

## FACULTY MEMBERS

### TEACHING STAFF

Name	Qualification
Dr. S G Gollagi	M. Tech(CSE), Ph.D.(CIS)
Prof. Sunil B. Hebbale	M. Tech(CSE), (Ph.D.)
Dr. Sanjay B. Ankali	M. Tech(CNE), Ph. D(CIS)
Dr. Bahubali M. Akiwate	M. Tech(DCN), Ph. D(CIS)
Prof. Ashwini V. Gavali	M. Tech(CSE), (Ph. D)
Prof. Suneel C. Shinde	M. Tech(CSE)(Ph.D.)
Prof. Shilpa B. Hosagoudra	M. Tech(CSE)
Prof. Vinod Biradar	M. Tech(CSE), (Ph. D)
Prof. Ashwini Pharalad	M. Tech(CSE)
Prof. Madhurani Shiddibhavi	M. Tech(CSE)
Prof. Amruta Sonavale	M. Tech(ECE)
Prof. Navin M Mathad	M. Tech(CSE)
Prof. Shruti Kumbar	M. Tech(IT)
Prof. Ashwini Kale	M. Tech(CSE)
Prof. Shrihari Joshi	M. Tech(CSE)
Prof. Mahantesh Laddi	M. Tech(CNE), (Ph.D.)
Prof. Prajwala R Patil	M. Tech(CSE)
Prof. Pramila Gadyanavar	M. Tech(CSE)

## TECHNICAL STAFF

Name	Qualification
Mr. Shivagouda Patil	Diploma (CSE)
Mr. Subhash Mali	Diploma (CSE)
Mr. Gurunath Rendale	Diploma (ECE)
Mr. Mahesh Kumbar	BE (ECE)
Ms. Pooja Biradarpatil	BE (CSE)
Mrs. Shrilekha Bakale	BE (ECE)
Mr. Sanjay Sanadi	Diploma (ISE)

## NON-TEACHING STAFF

Name	Qualification
Mr. Mahantesh Bambalwade	S.S.L.C
Mr. Raju M Hosmani	S.S.L.C

## BRANCH TOPPERS

### 8<sup>th</sup> Semester



Miss. Megha Raju Badiger  
(91.20%)



Miss. Anusha Gulagond  
(91%)



Miss. Sarika Adinath Mane  
(90.%)

### 7<sup>th</sup> Semester



Miss. Anusha Gulagond  
(87.43%)



Miss. T. S. Bahaddurdesai  
(85.57%)



Miss. Nidhi B. Umarani  
(83.57%)

### 5<sup>th</sup> Semester



Mr. Rohan Udagatti  
(89.75%)



Miss. Srusti Bannavar  
(88.50%)



Miss. Anusha Bisti  
(88.38%)

### 3<sup>rd</sup> Semester



Miss. Kavya Lakshmappa Onti  
(90.89%)



Miss. Masali Pallavi Rajakumar  
(90.44%)



Miss. Preeti Pavan Gorwade  
(90.00%)



## PLACEMENT DETAILS

SL.NO.	COMPANIES OFFERED	NUMBER OF STUDENTS PLACED
1	Technologies Global Pvt. Ltd.	1
2	Palle Technologies	25
3	Kodnest	29
4	Quest Global Technologies	7
5	IPCS, Bengaluru	2
6	QSPIDERS	20
7	EXCELR	6
8	ETHNUS	15
9	CORIZO	5

(110 students were placed)

## TECHNICAL ACTIVITIES



Department has organized a **Parents meeting** for 3<sup>rd</sup> semester students on 06/01/2023.



Organized a talk on "**Types of Opportunities in IT industry and current trends**" by Er. Chetan Bhandi, Infosys Limited, Mysuru for 5<sup>th</sup> semester students on 7/01/2023.



Organized a talk on "Code Your Way to Crack Dream Company" for 4<sup>th</sup> semester students on 22/06/2023. Dr. Sanjay Ankali, Training Officer of college has delivered the contents on the same.



Organized Graduation Day Ceremony and Alumni Meet for 2023 passed out batch of CSE Department on 14/08/2023.



Organized a technical talk on "**Intelligent Horizons : Exploring the World of Artificial Intelligence and Machine Learning**" by Dr. Rashmi Rachh, VTU Belagavi on 22/08/2023.



Organized fresher's branch entry function "**Parichaya-2K23**" for 3<sup>rd</sup> Semester CSE and AI & DS students and Inaugurated C-TEC activities for the academic year 2023-24 on 22-12-2023. Our Alumni Er. Subhash Sunagar, QA Manager, Ernst and Young has appeared as chief guest and delivered a technical talk on "Current Trends in IT Industry". Around 450 students have witnessed the colorful function.



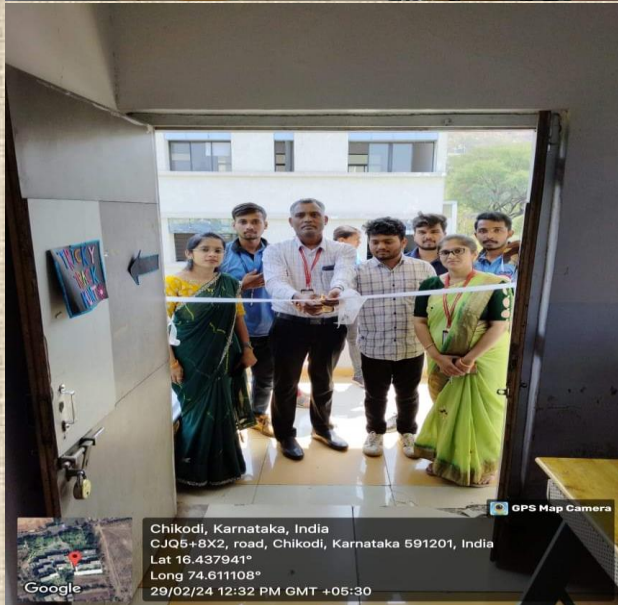
The Department of Computer Science & Engineering at KLE College of Engineering and Technology, Chikodi, recently marked the successful conclusion of a six-day Faculty Development Program (FDP) on the Internet of Things (IoT) for Emerging Technical



Applications. Generously sponsored by AICTE Training and Learning (ATAL) Academy, the FDP took place from January 8 to January 13, 2024. On January 13, 2024, the valedictory function witnessed Chief Guest Dr. Shashidhar Kulagude from NITK Suratkal sharing insights into the significance of IoT and AI as the next big trends. Dr. Prasad B. Rampure, President of

the valedictory function and Principal of KLECET Chikodi, encouraged all participants to carry their newfound knowledge back to their respective campuses and students. The FDP featured distinguished resource persons from renowned institutes such as IIT, NIT, IIIT, and more. Notable speakers included Dr. Rajkumar Patra, Dr. Bhagrashree Hanji, Dr. Sharad Sinha, Dr. Ramesh Kagalkar, Dr. B. R. Chandavarkar, Dr. Shridhar Dhumal, Dr. S. B. Halbhavi, Dr. Vani Hiremani, Dr. Amrita Mishra, Dr. Prakash Pawar, Dr. Pramod Yalmevad, Dr. Shashidhar Kulagudi, and Dr. Sanjay Ankali. The program also included an insightful industry visit to Aequs Pvt. Ltd. With a diverse participation of 50 attendees from Karnataka, Andhra Pradesh, Maharashtra, and Tamil Nadu, the FDP successfully facilitated knowledge exchange and collaboration.

Dr. M. Chengatir Selvi, Prof. M. Svarna, Prof. Ramachandra Turkani, and Prof. Deepak Buttewadkar expressed their profound gratitude to KLE CET, Chikodi, for organizing this enriching FDP. Co-coordinator Dr. Bahubali Akiwate welcomed the gathering, and Prof. Sunil Hebbale introduced the Chief Guest. The session was skillfully anchored by Mahalaxmi Aramane and Shruti Gaikwad. In closing, Coordinator Dr. S. G. Gollagi extended a vote of thanks, acknowledging the collective efforts that made the FDP a resounding success.



The department has successfully organized a two-day National Level Technical Festival named "**PRAXIS-2k24**" at the KLECET campus. During the event, four technical events were held, namely: 1. Paper Presentation, 2. Code Craft, 3. Tricky Track Hunt, and 4. Zest-Game of Logic. Approximately 300 students from various institutes actively participated in these events. The technical festival took place on 29<sup>th</sup> February and 1<sup>st</sup> March 2024.





On the auspicious occasion of April 6, 2024, our institution organized an alumni meet, "MILANA-2k24". The meet provided a platform for our illustrious alumni to interact with the current students and share their rich experiences and valuable insights in the field of Information Technology. The event proved to be a great success and served as a source of motivation and inspiration for all the attendees.



Final year Project Exhibition "**Techno Vision-2K24**" was organized by technical club on 11/5/2024.



Successfully organized **Debate competition** on 18/7/2024.

## STAFF AND STUDENT ACHIVEMENTS

### Funding/Grant by Staff :

Dr. S G Gollagi & Dr. Bahubali Akiwate have been granted with amount **3.5 lakh** by ATAL-AICTE, New Delhi for the FDP on "**IOT for Emerging Technical Applications**" on Sep-2023.

### KSCST sponsorship during 2023-24:

Sl. No.	Name of the Guide	Designation	Title of the Project	Year	Name of Board Conducted By	Price amount (Rs.)
1	Prof. Vinod Biradar	Asst. Prof.	Object detection and video analyser for visually impaired people	2023-24	KSCST Bengaluru	4000
2	Prof. Vinod Biradar	Asst. Prof.	Air gesture based mobile operation	2023-24	KSCST Bengaluru	5000
3	Prof. Shilpa Hosagoudra	Asst. Prof	Automating PDF interaction using Langchain and ChatGPT	2023-24	KSCST Bengaluru	4500
4	Prof. Vinod Biradar Prof. Mahantesh R. L.	Asst. Prof	Language translation with cultural sensitivity	2023-24	KSCST Bengaluru	3500
5	Prof. Ashwini Pharalad	Asst. Prof	Phone freedom remote connectivity without internet boundaries	2023-24	KSCST Bengaluru	4000
6	Prof. Prajwala R. Patil	Asst. Prof	Detection of fake online reviews using semi supervised learning	2023-24	KSCST Bengaluru	4500
7	Prof. Sunil B. Hebbale	Assoc. Prof	Smart voting system through facial recognition	2023-24	KSCST Bengaluru	4000

### Projects selected by FAER Integra scholar award:

Sl. No.	Name of the Guide	Title of the Project	Year	Name of Board Conducted by
1	Prof. Mahantesh Laddi	Face Anti-Spoofing Using Patch and Depth Based CNN	2023-24	FAER
2	Dr. Sanjay Ankali	Spinorange	2023-24	FAER

### Participation by Students:

Sl. No.	Name of the Student	Class in which studying	Name of the examination	Name of Board Conducted By	Rank / Prizes / Place Won
1	Supreet Kulkarni	8 <sup>th</sup> Sem	National Level Conference	Babasaheb Naik College of Engineering	3 <sup>rd</sup> prize
2	Shubham Kadam	8 <sup>th</sup> Sem	TECHEXPO	KIT, Kolhapur	3 <sup>rd</sup> prize
3	Shubham Kadam	8 <sup>th</sup> Sem	TECHEXPO	Pravara Rural Engineering College, Loni	2 <sup>nd</sup> prize

**List of staff members with M.Phil. /Ph.D. qualifications working in the institution :**

<b>Sl. No.</b>	<b>Name of the Staff</b>	<b>Designation</b>	<b>Award M.Phil/Ph.D.</b>	<b>Name of the University</b>
1	Dr. S G Gollagi	Professor	Ph.D.	Visvesvaraya Technological University, Belagavi
2	Dr. Sanjay B.Ankali	Associate Professor	Ph.D.	Visvesvaraya Technological University, Belagavi
3	Dr. Bahubali M.Akiwate	Associate Professor	Ph.D.	Visvesvaraya Technological University, Belagavi

## Research Article Publications by Staff:

2023-24	
Sl.No	Publications Details
1	Chandrakant M. Umarani, S.G. Gollagi, Shridhar Allagi, Kuldeep Sambrekar, Sanjay B. Ankali, Advancements in deep learning techniques for brain tumor segmentation: A survey, Informatics in Medicine Unlocked, Volume 50, 2024, 101576, ISSN 2352-9148, <a href="https://doi.org/10.1016/j.imu.2024.101576">https://doi.org/10.1016/j.imu.2024.101576</a> .
2	Bahubali Akiwate, Sanjay Ankali, Shantappa Gollagi, Norjihan Abdul Ghani, "Information Security based on IoT for e-Health Care Using RFID Technology and Steganography", International Journal of Information Technology and Computer Science (IJTCS), Vol.16, No.3, pp.22-35, 2024. DOI:10.5815/ijitcs.2024.03.03.
3	Umarani, C. M. ., Gollagi, S. G., Bamane, K. D. ., Gupta, P. ., More, S. J. ., & Ankali, S. B. (2024). Accurate Segmentation of Brain Tumor Image using U-Net Based Self-Attention Mechanism. International Journal of Intelligent Systems and Applications in Engineering, 12(13s), 630.
4	Gollagi, Shantappa G., Maheswari, S.S., Sapkale, Pallavi V, Poojitha, Sabbineni, "Channel estimation for pilot contamination in massive MIMO-NOMA system", Journal of High Speed Networks, vol. Pre-press, no. Pre-press, pp. 1-19, 2024, DOI: 10.3233/JHS-230043.
5	Sanjay B. Ankali, Dr. S G Gollagi, Dr. Bahubali M. Akiwate, "Towards Reliable Code Plagiarism Detection: A Survey on Software Clone Detection", Journal of Advancement in Software Engineering and Testing, Vol. 6(1), 13–36, ISSN: 2584-2226. DOI: <a href="https://doi.org/10.5281/zenodo.7648418">https://doi.org/10.5281/zenodo.7648418</a> .
6	Vinod Biradar, Karuna C. Gull, "Utilizing Multimedia Frameworks to Boost Safety and Awareness for the Visually Impaired", Gongcheng Kexue Yu Jishu/Advanced Engineering Science (ISSN: 2096-3246), Volume 56, Issue 05, May 2024.
7	Prashant S. Jadhav, Vishal G. Salunkhe, R. G. Desavale, S. M. Khot, P. V. Shinde, P. M. Jadhav, Pramila R. Gadyanavar "Identification and Fault Diagnosis of Rolling Element Bearings Using Dimension Theory and Machine Learning Techniques" Journal of Tribology, ISSN: 0742-4787 E-ISSN: 1528-8897, DOI: <a href="https://doi.org/10.1115/1.4065335">https://doi.org/10.1115/1.4065335</a> .

## Patent Publication:

Name of applicant	Title of invention	Reference no	Published on
Dr.Sanjay Ankali	Development of Weight Bearing Ramp for Feedback Training	202341067776A	27/10/2023

## Book Chapter Publications:

Book Chapter Title	Authors	Book Title	ISBN	Chapter Details
An Assistive System for Physically Disabled People Using Nose and Eye Movements	Sunil B. Hebbale, Ashwini V. Gavali	Futuristic Trends in Computing Technologies and Data Sciences	e-ISBN: 978-93-6252-246-7	IIP Series, Volume 3, Book 2, Part 3, Chapter 2, Year 2024
Groundwater & Its Volume Detection Using Geographical Information System and Remote Sensing	Sunil B. Hebbale, Ashwini V. Gavali	Futuristic Trends in Computing Technologies and Data Sciences	e-ISBN: 978-93-6252-246-7	IIP Series, Volume 3, Book 2, Part 3, Chapter 1, Year 2024
Visual Feature Based Recognition and Segregation System for Industrial Intelligence using Deep Learning and Robotics	Dr. Bahubali Akiwate, Dr. Sanjay Ankali, Dr. Shantappa Gollagi, Dr. Shashidhar Gurav	Futuristic Trends in Artificial Intelligence	e-ISBN: 978-93-6252-530-7	IIP Series, Volume 3, Book 10, Part 5, Chapter 2, Year 2024

## Book publication:

Book Title	Authors	Publisher	Year of Publication	ISBN
The Principles of Artificial Intelligence	Dr. Suraj Damre, Mrs. Madhavi Panchakshari, Dr. Poonam Shityalkar, Mr. Vinod Biradar, Mrs. Suvarna Sonone	Wizcraft Publications & distributions	2024	978-93-92268-62-5

### NPTEL Certification by Staff :

Sl. No.	Name	Title	Weeks	Date
1	Prof. Sunil B. Hebbale	Computer Graphics Computer Graphics	8	Jul-Sep 2023
2	Dr. Bahubali M. Akiwate	Ethical hacking	12	Jul-Oct 2023
3	Prof. Ashwini V. Gavali	Programming in Java	12	Jul-Oct 2023
4	Prof. Pramila Gadyanavar	Introduction to Algorithms and Analysis	12	Jul-Oct 2023
5	Prof. Navin Mathad	Introduction to IoT	12	Jul-Oct 2023

### NPTEL Certification by Students :

Sl. No.	Name	Title	Weeks	Date
1	Anusha Gulagond	Programming in Java,	12	Jul-Oct 2023
		Data structure and Algorithms using	12	Jul-Oct 2023
		Java, Cloud computing	12	Jul-Oct 2023
2	V Shubha	Programming in Java	12	Jan-Apr 2024
3	Kavya R Khade	Programming in Java	12	Jan-Apr 2024
4	Tejashwini S Bahuddurdesai	Programming in Java	12	Jan-Apr 2024
5	Preeti Kudachi	Programming in Java	12	Jan-Apr 2024
6	Priyanka Gunaki	Programming in Java	12	Jan-Apr 2024
7	Aishwarya Samaje	Programming in Java	12	Jan-Apr 2024
8	Laxmi Hulikoppe	Programming in Java	12	Jan-Apr 2024
9	Mahalaxmi Aramani	Programming in Java	12	Jan-Apr 2024
10	Purva M Vathare	Programming in Java	12	Jan-Apr 2024
11	Shivali Drakshe	Programming in Java	12	Jan-Apr 2024
12	Archana Shitole	Programming in Java	12	Jan-Apr 2024
13	Kavya L Onti	Problem Solving through Programming in C	12	Jan-Apr 2024





**Fresher's Day 2023-24**



*During PRAXIS-2K24*



Chikodi, Karnataka, India  
CJQ5+8X2, road, Chikodi, Karnataka 591201, India  
Lat 16.437924°  
Long 74.610531°  
29/02/24 03:13 PM GMT +05:30



## Praxis 2K24



Women's day 2K23-24



Farewell Day 2023-24



*Farewell Day 2023-24*

*“Engineers are the architects of tomorrow, building solutions one problem at a time”*

*“Its not about ideas, its about making ideas happen”*

*"Dream it, design it, debug it- repeat until perfection"*

***“A Journey of Learning, Collaboration  
and Innovation”***



(Batch: 2023-24)

**“THE END OF AN ERA, THE BEGINNING OF  
INNOVATION”**

