

SRUSHATI

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CANARA
ENGINEERING COLLEGE

Benjanapadavu,
Bantwal Taluk
Mangaluru,D.K. District
Karnataka, INDIA

DEPARTMENT OF

COMPUTER SCIENCE
&
ENGINEERING



HIGHLIGHTS

Employability Skills for the Future



Imparting Modern Technology to Next Generation

What is Artificial Intelligence (AI)?

- Artificial intelligence (AI) makes it possible for machines to learn from experience, adjust to new inputs and perform human-like tasks. Most AI examples that you hear about today. Example: Siri , Google Assistant.

Hey Siri

- Staff Achievements
- Placement Statistics
- Reader Friendly Website for NGO
- Industry institute partnership cell (IIPC) Activities
- Students Achievements
- Online Teaching Learning Process

Editorial Board



Dr. Demian Antony D'Mello
Professor & HOD
Dept. of CSE



Dhananjaya B
Chairman

Student Members



Anusha Shenoy



Sudeepthi P R



Payaswini Kamath



Nishmitha T



Venkatesh Kamath N



Delia M D'souza

VISION

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

MISSION

- Provide a learning environment enriched with ethics that helps in enhancing problem solving skills of students and, cater to the needs of the society and industry.
- Expose the students to cutting-edge technologies and state-of-the-art tools in the many areas 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 among staff and students.

DEPARTMENT PROFILE

The department was started in the year 2001 to offer under graduate degree programme i.e. **Bachelor of Engineering (BE) in Computer Science & Engineering (CS&E)**. The department also offers post graduate programme in engineering i.e. **MTech in Computer Science Engineering (CS&E)** since 2011. 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 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 student's 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

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

PROGRAMME OUTCOME

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

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 specific 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 practice.
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

- Computer System Components: Apply the principles of computer system architecture and software to design, develop and deploy computer subsystem.
- Data Driven and Internet Applications: Apply the knowledge of data storage, analytics and network architecture in designing Internet based application

STAFF ACHIEVEMENTS

Journals

Dr.Demian Antony D'Mello & Mr.Santosh Kumar DK Published a paper entitled 'Efficient Algorithms for Cleaning and Indexing of Graph data' in [International Journal of Open Source Software and Processes \(IJOSSP\)](#), Vol. No. 11, Issue No. 3, pp.1-19, 2020, DOI:10.4018/IJOSSP.2020070101.

International Conferences

- Dr. Suresha D Participated in International Conference on "AI Robotics and Automation" orgaized by ICT Academy from 14/10/2020 to 18/10/2020.
- Dr. Suresha D, has Officiated a Session Chair for International Conference on "International Conference of Frontiers in Engineering, Science and Technology-2020" organized by Yenepoya Institute of Technology, Moodabidri, Mangaluru on 18/12/2020.
- Mr. Dhananjaya B presented a paper in IEEE proceedings of [4th International Conference on Electronics, Communication and Aerospace Technology \(ICECA-2020\)](#) ISBN: 978-1-7281-6386-4

FDP's Attended

- Dr. Suresha D & Dr. Jagadisha N Participated in online Faculty Development Program on “**Artificial Intelligence**” organized by Canara Engineering College Sponsored by AICTE Training and Learning (ATAL) Academy From 14/12/2020 to 18/12/2020.
- Dr.Suresha D & Dr. Jagadisha N Participated in Faculty Development Program on “**Block Chain**” organized by Malnad College of Engineering Sponsored by AICTE Training and Learning (ATAL) Academy from 03/11/2020 to 7/11/2020.
- Saritha Suvarna and Pavithra D.S participated in the Five Day Online Faculty Development Program on “**RECENT TRENDS IN DATA SCIENCE APPLICATIONS**” from 23rd November 2020 to 27th November, 2020 organized by the department of Computer Science and Engineering in association with ISTE Faculty Chapter, SMVITM, Bantakal.
- Pavithra D.S Attended a Five –Days online FDP on “**Application development on Machine Learning and Artificial Intelligence**” by Dept. of ISE, PESITM, Shivamogga from August 24th to 28th 2020.
- Shrisha HS & Anupama V attended Participated in a Five day online Faculty Development Program on “**Computer Science and Biology**” organized by Malnad College of Engineering, Hassan Sponsored by AICTE Training and Learning (ATAL) Academy From 19/1/2021 to 23/1/2021.

Short Term Training Programme

Dr. Jagadish N attended One Week STTP on “**Computer Forensics and Cyber Crime**” held from 23/11/2020 to 28/11/2020 through online mode organized by JSSATE, Noida Department of Computer Science and Engineering Sponsored by AICTE

Invited Lectures

Dr. Suresha D Delivered an invited talk during International Conference on “**International Conference of Frontiers in Engineering, Science and Technology-2020**” organized by Yenepoya Institute of Technology, Moodabidri, Mangaluru on 18/12/2020.

Workshops Conducted

Dr. Suresha D was a Resource person for one day workshop on “**Image Processing Application in Python**” organized by Department of Computer Science & Engineering, Yenepoya Institute of Technology, Moodabidri, Mangaluru on 02/01/2021

Webinars Attended

- Dr.Suresha D & Dr.Jagadish N Attended Webinar on “[Paper Writing and Research Report on Innovation](#)” organized by Department of Computer Science & Engineering, Channabasaveshwara Institute of Technology, Gubbi, Tumkur dated 29/12/2020
- Dr.Suresha D & Dr.Jagadish N Attended National Symposium on “[National Education Policy-2020 and Technical Education](#)” organized by Dr. Ambedkar Institute of Technology, Bengaluru from 17/12/2020 to 19/12/2020.
- Pavithra DS Participated in the webinar on [Turnitin –Online in Campus User Awareness](#) Program on Academic Integrity organized by Dept. of ISE, SJGIT, on 13th August 2020.

Online courses

Mr. Santosh Kumar DK completed online course on [Apache Spark with Scala - Hands On with Big Data!](#) on Udemy and [Data Scientist in Python](#) from Dataquest.io.

ONLINE TEACHING LEARNING PROCESS

Faculties from the Dept of CSE has uploaded videos and materials of all the subjects into youtube channels of Canara Engineering College and to their personal websites and blogs. Students can access the materials and videos anytime anywhere. Online classes were conducted to clear the doubts based on the video viewing

STUDENT ACHIEVEMENTS

Technical

- 345 students from CSE participated in Infosys Ideathon 2020- Summer of Ideas, Presenting Innovative ideas, coding skills and collaboration with students across the world. Six students were qualified in the first round.
- 133 students participated in TCS Mockvita 2020 and Codevita 2020. Five students qualified first round.
- 11 students from CSE participated in WWCode Connect 2020
- 135 students from CSE participated in Newtons School of Coding
- 49 students from Dept. of CSE participated in Semicolon Hackathon. 38 students were qualified.
- 107 students participated in Neural Hack 2020. One student was qualified.
- 13 students underwent 4 weeks Certification course by MuleSoft.
- 59 students participated in Tech Challenge 2020

- 10 students participated in CITRIX Converge 2020
- 12 students participated in TCS Infra Mind Season 4
- 266 students from participated in TCS Tech-Bytes Quiz and 20 students have been qualified for the Reginal level online quiz to be held on 8th March 2021

INTERNSHIPS

Canara Engineering College has always been very proactive in providing the Internship to the students in top companies like Infosys, Hashedin Technologies, AD2PRO, Terralogic, Versa Networks, Cascades Data Solutions, 99 Games Online Pvt Ltd., Novigo Solutions, Jaro Education, Qspiders and many more.

Industry Institute Partnership Cell (IIPC) Activities

- Sixty four students have enrolled for a course on Robotic Process Automation (RPA) under UiPath Academic Alliance programme. Seventeen students have finished the certification and Fourty seven are undergoing the certification.
- One hundred &Thirty-three students have enrolled for the InfitQ program under Infosys. One student has been certified

PLACEMENTS

PLACEMENT STATISTICS

| Year | 2020-21 |
|-----------------------|---------|
| Total No of Students | 126 |
| No. of Placed Student | 46* |
| No. of Offers | 53 |

* Placements are ongoing

List of Companies visited



..... & many more

Semester Results

Second Semester

| No.of Students | | Passing Percentage |
|----------------|--------|--------------------|
| Attended | Passed | |
| 125 | 100 | 80% |

Fourth Semester

| No.of Students | | Passing Percentage |
|----------------|--------|--------------------|
| Attended | Passed | |
| 124 | 124 | 100% |

Sixth Semester

| No.of Students | | Passing Percentage |
|----------------|--------|--------------------|
| Attended | Passed | |
| 125 | 125 | 100% |

Eighth Semester

| No.of Students | | Passing Percentage |
|----------------|--------|--------------------|
| Attended | Passed | |
| 122 | 119 | 97.5% |

Computer Society of India (CSI)

Mr. Rajgopal Acharya
Software Developer
Hashedin Technologies
Bangalore



One Day Hands on Session On “INTRODUCTION TO NEURAL NETWORKS with TENSOR FLOW & KERAS” was Organised Under CSI Chapter for Third Year CSI Student members. Total 48 Students participated in the workshop. Mr. Rajgopal Acharya, Software Developer, Hashedin Technologies Bangalore was the resource person for the event

Mr. Sharvil Dinakar
Unity Developer
Juego studio
Bangalore



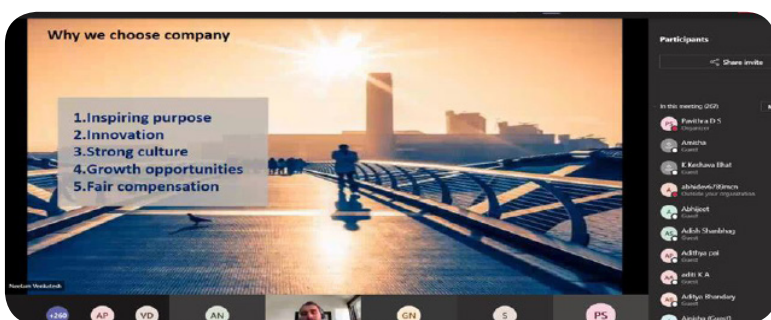
One Day Workshop on “APPLICATIONS OF DATA STRUCTURES IN UNITY” was Organised Under CSI Chapter for Second Year Students. Total 35 Students participated in the workshop. Mr. Sharvil Dinakar, Unity Developer, Juego studio, Bangalore was the resource person for the event

IIPC

Employability Skills for The Future

A Power Seminar on “Employability Skills for The Future” by ICT Academy was held on 11 November 2020 – 10:00 AM to 11:30AM.

Neelam Venkatesh, Deputy Manager, Volvo Group was the resource person. Total 267 students from Computer Science and Engineering participated in the event.



Resource Person
Neelam Venkatesh
Deputy Manager
Volvo Group



Getting Started with Java Using Alice by Oracle Academy Member Hub

Online workshop on Getting Started with Java Using Alice was held on 5 November 2020 – 10AM to 12PM. Jayaprakash Arjarapu and Chilla Srikanth from Oracle Academy Member Hub were the resource persons. 40 from seventh semester Computer Science & Engineering and 65 students from fifth semester Computer Science & Engineering participated in the workshop.



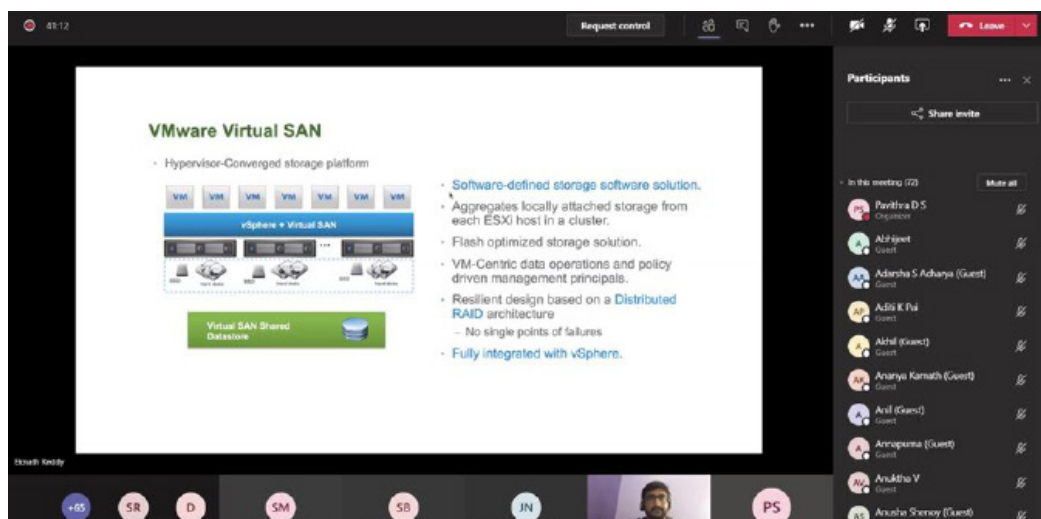
Resource Persons

Jayaprakash Arjarapu
Oracle Academy Member Hub

Chilla Srikanth
Oracle Academy Member Hub

Virtual SAN

An Online Technical Webinar on “Virtual SAN” was held on 28 November 2020 2:00 PM to 3:30PM. Eknath Reddy, working as Engineer at VMware was the resource person. 16 faculties and 55 final year students from Computer Science & Engineering participated in the event. Totally, 72 members were part of the technical webinar.



Resource Person

Eknath Reddy
Engineer
VMware

Reader Friendly Website for NGO

Four students from Third Year namely Gautham Prabhu K, Mithun Padiyar, M Varun Acharya and Chaithra Created a website “Abstract” under the guidance of Dr.Jagadisha N, Associate Professor,Dept. of CSE. Abstract is a reader friendly website created for non-governmental organization (NGO) “KALPA TRUST”. This website showcases the various activities done by the trust. Through this



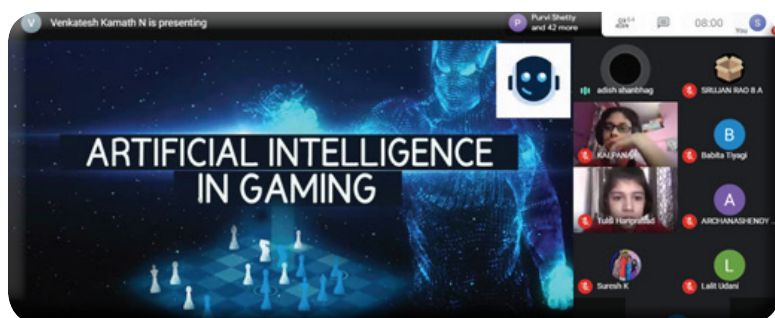
website donors will be able to contribute/reach out which will be beneficial to the trust. The website will create a digital medium to connect donors

with the trust. Start date: 6th October 2020 Submission date: 19th December 2020
Name of the NGO: Kalpa Trust(R) Mangalore

Website : <https://kalpatrust.org/>

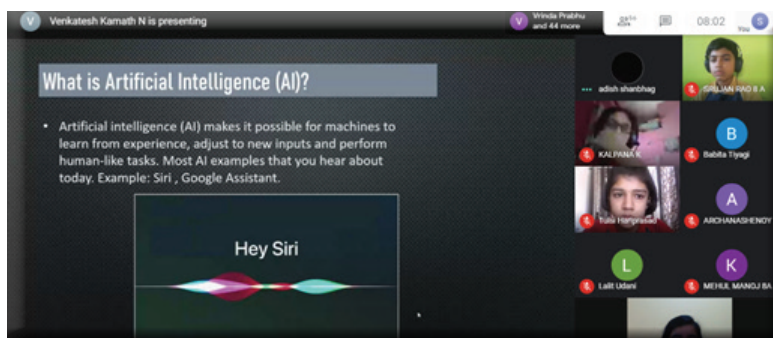
Imparting Modern Technology to Next Generation

A presentation on Artificial Intelligence based games was conducted to 8th standard students of CBSE high school by the department of Computer Science



and Engineering on 16/12/2020. The content is part of CBSE syllabus. The presentation was delivered in two sessions to over 100 students through Google Meet platform. Interactive Q & A sessions followed the presentation. Students

received study materials on the topic for further learning.





RPA Developer Advanced



TAALIYANAAZ N KHAN



PRABHU AMISHA ANIL



RAKSHAN A JAIN



SUMANTH ACHAR K



RAMYA SHENOY M



SURAJ PAI K



SHRIPADA



SHUBHAM RAMESH



MANISH R SHETTY



SHREYA RAO B



SHOBITH D S



SANJANA PRABHU



VAISHNAVI BHAT K



SUPREETH



ROOPESH KUMAR A



VISHAL A KASHIBHAT



SHREYAS AITHAL

17 students from the Department of Computer Science and Engineering registered for RPA Developer Advanced under UI path and completed the certification