HOD's Message...

Editorial board members

It is my pleasure to congratulate the editorial team for bringing out this volume of "**Srusti**"- Newsletter of Computer Science and Engineering of Canara Engineering College. This Newsletter intends to spill spotlight on achievement of Department, staff and students. I hope, this would definitely be an inspiration for all students and staff to contribute more in the coming years.

Dhananjaya.B
Coordinator

Student Members

Nithish Shet
7th sem

Rakshitha Rao
7th Sem

Deeksha Prabhu
5th Sem

Delia M D'souza
5th Sem

Payaswini Kamath
5th Sem

DEPARTMENT VISION

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

DEPARTMENT 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.

PROGRAM EDUCATIONAL OBJECTIVES

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

PROGRAM OUTCOMES

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 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.

PROGRAM SPECIFIC OUTCOMES

1. **Computer System Design:** Ability to apply the knowledge of computer system design principles in building system software and hardware components.

2. **Computer Communication and Internet Applications:** Ability to apply knowledge of layered network Models, their protocols and technologies in building network and Internet based applications.

3. **Solve Computational Problems:** Apply the theoretical foundations of computer science in modeling and developing solutions to the real world problems.

4. **Software System Design and Development:** Design and develop the application software systems that meet the automation needs of society and industry.

CONFERENCE,SYMPOSIA, SEMINARS, WORKSHOPS, FDP, GUEST LECTURES ARRANGED IN THE COLLEGE

1. Dept. of Computer Science & Engineering in association with IEEE organized a technical talk on "Basics of Image Processing " was organized by CSI Professional Society, on Saturday, 1st September 2018 from 2:00 P.M to 4:00 P.M. The talk was given by Dr. Suresha D, Associate Professor, Department of CS&E, for the benefit of third year CSE students. In the session, basics of image processing , purpose of image processing, types of methods used , application , research and future was described

2. Departmental Association **SPECS** in association with NSS organized an event to provide 1.Computer training to government school students and teachers. 2. Science experiments hands on session for 5th, 6th and 7th Standard students. Trained 84 students of 5th, 6th and 7th standard. Activities for 1st to 4th Standard like singing, dancing, Games conducted for 22 students. Along with basics of computer. Students are also trained on some science experiments.

3. Dept. of Computer Science & Engineering organized a Talk on Augmented reality.Mr Aravind Nayak, Dell Technologies Briefed about the Applications of Augmented Reality and Softwares to develop the application. Demonstration of application was given using Unity software tool.

4. Dept. of CSE conducted workshops on MS Excel, MS Power point and MS Word. In house faculties trained Third semester students with hands on session

5. Dept of CSE in association with CSI conducted Workshop on Front End Design using HTML, PHP, CSS, My SQL &

Database Connectivity. Mr. Alok Ranjan addressed the students about Responsive design using CSS , PHP , MySQL in WAMP Server

6. Dept of CSE in association with IIPC,IEEE Student Branch conducted a Two days workshop on "Internet of things". Mr.Jagatheeswaram Sentilvelan. Head Innovation and Technology, Fluxzen Technology Pvt Ltd, Bangalore addressed the students.

7. Dept of CSE in association with Placement and Training Dept. has conducted an"8 Days Company specific training" for Final year students. Mr. Phani Bhushana Reddy was the resource person.

8. Dept of CSE organized a talk on "career Opportunities Available After Engineering" in Association with TIME, Mangalore.

9. Dept of CSE in association with ICT Academy conducted cloud literacy day.

FACULTY ACHIEVEMENTS

1. Dr. Demian Antony D'Mello published a Paper Entitled "DCaP—Data Confidentiality and Privacy in Cloud Computing: Strategies and Challenges" in Springer,Singapore.
2. Dr. Demian Antony D'Mello published a Paper entitled "Global and local optimisation-based hybrid approach for cloud service composition" in International Journal of Computational Science and Engineering.
3. Mr. Sathisha M S published a Paper entitled "Security and privacy issues in big data Hadoop: A review" in IJCSE-2018.
4. Mr. Sunil Kumar B L published a Paper entitled "Local Binary Pattern and Zernike based face recognition" in INTELINC'18.

STUDENT PLACEMENTS

- A total of 75 students were placed out of a total of 118 from the department.

- Big players in the corporate world like Infosys, TCS, SLK software and many more companies visited the campus for recruitment.

STUDENT ACHIEVEMENTS

SPORTS

1. *Mr.Sanjan Alva*, 7th Semester CSE, represented college and won Third place in power lifting at SCEM, Mangalore, Second place in Shotput at SJBIT, Chikkaballapur and First place in weightlifting at Global Academy of technology, Mangalore. He is also qualified for All India weightlifting.

TECHNICAL

1. Sourabh Hegde, Suraj Pai, Adrian Vishal Dsouza, Tushant Tikko, Rakshitha Gokuldas, Sharvil Dinakar, Ujwal Shetty from 5th semester participated in a AISYWC workshop held by IEEE, Mysuru section at VVIET, Mysuru.

2. Total of 52 students from the Department of CSE have participated in IEEE Health Summit held at CEC,Bantwal.

   In addition students from Second, Third & Fourth Year have participated in various workshops held at NITK, Suratkal.

Hearty welcome to Dept. of CSE

Mr.Ajay Shet

EVENTS CONDUCTED BY THE DEPARTMENT

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2. NSS Visit to Govt Aided Higher Primary School Ammunje

Departmental Association **SPECS** in association with NSS organized an event to provide 1.Computer training to government school students and teachers. 2. Science experiments hands on session for 5th, 6th and 7th Standard students. Trained 84 students of 5th, 6th and 7th standard. Activities for 1st to 4th Standard like singing, dancing, Games conducted for 22 students. Along with basics of computer. Students are also trained on some science experiments.

3. Technical Talk on Augmented Reality

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4. Workshop on MS Excel,MS Office & MS Word.

Dept. of Computer Science in association with in house faculties conducted a workshop on MS Excel, MS Office & MS Word to the students of third semester

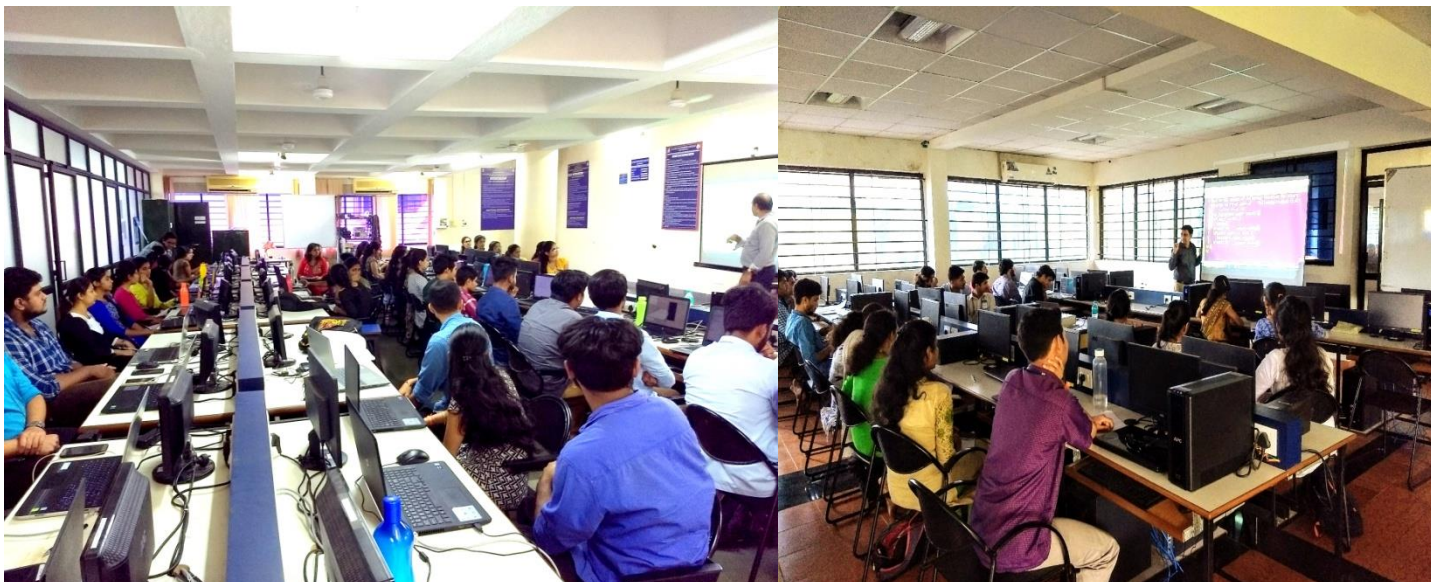## 5. Workshop on Front End Design using HTML, PHP, CSS, MySQL & Database Connectivity

The session was addressed by Mr.Alok Ranjan, Asst. Prof., Dept. of CSE. He addressed the issues about Responsive design using CSS, PHP , MySQL in WAMP Server.

6. Workshop on Internet of things

Dept of CSE in association with IIPC, EEE Student Branch conducted a Two days workshop on "Internet of things". Mr.Jagatheeswaram Sentilvelan., Head Innovation and Technology, Fluxzen Technology Pvt. Ltd, Bangalore addressed the students.

7. Eight Days Company specific training

Dept. of CSE in association with placement and training conducted an "8 days company specific training program. The objectives of the program were: 1.To impart personality development and career specific practical inputs that prepare students for immediate employment Outcomes: 1. To use and apply current techniques, skills, and tools necessary for computing and engineering practice. 2. To apply knowledge of computing, mathematical foundations, algorithmic principles in design of computer-based systems to real-world problems.

8. A talk on "career Opportunities Available after Engineering

TIME, Mangalore addressed the students about i. Need of career planning. ii. Need to prepare for different entrance exams. - M.Tech Entrance Exam (GATE) - MBA Entrance Exam (CAT) - Study Abroad (GRE) - Central Government Jobs - Bank Jobs (IBPS-SBI) iii. Testing area of various exams. iv. Exposure to testing areas like Quant Ability, Verbal Ability and Logical Ability. v. How to prepare for these exams.

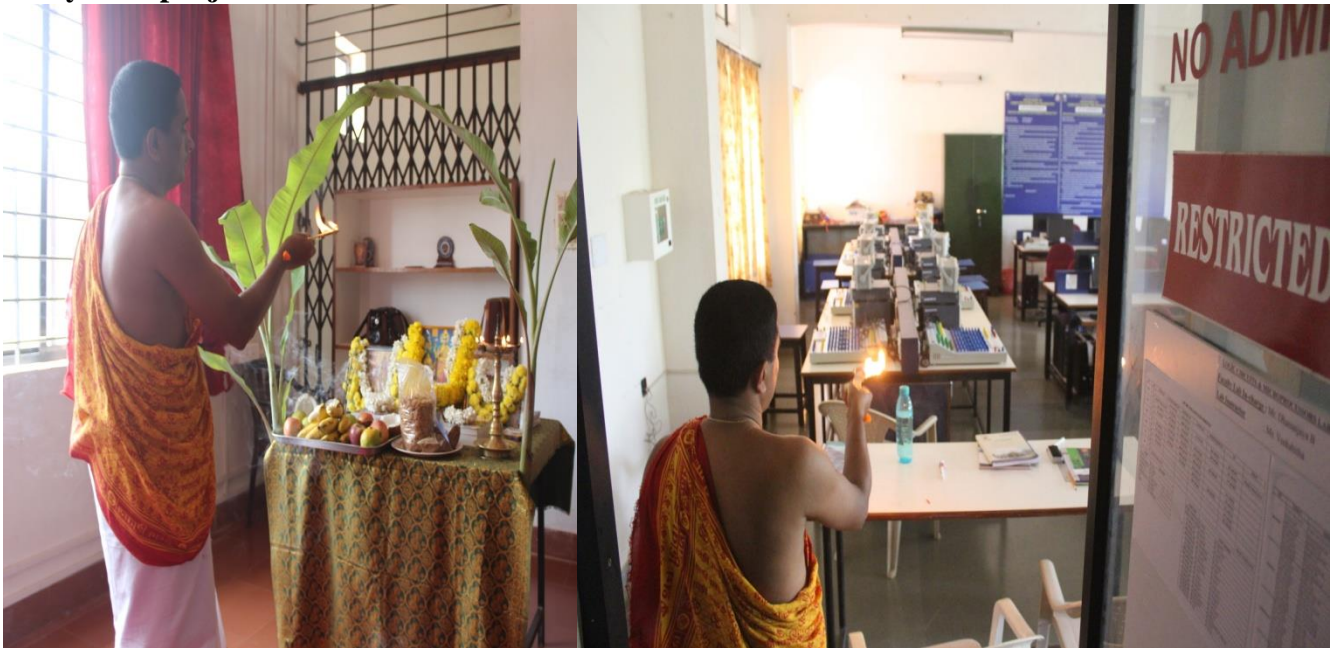## 9. Branch Entry for 2nd year CSE students

Department of Computer Science and Engineering, organized the Branch Entry Programme for 2nd year students under the Departmental Association - SPECS on 18th August 2018. The program began at 2:15PM with lighting of the lamp by Dr. Demian Antony D'Mello and SPECS Office bearers. Hod addressed the students regarding facilities provided in the department and the college and told the students to make fruitful use of the facilities. Various cultural events and games were organized by the students. The program came to end at 4:30 PM.

10. ESR activity, under Departmental Association – SPECS

Department Of Computer Science And Engineering, CEC conducted a ESR activity, under Departmental Association – SPECS. The SPECS committee members paid a visit to Lions Seva Trust, Surathkal, a school for specially abled children, on 3rd November 2018 where they conducted several educative activities for the specially abled children, like painting, story telling, singing rhymes, dance, games, etc. They also made generous donation to the abled children.

11.Ayudha pooja

Dept of CSE celebrated Ayudha pooja on 16/10/2018

12.Students at VVIET,Mysuru attending AISYWC 18 in association with IEEE,Mysuru Section

Students from 5th semester CSE participated in an AISYWC workshop held by IEEE, Mysuru section at VVIET, Mysuru.

13. Cloud Literacy Day

Cloud Literacy Day was inaugurated by Hon'ble Correspondent of CHSA M. Padmanabha Pai, Dr. Ganesh V Bhat,Principle(CEC), Dr.Demian Antony D'Mello,HoD(CSE), Prof Sushma M.D.,Co-ordinator (CSI,CEC Chapter).Mr.Harish Neermarga was the chief guest for the event.

WE ARE PROUD OF YOU

Mr.Sanjan Alva, 7th Semester CSE, represented college and won Third place in power lifting at SCEM, Mangalore, Second place in Shotput at SJBIT, Chikkaballapur and First place in weightlifting at Global Academy of technology, Mangalore. He is also qualified for All India weightlifting.