



# SRUSHTI

newsletter



UiPath™  
Student  
Developer  
Champion

VAIDEHI V PAI



TALK ON ENGINEERING  
A CAREER FOR MY LIFE

A PRACTICAL APPROACH TO  
MODERN TECHNOLOGIES

FUTURETECH FUNDAMENTALS:  
EXPLORING IOT, ML, CYBERSECURITY  
AND BLOCKCHAIN



CANARA  
ENGINEERING COLLEGE

SUDHINDRA NAGAR,  
BENJANAPADAVU,  
BANTWAL, MANGALURU  
INDIA - 574219



NBA ACCREDITATION  
UP TO 30.06.2025

## EDITORIAL

### Chief Editor

**Dr. Nagesh H R**

Principal

**Dr. Karthik Pai B H**

Professor & HoD, Dept. of CSE

**Dr. Demian Antony D'Mello**

Professor & Dean Academics

**Dr. Rakshith M D**

Chairman

Associate prof., Dept. of CSE

## STUDENT MEMBERS

**Abhinava Krishna K S**

4CB21CS002

**Sivali Rao P**

4CB21CS109

**Ashwin Shenoy**

4CB21CS019

**Sakshath Rai K**

4CB21CS095

**K Ananya Prabhu**

4CB21CS038

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4CB21CS067

**Lavanya Laxmi Naik**

4CB21CS050

**Srushti Rajendra Naik**

4CB21CS112



To be recognized as a center of knowledge dissemination in Computer Science and Engineering by imparting value-added education to transform budding minds into competent computer professionals.



Provide a value-based learning environment enriched with ethics, honesty and integrity that equips students to cater to the needs of society and industry.



Augment the knowledge of students towards cutting-edge technologies and state-of-the-art tools of Computer Science & Engineering.



Create opportunities for all-round development of students through co-curricular and extra-curricular activities.



Promote research, innovation and development activities in the field of Computer Science among staff and students without any bias.

# DEPARTMENT PROFILE

The department was started in the year 2001 to offer undergraduate degree programme i.e Bachelor of Engineering (BE) in Computer Science & Engineering (CS&E). The department has dedicated, qualified and experienced faculty members to guide the students in academics. The faculty members are actively involved in teaching, product development and research. The faculty members have published number of research and review papers/articles in referred International journals and reputed International conferences which are archived at IEEE/ACM/Springer and other renowned digital libraries.

The department frequently organizes training programmes for the faculty, technical staff and students. The faculty frequently attends staff development programmes (SDP/FDP/Seminar) to update themselves in technological advancements and conferences to present research findings. The department aims at building the students' career by placing special emphasis on all-round development through continuous interaction with Industry.

Interactive sessions with experts from academia, research laboratories and industry are constantly held so as to enable students to gain knowledge on diverse and emerging fields. The campus placement has been scaling higher and higher peaks right from its inception with multinational companies recruiting students in large numbers. To increase the opportunity of placements to students, the department conducts soft skills training programmes, technical skill development activities and initiatives on self-learning (Spoken Tutorial programmes by IIT Bombay).

The department promotes extracurricular activities under the umbrella of the students' association & SPECS. The department brings out Annual technical magazine and newsletter which provides an opportunity for the students and staff to publish innovative ideas, programming tips and articles on current trends in computing and technology. The students' association and National Service Scheme (NSS) wing frequently conducts various programmes to strengthen leadership skills, teamwork and communication; and awareness on protection of environment and social responsibilities.



# PROGRAMME EDUCATIONAL OBJECTIVES (PEO)

- Graduates will work productively as computer science engineers exhibiting ethical qualities and leadership roles in multi-disciplinary teams.
- Graduates will design and deploy software that meets the needs of individuals and the industries.
- Graduates will adapt to the changing technologies, tools and societal requirements.
- Graduates will take up higher education and/or be associated with the field so that they can keep themselves abreast of Research & Development.

# PROGRAMME OUTCOMES (PO)

Engineering graduates in Computer Science and Engineering will be able to:

**Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.

**Problem analysis:** Identify, formulate, review research literature and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.

**Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal and environmental considerations.

**Conduct investigations of complex problems:** Use research-based knowledge and research methods, including design of experiments, analysis and interpretation of data and synthesis of the information to provide valid conclusions.

**Modern tool usage:** Select/Create and apply appropriate techniques, resources and modern engineering and IT tools, including prediction and modelling to complex engineering activities, taking comprehensive cognizance of their limitations.

**The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

**Environment and Sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts and demonstrate the knowledge of and need for sustainable development.

**Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the relevant scientific and/or engineering practices.

**Individual and team work:** Function effectively as an individual and as a member or leader in diverse teams and in multidisciplinary settings.

**Communication:** Communicate effectively on complex engineering activities with the engineering community and with the society-at-large, such as being able to comprehend and write effective reports and design documentation, make effective presentations and give and receive clear instructions.

**Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work as a member and leader in a team to manage projects and in multidisciplinary environments.

**Life-long learning:** Recognize the need for and above have the preparation and ability to engage in independent and life-long learning in the broadcast context of technological changes.

# PROGRAMME SPECIFIC OUTCOMES (PSO)

**Computer System Components:** Apply the principles of computer system software engineering to design, develop and deploy computer subsystems.

**Intelligent Internet Applications:** Apply the knowledge of data storage, analytics and internet architecture in designing Internet based application.



## HoD'S MESSAGE

**DR. KARTHIK PAI B H**  
Professor & HoD

I express my sincere gratitude to the Principal of CEC Dr. Nagesh H R, for his continuous support and encouragement to the Department of Computer Science and Engineering (CSE). On behalf of the entire department, I present this newsletter Volume 13, Issue 1. The major strength of the CSE department is a team of well qualified and dedicated faculty, who are continuously supporting the students for their academic excellence, cultural activities, co-curricular activities and sports. The future graduates of our department are ready to serve the industry and the nation. I am sure, this newsletter will act as a bridge between our students, faculty members, alumni and other educational institutions to reciprocate information and ideas for shaping our future journey. I sincerely thank all the faculty and staff members of the department and the students for their contributions to bring this newsletter to life.



## EDITOR'S MESSAGE

**DR. RAKSHITH M D**  
Associate Professor

It gives me immense pleasure that I was given the opportunity to prepare the Volume 13 Issue 1 of the CS&E Department Newsletter. As we all know, a newsletter mirrors a department's vision and mission. It also highlights events, activities and academic progress and achievements of both faculty and students. I hope that the newsletter encourages students to participate in Co-curricular and Extracurricular activities organized by our college and other institutions. Also the newsletter acts as a platform to motivate faculty members to publish research papers, take up online courses and participate in Faculty Development Programmes (FDPs) to improve their technical skills.

# STAFF ACHIEVEMENTS

## PhD *Awarded*



Dr. Rajgopal K T was awarded a PhD degree for the thesis titled "Swarm Intelligence Based Resource Allocation Mechanism for Cloud Environment", supervised by Dr. H. Manoj T. Gadiyar from the Department of Information Science and Engineering, Canara Engineering College, Bantwal.



Dr. Rakshith M D was awarded a Ph.D degree for the thesis titled "Real-time Recognition of Emotion through Efficient Hybrid Deep Neural Network Algorithm", supervised by Dr. Harish H Kenchannavar from the Department of Information Science and Engineering, Gogte Institute of Technology, Belagavi.

## Grant Sanctioned



Mrs. Babitha Ganesh Kulal has been selected as a recipient for the 2025 IEEE GRSS IDEA Professional Development Microgrant of 500 USD by the Geoscience and Remote Sensing Society (GRSS) on 14<sup>th</sup> June 2025.

## Workshop / Webinar Attended



Ms. Sushma has participated in the AICTE Training And Learning (ATAL) Academy Faculty Development Program on “**Deep Learning Intelligent Video Analytics and Computer Vision**” at P. A. College of Engineering from 21<sup>st</sup> – 27<sup>th</sup> January 2025.

Ms. Sushma has participated in the One Week National Level Faculty Development Program on “**Microsoft Power BI Data Analyst Associate**” conducted by ICT Academy from 24<sup>th</sup> to 28<sup>th</sup> February 2025.

Ms. Sushma has participated in the online Faculty Development Program on “**Deep Learning**”, organized by SkillDzire in collaboration with AICTE from 17<sup>th</sup> – 31<sup>st</sup> March 2025.

Mr. Shatananda Bhat P has participated in the Faculty Development Program on “**Cybersecurity**”, organized by National Cyber Security Standards (NCSS) India on 30<sup>th</sup> January 2025.

Mr. Shatananda Bhat P has participated in the online Faculty Development Program on “**Deep Learning**”, organized by SkillDzire in collaboration with AICTE from 17<sup>th</sup> – 31<sup>st</sup> March 2025.



Mr. Ajay S Shet has participated in the One Week National Level Faculty Development Program (online mode) on “**Research Innovations in Computer, Communications and Cognition**”, organized by Department of Information Science and Engineering in association with ACM Student Chapter-KLSGIT and IIC-KLSGIT from 17<sup>th</sup>-21<sup>st</sup> February 2025.

Mr. Ajay S Shet has participated in the Faculty Development Program on “**Innovation and Entrepreneurship**”, held from 24<sup>th</sup>-28<sup>th</sup> March 2025 at Sahyadri College of Engineering and Management, Mangaluru organized by All India Council for Technical Education (AICTE) and Ministry of Education’s Innovation Cell (MIC).

Mrs. Sukshma Shetty has participated in the AICTE Training And Learning (ATAL) Academy Faculty Development Program on “**Deep Learning Intelligent Video Analytics and Computer Vision**” at P. A. College of Engineering from 21<sup>st</sup> – 27<sup>th</sup> January 2025.

Mrs. Sukshma Shetty has participated in the Faculty Development Program on “**A Practical Approach to Modern Technologies**” at Canara Engineering College from 10<sup>th</sup> – 14<sup>th</sup> February 2025.





Dr. Vinay P has participated in the AICTE Training And Learning (ATAL) Academy Faculty Development Program on “[Deep Dive into AI: Latest Trends using Machine Learning and Deep Learning](#)” at Reva University from 13<sup>th</sup> to 18<sup>th</sup> January 2025.

Dr. Vinay P has participated in the One Week National Level Faculty Development Program on “[Microsoft Power BI Data Analyst Associate](#)” conducted by ICT Academy from 24<sup>th</sup> to 28<sup>th</sup> February 2025.

Dr. Pavithra D S has participated in the 6-Day Faculty Development Program on “[Mastering Research: Spotting Journal Scams & Finding Research Gaps](#)”, organized by ProMind Research Academy, Erode Tamilnadu from 13<sup>th</sup> -18<sup>th</sup> January 2025.



Mr. Kishor Shivathaya S has participated in the One Week National Level Faculty Development Program on “[Microsoft Power BI Data Analyst Associate](#)” conducted by ICT Academy from 24<sup>th</sup> to 28<sup>th</sup> February 2025.

Mrs. Verdine Saviola Noronha has participated in the One Week National Level Faculty Development Program on “[Microsoft Power BI Data Analyst Associate](#)” conducted by ICT Academy from 24<sup>th</sup> to 28<sup>th</sup> February 2025.



Ms. Kavya A M has participated in one day workshop on “[Artificial Intelligence and Machine Learning Mastery](#)”, organized by World Technocon in association with Tinkerer’s Lab at Indian Institute of Technology, Hyderabad on 8<sup>th</sup> March 2025.

Ms. Kavya A M has participated in one day workshop on “[Generative AI Mastery](#)”, organized by World Technocon in association with Tinkerer’s Lab at Indian Institute of Technology, Hyderabad on 9<sup>th</sup> March 2025.

# PAPER PUBLISHED/ PRESENTED IN JOURNALS/ BOOK CHAPTERS/CONFERENCES



## IEEE COSMIC 2024

Dr. Nagesh H R published a paper titled “Integrating Bi-Lstm With Deep Learning For Emotion Analysis From Brain Wave Patterns”, in 2024 IEEE International Conference On Computing, Semiconductor, Mechatronics, Intelligent Systems And Communications (cosmic), February 2025.

Dr. Nagesh H R published a paper titled “Road Surface Analysis Through Prognostic Model Using Image Processing And Deep Learning Techniques”, in 2024 IEEE International Conference On Computing, Semiconductor, Mechatronics, Intelligent Systems And Communications (cosmic), February 2025.



## VIRUSDISEASE, APRIL 2025

Dr. Karthik Pai B H published a paper titled “Comprehensive review and early detection strategies for severe fever with thrombocytopenia: insights from epidemiology, diagnostics, and evolving research with machine learning”, in VirusDisease, April 2025.

## 2025 ICAECT – INTERNATIONAL CONFERENCE ON ADVANCES IN ELECTRICAL, COMPUTING, COMMUNICATION AND SUSTAINABLE TECHNOLOGIES, APRIL 2025

Dr. Karthik Pai B H published a paper titled “Wearable Assistive Device for Enhanced Navigation in Visually Impaired Individuals Using YOLO-Based Object Detection”, in 2025 Fifth International Conference on Advances in Electrical, Computing, Communication and Sustainable Technologies (ICAECT), April 2025.

## DISCOVER APPLIED SCIENCES, VOL. 7, MAY 2025

Dr. Karthik Pai B H published a paper titled “Identification of prognostic factors contributing towards mortality in leptospirosis patients: a statistical and score-based model approach”, in Discover Applied Sciences, Vol.7, May 2025.

## 2025 IEEE INTERNATIONAL CONFERENCE ON ARTIFICIAL INTELLIGENCE AND DATA ENGINEERING, MAY 2025

Dr. Karthik Pai B H published a paper titled “Comprehensive Exploration of Acute Febrile Illnesses with Low Platelet Count Syndrome: From Epidemiology to AI-Driven Solutions”, in 2025 IEEE International Conference on Artificial Intelligence and Data Engineering, May 2025.



## 2025 4<sup>TH</sup> INTERNATIONAL CONFERENCE ON SENTIMENT ANALYSIS AND DEEP LEARNING (ICSADL) , MARCH 2025

Dr. Sunil Kumar B L published a paper titled “Evaluating Resizing Techniques for Lumpy Skin Diseased Animal Image using Metrics”, in 2025 IEEE 4<sup>th</sup> International Conference on Sentiment Analysis and Deep Learning (ICSADL), March 2025.

## FUSION: PRACTICE AND APPLICATIONS (FPA) - VOL. 19, ISSUE. 2 , MARCH 2025

Dr. Sunil Kumar B L published a paper titled “Hybrid chaotic bat artificial bee colony algorithm assisted hybrid machine learning based intrusion detection system”, in Fusion: Practice and Applications (FPA), Vol. 19, No. 02. PP. 45-63, March 2025.

## HYBRID AND ADVANCED TECHNOLOGIES, 2025

Dr. Sunil Kumar B L published a book chapter titled “A novel approach to automatic road-accident detection using deep mutual learning based technique”, in Hybrid and Advanced Technologies, 2025.

## 2025 IEEE INTERNATIONAL CONFERENCE ON ARTIFICIAL INTELLIGENCE AND DATA ENGINEERING (AIDE), MAY 2025

Mrs. Sukshma Shetty, Mrs. Sowmya K published a paper titled “Deep Learning approach for Identification and Classification of Tulsi Leaf Disease”, in 2025 IEEE International Conference on Artificial Intelligence and Data Engineering (AIDE), May 2025.



## IEEE 4<sup>TH</sup> INTERNATIONAL CONFERENCE ON ICT IN BUSINESS INDUSTRY & GOVERNMENT (ICTBIG)

Mr. Ajay S Shet published a paper titled “Metabolite Profiling of Herbal Medicines using an Artificial Intelligence Approach-A Concise Review”, in 2024 IEEE 4<sup>th</sup> International Conference on ICT in Business Industry & Government (ICTBIG), Indore, India, 2024.

## Online Course



Dr. Rakshith M D has successfully completed NPTEL Course on Blockchain and its Applications during Jan-Apr 2025, organized by IIT Kanpur.

# STUDENT ACHIEVEMENTS



K Rajath R Pai of 4th semester won first place in Poster Making at the National-Level Techno-Cultural event “Yukti 2025,” held at VTU, Belagavi, on February 20 and 21, 2025.



Ms. Shravya V. Shetty, 2nd year CSE, Canara Engineering College, has secured **Silver Medal** in Hammer Throw event held at JNNCE, Shimoga, on 18 March 2025.



Mr. Chirayu M. Rai, 3rd-year CSE student, has secured the **Bronze Medal** in the Shot Put event held at JNNCE, Shimoga, on March 17, 2025.



Mr. Nithin B R of 6th semester won first prize in the “TCS TechBytes IT Quiz 2025” (Mangalore Regional Zone), conducted by TCS and BITES, held at Sahyadri College of Engineering and Management, Mangaluru, on 18th March 2025.



Niveditha, a 2nd Year CSE student, emerged as the winner of the **Unstoppable Her - Drawing Competition** held at CEC on the occasion of Women's Day, March 8th, 2025. Her inspiring artwork beautifully captures the essence of empowerment and freedom.



Mr. Nithin B R from 6th semester has participated and won fourth prize in the 2025 State Finals of “TCS TechBytes IT Quiz” held at SJB Institute of Technology, Bengaluru on 8<sup>th</sup> April 2025.



Ms. Sruthi K S, Ms. Shridevi, Ms. Subhiksha and Ms. Sanya Pateel from 6<sup>th</sup> semester has secured best project award in the IEEE Project Expo-2025 held at Navkis College of Engineering, Hassan on 29<sup>th</sup> April 2025.



Ms. Vaidehi V Pai from 4<sup>th</sup> semester has been selected as UiPath Student Developer Champion during the UiPath Student Developer Champion Program on 30<sup>th</sup> April 2025.



VerbaClash, the ultimate debate battle of 2025, was held at CEC, showcasing a dynamic clash of ideas and eloquence. The event brought together sharp minds and persuasive voices in a spirited competition. Emerging as the top debaters were Gurudev Kini(1st place), and Nishrin Ali (3rd place)

## STUDENT PARTICIPATION IN SEMINARS/ CONFERENCES/WORKSHOPS/ NPTEL COURSES



Ms. Chinchana Laxmi P, Ms. Pragati Nayak, Mr. Naik Prajnesh Suresh, Mr. Mohammad Wafiq Hammaba, Mr. Mahant Mangesh, Ms. Chandana P, Mr. Jaison D Souza, Ms. Anisha Billava, Mr. Nithin B R and Mr. Kshithij Rai from 6<sup>th</sup> semester has participated in “TCS TechBytes IT Quiz” at Sahyadri College of Engineering and Management, Mangaluru on 18<sup>th</sup> March 2025.



Vaidehi V Pai from 4<sup>th</sup> semester has participated in “TCS TechBytes IT Quiz” at Sahyadri College of Engineering and Management, Mangaluru on 18<sup>th</sup> March 2025.

# 5th Sem Toppers



**CHINMAYI**  
4CB22CS028

**SGPA - 9.45**



**PRIYANKA NAYAK B**  
4CB22CS095

**SGPA - 9.32**



**DEEPIKA DEVARU GOUDA**  
4CB22CS036

**SGPA - 9.23**

# 7th Sem Toppers



**SHRADDHA K**  
4CB21CS104  
SGPA - 9.67



**SIVALI RAO P**  
4CB21CS109  
SGPA - 9.54



**JOYSLIN LAVITA  
MADTHA**  
4CB21CS036  
SGPA - 9.42



**N G ARAVIND**  
4CB21CS057  
SGPA - 9.54



**THUSHARA SHREE  
C H**  
4CB21CS116  
SGPA - 9.54



**K ANANYA PRABHU**  
4CB21CS038  
SGPA - 9.42



**P NIDHI PADIYAR**  
4CB21CS063  
SGPA - 9.54



**ANISH**  
4CB21CS015  
SGPA - 9.42



**KHUSHI KIRAN  
SHET**  
4CB21CS044  
SGPA - 9.42



**SHREYA**  
4CB21CS106  
SGPA - 9.54



**CHAITRA SHETTY**  
4CB21CS025  
SGPA - 9.42



**M AKSHAY PRABHU**  
4CB21CS052  
SGPA - 9.42

# FACULTY DEVELOPMENT PROGRAMS CONDUCTED

## A Practical Approach to Modern Technologies

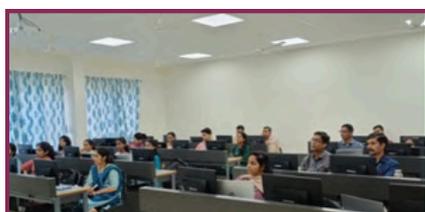
Department of Computer Science and Engineering, in association with the Department of Information Science and Engineering, organized a Five-Day Faculty Development Program (FDP) for Teaching Staff on “A Practical Approach to Modern Technologies” at Canara Engineering College from 10<sup>th</sup> to 14<sup>th</sup> February 2025. The program featured distinguished resource persons Mr. Shadab Khatib (Co-Founder, nTuring Technologies Pvt. Ltd.), Dr. Abhinandan P. Shirahatti (Associate Professor, KIT’s College of Engineering, Kolhapur), Mr. Vaibhav Chavan (AI Developer & Co-founder, Zeel), and Dr. Shivananda R. Poojara (Solution Architect, Airowire Networks Pvt Ltd, Bangalore).

The five-day FDP saw the participation of 29 faculty members, with four days of hands-on sessions covering cutting-edge technologies such as Full Stack Development (FSD), Machine Learning (ML), DevOps, and Cloud Computing. Participants gained expertise in implementing machine learning models for predictive analytics, developing cloud-based applications using DevOps tools, and building full-stack web applications with Express.js. On the fifth day, an industrial visit to Novigo Solutions Pvt. Ltd. was organized, providing participants with valuable insights into industry practices and an overview of the technologies used by the company.



The session covered Cloud Data Services (MongoDB, AWS, Azure), Business Intelligence (Power BI, Qlik, Tableau), Data Science & AI (KNIME, R, Python), Low Code/No Code (UiPath, OutSystems), Cloud Application Development (.NET, Angular, React, Scala), and DevOps (Docker, Jenkins, ServiceNow).

The event was coordinated by Ms. Saritha Suvarna, Dr. Ganesh Pai, Dr. Rajgopal K.T, Mr. Ajay Shet, and Mr. Dinesh Suvarna under the leadership of Dr. Karthik Pai B H, HoD, Department of CSE, and Dr. H Manoj T Gadiyar, HoD, Department of ISE.



# FutureTech Fundamentals: Exploring IoT, ML, Cybersecurity, and Blockchain

Department of Computer Science and Engineering, in association with the Department of Information Science and Engineering, organized a Two-Day Faculty Development Program for Technical Staff on “FutureTech Fundamentals: Exploring IoT, ML, Cybersecurity, and Blockchain” at Canara Engineering College. The program featured esteemed resource persons, including Mr. Mahesh Deginal (MD & CEO, Karunadu Technologies Pvt. Ltd.), Mr. Mahesh N. (CTO, Karunadu Technologies Pvt. Ltd.), Mr. Abhishek S. Rao (Assistant Professor, Department of IS&E, NMAMIT, Nitte), Dr. Roshan Fernandes (Professor & Head, Department of Cyber Security, NMAMIT, Nitte), and Ms. Tanzila Nargis (Assistant Professor, Department of IS&E, NMAMIT, Nitte)

The sessions offered hands-on practical exposure to emerging technologies. Participants gained skills in configuring IoT devices for smart monitoring systems, building machine learning models for predictive analytics, applying cyber security measures to mitigate risks and protect systems, and developing blockchain solutions for secure, decentralized data handling. The event was coordinated by Mr. Rajgopal K. T, successfully equipped participants with practical knowledge and technical expertise to address real-world challenges in these transformative fields.



# WORKSHOP/ SOCIAL ACTIVITY/ SEMINAR CONDUCTED

## Skill based Activity for PU Students

Department of Computer Science and Engineering, in association with IEEE, conducted a “Skill-Based Activity” for students of Govt. Pre-University College, Benjanapadavu on 29<sup>th</sup> January 2025. Sessions on Self-Introduction, Communication Skills, and Listening Skills were conducted by Mrs.Sukshma Shetty, Asst.Professor, Dept. of CSE. Technical assistance was provided by Ms.Sujanitha and Ms.Navyashree, Lab instructors, Dept. of CSE. Mrs.Sowmya K, Asst.Professor, Dept. of CSE coordinated the event. About 35 students attended the session.

## Hands on Session on Computer Fundamentals

Department of Computer Science and Engineering conducted a “Hands-on Session on Computer Fundamentals” for students of Govt. High School, Kallige, Nethrakere on 30<sup>th</sup> January 2025. Mrs. Sowmya K, Mrs. Babitha Ganesh Kulal, and Mr. Ajay Shet, Asst.Professors, Dept. of CSE were the resource persons. Topics covered were Microsoft Word, PowerPoint Presentation, and Paint. Mrs. Sukshma Shetty, Asst.Professor, Dept. of CSE. About 30 students participated in the session.

## A Session on Introduction to Machine Learning (ML)

Department of Computer Science and Engineering organized a “Session on Introduction to Machine Learning (ML)” for 4<sup>th</sup> semester students on 12<sup>th</sup> February 2025. The topics discussed were importance of ML, types of ML, workflow of ML, python libraries for ML, open source tools for ML, data visualization libraries and Integrated Development Environment (IDEs) used for carrying out ML projects. Mrs. Babitha Ganesh Kulal, Mrs. Sukshma Shetty, and Mr. Rakshith M D were the resource persons. Mr. Rakshith M D coordinated the event. About 173 students attended the session.



## Talk on Engineering: A Career for My Life

Department of Computer Science and Engineering organized a “Talk on Engineering: A Career for My Life” for 4<sup>th</sup> & 6<sup>th</sup> semester students on 19<sup>th</sup> February 2025. Dr. Udaya Kumar K Shenoy, Dean, Research and Development was the resource person. He motivated students to enhance their technical skills by carrying out projects, focus on core jobs and start-ups. Also encouraged students to solve societal problems through applying the design, develop and debug skills which demonstrates the qualities of an efficient engineer. Dr. Karthik Pai B H, HoD, Dept. of CSE was present during the session. Mr. Rakshith M D coordinated the event. About 258 students attended the session.



## Session on Roadmap to Data Structures and Algorithms

Department of Computer Science and Engineering organized a “Session on Roadmap to Data Structures and Algorithms” for 6<sup>th</sup> semester students on 12<sup>th</sup> March 2025. The topics discussed were preparation for placement drive process, candidate evaluation criteria, components of online assessment, HR interview process, overview of operating systems, mastering object-oriented programming, data structures and algorithms with examples. Mr. Aditya Pai, MTS Intern, NetApp, Bengaluru was the resource person. Mr. Ajay Shet coordinated the event. About 50 students attended the session.



# Hands-on Session on Amazon Web Services (AWS) Cloud

Department of Computer Science and Engineering organized a “Hands-on Session on Amazon Web Services (AWS) Cloud” for 6<sup>th</sup> semester students on 5<sup>th</sup> March 2025. The topics discussed were features and applications of AWS. Creation of AWS account, creation of virtual machine (VM) and required database, putty software for connecting users to remote computers, hosting applications was demonstrated. Mr. Alok Ranjan was the resource person. Mr. Rakshith M D coordinated the event. About 124 students attended the session.



# Hands-on Session on Technical Paper Writing

Department of Computer Science and Engineering organized a “Hands-on Session on Technical Paper Writing” for 6<sup>th</sup> semester students on 2<sup>nd</sup> April 2025. The topics discussed were standard outline of a technical paper with illustration, preparation of survey paper with example, overview of Springer, IEEE and Elsevier journals. The importance of presenting a paper in conference and publishing paper in journals was highlighted. Dr. Karthik Pai B H, Dr. Vinay P, and Dr. Gurudeva S Hiremath were the resource persons. Mr. Rakshith M D coordinated the event. About 59 students attended the session.



# A Hands-on Session on Python Problem Solving Bootcamp: Series-1

Department of Computer Science and Engineering organized an “A Hands-on Session on Python Problem Solving Bootcamp: Series-1” for 4<sup>th</sup> semester students on 5<sup>th</sup> March 2025. The topics discussed were applications of python, entering expressions into interactive shell, python datatypes and control flow statements. Mrs. Babitha Ganesh Kulal, Mrs. Namita A Amdalli and Ms. Kavya AM were the resource persons. Mr. Janardhana Bhat K coordinated the event. About 135 students attended the session.



# A Hands-on Session on Python Problem Solving Bootcamp: Series-2

Department of Computer Science and Engineering organized an “A Hands-on Session on Python Problem Solving Bootcamp: Series-2” for 4<sup>th</sup> semester students on 12<sup>th</sup> March 2025. The topics discussed were control flow statements in python, and lists with examples. Dr. Vinay P, Mr. Rakshith M D and Mr. Janardhana Bhat K were the resource persons. Mr. Janardhana Bhat K coordinated the event. About 133 students attended the session.



# A Hands-on Session on Python Problem Solving Bootcamp: Series-3

Department of Computer Science and Engineering organized an “A Hands-on Session on Python Problem Solving Bootcamp: Series-3” for 4<sup>th</sup> semester students on 19<sup>th</sup> March 2025. The topics discussed were tuples, sets and dictionaries in python with examples. Dr. Vinay P and Mr. Janardhana Bhat K were the resource persons. Mr. Janardhana Bhat K coordinated the event. About 113 students attended the session.



# A Hands-on Session on Python Problem Solving Bootcamp: Series-4

Department of Computer Science and Engineering organized an “A Hands-on Session on Python Problem Solving Bootcamp: Series-4” for 4<sup>th</sup> semester students on 2<sup>nd</sup> April 2025. The topics discussed were array creation and manipulation using numpy python library with examples. Mr. Rakshith M D, Mrs.Namita A Amdalli and Ms.Kavya A M were the resource persons. Mr. Janardhana Bhat K coordinated the event. About 69 students attended the session.



# Connecting Concepts to Code: DBMS Applications Using Node.js – Series-1

On April 21, 2025, fourth-semester CSE Section students participated in a hands-on practical session organized by the Department of Computer Science and Engineering at Canara Engineering College with the theme "Connecting Concepts to Code: DBMS Applications: Using Node.js-Series-1. The session's goal was to assist students apply database ideas in real-time with Node.js, motivating them to create mini projects and improve their practical skills.



Mr. Bangera Paveen Sudhakar, a fifth-semester student, led the session and highlighted how management concepts may be translated into practical implementations. He was assisted by Abheeshta P and B M Yashwanth, who volunteered to organize the workshop and assist students in debugging mistakes during the hands-on exercises.

Mrs. Saritha M. organized the event, which showed interest from 37 students. The session provided useful hands-on experience and encouraged students to explore backend development and database-based application building.

## An Expert session on “AI Tools for Manuscript Preparation and Submission”

The Departments of Computer Science and Engineering and Information Science and Engineering successfully organized an expert session on 26th June 2025, focusing on the effective use of AI tools in academic writing.

Dr. Abhishek S. Rao, Assistant Professor at NMAMIT, Nitte, served as the resource person and shared valuable insights on research article writing, ethical practices in publishing, and retraction. A hands-on demo on Mendeley Reference Manager helped participants explore smarter ways to manage references.



The session saw the enthusiastic participation of 46 faculty members across departments. Dr. Karthik Pai, HoD-CSE, appreciated Dr. Rao for his engaging presentation. The event was coordinated by Ms. Babitha Ganesh Kulal.



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