CANARA
ENGINEERING COLLEGE
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

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Dhananjaya.B
Coordinator

HOD's Message...

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.
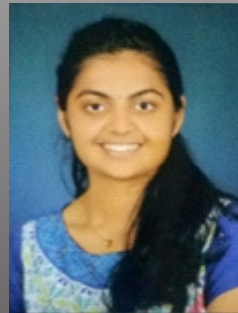

Niranjana N K
8th Sem

Jayaram J
8th Sem

Aishwarya Rao
6th Sem

Rakshitha Rao
6th Sem

Nithish Shet
6th sem

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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.

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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.

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

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

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

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

1. Department of Computer Science And Information Science Engineering, Industry Institute partnership cell Organised two days workshop on "Cloud computing & Security" on 20/04/2018

2. Department of CSE has organised a technical talk by Rajesh Nambiar leads the Trailhead for Students program for Asia Pacific region at Salesforce on 07/03/2018 in association with IIPC.

3. TCS in association with BITES conducted a IT QUIZ on 02/03/2018 at CEC, Mangalore. A total of 58 teams participated in first round and 8 teams got qualifies in first round to participate in second round QUIZ conducted at SIT, Valachil on 06-03-2018.

4. Dept. of CSE conducted events like Project exhibition, Android app development, Coding using java, Coding using C & Workshop on IOT in association with CANTECH-18

5. Dept of CSE in association with CSI conducted Workshop on Android app. Development to Sixth semester CSE and ISE students on 16th May 2018..

FACULTY ACHIEVEMENTS

1. Prof. Suresha D has published a paper entitled "Automated Color Based object sorting for quality control" in International journal of Engineering, research and technology(IGERT), ISSN 2278-0181, NCTAIT-2017 conference precedence, volume 5, Issue -6, PP.21-23

2. Prof. Suresha D has published a paper entitled "Resolution increment and quality enhancement of video frame using stationary and discrete wavelet transfer with planar histogram equalization" in International journal of computational intelligence research, ISSN 0973-1873, volume-13, No.-5 2017, PP.1107-1118

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3. Sunil Kumar B.L. has published paper entitled "Face Recognition Using Selective Block Local Binary Pattern " in "IJRASET, Volume 5, Issue X, October 2017, 1064-69

4. Satish M.S. has attended FDP on "Knowledge discovery and data analytics" at AIT,Chikmagalur from 16/02/018 to 21/02/22018

5. Rajgopal K T attended International Conference on Energy, Communication, Data Analytics and Soft computing(ICECDS)-2017, IEEE Sponsors: Madras Section at SKR Engineering College Poonarnallee, Chennai, Tamil Nadu, India

6. Nagesh shenoy attended International Conference on Energy, Communication, Data Analytics and Soft computing(ICECDS)-2017, IEEE Sponsors: Madras Section at SKR Engineering College Poonarnallee, Chennai, Tamil Nadu, India

7. Santosh attended International Conference on Energy, Communication, Data Analytics and Soft computing(ICECDS)-2017, IEEE Sponsors: Madras Section at SKR Engineering College Poonarnallee, Chennai, Tamil Nadu, India

8. Sunil Kumar B.L. attended ONE WEEK GIAN COURSE ON"VISUAL OBJECT RECOGNITION" at Mangalore University, Mangalagangothri.

STUDENT PLACEMENTS

- A total of 111 students were placed out of a total of 128 from the department.
- Big players in the corporate world Infosys,Tech Mahindra, Capgemini, SLK software, Hostzyro, Robosoft, Mindtree and many more companies visited the campus for recruitment
- Juspay technologies offered 12LPA to P Sandesh Baliga being the highest offered package.

STUDENT ACHIEVEMENTS

Cultural

1. Yashaswini from 6th Sem CSE won Second place in Kannada Story writing at SENTIA held at MITE,Moodbidri.

2. Sindhu Bhat and Shravani Ganguli won second place in Duet dance at Xstatic hheld at CEC, Bantwal

3. Vaishnavi BV, Harshitha, Deeksha Rao, Nisha Ashok Naik, Vishala Kini, Reema L Goveas, K Arpitha, Pratheeksha Hegde, Preethi Hebbar won First place in Group Dance at Xstatic held at CEC,Bantwal.

4. Rahul Kakkadan from 4th Sem CSE won First place in Western solo singing at SENTIA held at MITE,Moodbidri.

5. Sannidhi Shetty, Sharanya, Shubha, Tanisha P kotian from 4th sem CSE won Second place in Group Dance at Xstatic held at CEC,Bantwal.

6. Sukadha Chokkadi from 8th sem CSE won First and Third place in solo singing at Xstatic an Aakriti respectively held at CEC,Bantwal.

7. K.Vignesh Kamath & Kartikey U.Shet of 4th Sem CSE won First place in duet singing at Xstatic held at CEC,Bantwal.

SPORTS

1. Ajey Naik & Sambhav Kerni of CSE represented the college cricket team and won Second place inZonal level (VTU)Cricket held at SCEM,Mangalore.

2. Ajey Naik & Sambhav Kerni of CSE represented the college cricket team in Inter-Zone level (VTU) Cricket held at RYMEC,ballary.

3. Prasanna Shanbhag of 4th Sem represented the college volleyball team in Zonal level volleyball tournament held at SDM,Ujire

4. Anush Raj of 4th Sem represented the college football team in Zonal level football tournament held at Mangalore University

5. Nandan Acharya of 4th Sem represented the college Hockey team in Zonal level Hockey tournament held at NMAMIT,Nitte.

6. Tushant Tikoo of 4th Sem CSE has represented the college Basket ball team at Adrenaline sports fest-2018 held at Fr.Muller Medical College, Mangalore

TECHNICAL

1. Naveen kamath & Gaurav Prabhu won second place in Web Development Varnotsava, held at SMVITM, Bantakal.

2. Sourabh Hegde,Suraj Pai, Adrian Vishal Dsouza, Shwetha D and Sindhu Bhat of 4th Sem CSE participated in HACKATHON at NMAMIT,Nitte.

3. Rakshitha Gokuldas,Sourabh Hegde,Suraj Pai,Sharal Linsha Fonseca,Sushmitha N,Swathi Kottary V of 4th Sem CSE participated in General quiz held at Aakriti,CEC Bantwal.

4. Preethi Shenoy & Shwetha Bhandary of 4th Sem CSE participated in Crazy mins & Elite coders held at Aakriti,CEC Bantwal.

In addition, All **128 Students of Final year CSE** have presented papers related to their Project works and Literature survey in National conferences held at various Engineering colleges in and around the region.

Dr.Jagadisha N
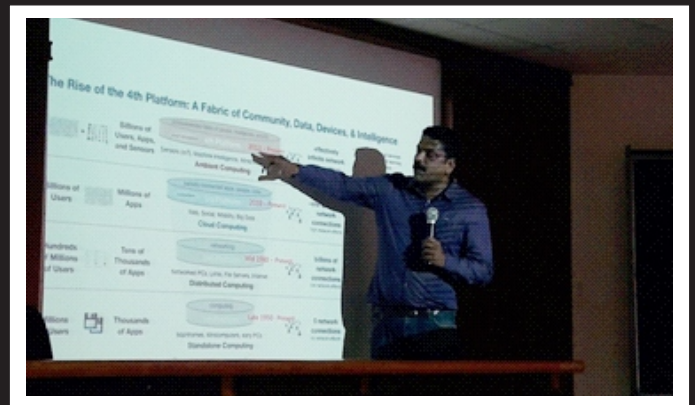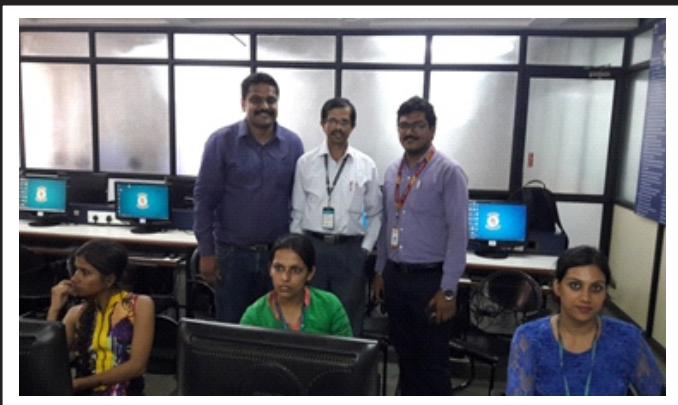
Kishore Shivatthaya S.

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EVENTS CONDUCTED BY THE DEPARTMENT

1. Workshop on "Cloud computing & Security"

Department of Computer Science And Information Science Engineering, Industry Institute partnership cell Organised two days workshop on "Cloud computing & Security". The Main objective of the workshop is to make the aspiring students acquainted with the conceptual as well as practical knowledge of cloud computing & Security. It is one of the latest trending technology which is impacting our lifestyle. workshop highlights the concept of cloud computing, architecture, cloud service model, layers, Virtualization, cloud taxonomy, Cloud storage, cloud security issues, exercises using cloud sim, project ideas on cloud computing.

2. Technical Talk

Rajesh Nambiar leads the Trailhead for Students program for Asia Pacific region at Salesforce. Prior to Salesforce, Rajesh lead the VMware and EMC Academic activities for South India, Sri-Lanka and ANZ regions. Rajesh holds a Mechanical Engineering degree with over 12 Years of experience in sales and pre-sales related roles. He is a key influencer on social platforms. His focus areas include technology evangelization, leveraging social media for learning and new specialization programs. He is a Facebook Small Business Boost 2012 Contest Winner and EMCElect for 2015 and 2013. alk on Career opportunities and insights on SalesForce. Trail provides developers and administrators a guided, learning path through the key features of Salesforce using set of interactive online tutorials. The goal is to provide users with all the basic information required to learn a feature-background, contextual, conceptual and procedural-in one integrated package.

3. BITES - TCS IT QUIZ (ROUND 1)

TCS in association with BITES conducted a IT QUIZ on 02/03/2018 at CEC,Mangalore. A total of 58 teams participated in first round and 8 teams got qualifies in first round to participate in second round QUIZ conducted at SIT, Valachil on 06-03-2018

4. Industrial Visit to Kochi & Munnar

Final year CSE students accompanied by five faculties visited Kochi and Munnar for a Industrial visit during the month of April 2018.
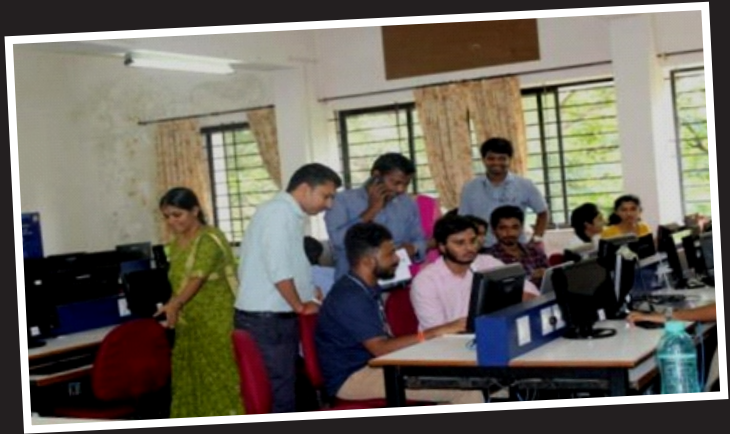
5. "C-zzlers" Coding using C

Coding using C was conducted in association with CANTECH-18.

6."App-it-up"Android App Design

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Dept. of CSE conducted Android app design competition in association with CANTECH-18. Nine teams had participated in the event.First and second prizes were distributed to the winners at the end of event.

7. Coding using Java

Coding using Java was conducted in association with CANTECH-18.

8.Workshop on IOT with Raspberry Pi

Workshop on IOT with Raspberry Pi was organised by Dept of CSE in association with CSI and Cantech-18.133 participants had participated in the event.

9.Project Exhibition

10. Workshop on Android Application Development

Workshop on Android app. Development was conducted to Sixth semester CSE and ISE students in association with CSI. 133 participants were guided regarding the development by Mr.P.Sandesh Baliga of 8th Sem CSE.

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On successfully defending the viva-voce on the Ph.d work on "Applications of wavelets for super resolution on static image and video" under the guidance of Dr. H.N.Prakash , Prof. & HOD, CSE, RIT, Hassan

AWARD WINNING PERFORMANCE AT XSTATIC-18

Group of girls from sixth semester CSE, namely Vaishnavi BV, Harshitha, Deeksha Rao, Nisha Ashok Naik, Vishala Kini, Reema L Goveas, K Arpitha, Pratheeksha Hegde, Preethi Hebbar won First place in Group Dance at Xstatic-18 held at CEC,Bantwal

BEST OUTGOING CHARACTER AWARD GOES TO

Mr. Roger Walter Fernandes

MENTORS WITH THE FUTURES