

PRABODHANA

NEWS LETTER



COMPUTER SCIENCE AND ENGINEERING
NAGARJUNA
COLLEGE OF ENGINEERING & TECHNOLOGY

Department Of

COMPUTER SCIENCE AND
ENGINEERING



Vision and Mission of the CSE Department

Vision

Excellence in creating Computer Science and Engineering through academic professionalism for the changing needs of the society

Mission

M1: Creating excellence in Computer Science & Engineering through academic professionalism for the changing needs of the society.

M2: Establishing center of excellence for research and for technical development in the area of Computer Science and Engineering.

M3: Developing communication skill, team work and leadership qualities for continuing education among the students, through project based and team based learning.

M4: Inculcating ethics and human values for sustainable societal growth and environmental protection.

M5: Empowering students for employability, aspiring higher studies and to become entrepreneur

PROGRAM EDUCATIONAL OBJECTIVES(PEOs):

PEO1:

Graduates in Computer Science and Engineering will apply the technical knowledge of analysis and design of software used for sustainable societal growth.

PEO2:

Graduates of Computer Science and Engineering will demonstrate logical thinking and programming skills.

PEO3:

Graduates in Computer Science and Engineering will demonstrate good communication skills, dynamic leadership qualities with concern for environmental protection.

PEO4:

Computer Science and Engineering Graduates will be capable of pursuing higher studies take up research and development work blended with ethics and human values.

PEO5:

Computer Science and Engineering Graduates will have the ability to become entrepreneurs there by switching over from responsive engineer to creative engineer.

PROGRAM SPECIFIC OUTCOMES:

PSO1:PROFESSIONAL SKILLS:

The ability to understand, analyze and develop computer programs in the areas related to system software, multimedia, web design, big data analytics, and networking for efficient design of computer based systems of varying complexity.

PSO2:PROBLEM SOLVING SKILLS:

The ability to apply standard practices and strategies in software project development using open-ended programming environments to deliver a quality product for business success.

PSO3:FOUNDATION OF MATHEMATICAL CONCEPTS:

Ability to apply mathematical concepts to solve real world problems using appropriated data structure and suitable algorithms.



I am extremely happy to know that the Department of Computer Science and Engineering is bringing out its Newsletter and this is going to be an ongoing process of portraying the various academic as well as non-academic activities. I congratulate the team of faculty members and students of CSE and wish success in all their future endeavors.

Sri J Chaitanya Varma
CEO, NES



The role of a newsletter is vital in promoting what an institution offers. Prabodhana 2021 carries the contributions reflecting ethos and aspirations of the students, faculty of the CSE Department. Such value additions are very much essential for the young technocrats, engineers and scientists, who the college produces, to demonstrate their ideas for a developed India. I sincerely appreciate the unrelenting efforts in compiling this newsletter

Mrs Bhanu Chaithanya Varma
Member, NES, Bangalore



The Department of CSE has grown beyond bounds and today it stands as one of the premier departments in NCET. It gives me immense pleasure of the annual Newsletter 'Prabodhana' has unveiled.

Dr. K S Deshikachar
Senior Director, NES



At the outset, I congratulate the CSE Department and specially the Editorial Committee Members for their efforts in bringing out the Newsletter. Newsletter is an amalgamation of all the events held in the department and it plays an instrumental role in providing a greater exposure of the achievements accomplished by the students and the faculty. I wish all the very best in your accomplishments.

Dr. S G Gopala Krishna

Director, NES



My Hearty congratulations to the HOD & Staff of the Department of Computer Science & Engineering at NCET for doing commendable job in shaping the future of the students aspiring to become professionals in Computer Science & Engineering by inculcating them the state of the art training in science and technology of design, construction, implementation, and maintenance of software and hardware components of modern computing systems and computer-controlled equipment. Making them industry ready to compete and meet the requirements of the present industry requirements. I wish all the best to the department and the students for their future endeavors

Dr Jitendranath Mungara

Principal, NCET



I am extremely happy to present PRABODHANA, the department newsletter for the year 2020-21. This newsletter certainly would induce the budding engineers to promote their creativity in approaching things differently. I strongly believe that it is an excellent media through which the people can learn about the potential and achievements of department. The Department has grown in all directions and has become a distinguished Centre for modern learning.

Dr. Dinesha H A

HOD, Dept. of CSE, NCET

Newsletter Coordinators:

1. ***VIDHYASHREE B, Asst. Professor***

Faculty List

<i>Sl. No.</i>	<i>Faculty</i>	<i>Designation</i>
1.	<i>Dr. Dinesha H A</i>	<i>Prof.& Head</i>
2.	<i>Dr. Jitendranath Mungara</i>	<i>Professor</i>
3.	<i>Dr. Deepajothi S</i>	<i>Associate Professor</i>
4.	<i>Dr. Asha P N</i>	<i>Associate Professor</i>
5.	<i>Dr. Shilpashree S</i>	<i>Associate Professor</i>
6.	<i>Mrs. Swathi. S</i>	<i>Assistant Professor</i>
7.	<i>Mr. Gopinath A R</i>	<i>Assistant Professor</i>
8.	<i>Mrs. Sudhakara Reddy M</i>	<i>Assistant Professor</i>
9.	<i>Mr. Subramanya. S. G</i>	<i>Assistant Professor</i>
10.	<i>Mr. Raghavendra B</i>	<i>Assistant Professor</i>
11.	<i>Mr. Vivek Sharma S</i>	<i>Assistant Professor</i>
12.	<i>Mr. Abraham Rajan</i>	<i>Assistant Professor</i>
13.	<i>Mrs. Arati M Chabukswar</i>	<i>Assistant Professor</i>
14.	<i>Miss. Bhagyashree P Puji</i>	<i>Assistant Professor</i>
15.	<i>Mr. Iranna S Amargol</i>	<i>Assistant Professor</i>
16.	<i>Mr. Arun Kumar S</i>	<i>Assistant Professor</i>
17.	<i>Mrs. Suma C C</i>	<i>Assistant Professor.</i>
18.	<i>Mrs. Jeevitha S R</i>	<i>Assistant Professor</i>
19.	<i>Ms. Deekshitha S</i>	<i>Assistant Professor</i>
20.	<i>Mrs. Swathi N</i>	<i>Assistant Professor</i>
21.	<i>Mr. Kiran J</i>	<i>Assistant Professor</i>
22.	<i>Mrs. Vidhyashree B</i>	<i>Assistant Professor</i>
23.	<i>Mrs. Sowmya S</i>	<i>Office Assistant</i>
24.	<i>Mr. Muralidhar K</i>	<i>Hardware Engineer</i>
25.	<i>Mr.Nabhisaheb S Gulbarga</i>	<i>Lab Instructor</i>
26.	<i>Mr. Ramurthy V</i>	<i>Lab Instructor</i>
27.	<i>Mrs. MeharAfroz</i>	<i>Programmer</i>
28.	<i>Mrs. Sunitha G</i>	<i>Instructor</i>
29.	<i>Mr. Manjunath N</i>	<i>Attender</i>
30.	<i>Mr. Venkateshappa K P</i>	<i>Attender</i>
31.	<i>Mr Darshan R</i>	<i>Attender</i>

Department Achievements

AICTE ACTIVITY POINT PROGRAMME

The objectives of AICTE student activity is to expose students to real-time life challenges, to provide the opportunity to gather data, analyse data, propose solutions and implement solutions. Also, it paves the way for personal development and creative engineers who are proud volunteers with a sense of achievement and ready to take up projects having a social impact and creating digital awareness. Besides, it helps the students to strengthen their soft skills, leadership qualities and team spirit. Moreover, these activities inculcate entrepreneurial mind set and societal commitment.

Title: Visit -1 (November -2021)

Duration: 1 Week

Brief about the event: Under AICTE activity point program on social awareness related activities for the current academic year & motivate the students to inculcate the team work and self-confidence. Swatch Bharat Abhiyan is a national cleanliness campaign established by the Government of India. The word cleanliness primarily means the absence of filth and dirt in our surroundings. 'Cleanliness', just the word creates a pristine feeling in one's mind.



Fig 1: AICTE Activity program on Social awareness

Title: Visit – 2 (December 2021)

Duration: 1 Week

Brief about the event: Under AICTE activity point program on social awareness related activities for the current academic year & motivate the students to inculcate the team work and self-confidence. Women's empowerment is the process of empowering women. It may be defined in several ways, including accepting women's viewpoints or making an effort to seek them, raising the status of women through education, awareness, literacy, and training



Fig 2: AICTE Activity program on Women empowerment

In Collaboration With I4 & Alumni Relations Ideology with Technology



Fig 3: Invitation of Ideology with Technology

The Intra Department technical event "IDEOLOGY WITH TECHNOLOGY" organized by Department of Computer Science And Engineering in collaboration with I4 & Alumni Relations Cell took place in the college premises on 16th December 2021 in the presence of Head of Department (Computer Science and Engineering), Dr.Dinesha H A , Mr. Ranjan Manish, Dr. Gopal Krishna K, Dr. Geethanjali, Mr.Ravishankar and teaching staff across all branches. The event was led and executed successfully under the guidance of Dr.Dinesha H A.



Fig 4: Ideology with Technology students participation photo

Industry –Institute Interaction

Industrial visit-1



Fig 5: Industrial visit to ISRO

ISRO people gave introduction about satellite launching process and how to setup the satellite. They introduced different job opportunities available in ISRO and what all the facilities will be available in ISRO.

Industrial visit-2

INDUSTRIAL VISIT REPORT 2021

DATE : 17/12/2021

TIME : 1:00 pm to 5:00 pm

NO OF STUDENTS : 41

DEPARTMENT : COMPUTER SCIENCE

PLACE : 19, Pottery Ln Rd , SK Garden,
Benson Town, Bengaluru,
Karnataka 560046, INDIA



These headsets are designed to protect users from high impulse noises ,background noises or gunfire and also used for ground operations,vehicle and radio ,command post and shelter communication.



- DIQA - DEFENCE INSTITUTE OF QUALITY ASSURANCE
- DGQA - Directorate General of Quality Assurance
- CQAE(WE) - The Chief Quality Assurance Establishment (Weapon Spares)

Fig 6: Industrial visit to DRDO

Students and staff of Computer science and engineering visited the DRDO in Bangalore which was a very enthusiastic and students have learned knowledge about various equipment which are used in defence system. DRDO is the R & D wing of Ministry of Defence, Govt Of India, with a vision to empower India with Cutting-edge defence technologies and a mission to achieve self-reliance in critical defence technologies and systems, while equipping our armed forces with state of the art weapon systems. DRDO was established in 1958 after combining Technical Development Establishment (TDEs) of the Indian Army and the Directorate of Technical Development & Production (DTDP) with the Defence Science. Starting with 10 laboratories, DRDO has now grown to a network of 52 laboratories which are deeply engaged in developing defence technologies covering various disciplines, like aeronautics, armaments, etc. Presently, the Organization is backed by over 5000 scientists and about 25,000 other scientific, technical and supporting personnel.

Student Achievements



Fig 9: Student achievement in IntelliFlow

Department of CSE proudly inform to all that Mr Rahul Ranjan from CSE department has achieved job in IntelliFlow with a package of 11.5 lakh along with him few students from CSE also placed in this company.

Faculty Achievements



Fig 10: Winners in Badminton game at BMSIT Bangalore Winners in Badminton game at PESIT

Faculties from the department of CSE has participated in two Badminton and one Cricket game which was organized in BMSIT and PESIT

Runner up in cricket match at PESIT



Fig 11: Faculty Runner up in cricket match at PESIT

Ramanavami Celebrations in CSE



Fig 12: Ramanavami celebration at CSE department

Ramanavami was celebrated in the computer science and engineering department .It was one of the most auspicious Hindu festivals and it is believed that lord Rama was born on this day.

Women's day celebration



Fig 13: International Women's Day Celebration in CSE

In order to raise an awareness about the status and dignity of women among students, an international women's day was organized in Computer science and engineering department.

Papers Published / Patents / Conferences

Attended:

- 1) Prof. Swathi S, Assistant professor, NCET, published Scopus indexed paper on "Credence Aware Data Aggregation for Wireless Sensor Networks in Journal of Computer Science.*
- 2) Prof. Swathi S , Assistant Professor ,NCET, Presented paper titled "Trust Oriented Efficient Data Aggregation and Male violent Node detection in the IOT Sensor Networks in 12th International conference Act 2021*
- 3) Prof. Swathi S, Assistant Professor published paper titled "Trust aware data Aggregation Mechanism in WSN based IOT environment in Turkish journal of computer and Mathematics education*
- 4) Prof. Swathi S, Assistant Professor, NCET Published patent on "Smart Helmet on IOT technology for Safety and Accident Detection"*
- 5) Prof. Gopinath A Assistant Professor, NCET Published patent on "Smart Helmet on IOT technology for Safety and Accident Detection"*
- 6) Prof. Vidhyashree B , Assistant Professo, NCET Published patent on "Artificial Intelligence based Prevention and Detection of Security Attacks in IOT Sensor Networks using Machine Learning Algorithms"*
- 7) Prof. Subramanya S G and Prof. Vivek Sharma S Published Patent on "IOT and AI based Intelligent Rover to Discover Habitable –zones on Planets.*
- 8) Prof. Vivek Sharma S Published Patent on "Block chain Technology based system for Preserving Electronic Health Records"*
- 9) Prof. Swathi N Published Patent on "A Mobile Adhoc Network (Manet) For Tracking the Mobile Phones Or Mishandling of Data"*
- 10) Prof. Arati Chabukswar Published Elsevier Paper on "Classification and Applications of titanium and its alloys"*
- 11) Prof. Gopinath A R Published Patent on "A Novel Z Technology system for women's safety to prevent the harassment and its method thereof".*
- 12) Prof. Abraham Rajan Published Patent on "A Novel Z Technology system for women's safety to prevent the harassment and its method thereof".*
- 13) Prof. Gopinath A R Published an IEEE paper on "Design of fog based remote health monitoring system.*
- 14) Prof. Gopinath A R Published IEEE paper on "Design of Fog computing system for Health care Application based on IOT"*

Faculty Development

Programmes/Workshops/Seminars Attended:

1. *Prof. Gopinath A R has participated and completed successfully AICTE Training and Learning (ATAL) Academy online elementary FDP on "IOT Framework Development for Agriculture Sector "from 06/09/2021 to 10/09/2022 at Lal Bahadur Shastri College of Engineering , Kasargod ,Kerala*
2. *Prof. Gopinath A R has participated in online FDP on "Current Era –A Technology driven Digital Transformation in Industry 4.0" for six days from 30/08/2021 to 04/09/2021*
3. *Prof. Gopinath A R has participated in seven days National level virtual FDP, on "Big Data Analytics and Machine learning " conducted by Dept. of ISE, East point college of Engineering*

Social Responsibility

Awareness Program on Women Empowerment



Fig 14: Social welfare program by CSE Department

Education for girls must be made compulsory so that women can become illiterate to make a life for themselves. Our CSE Staff and Students visited the Government school to give awareness about Women Empowerment.

Social Activity by planting trees



A one day tree plantation program was held in the department of Computer Science and Engineering with the aim of clean and green. The idea behind the tree plantation activity was to propagate the message that planting the trees help to maintain clear eco friendly.



