



CHRIST

(DEEMED TO BE UNIVERSITY)
BANGALORE · INDIA

NEUROFLUENCE

- Designing future with excellence -

VOL. 05
ISSUE 03

September, 2022

THE OFFICIAL NEWSLETTER OF THE
**DEPARTMENT OF
COMPUTER SCIENCE
AND ENGINEERING**

INTRODUCTION



HoD's Message

The Department of Computer Science and Engineering (CSE) is a centre of excellence providing comprehensive technical knowledge and inspiring students in innovation and research.

The Department of Computer Science and Engineering has created an intensive teaching and learning experience through industry driven Curriculum. The Department strives hard to inculcate among students a passion for innovation through research and product development in niche areas of Data science, Artificial Intelligence,

Computer vision, Internet of Things and Network Security. The Department indulges in creating workable solutions for issues faced by society through Service-Learning Modules. The vision of achieving excellence through service is the key factor that unites the department.



Editor's Note

The Department of Computer Science and Engineering is launching the 3rd issue of its official newsletter "Neurofluence" for the academic year 2022-23. This issue of the newsletter focuses on the trending topics, faculty publications, placements and many more. The readers are assured of technical insights on present market and departmental activities which is a combination of unique and parallel realms on the same platter.

THE DEPARTMENT

F 003AR
60



Dr Fr ABRAHAM V M
Vice Chancellor



Dr Fr JOSEPH CC
Pro-Vice Chancellor



Dr ANIL JOSEPH PINTO
Registrar



Dr Fr BENNY THOMAS
Director



Dr Fr IVEN JOSE
Dean



Dr BALACHANDRAN K
HoD

Vision

To fortify Ethical Computational Excellence

Mission

- Imparts core and contemporary knowledge in the areas of Computation and Information Technology.
- Promotes the culture of research and facilitates higher studies.
- Acquaints the students with the latest industrial practices, team building and entrepreneurship.
- Sensitizes the students to serve for environmental, social & ethical needs of society through lifelong learning.

Programs Offered

Undergraduate

- Bachelor of Technology Computer Science and Engineering
- Bachelor of Technology Information Technology
- Bachelor of Technology (Computer Science and Engineering - Artificial Intelligence and Machine Learning)
- Bachelor of Technology (Computer Science and Engineering - Data Science)
- Bachelor of Technology (Computer Science and Engineering - IoT)
- Bachelor of Technology Information Technology (Lateral Entry)
- Bachelor of Technology Computer Science and Engineering (Lateral Entry)
- Bachelor of Technology (Computer Science and Engineering - Artificial Intelligence and Machine Learning) - (Lateral Entry)
- Bachelor of Technology (Computer Science and Engineering - IoT) - (Lateral Entry)
- Bachelor of Technology (Computer Science and Engineering - Data Science) - (Lateral Entry)

Postgraduate

- Master of Technology in Data Science
- Master of Technology in Computer Science and Engineering
- Master of Technology in Data Analytics
- Post Graduate Diploma in Research Methodology (PGDR)

Doctoral (PhD)

- Doctor of Philosophy (PhD) in Computer Science
- Doctor of Philosophy (PhD) in Computer Science and Engineering
- Doctor of Philosophy (PhD) in Information Technology

Honors

- Honors in Artificial Intelligence and Machine Learning
- Honors in Data Science
- Honors in Cybersecurity

Minors

- Minors in Computer Science and Engineering
- Minors in Artificial Intelligence





CONTENTS

| | | |
|-----|-----------------------------------------------------------|----|
| 01. | Teachers' Day | 01 |
| 02. | Students' Publications, Students' Achievements and Events | 03 |
| 03. | Alumni Interactions | 04 |
| 04. | Biography | 05 |
| 05. | Faculty Achievements, Faculty Research and Publications | 06 |
| 06. | Students' Corner | 07 |
| 07. | Students' Activities | 09 |
| 08. | Teachers' Quote | 15 |
| 09. | Puzzles | 17 |
| 10. | Zaika | 19 |

TEACHERS' DAY

Teachers' Day is celebrated on September 5 to mark the birth anniversary of Dr. Sarvepalli Radhakrishnan (former president of India). The greatest teacher and scholar of India.

CHRIST (Deemed to be University), in appreciation of its teaching faculty organized Teachers' day event on Sep 5, 2022. The event was filled with energetic performance by both students and faculties. Here are few glimpses of the same.



TEACHERS' DAY



STUDENT PUBLICATIONS

- **Vedant Agarwal**, on the 24th of August 2022, presented a paper titled 'Comprehensive Study of the Relationship between Multiverse and Bigdata'.
- Elsevier, Qilu University of Technology and the Shangdong Academy of Science Laser Institute CHINA organized the conference 'Measurement, Sensor Systems and Applications Conference'.

STUDENT ACHIEVEMENTS

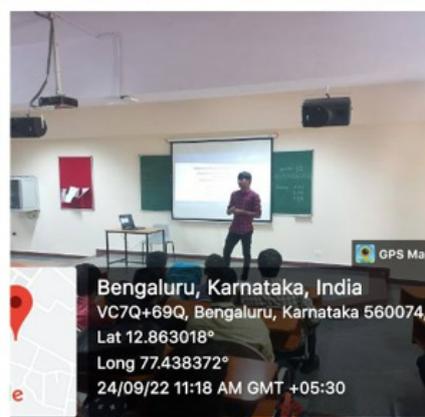
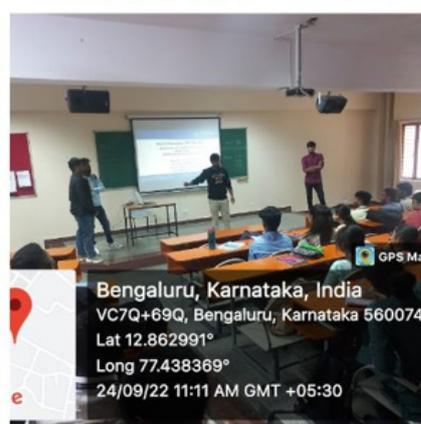
- **Mr Netaji** and team bagged the 1st prize in ICETECH Project Contest.
- **Mr Paul** and team bagged the 2nd prize in ICETECH Project Contest.
- **Mr Dhruv(5BTCS IOT)** and team bagged the 3rd prize in ICETECH Project Contest

EVENTS

- On the 5th and 6th of September 2022 the 3rd Congress on Intelligent Systems CIS 2022 was organized by CHRIST (Deemed to be University), Bengaluru and Technically sponsored by Soft Computing Research Society, New Delhi. A total of 729 research articles were received from 45 countries and 138 papers were approved for the conference. The after-conference proceedings of the CIS 2022 were published in SCOPUS Indexed Springer Book Series, "Lecture Notes in Networks and Systems". There were 5 General Chairs and 5 Keynote Speakers for the event.
- On the 8th of September 2022, Dr Jayapandian conducted a CSI Student Membership Awareness Session.
- On the 8th of September 2022, ASCII inauguration was conducted by the ASCII team lead by Dr Naveen J.
- On the 15th of September 2022, an IEEE Technical seminar was conducted by Dr Sandeep Kumar and Dr Shrikanth for 3rd semester students.
- On 17th and 24th of September 2022, a Boot Camp was conducted for the 5th and 7th semester students.
- ICETECH 2022 was conducted on the 15th of September 2022. A total of 16 teams representing CSE department were there.

ALUMNI INTERACTION

- On the 17th of October 2022, an alumni interaction session was conducted. This interaction was a virtual alumni talk on “Transformation from Graduate to a Professional”. More than 200 students including Undergraduate and Post Graduate students attended the talk. Mr Bhavanasi Manjari, an Associate Technical Engineer at Kyndryl India was the speaker.
- On the 24th of September 2022, the alumni interaction cell conducted an in-person interaction event. The alumni who addressed the gathering were Mr Aayush Bhatt from Mercedes Benz, Mr Akash Singh from Tekion Group, Mr Karamveer from Workforce Software and Mr Anvesh Reddy from Hashedin. The talk was on the lines of increasing the moral and spirit of the students to utilize and make the most of their college life.



BIOGRAPHY

Dr. Ajit Danti *(BE, MTech, MCM, PhD)*

Professor, Dept. of Computer Science and Engineering. CHRIST (Deemed to be University), Bengaluru, India.



Dr Ajit Danti is currently a Professor in the Department of Computer Science and Engineering at CHRIST (Deemed to be University), Bangalore, Karnataka. He completed his B.E from Bangalore University in 1988 with First Class, M.Tech(IT) from Mysore in 2011 with Distinction and MCM from Shivaji University in 1991 with First Class. His PhD title was “A Study on Human Face Detection & Recognition based on Digital Image Processing”, and was done at Gulbarga University in November 2006. Throughout his teaching career, he has taught 14 courses to students. He also has the academic experience, which has allowed him to take up different positions in different institutions.

In Jawaharlal Nehru National College of Engineering(JNNCE), Shivamogga, Karnataka, he has held positions from lecturer and Professor to Director. Dr Ajit has also taught in foreign universities as a Professor. He worked at Karary University, Ministry of Defence, the Republic of Sudan as a Professor from 2007 to 2008 and at King Khalid University, Saudi Arabia, from 2015 to 2016. Having much experience, Dr Ajit has been accredited by different organizations both from India and from Abroad and has contributed to helping the society, evident by the patents.

His patents include a Smart Toll Collection Through GPS, an Automatic Blood Group Identification Device and a System and Method for Crop and Fertilizer recommendation through Soil Nutrient Monitoring using Cyber-Physical Systems and Machine Learning. Having over 30 years of experience, which includes 19 years of research and two years of foreign experience, Dr Ajit is a senior member of IEEE and a life member of ISTE.

It has allowed him to have over 150 publications, 7 best paper awards, 12 book chapters authored, 3 patents published (India), 829 Google Citations and guiding 10 PhD scholars. His research experience includes AI, ML, Computer Vision, Pattern Recognition, Image Processing and Data Mining.

FACULTY RESEARCH AND PUBLICATIONS

- Dr Raghavendra S, Dr Boppuru Rudra Prathap, Dr Birajashis Pattnaik, and Dr Santosh Kumar Jankatti received a copyright for their work titled 'A System and Method Internet of Things (IoT) Self-Organizing Map'.
- Dr Jayapandian N, Dr V Kumar and Dr P Balasubramani published an article in the research journal Springer Nature in Wireless Personal Communications titled 'Cloud Dynamic Scheduling for Multimedia Data Encryption Using Tabu Search Algorithm'.
- Dr Jayapandian N, along with V Kumar and Dr P Balasubramanie, published an article in the research Journal Springer Nature in Wireless Personal Communications titled 'Improving Routing Data Security in Wireless Sensor Network Using Clustering Range Indicators Essentials in SMDSRNGs Method'.
- Dr Jayapandian N, along with Dr Sathiyamoorthi V, Dr Suresh P, Dr Kanmani P, Dr Deva Priya M and Dr Sengathir Janakiraman published an article in a research journal, IGI Global in International Journal on Semantic Web and Information Systems titled 'An Intelligent Web Caching System for Improving the Performance of a Web-Based Information Retrieval System'.
- Dr Sandeep Kumar, along with Dr Muhammad Badruddin Khan, Dr Mozaheruk Hoque Abul Hasanat, Dr Abdullah AlTameem, and Dr Mohammed AlKhathami published an article in the research journal Tech Science Press in Computers, Materials & Continua titled 'Sigmoidal Particle Swarm Optimization for Twitter Sentiment Analysis'.
- Dr Sandeep Kumar and Dr Vinod Kumar Menaria and Dr Ketan Kotecha published an article in a research journal. Tech Science Press in Computers, Materials & Continua published the article 'Multiway Relay Based Framework for Network Coding in Multi-Hop WSNs'.

FACULTY ACHIEVEMENTS

- **Dr Karthikeyan H** completed his PhD on September 21, 2022 by Anna University, Chennai.
- **Dr Aruna SK** was awarded the Best Women Engineer by the Institute of Engineers.

ENGINEERING: A Trend or Passion?

Engineering is a trend



Life without aim is like a ship sailing without a direction. When students pass secondary school education in India, they are clueless about what they should follow up ahead. Three threads influence the **Decision** taken by a student at that age, one is parents, the second is the surrounding where students live, and the third is ease and comfort. The Third thread is significant because, according to a research study, 15 Lakh engineers graduate annually in India. Today if we ask an engineering aspirant why they chose to become an engineer, only one out of five students may answer that engineering is their dream. A dream cannot be a reality, so to turn it into reality, make engineering your aim and passion, which will drive you to numerous possibilities.

In a country like India, there is a lot of competition. Everyone wants a peaceful life. Every present graduate expects his life to be secure. Engineering has become an option in life when you are sure about it or not sure about anything. Engineering has become a trend. Parental pressure, society, and expecting a bright future could all be why students choose to be an engineer. It is not wrong to wish for a bright future but has ever that student explored different paths where a student could have excelled in his skills? Who is to blame? The education system, parents, government, or students. Everything is just a void until you fill it with endless expectations. Linearity is a new normal. Life with more linear series of events makes it happier and less grieving.

Technology is at its peak in one half of the world, and in another half, we observe the environment paying the cost. Why has engineering become a trend? If we see situations of jobs in each sector either maybe 20 years from now shows that time has compelled people to opt for engineering. People are aware of everything they should be. But the problem is, are they concerned about it?

STUDENTS' CORNER

Engineering is a passion

How is engineering a passion? To answer this, let us understand what exactly passion is. Passion is love, emotion, power, the motivation that makes you feel good and lively. People are not born with passion. They find it eventually, exploring their interests. Engineering should not be just a platform to get a degree that will help you get a job. Engineering should make you thrive and excited for new life challenges. You should not be thinking about getting good marks when doing a project. The thought in your mind should be about getting real hands-on experience. Engineering was never about theory. It was and will always be about practicality. Today it is noticed faculty has to ask students if they have doubts.

Professors always quote that learning is all about the outcome of your curiosity. If a student is not curious, there are huge chances that the student is not active or attentive during classes. In the first year of engineering, the main discussion panel of students will be about the scope of a stream they are currently pursuing. It is essential, but the discussions sometimes don't show great results. It has been observed that engineering has become a comparative perspective in today's world. In a batch of 40 students, all 40 students will be compared to each other on only one basis, which is academics.



Om Sudhakar Kote
1961061, 7BTIT



STUDENTS' ACTIVITIES

To mark the special occasion of Teachers' Day, which is celebrated on the 5th of September annually, **Mohamed Fuhad (2062410 - 5BTCS IOT) & Ms. Syed Suhana(2062422 - 5BTCS IOT)** decided to write and present the names of most of the CSE faculty members in **Gond** language. This language is written from right to left.



| | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> 1. Dr. Addapalli V N Krishna 2. Dr. Ajit Danti 3. Alok kumar pani 4. Anoop G L 5. Arul V 6. Dr. Aruna S K 7. Babu kumar S 8. Dr. Balachandrom K 9. Dr. Balamurugam M 10. Dr. Bejoy B J 11. Dr. Benny Thomas 12. Bijeesh T V 13. Dr. Boppara Rudra Prathap 14. Dr. cherukuri Ravindranath chowdary 15. chinthakunta Manjunath 16. Dr. Daniel D 17. Dr. Beulah M 18. Dr. chidambaram S 19. Darshan S M 20. Dr. debasish mukherjee 21. Dr. Debarka Mukhopadhyay 22. Dr. Deepa Yogish 23. Dr. Deepak Jose | <p> 1- <u>Dr. Addapalli V N Krishna</u> 2- <u>Dr. Ajit Danti</u> 3- <u>Alok kumar pani</u> 4- <u>Anoop G L</u> 5- <u>Arul V</u> 6- <u>Dr. Aruna S K</u> 7- <u>Babu kumar S</u> 8- <u>Dr. Balachandrom K</u> 9- <u>Dr. Balamurugam M</u> 10- <u>Dr. Bejoy B J</u> 11- <u>Dr. Benny Thomas</u> 12- <u>Bijeesh T V</u> 13- <u>Dr. Boppara Rudra Prathap</u> 14- <u>Dr. cherukuri Ravindranath chowdary</u> 15- <u>chinthakunta Manjunath</u> 16- <u>Dr. Daniel D</u> 17- <u>Dr. Beulah M</u> 18- <u>Dr. chidambaram S</u> 19- <u>Darshan S M</u> 20- <u>Dr. debasish mukherjee</u> 21- <u>Dr. Debarka Mukhopadhyay</u> 22- <u>Dr. Deepa Yogish</u> 23- <u>Dr. Deepak Jose</u> </p> | <ol style="list-style-type: none"> 24. Delsor T R 25. Devika Menon M K 26. Dr. Diana Jeba Jingle 27. Dr. Divya Vetriveeram 28. Dr. Ganesh Kumar R 29. Dr. Gnana Prakasi O S 30. Gokulpriya R 31. Gurudas V R 32. Dr. Jayapandiyam N 33. Dr. Jeneja J 34. Dr. Jeno Lovesum S P 35. Dr. Julian Benadit P 36. Dr. Jyothi Mandala 37. Dr. Jyothi Thomas 38. Karthikeyan H 39. Dr. Knuthika M 40. Dr. kukattapalli Pradeep kumar 41. Dr. Manohar M 42. Dr. Manu Elappila 43. Dr. Mary Anita E A 44. Dr. Mausumi Goswami | <p> 24- <u>Delsor T R</u> 25- <u>Devika Menon M K</u> 26- <u>Dr. Diana Jeba Jingle</u> 27- <u>Dr. Divya Vetriveeram</u> 28- <u>Dr. Ganesh Kumar R</u> 29- <u>Dr. Gnana Prakasi O S</u> 30- <u>Gokulpriya R</u> 31- <u>Gurudas V R</u> 32- <u>Dr. Jayapandiyam N</u> 33- <u>Dr. Jeneja J</u> 34- <u>Dr. Jeno Lovesum S P</u> 35- <u>Dr. Julian Benadit P</u> 36- <u>Dr. Jyothi Mandala</u> 37- <u>Dr. Jyothi Thomas</u> 38- <u>Karthikeyan H</u> 39- <u>Dr. Knuthika M</u> 40- <u>Dr. kukattapalli Pradeep kumar</u> 41- <u>Dr. Manohar M</u> 42- <u>Dr. Manu Elappila</u> 43- <u>Dr. Mary Anita E A</u> 44- <u>Dr. Mausumi Goswami</u> </p> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

- | | |
|----------------------------------|--------------------------------------------|
| 45. Dr. Melbin J Reena | <u>ନେଆଁର 1୫</u> <u>ଅଫିସର</u> . <u>ଓ.ସ.</u> |
| 46. Dr. Merin Thomas | <u>ଫିଲଡିଂ</u> <u>ଅଫିସର</u> . <u>ଓ.ସ.</u> |
| 47. Michael Moses T | <u>୨୦</u> <u>ଫିଲଡିଂ</u> <u>ଅଫିସର</u> |
| 48. Mithun B N | <u>ଅଫି</u> <u>୨୦</u> <u>ଅଫିସର</u> |
| 49. Dr. Natarajan K | <u>110</u> <u>ଅଫିସର</u> . <u>ଓ.ସ.</u> |
| 50. Dr. Naveen J | <u>11୫</u> <u>ଅଫିସର</u> . <u>ଓ.ସ.</u> |
| 51. Dr. Praveen Kulkarni | <u>୧୩୫୦-୧୫୦</u> <u>ଅଫିସର</u> . <u>ଓ.ସ.</u> |
| 52. Dr. Raghavendra S | <u>ଫିଲଡିଂ</u> <u>ଅଫିସର</u> . <u>ଓ.ସ.</u> |
| 53. Dr. Rajkumar Rajavel | <u>୧୩୫୦-୧୫୦</u> <u>ଅଫିସର</u> . <u>ଓ.ସ.</u> |
| 54. Dr. Rakoth Kandan Sambandam | <u>ନେଆଁର</u> <u>ଅଫିସର</u> . <u>ଓ.ସ.</u> |
| 55. Dr. Rekha V | <u>ନେଆଁର</u> <u>ଅଫିସର</u> |
| 56. Dr. Sandeep kumar | <u>୧୩୫୦</u> <u>ଅଫିସର</u> . <u>ଓ.ସ.</u> |
| 57. Somthrupth B C | <u>୧୩୫୦</u> <u>ଅଫିସର</u> . <u>ଓ.ସ.</u> |
| 58. Dr. Sathish kumar R | <u>୧୩୫୦</u> <u>ଅଫିସର</u> . <u>ଓ.ସ.</u> |
| 59. Dr. Sathish P K | <u>ଫିଲଡିଂ</u> <u>ଅଫିସର</u> . <u>ଓ.ସ.</u> |
| 60. Dr. Savitha S | <u>ଫିଲଡିଂ</u> <u>ଅଫିସର</u> . <u>ଓ.ସ.</u> |
| 61. Dr. Shamanth N | <u>ଫିଲଡିଂ</u> <u>ଅଫିସର</u> . <u>ଓ.ସ.</u> |
| 62. Sharon Raji Priya C | <u>ଫିଲଡିଂ</u> <u>ଅଫିସର</u> . <u>ଓ.ସ.</u> |
| 63. Dr. Shrikant Subhash Tangade | <u>ଫିଲଡିଂ</u> <u>ଅଫିସର</u> . <u>ଓ.ସ.</u> |
| 64. Dr. Sujatha A K | <u>ଫିଲଡିଂ</u> <u>ଅଫିସର</u> . <u>ଓ.ସ.</u> |
| 65. Sumitha V S | <u>ଫିଲଡିଂ</u> <u>ଅଫିସର</u> . <u>ଓ.ସ.</u> |

66. Dr. Sundara perndiyam S
ଫିଲଡିଂ ଅଫିସର .ଓ.ସ.
67. Dr. Vandana Reddy
୧୩୫୦ ଅଫିସର .ଓ.ସ.
68. Dr. Vinod H C
୧୩୫୦ ଅଫିସର .ଓ.ସ.
69. Dr. Xavier C
ଫିଲଡିଂ ଅଫିସର .ଓ.ସ.

STUDENTS' ACTIVITIES

𑌎𑌏𑌐 𑌑𑌒 (𑌓𑌔)

सुरक मुरक

𑌕 𑌖 𑌗 𑌘 𑌙 𑌚 𑌛 𑌜 𑌝 𑌞 𑌟 𑌠 𑌡

अ आ इ ई उ ऊ ऐ औ अं अः
 𑌢 𑌣 𑌤 𑌥 𑌦 𑌧 𑌨 𑌩 𑌪 𑌫 𑌬 𑌭

𑌮𑌯 (𑌰) 𑌱

मुळक्षरे मूळक्षर

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|-----|
| 𑌲 | क | 𑌳 | ख | 𑌴 | ग | 𑌵 | घ | 𑌶 | ङ |
| 𑌷 | क | 𑌸 | ख | 𑌹 | ग | 𑌺 | घ | 𑌻 | ङ |
| 𑌼 | च | 𑌽 | छ | 𑌾 | ज | 𑌿 | झ | 𑍀 | ञ |
| 𑍁 | ट | 𑍂 | ठ | 𑍃 | ड | 𑍄 | ढ | 𑍅 | ण |
| 𑍆 | त | 𑍇 | थ | 𑍈 | द | 𑍉 | ध | 𑍊 | न |
| 𑍋 | प | 𑍌 | फ | 𑍍 | ब | 𑍎 | भ | 𑍏 | म |
| 𑍐 | य | 𑍑 | र | 𑍒 | ल | 𑍓 | व | 𑍔 | श |
| 𑍕 | ष | 𑍖 | स | 𑍗 | ह | 𑍘 | ळ | 𑍙 | क्ष |

गोंडी, मराठी, तेलुगु मुळाक्षरे दर्श तकता
 గోండి, మరాఠి, తెలుగు మూలక్షర దర్శ తక్తా

The given is the reference of the Gond language that was used by the student.

STUDENTS' ACTIVITIES

Ms. Syed Suhana (2062422) of 5BTCS IOT was the speaker of the event of Entrepreneurship Journey In The Area Of Environment Sustainability. This is the first programme by IEEE SIGHT which started with a workshop in collaboration with the Industry Interaction Cell(IIIC). The Session flow included a Speaker's introduction followed by the speaker's address and an Q&A interaction session with the audience. Mr Aswath Premaraj, the speaker of the session is an inventor, researcher and technologist, who looks for opportunities to apply technologies leading to positively impact the society and environment.



STUDENTS' ACTIVITIES



With the emphasis to encourage the students in maintaining a proper study life and personal life balance, the Department of Computer Science and Engineering along with the Physical Education Department conducted Boot Camps for the students. Dr Julian Bedit from the Department of Computer Science and Engineering along with Mr Dilip (Physical Director), Mrs Smitha Keeran Warrior, the Counsellor and Dr Sheela Mathew, the Medical in-charge conducted the event. For the Seventh Semester students, the Boot camp was conducted on the 17th of September 2022. For the Fifth Semester students, their Boot camp was held on the 24th of September 2022.





BOOT CAMP 2022

INITIATIVE OF DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

PHYSICAL AWARENESS < MENTAL AWARENESS < MEDICAL AWARENESS <

Believe in Yourself and You'll be Unstoppable



BASKETBALL COURT



9AM - 1PM



SATURDAY, 24 SEPTEMBER

Open to all 5th semester (CS/IT) students

In case of any queries, contact your Student Sports Coordinator

BOOT CAMP 2022

INITIATIVE OF DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

PHYSICAL AWARENESS < MENTAL AWARENESS < MEDICAL AWARENESS <

Believe in Yourself and You'll be Unstoppable



BASKETBALL COURT



9AM - 1PM



SATURDAY, 17 SEPTEMBER

Open to all 7th semester (CS/IT) students

In case of any queries, contact your Student Sports Coordinator

The event consisted of a physical awareness session, a mental awareness session and a medical awareness session. Students were encouraged to do some warm-up exercises, which were followed by a tug-of-war game and some group games. The event concluded with all the students being asked to play some sport that they want to play and continue the habit of playing that sport.



TEACHERS' QUOTES

ನಮಸ್ಕಾರ!!!

ಇಂದು ನಾವು ಸ್ವಾಮೀಶ್ ಇಂಟೆಲಿಜೆಂಟ್ ಬಗ್ಗೆ
ತಿಳಿಯೋಣ.

ಸ್ವಾಮೀಶ್ ಎಂದರೆ ಯಾವುದಾದರೂ ಪ್ರೀತಿ,
ಜೀವಜಂತು ಅಥವಾ ನಿರೋಧವು ವಸ್ತುಗಳ ಸಮೂಹ.

ಈ ಸಮೂಹಗಳ ರಚನೆಯ ಪ್ರಕ್ರಿಯೆಗಳನ್ನು
ಪ್ರೀತಿಯಿಂದಲೂ ಗಣಕಯಂತ್ರ ವ್ಯವಸ್ಥೆಯಲ್ಲಿ
ಅನ್ವಯಿಸಬಹುದು.

ಸ್ವಾಮೀಶ್ ಇಂಟೆಲಿಜೆಂಟ್ ಪ್ರಕಾರಗಳು:

- * ಇರುವ ವಸ್ತುವು ಸ್ವಾಮೀಶ್
- * ಕಣ ಸ್ವಾಮೀಶ್
- * ಮಿಂಚು ಹುಳು ಸ್ವಾಮೀಶ್
- * ಜೀವ ವಸ್ತುವು ಸ್ವಾಮೀಶ್

ಸ್ವಾಮೀಶ್ ಇಂಟೆಲಿಜೆಂಟ್ ಪದ್ಧತಿಯನ್ನು
ನಿರೀಕ್ಷಿಸಿ ಸಂವೇದಕ ಜಾಲಗಳಿಗೆ ಅನ್ವಯಿಸಬಹುದು.

ನಿರೀಕ್ಷಿಸಿ ಸಂವೇದಕ ಜಾಲಗಳಿಗೆ ಎಂದರೆ
ಯಾಂತ್ರವ್ಯವಸ್ಥೆಗೆ ಏತರಣೆಯ ನೋಡು ಸಂಯೋಗಗಳು.

ಈ ನೋಡುಗಳು ಒಂದು ಏಕಾಕ್ಷ ಪ್ರದೇಶದ
ಭೌತಿಕ ಆಯಾಮಗಳನ್ನು ಅಳಯಲು ಸಹಕಾರವಾಗುತ್ತವೆ.

ಈ ನೋಡುಗಳೆ ಬ್ಯಾಲಿಸಿ ಸಮಯ ಬಳಸಿ ಕಡಿಮೆಯಾದ
ಇದನ್ನು ಅತ್ಯುತ್ತಮವಾಗಿ ಉಪಯೋಗಿಸುತ್ತೇವೆ ನೋಡು
ವ್ಯವಸ್ಥೆ ಮಾಡಬೇಕಾಗುತ್ತದೆ. ಈ ವ್ಯವಸ್ಥೆಗಳ ಪದ್ಧತಿಗೆ

ಸ್ವಾಮೀಶ್ ಇಂಟೆಲಿಜೆಂಟ್ ಬಳಸಬಹುದು.

- ನೀವು ಅರ್ಥಮಾಡಿಕೊಂಡಿರಿ ಎಂದು ಭಾವಿಸುತ್ತೇವೆ.

- ಧನ್ಯವಾದಗಳು

ದಾ|| ಮಧುಸೂರರಾಜ್
ಶೀಮತಿ ನಿರೋಷಿಣಿ ರಾಣಿ

TEACHERS' QUOTES

TRANSLATION FROM KANNADA TO ENGLISH:

Greetings!!!

Let us learn about Swarm Intelligence today.

The meaning of swarm is clustering / grouping of animals, insects, people or any non-living objects in a predefined manner.

The concept of swarming is important and can be applied or simulated to many computer network related concepts. As an effective example we can apply the concepts of Swarm Intelligence in Wireless Sensor Networks(WSN).

The types of important Swarm Intelligences are :

1. Ant Colony Swarm
2. Particle Swarm
3. Glowworm Swarm
4. Bee Colony Swarm
5. Grey Wolf Swarm

Swarm Intelligence when applied to WSN can be used in node location identification and node energy optimization.

WSN refers to the random distribution of nodes in a wide area where the nodes placed would sense the physical parameters of the area.

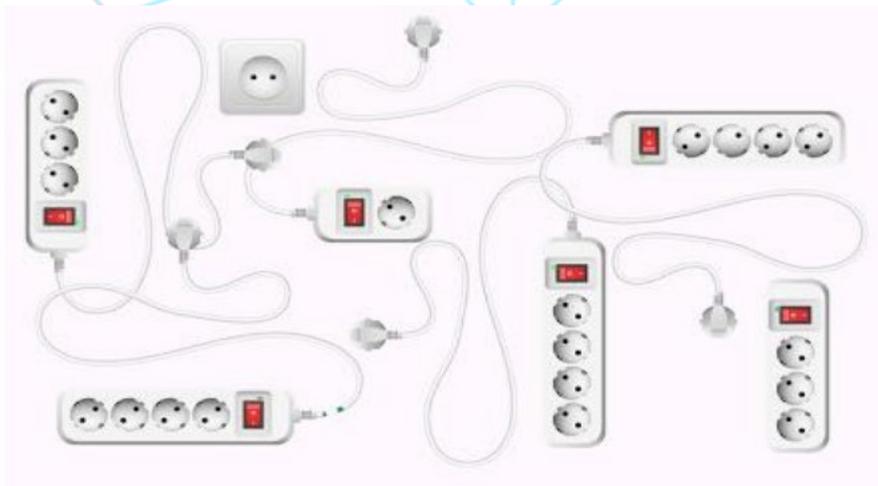
These sensor nodes are energy constrained and would require effective optimization of work and data processed at their end. The arrangement of these nodes could be inspired by Swarm Intelligence for achieving efficient node energy optimization. Hope you have understood the purpose of Swarm Intelligence.

Thank You

Dr. Vandana Reddy
Mrs. Nivedita Raga

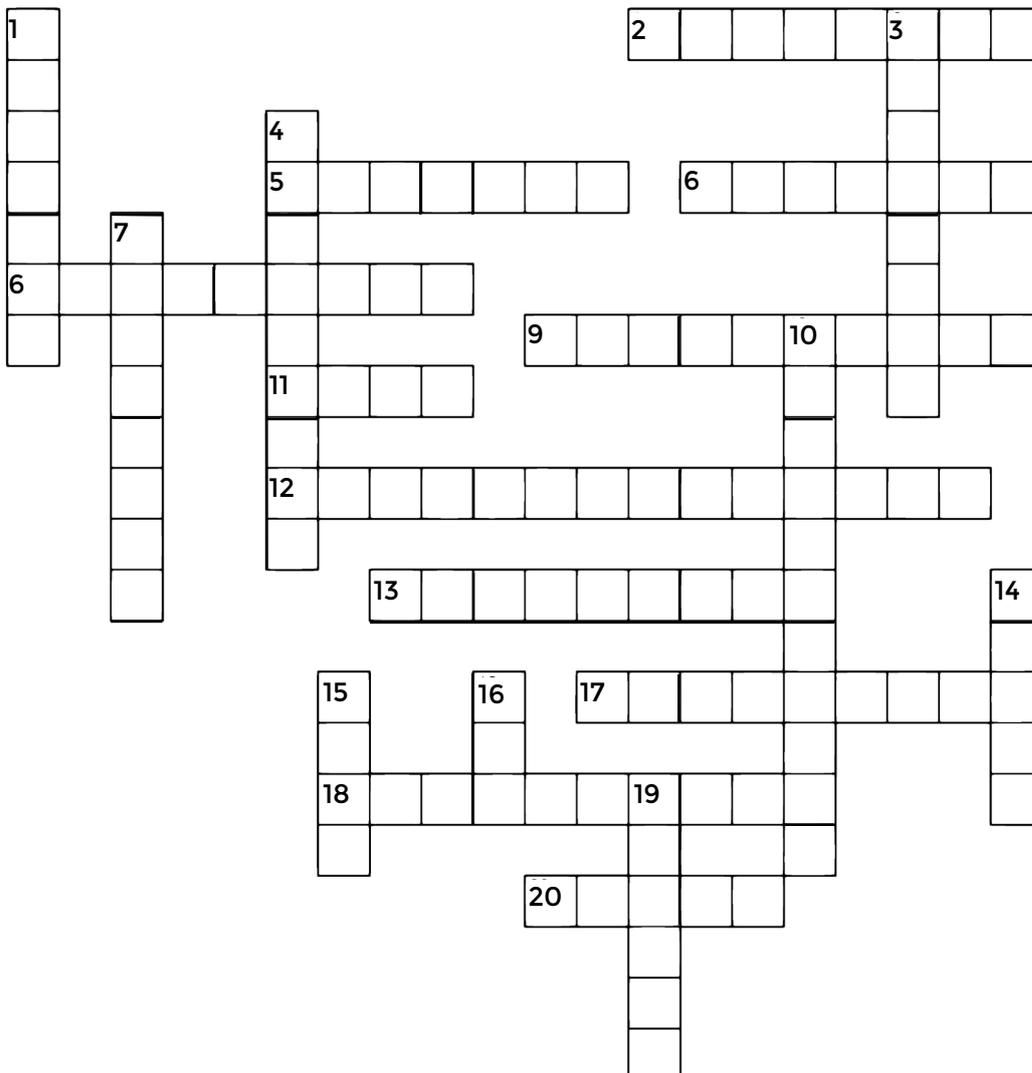
PUZZLE CORNER

1. How many phones can be charged simultaneously?



2. Why did Mark Zuckerberg visit Beijing?
3. Why did the geek add `body { padding - top; 1000px; }` to his facebook profile?
4. Why do they call it hyper text?

PUZZLE CORNER - CROSSWORD



PUZZLE CORNER - CROSSWORD

ACROSS:

- 2) Internet snacks that log your data
- 5) In the World of technology, wifi enabled toaster would be called:
- 8) The vegetable most attributed to the Father of computers
- 10) Starting out as just "Interface Manager"
- 11) The first video game ever created
- 12) Inbox clogger
- 14) An investment like stocks or bonds, except it's tied to absolutely nothing
- 18) The very first virus
- 20) Test computers go through to feel human

Down:

- 1) A common venue at home, companies like HP, Microsoft and Apple relate to:
- 3) History is not made by those browsing on _____ .
- 4) The most common password
- 6) The term 'Bug' came in when a actual bug was caught in the relays of the Mark 2 Computer, which bug?
- 7) The longest word that you can write using the letters is only on one row of the keyboard.
- 9) There are 10 types of people in this world: Those who understand _____ , and those who don't.
- 13) Where the encrypted file goes after it's time is up?
- 15) Word was introduced to the English lexicon through Twitter, by Donald Trump.
- 16) A computer mouse pointer that needs to mind its language.
- 17) Unit of speed and movement of a Computer mouse
- 19) Media platform with the tagline- "Front page on the Internet".

ZAIKA

Teriyaki Chicken

Ingredients (for 4 serving):

- 2 lbs chicken thighs, slice it to chunks.
- 1 cup soy sauce (240 ml).
- 1/2 cup brown sugar.

Preparation:

- Sear the Chicken thighs evenly in a pan, then flip.
- Add the Soy sauce and brown sugar, stir and allow it to boil.
- Stir until the sauce has reduced and evenly glazes the chicken.
- Serve the rice, if desired.
- Enjoy!

Nutrition Information:

- | | |
|------------|-----|
| • Calories | 366 |
| • Fat | 9g |
| • Carbs | 20g |
| • Fiber | 0g |
| • Sugar | 17g |
| • Protien | 48g |



Roasted Garlic Potatoes



Nutrition Information:

- Total Fat 12g
- Cholestrol 0mg
- Sodium 940mg
- Total Carbs 50g
- Protien 6g

Preparation:

- Arrange a rack in the middle of the oven and heat the oven to 425°F.
- Place a rimmed baking sheet in the oven while it heats up.
- Place the potatoes, Olive oil, Garlic powder, Salt, and pepper in a large bowl and toss to combine them,
- Remove the hot baking sheet from the oven.
- Transfer the potatoes to the baking sheet and arrange them Cut-Side down.
- Roast them for 15 minutes.
- Flip the potatoes over with a flat metal spatula and roast until browned and tender, about 10 more minutes.
- Just befor serving, squeeze the lemon over the potatoes and toss to combine.

Ingredients:

- 3 pounds Large red potatoes (cut into 1.5 or 2-inch chunks).
- 3 tablespoons Olive oil
- 3 teaspoons Garlic powder
- 1 teaspoon Kosher Salt
- 1/4 teaspoon freshly ground Black pepper
- 1/2 medium lemon (seeds removed).



EDITORIAL BOARD:

Dr Balachandran K

Dr Vandana Reddy

Dr Manu Elappila

Gowrishankar M - 2061005

Aaqil Faheem Hashim - 2162201

Basil Benedict - 1960318

Dishti Kundra - 1960417

Bishal Saha - 1960321



**Department of Computer Science and Engineering,
School of Engineering and Technology,
CHRIST (Deemed to be University), Kengeri Campus.**

For Internal Circulation Only