

# Arohana

## The Rising

NEWS LETTER FROM CANARA ENGINEERING COLLEGE



*Department Activities*

*Staff Achievements*

*Student Achievements*

## EDITORIAL

### Chief Editor

**Dr. Udaya Kumar K Shenoy**  
Professor & I/c HoD

**Mrs. Ashwini K G**  
Assistant Professor

## STUDENT MEMBERS

**Mr. Himanshu**

**Ms. Gowda Sandya Kantappa**

**Ms. Diya D Sanil**

**Ms. Shravya K**

**Mr. K Manish Rao**

**Mr. Anirudha Udupa**

**Ms. Melisha**

**Ms. Shradha Kamath**

## VISION

To be recognized as a centre of excellence in Computer Science and Business System producing a pool of engineers through advanced knowledge and innovation in analysis, computation and solution of real time problems of mankind.

## MISSION

- To provide a learning environment endowed with competence and expertise in Computer Science and Business System education.
- To promote a culture of entrepreneurship and innovation among students by disseminating knowledge and best practices in the domain.
- To create opportunities for all-round development students through co-curricular activities and extra-curricular activities and foster lifelong learning.
- To impart value-based learning among students enriched with ethics to address the needs of society and industry.





# Arohana

NEWS LETTER FROM CANARA ENGINEERING COLLEGE

## DEPARTMENT PROFILE

The department was started in the year 2021 to offer under graduate degree programme i.e. Bachelor of Engineering (BE) in Computer Science & Business System (CSBS). The department has qualified, experienced and zealous faculty members to guide the students in academics and career. The faculty members are actively involved in teaching, product development and research. The department aims at building the student's career by placing special emphasis on all-round development through continuous interaction with Industry. The campus placement has been scaling higher and higher peaks right from its inception with multinational companies recruiting students in large numbers. The department aspires to promote start-up ideas and entrepreneurship among students to cater the needs of society. Bachelor of Engineering in Computer Science & Business System programme

aims to impart cutting-edge technologies and business skills among students to become competent industry ready IT professionals, researchers and entrepreneurs. This program provides hands on exposure to emerging technologies in data analytics and computation, software development, marketing research, operation management etc. The programmer's goal is to provide skill learning to solve problems in aspects of science, technology, business and society.

To increase the opportunity of placements to students, the department conducts soft skills training programs, technical skill development activities and initiatives on self-learning (Spoken Tutorial programs by IIT Bombay). The students' association and National Service Scheme (NSS) wing frequently conducts various programs to strengthen leadership skills, teamwork and communication; and awareness on protection of environment and social responsibilities.



Sudhindra Nagara Benjanapadavu, Bantwal Taluk, Mangaluru, D.K.District Karnataka, INDIA - 574219 Ph-8592727001 / 8904737001



## PROGRAMME EDUCATIONAL OBJECTIVES (PEO)

1. Graduates will apply knowledge and skills of computer science and business system to address challenges in various aspects of technology, business and society.
2. Graduates will engage in lifelong learning by adapting to changing industrial and societal needs.
3. Graduates will work efficiently and effectively as computer science and business systems engineers exhibiting team spirit, leadership and ethical qualities.

## PROGRAMME OUTCOMES(PO)

- 1.Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.
- 2.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.
- 3.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.
- 4.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.
- 5.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.
- 6.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.
- 7.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.
- 8.Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the relevant scientific and/or engineering practices.
- 9.Individual and team work:** Function effectively as an individual and as a member or leader in diverse teams and in multidisciplinary settings.
- 10.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.
- 11.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.
- 12. 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)

- 1.To engage in entrepreneurial activities and provide solutions to problems of society via IT.
- 2.Apply concepts of business intelligence and data analytics to design and develop business processes and strategies.

## New Leadership: Head of Department



**Dr. Udaya Kumar K Shenoy**, Professor has taken charge as the new Head of the Department.

## STAFF ACHIEVEMENTS

### WORKSHOP /FDP ATTENDED



**Mrs. Pooja Kini** has attended the Five Days Faculty Development Program on “Industrial Applications of Artificial Intelligence and Data Science” held from 16th to 20th January 2024, Organized by the Dept. of Artificial Intelligence and Data Science, in association with the staff development center, NITTE DU.

### WORKSHOP /FDP ATTENDED

**Mrs. Aishwarya K.** has participated in “Empower ED” One Day Faculty Development Program on personal and professional growth held on 27th February 2024 organized by the Internal Quality Assurance Cell in association with Training Career Guidance and Placement Cell, Canara Engineering College.



### WORKSHOP /FDP ATTENDED

**Mrs. Yashaswini K.L** has attended a One Week Faculty Development Program (online) on “Data Science and Its Applications” from 5th April to 12th April 2024, conducted by FDP Division, A.C.T. Academy, Kerala. Additionally, she has participated in a Three Day Faculty Development Program on “MongoDB - A Project-based Hands-on online Training,” organized by the Dept. of CSE, Sai Vidya Institute of Technology, Bengaluru, in association with VTU Belagavi, held from 16th to 18th April 2024.



## Publications



- Kumar, H. N. Naveen , Prasad, M. S. Guru , Gujjar, J. Praveen, Sharath, K. R., **Gadiyar, H. Manoj T.** & Dubey, Arun Kumar(2024)-Paper Title “The integration of machine learning and IoT for the early detection of tomato leaf disease in real-time”, Published in Journal of Information and Optimization Sciences, 45:2, 305–314, DOI: 10.47974/JIOS-1548 (WoS).
- **H. Manoj T. Gadiyar**, et.al-Paper Title “Design of an AI based system to monitor the network traffic by looking for suspicious activity”, Published in industrial engineering journal with ISSN 0970-2555 , volume XVII & ISSUE NO.02 February 2024, Page 30-39. (UGC-Care-List-1).

## NPTEL

## Online Courses



**Mrs. Ashwini K G** has successfully completed the NPTEL Course on “Introduction to Machine Learning” in January 2024. She received a Certificate of Appreciation for being recognized as the NPTEL Discipline Star for the period of January to April 2024 in the field of Computer Science and Engineering. Additionally, she has successfully completed all the requirements for the SWAYAM NPTEL Domain Certification in Data Science, with the courses being completed in April 2024.

**Mrs. Pavithra H B** has successfully completed the NPTEL Course on “Research Methodology” in Jan to April 2024. Additionally, she has successfully completed NPTEL Course on “Matlab Programming for Numerical Computation” in Jan to April 2024.



## ACADEMIC TOPPER'S

### 5th Sem Topper's



Ms. Rakshitha A Bhaktha  
4CB21CB040



Mr. Himanshu  
4CB21CB019



Ms. Shrivya K  
4CB21CB051



Ms. Gowda Sandya Kantapp  
4CB21CB018



Ms. Nikhitha Ganapathi Bhat  
4CB21CB029



Mr. Nikhil N Pai  
4CB21CB028



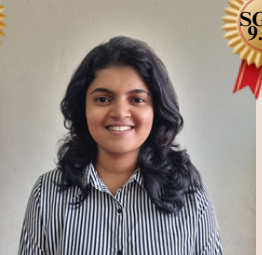
Ms. Diya D Sanil  
4CB21CB016



Ms. Swedel Lawrence Dsouza  
4CB21CB055



Mr. C Thushar  
4CB21CB007



Ms. Kratika Ravi Naik  
4CB21CB021

### 3rd Sem Topper's



Melisha  
4CB22CB037



Prathiksha Harish Baleri  
4CB22CB044



Mohini Ganapati Pai  
4CB22CB038



Sanketh K Kottary  
4CB22CB050

## STUDENT ACHIEVEMENTS



Mr. Anirudha Udupa, Mr. Jonathan D souza, Mr. Navaneeth Arya and Mr. Krishna H. Pallan secured 3rd place at Infothon 2.0, the 24-hours National Level Hackathon held at Vidyavardaka College of Engineering, Mysore ,on January 20th and 21st ,2024 winning cash prize of 3000.

## Student Participation

### Technical Events

- Ms. Priyanka Bharadwaj, Ms. Pragathi, Ms. Sahana K.R participated in quizholic Competition held at Shree Devi Institute of Technology, Mangalore.
- Mr. Himanshu participated in ROBO Soccer BOT, Bot Building Competition held at Visvesvaraya Technological University, Belagavi.
- Ms. Diya D. Sanil, Mr. Saatvik, Mr. Varun Shetty has Successfully Completed CSS test organized at Canara Engineering College.
- Mr. Varun Raj, Mr. Anirudha Udapa, Mr. Sanketh Kottary Participated in IEEE Comsoc held at R V C, Bangalore.

### Cultural Event

- Mr. Himanshu participated in Saksham held at Visvesvaraya Technological University, Belagavi.
- Ms. Shravya R participated in Nartan event and Rangan held at Visvesvaraya Technological University, Belagavi.

### Online Certifications

- Mr. B Sandeep Kamath, Mr. Aditya completed Foundation of course on Cybersecurity.
- Ms. Shravya R completed Common Internship Test in Online.
- Mr. Varun shetty completed course on Play It Safe: Manage Security Risks, Fronted for java Full Stack Developement, Ethical hacking essentials, Foundation of Cybersecurity.
- Ms. Nidhishree Mohan Shet completed course on Business Application of Data Science, Investment Risk Management, Getting Started in Google analytics and Introduction to digital marketing.
- Ms. Prathiksha D completed course on RPA Basic and introduction to Uipath.
- Ms. Nichell Mariet Mirand completed course on Introduction to front end developement.
- Ms. Deeksha completed course on Cloud computing foundation.
- Ms. Charanya K Naik completed course on Programming in Java.
- Ms. Melisha completed course on Foundation of Cybersecurity, Play It Safe :manage Security Risks, Sound the alarm: Detection and Response, Asset Threats and Vulnerabilities, Connect and Protect: Networks and Network Security, Put it to work : Prepare for Cybersecurity Jobs, Tools of the Trade: Linux and SQL and Automate Cybersecurity Tasks with python.
- Ms. Ananya Kottary completed course on Foundation of Cybersecurity and Play It Safe :manage Security Risks.



## NPTEL

## Online Courses



**Ms. Charanya K Naik** Completed Python for Data Science Online NPTEL Course.

**Ms. Diya D Sanil** Completed Yoga for Concentration Online swayam Course.



## Department Activity

### Achieving Problem - Solution Fit and Product - Market Fit



**CANARA ENGINEERING COLLEGE**  
SUDHINDRA NAGARA, BENJANAPADAVU, BANTWAL TQ, D.K - 574219

INSTITUTION'S INNOVATION COUNCIL  
IN ASSOCIATION WITH  
DEPARTMENT OF COMPUTER SCIENCE AND BUSINESS SYSTEM

PRESENTS  
A SESSION ON

### Achieving Problem-Solution Fit & Product-Market Fit

**RESOURCE PERSON**  
**DR. VENKATESH NAGARAJA**  
Professor & HOD  
Dept. Of Mechanical Engineering

For 3rd year CSBS students & open to all

31st January 2024  
2 PM onwards

Seminar Hall 2

**Program Coordinator**  
Mrs. Pooja Kini  
Asst. Prof., Dept. Of CSBS

**Program Chair**  
Dr. H. Manoj T. Gadiyar  
HOD, Dept. Of CSBS

Dr. Nagesh H.  
Principal

The Department of Computer Science and Business System in association with Institution's Innovation council conducted an insightful session on "Achieving Problem-Solution Fit and Product-Market Fit" on 31st January 2024. Dr. Venkatesh Nagaraja, Professor and Head, Department of Mechanical Engineering was the resource person for the event. Dr. Nagesh H R, Principal, Canara Engineering College addressed the students and shared his experience on importance of Product-Market fit. The program was chaired by Dr. H Manoj T Gadiyar, Professor and Head, Department of Computer Science and Business System. The session consisted insights on identifying and understanding customers' needs and pain points, importance of knowing the target customers, validating their problem, aligning customers' needs with solution business offers through its products and services. At the end of session, team activity was conducted where each team came up with a problem statement. A total of 57 students from CSBS department participated in the event. Ms. Pooja Kini, Assistant Professor, Dept. of CSBS coordinated the event.

## TECHMAZE

On February 07-02-2024, department of Computer Science and Business System organized event TECHMAZE, organized by the second-year CSBS students. A total of 41 students participated, engaging in multiple rounds of competition. Ultimately, the winners and runners-up were selected. Runner up Details 1.Melisha-4CB22CB037 2.Diya-4CB22CB021 Winner Details 1.Yatheesha K V-4CB22AI063 2.Karthik Baliga-4CB22AI026



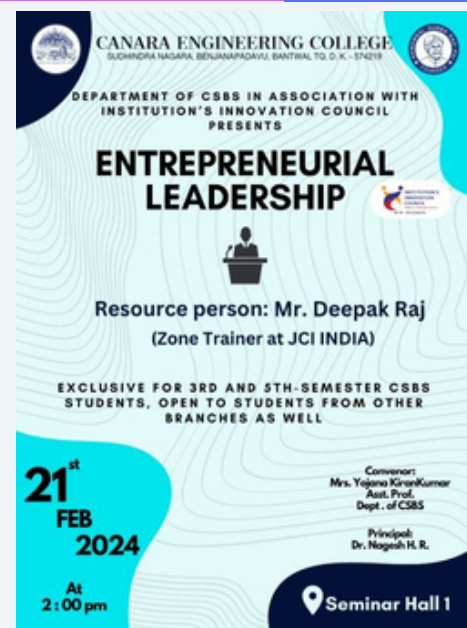
## Achieving Problem - Solution Fit and Product - Market Fit - Part 2



The Department of Computer Science and Business System in association with Institution's Innovation council conducted an insightful session on "Achieving Problem-Solution Fit and Product-Market Fit – Part 2" on 14th February 2024. Dr. Venkatesh Nagaraja, Professor and Head, Department of Mechanical Engineering was the resource person for the event. The session consisted insights on importance of analysing the problem statement on the basis of 5 Ws, requirement of supporting evidence, identifying people affected by the problem, context impact, timeframe and worthiness of the problem. The event provided the students with a hands on experience on creating an Empathy Map for the problem identified. A total of 50 students from CSBS department participated in the event. Ms. Pooja Kini, Assistant Professor, Dept. of CSBS coordinated the event.

## Entrepreneurial Leadership

Department of Computer Science and Business System in association with Institution's Innovation Council at CEC an insightful session on "Entrepreneurial Leadership" on February 21, 2024, Mr. Deepak Raj, Zone Trainer - JCI India, was the resource person for the event. Dr. Nagesh H. R., Principal of Canara Engineering College, addressed the students and emphasized the significance of leadership in academics as well as an entrepreneur. The programme was chaired by Dr. H. Manoj T. Gadiyar, Professor and Head, Department of Computer Science and Business System. Throughout the session, students received insights into the Fundamental difference on the role of Leader/Manager and Entrepreneur, Qualities to be entitled for an Entrepreneur, Decision Quality, Types of Leadership, Risk Factors for a Entrepreneur, steps to generate super ideas, Conflict management, Closing with 3Cs - Curiosity, Creation of Value and Connections The interactive session culminated with an activity. A total of 100 students from the department of CSBS participated in the event. Ms. Yojana KiranKumar, Assistant Professor, Dept. of CSBS, coordinated the event.



## A Session on Social Etiquette & Study Techniques



On May 22-05-2024, department of Computer Science and Business System organized a session on “ Social Etiquette & Study Techniques”, The session commenced with practical examples to understore the significance of good manners. We explored why they are vital, their purpose and practical application. Participants were encouraged to Consider " what, were, how" before their behaviour. We delved into the purpose of etiquette, emphasizing it's role in fostering respect and it's impact on personality development. The resource person adeptly addressed study techniques, focusing on effective reading and compression strategies. Common mistakes in studying were highlighted and participants were encouraged to analyse their learning styles. Establishing a study routine was emphasized as crucial for academic success. The resource person highlighted various study techniques and encouraged them to follow what they are comfortable with.

## C Programming 101: Your first step into coding.

On June 12-06-2024, the department of Computer Science and Business System organized a session on " C Programming 101: Your first step into coding" for first year CSBS students in the LH-101. Mr. Anirudh Udupa, 2nd year, CSBS. Mr. Varun Raj, 2nd year, CSBS led hands-on session covering C programming basics. They taught C variables, data types, structure, functions, statements, using pointers in different situations and sample c programs. A total 62 students participated, with coordination by Mrs. Aishwarya K, Department of CSBS.



## Industrial Visit to Skill Lab at ComedKares Innovation Hub



The Department of Computer Science and Business System in association with Institution’s Innovation Council organized an industrial visit to Skill Lab at ComedKares Innovation Hub, Mangalore on 25 th June 2024.

The event included hands-on session on RC BOT controlled by mobile for the 2 nd year students of CSBS Department. ComedKares is an initiative by COMEDK to help students enhance their skills by giving access to machines, tools and mentors to build products and solutions that impact community. The students had the opportunity to build the bot and experiment with its functionalities. The event provided students valuable insights into the world of robotics and mobile technology.

Dr. Udaya Kumar K Shenoy, HOD, Department of CSBS served as the convenor of the industrial visit. Ms. Yashaswini K L, Assistant Professor at the Department of CSBS and a total of 60 students participated in the event.

## Building a Cyber Security Culture



On June 26-06-24, the department of Computer Science and Business System organized “Building a Cybersecurity Culture” Vaishnavi, the class representative of 4th semester CSBS, welcomed the resource persons and provided a brief introduction about them. The speaker Dr. Manoj T. Gadiyar and Venkatesh Kamath discussed different password security best practices and phishing scams, including live examples.

