



CANARA ENGINEERING COLLEGE
BENJANAPADAVU , BANTWAL TALUK, DK -574219



▶▶▶▶▶ **CSD** NEWSLETTER ◀◀◀◀◀

BITS & BYTES

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Department Of Computer Science and Design



Dr. Ankitha K
Head of Department



Mrs. Archana S
Chief Co-ordinator

www.canaraengineering.in

HoD's Message

I'm pleased to see that the Department of Computer Science and Design has published its newsletter for the Academic Year 2022–2023 listing the many endeavours and successes of our faculty and students. The department works to develop professionals who are self-assured and responsive to the challenges of the industry. The department provides a top-notch learning environment with a team of faculty members who are well skilled to motivate students to advance their technical knowledge and foster a spirit of collaboration. As the department head, I would like to express my gratitude to all of the professors, support personnel, and students for their unwavering commitment to the growth and improvement of the department. I'd like to take this opportunity to thank the editorial board's entire staff for bringing up this matter in better shape.

Student Members



Goutham Pai
Co-ordinator



M. Shridevi Prabhu
Designer



Ajay Bhandary
Content Writer



Srinidhi R
Content Writer

Vision

To be a globally competent center in Computer Science and Design committed to produce a pool of knowledgeable engineers to extend solutions for the mankind in the field of software and design.

Mission

- Provide the environment to become industry ready Professionals, Researchers and Entrepreneurs by offering emerging courses.
- Imparting experiential learning to gain proficiency in contemporary software and design tools to meet the current demands of the industries.
- Develop teamwork and problem-solving abilities, foster lifelong learning and instill sense of ethical and societal responsibility among students.

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 & Design (CS&D). To guide the students with their academics, the department includes enthusiastic, skilled, and experienced teaching members. 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.

A course in computer science and design is related to a course in computer science and engineering, which emphasises not only computing technologies, software, programming, and tools but also various design techniques and interaction approaches. The program's goal is to provide students with an interdisciplinary skill set that will allow them to succeed in a variety of industries, including the information technology field, animation, virtual reality, augmented reality, multimedia, robotics, game development, entertainment, and digital analytics, among others.

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. 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).

Programme Educational Objectives

- Exhibit the knowledge and skill sets to acclimatize to the significant technical innovations and modifications in the field of computer science and design.
- Become accustomed to a corporate work atmosphere, carrying out assigned tasks with competence, and being able to keep up with new technology developments to launch start-ups and research.
- Engage in inventive work to capitalize on novel ideas for enhancing socio-economical values of the mankind.

Programme Outcomes

Engineering graduates in Computer Science and Design 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 specific 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

- Apply designing principles and mathematical concepts to make the students well-versed with full stack applications.
- Design and develop computer programs/computer-based systems in various areas of Multimedia, Graphics and User Interface.

Faculty Achievements

Ankitha K

- Attended faculty development program on research proposal development organized by Manipal Institute of Management, MAHE, Manipal
- Delivered a guest talk on “ Application of NP-hard and NP complete in Research and IT” at Sahyadri College of Engineering and Management, Mangaluru
- Delivered a guest talk on “ NP hard problems” at Alva’s Institute of Engineering and Technology
- Reviewer for the International Journal Measurement :Sensors (Elsevier journal) and Optik (Elsevier journal) which is SCI indexed

Soorajprasad M H

- Attended 5-day faculty development program on Microsoft Power Data Analyst Associate conducted by ICT Academy, at Bapuji Institute of Engineering and Technology, Davangere.

Student Achievements

- 14 students from the CSD has participated as a part of skill enhancement activity conducted by team SPARK
- 2 students from the CSD has successfully completed Karnataka digital economy mission 5K Walkathon 2022
- 2 students from the CSD took 12 week certification course by NPTEL
- 2 students from the CSD has participated in the user awareness program on NDLI
- 2 students from the CSD has completed the workshop on “making of line follower Robot” under project Tarunodaya of India stem mission.
- 3 students from the CSD participated in inter college techno - cultural fest Aakriti 2022
- 2 students from the CSD has certificate from Narcotics Control Bureau for the pledge “say yes to life, No to drugs”

Departmental Activities

BRANCH ENTRY

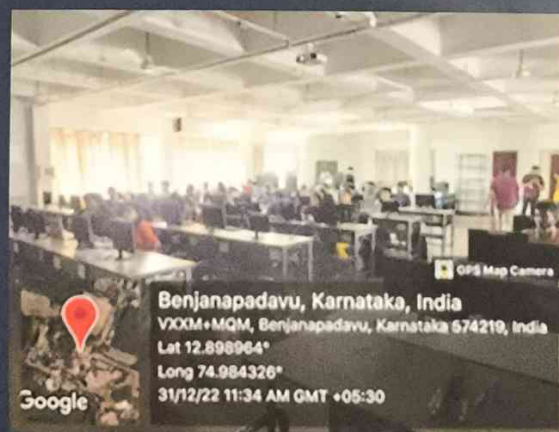
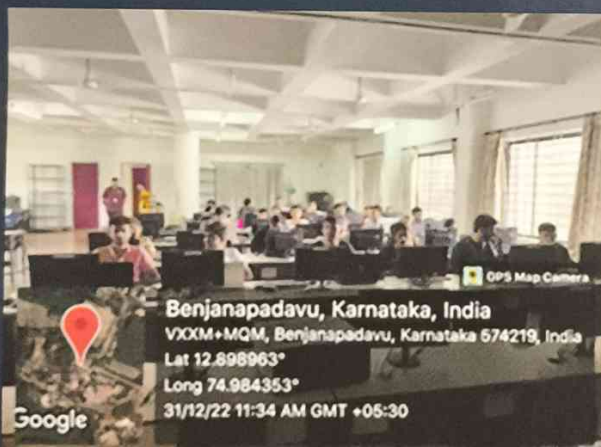
The Computer Science and Design Branch Entry program was organized by the department cultural committee on 24th November 2022 in the AC Seminar Hall. The program was coordinated by Mr. Soorajprasad, Assistant Professor and Chaired by Dr. Ankitha K, HOD, Department of CSD.

Dr. Ankitha K, Head of the Department of Computer Science and Design addressed the second-year students and spoke about the department's Vision, Mission, Opportunities in the field of CS&D. Here is a glimpse.



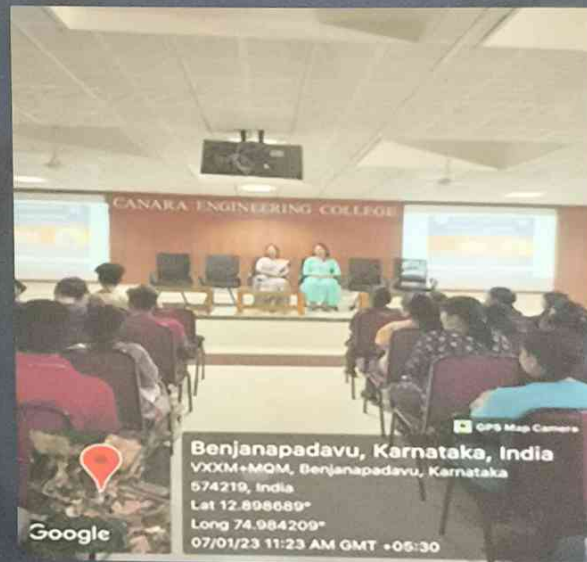
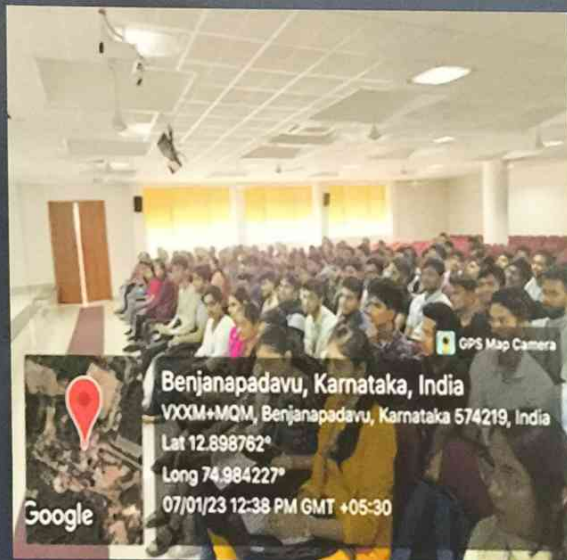
FIGMA FUNDAMENTALS A HANDS ON WORKSHOP

A Figma Fundamentals workshop was held for students of the Computer Science and Design branch by Mr. Vignesh Kunder, Club Advisor, Design Club, on December 31, 2022. The workshop was attended by 60 students and aimed to provide an introduction to Figma, a popular collaborative design tool. The workshop began with a brief overview of Figma's capabilities and its place in the design industry. Students were then guided through the basics of the Figma interface and shown how to create and edit simple designs. The workshop also covered topics such as working with layers, using vector graphics, and collaborating with team members in Figma.



SEXUAL HARASSMENT AWARENESS

A session on sexual harassment was organized by the Internal Complaint and Women Welfare Committee on January 7, 2023. The resource person for the event was Smt. Kavitha Muruges, Advocate and Notary, Asst. Professor SDMCBM, Mangalore. The session was very interactive and helpful in creating awareness among students about sexual harassment.



IoT WORKSHOP

The students of Computer Science and Design participated in the 3 days of Hands-on Workshop on “Internet of Things for Beginners” organized by the Department of AIML, Canara Engineering College Benjanapadavu.



VTU E-Resources

The department of central library and information centre conducted an awareness programme on 'Best Usage Of VTU E-Resources' on 30/11/2022 by Mrs.Supriya AV, Assistant Professor, Department of AIML.

The students were shown a demonstration of remote access solution specifically designed for effective access of digital content subscribed by VTU consortive such as e-journals, e-books and so on



2nd Semester Results

Number of Students		Passing Percentage
Attended	Passed	86.89
61	53	

STUDENTS WITH 9 & ABOVE CGPA



It is with great pleasure that we announce the outstanding academic achievements of eight exceptional students from the esteemed Department, who have achieved a CGPA of 9 or higher during their first and second semesters. In particular, we would like to recognize the remarkable accomplishments of Aditi N, who secured the highest CGPA among all first-semester students with an impressive score of 9.4, and Prabhudh Shetty, who attained the highest CGPA of 9.7 in the second semester. We congratulate these exceptional scholars for their exemplary academic performance and wish them continued success in their future endeavors.

Student Reviews



The department has highly qualified and experienced faculty members who are well-versed in computer science and design, and are able to effectively guide students in their studies. The Department of Computer Science and Design is a great choice for students who are interested in pursuing careers in computer science and design.

Dhanush V Shetty



During my admission, I was drawn to the unique blend of computer science and design. Upon joining, I found the branch to be highly innovative and distinct, thanks to the experienced and knowledgeable teaching faculty.

Shashank Gowda



I thought computer science and design was interesting when I first heard of it, and the program surpassed my expectations with knowledgeable teachers and teaching beyond just design. It will be very helpful for my future career.

Purag P Rai



The facilities and resources available to students, including state-of-the-art computer labs and design software, are top-notch. Overall, the Computer Science and Design department has been providing me with an excellent education and valuable experience that I will carry with me into my future career.

Ramya Achari