

# SMRITI

*Department of  
Computer Science and Engineering*

**VOLUME : 11      ISSUE : 2**

The logo for SSh, consisting of the letters 'SSh' in a bold, blue, sans-serif font. The 'S' and 'S' are connected, and the 'h' is slightly offset to the right.

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## EDITORIAL DESK

In this edition, we are delighted to present the notable accomplishments of the department, during the last three months. This edition is filled with information about international conferences, workshops, competitions, publications and many more.

This period the department conducted two international conferences on “Speech and Language Technologies for Low-resource Languages(SPELLL)” and “Security and Data Privacy(ICSDP)”. We appreciate the time and effort taken by Dr. D. Thenmozhi and Dr.B.Bharathi who collaborated with a Tamil-NLP research group composed of members from different colleges and industries across the globe to organize the first SPELLL conference. Also we commend the endeavor put in by Dr. A. Chamundeswari, Dr. Suresh J, Dr.S.Saraswathi, and Dr. V. Balasubramanian for organizing ICSDP.

The department has always been keen in providing a wide exposure to various dimensions of learning. This has motivated several faculty teams to formulate course plans to conduct workshops and faculty training programmes on “Embedded Software Development”, “Developing Microservices and Containerization”, “Quantum Computing”, “Fake News Detection in Low-Resource Languages”, “Outcome Based Education and Accreditation Process ” and “Programming in C with Data Structure perspective”. All events witnessed overwhelming responses.

Heartfelt congratulations to Dr. V.S. Felix Enigo for bagging first prize in the lean canvas competition conducted by SSN iFound and SSN IIC. Congratulations to Ms. S. Angel Deborah on successfully defending her doctoral thesis. We wish her a fruitful academic and research career.

Our students have always been an integral part of the department, they have been avid to participate and organize various technical and non-technical events. The technical extravaganza, IVENTE 2k22 an inter college technical event received tremendous response from the student community. A team comprising Anirudh , Joseph and Avinash Kartik participated in the ICPC Asia west finals and were placed 11th among the 20000+ teams. The department appreciates Vignesh Balaji for participating in UNESCO-India-Africa (UIA) Hackathon conducted by the Ministry of Education’s Innovation Cell (MIC) and the All India Council for Technical Education (AICTE).

We are glad of Pradeep G, Shashank Panda and Hrithin Ramji who were placed first in "Tarang, Eastern Band " hosted by IIT Madras’s Saarang’23 and Music Event at Loyola's Libazaar'23. We applaud V.S. Sathvika for participating in various table tennis tournaments and bringing laurels to the institution. We admire the ACM student team for conducting outreach programmes for government schools. The department welcomed the alumni with joy for Tribute '23.

We are extremely delighted to see the new accomplishments of our faculty and students during this quarter. We eagerly look forward with great anticipation to a more productive quarter ahead.

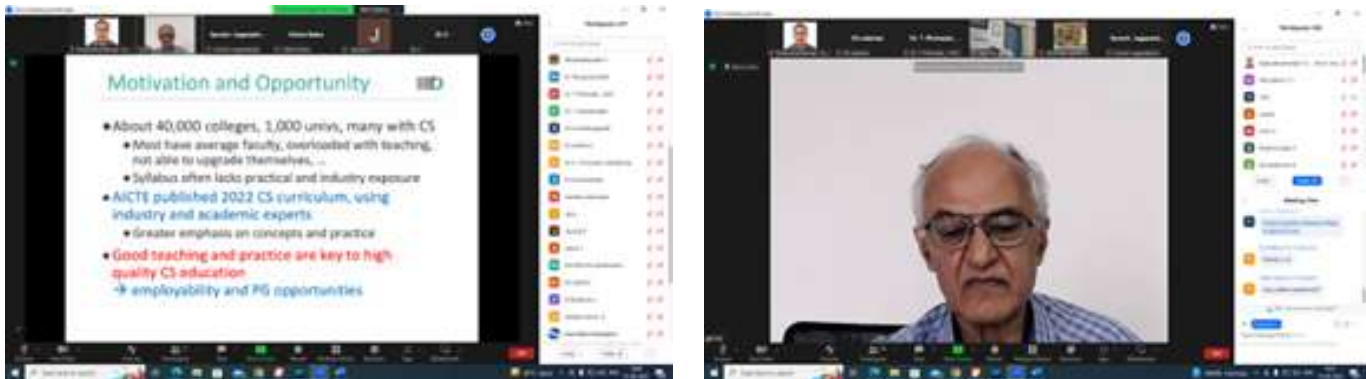
**SMRITI Editorial Team**

## EXTERNAL INTERACTIONS AND RECOGNITIONS

### SSN- CSEDU Joint Certificate Program for the Course “Effective Teaching of Computer Networks”

CSEDU (Certificate Program for Faculty in Computer Science Education) helps to improve the quality of CS/IT teaching with a strong focus on hands-on practical skills and in-depth knowledge in fundamental concepts. Improved quality of teaching will naturally lead to better employability for students and better ranking /reputation for colleges/institutions.

Dr. Timothy A. Gonsalves, Former director of IIT Mandi and retired professor from IIT Madras visited the department on 6<sup>th</sup> December and discussed the possibility of SSN partnering with CSEDU in offering this program. He also met the Principal as well as the Vice-Principal and briefed about this program and its benefits. Subsequent to that, Dr. T.T. Mirnalinee, Dr. Chitra Babu and Dr. V. Balasubramanian attended a couple of online meetings with Dr. Timothy A. Gonsalves, Dr. Sreelakshmi, IIT Mandi on the 27<sup>th</sup> December 2022 and 24<sup>th</sup> January 2023 to discuss the responsibility division between CSEDU and SSN, as well as the logistics involved in organizing this program.



It was decided that an online session for HoDs of CSE, IT and ECE departments of several colleges will be conducted on the 1st Feb 2023 to provide awareness about this certificate program and to increase the participation. Around 60 Faculty members from various colleges attended the meeting on the 1<sup>st</sup> Feb and Dr. Timothy A. Gonsalves briefed the participants about CSEDU Initiative and how the certificate program is aligned with the latest AICTE Curriculum and benefits of this program. ACM India will be providing 50% scholarship to the participants on successful completion (proper attendance and assignment submission). Participants must pay Rs. 6,000/- initially to register and will get a reimbursement of Rs. 3,000/- from ACM India at the end of the program if they meet the requirements for successful completion..

The promotional materials and completion certificates will be co-branded with SSN.

## Tamil Nadu Police Hackathon 2022

**Dr. T.T. Mirnalinee** and **Dr. V. Balasubramanian** were nominated as core committee members for organizing Tamilnadu police hackathon by the ADGP Cyber crime. The event was organized at SRM on 5.12.2022, 9.12.22 & 10.12.22. **Dr. V. Balasubramanian** & **Dr. J. Suresh** acted as a Jury for TN Police Hackathon.

### Invited Lectures

1. **Dr. R. Kanchana** delivered a talk on “Disruptive Innovations” to the first year students of IIIT Una, Himachal Pradesh as a part of their orientation programme. Date – 14th Nov 2022.
2. **Dr. S. Kavitha** has given a talk on "Research Trends in Artificial Intelligence and Machine Learning", at Dr. M.G.R. Educational and Research Institute, Maduravoyal, Chennai during 28-11-22 / 2.00PM to 4.00PM.
3. **Dr. K. Lekshmi** delivered a talk on Computer Vision Applications on ML-IOT Integration System in one week International FDP on Industry 4.0 held on Dec 5-9, 2022 at Eswari Engineering College, Chennai, Tamil Nadu, India.

### Doctoral Committee Member Activities

1. **Dr. J. Suresh** attended as a Member of the Synopsis Approval Meeting for the scholar, Ms. Kanimozhi, convened by Dr. Prem Jacob, SRM Institute of Science and Technology on 19.11.2022.
2. **Dr. Y. V. Lokeswari** attended the second Doctoral Committee meeting for the candidate Ms. S Shanthini on 03.12.2022 for Confirmation of Provisional Registration for Ph. D under Anna University.
3. **Dr. Y. V. Lokeswari** attended the second Doctoral Committee meeting for the candidate Ms. M. Janani on 03.12.2022 for Confirmation of Provisional Registration for Ph. D under Anna University.
4. Dr. Vijayakumaran, SRM IST invited **Dr. Chamundeswari Arumugam** as Expert members for the Comprehension Viva Voice Meeting for Ph.D research scholar Mr. M.Ramesh (PA2013003012002)– Part Time, Department of Computing technologies, School of Computing, SRM IST on 10th December 2022.
5. **Dr. D. Venkatavara Prasad** attended Synopsis DC meeting for Ms Mythili Reddy , at Bharath Institute of Higher Education and Research on 28-12-2022.
6. **Dr. S. Saraswathi** attended the first DC meeting through online mode for a Research Scholar at SRM Valliammai Engineering College on 06-01-2023. and a research scholar at Vellammal Engineering College on 11-01-2023.

7. **Dr. V. Balasubramanian** attended the Comprehensive Examination of the scholar P.M. Vijayan, Ph.D Scholar, VIT Vellore on 23.1.23 at 11.00 AM.

## Advisory Committee Member

**Dr. S. Kavitha** was recognized as an advisory committee member for the 1st International Conference on Computational Science and Technology (ICCST 2022) at Sairam Engineering College during Nov 9-10, 2022.

## Program Chairs

1. **Dr. Chitra Babu** as one of the PC Co-chairs and Chair of ACM iSIGCSE Chapter was invited to attend the ACM COMPUTE 2022 that was organized at the Manipal university Jaipur(MUJ), Jaipur during 9 - 11 November 2022.
2. **Dr. S. Kavitha** acted as ICCCI 2023 conference chair for a session on 25.1.2023 (FN), at SIET, Coimbatore.
3. **Dr. Chitra Babu** as one of the Co-Chairs for the Diversity & Inclusion track that is part of the ACM Annual Conference on Data Science (CoDS)- Conference on Management of Data (CoMAD) organized at IIT Bombay during 4th to 7th January 2023, was invited to attend the conference. She served as session chair for the keynote talk by Dr. Anjana Susarla of Michigan State University. She organized a workshop on "Inclusive Design" where the sessions were handled by Ms. Tamanna Desai, UX Design Delivery Manager, TCS Research & Innovation and Dr. Richa Gupta from IIIT Delhi.

## INDUSTRY COLLABORATION

### TransUnion, Chennai

**Dr. T.T. Mirnalinee, Dr. R. Kanchana, Dr. A. Chamundeswari and Dr. V. Balasubramanian** had a meeting with the team from TransUnion, Chennai on 21st Oct 2022 and discussed the possibility of collaborating with them on workshops, faculty training, Hackathons, talks, etc. The discussions were fruitful, and MOU is in progress.

### Caterpillar India Pvt Ltd, Chennai

1. **Dr. Chitra Babu along with Dr. S. Rajalakshmi and Dr. S. Angel Deborah** completed the Mobile Full Text Search consultancy project with Caterpillar on 17th November 2022.
2. **Dr. Chitra Babu along with Dr. V. S. Felix Enigo and three third year students** attended a meeting with the Caterpillar technical team on 24th November 2022.

## HCL Technologies Limited, Chennai

1. **Dr. J. Bhuvana**, delivered a talk on Principal component Analysis on November 5, 2022 for HCL executives in an online program on Data Science, AI and ML.
2. **Dr. S. Rajalakshmi** delivered five-hour lectures on the topic “Support Vector Machines” on Nov 3 and 4, 2022, and conducted the test, as a part of the PG Certificate Program in Business Analytics & Data Science students.
3. **Dr. S. Rajalakshmi** delivered two online lectures on the topic “Recommendation Systems” on Nov 9 and 11, 2022, and conducted the test on Nov 12, 2022, as a part of the Online Data science, AI, and ML Program for HCL executives.
4. **Dr. S. Angel Deborah** delivered two online lectures on the topic “Stochastic Model - Markov Process" on Nov 15 and 17, 2022, and conducted the test on Nov 19, 2022, as a part of the Online Data science, AI and ML Program for HCL executives.
5. **Dr. J. Bhuvana, Dr. S. Rajalakshmi and Dr. S. Angel Deborah** mentored one batch of HCL executives for their project in Machine learning - II as a part of the Online Data science, AI and ML Program on December 26, 28 and 30, 2022.
6. **Dr. R. Kanchana, Dr. T. T. Mirnalinee, Dr. B. Bharathi** mentored one batch of HCL executives for their project in Machine learning - III as a part of the Online Certification program in Data science, AI and ML on December 26, 28 and 30, 2022 .
7. **Dr. J. Bhuvana, Dr. S. Rajalakshmi, Dr. S. Angel Deborah** have guided a capstone project titled 'Product recommendation system' for HCL executives as a part of online Education program. Meetings were conducted to discuss the project and its progress on 26, 28, 30 December 2022 and on 2, 4, 6 January 2023.
8. **Dr. T. T. Mirnalinee** delivered a talk on Support Vector Machine for HCL executives in an online program on Data Science, AI and ML on Nov 19, 2022.

## Splashgain systems

**Dr. Chitra Babu** interacted with Swapna Malwatkar of Splashgain systems and scheduled an online meeting on 31st Jan 2023 to demonstrate the "On Screen Marking(OSM)" product for digitizing the answer sheets by scanning the answer booklets by high speed non-destructive scanners and doing correction on those digital documents. **Controller of Examinations(CoE), deputy CoE, Principal, HoD - CSE, Dr. R. Kanchana and Dr. D. Thenmozhi** attended the meeting.

## IPSR Solutions Limited

Dr. T. T. Mirnalinee and Dr. R. Kanchana had an online meeting with ipsr solutions limited Kerala to learn about their software product QnSmart i. Dr. Mendas Jacob, founder of the company demonstrated the software and the features are listed below:

- 'QnSmart i' by IPSR is a web-based software solution for question paper generation in academic institutions.
- A smart, quality-centred and easy-to-use Question Bank and Question Paper Generation software that focuses on OBE
- In-built Bloom's Taxonomy Model that helps teachers design assessment strategies for desired learning outcomes. Questions can be mapped to outcomes, and the outcome distribution in question papers can be visually audited.
- Concept of Revision Year, to accommodate syllabus revisions.
- Advanced provisions for CoE and Faculty to find Question Bank Health.
- Repetition of questions asked in previous years can be controlled
- Any type of question paper can be generated - parts of the question paper, number of questions, mandatory/optional questions etc are configurable.
- Question paper rules are configurable - can be the same or different for different courses.
- Co-creation of question banks by multiple teachers.
- Provision to allow External Examiners to add questions. Options to track the volume of questions contributed by External Examiners.

There are many more features. It is a useful tool for automating the question paper generation and managing the question bank along the lines of OBE.

The screenshot shows a Zoom meeting in progress. The main window displays a presentation of the QnSmart i software interface. The presentation shows a table with the following columns: No, QID, User, Sub User, Section, and Question. The table contains 17 rows of data. The meeting interface includes a 'People' list on the right with participants: Akhil Kumar (Meeting host), Dr. Mendas Jacob, Jaimon Kuriakose, Mirnalinee T T, Nibin Sunny, Nibin Sunny (Presentation), and Yashika Priyan. The bottom status bar shows the time as 9:18 AM and the title 'QnSmart i demonstration for SSN colleg...'. The system tray at the bottom indicates 26°C, Mostly cloudy, and the date 07-12-2022.

No	QID	User	Sub User	Section	Question
7	8027	2	3	A	കുറഞ്ഞതരം തിരഞ്ഞെടുക്കൽ ചോദ്യം
8	8028	3	1	A	അവലോകനം ചെയ്യുന്ന ചോദ്യം
9	8029	3	2	A	ചുരുക്കത്തിൽ ഉത്തരമെഴുതുന്ന ചോദ്യം
10	8030	4	1	A	ചുരുക്കത്തിൽ ഉത്തരമെഴുതുന്ന ചോദ്യം
11	8031	4	2	A	ചുരുക്കത്തിൽ ഉത്തരമെഴുതുന്ന ചോദ്യം
12	8032	5	1	A	ചുരുക്കത്തിൽ ഉത്തരമെഴുതുന്ന ചോദ്യം
13	8033	5	2	A	ചുരുക്കത്തിൽ ഉത്തരമെഴുതുന്ന ചോദ്യം
14	8034	1	1	A	ചുരുക്കത്തിൽ ഉത്തരമെഴുതുന്ന ചോദ്യം
15	8035	1	1	A	ചുരുക്കത്തിൽ ഉത്തരമെഴുതുന്ന ചോദ്യം
16	8036	1	2	A	ചുരുക്കത്തിൽ ഉത്തരമെഴുതുന്ന ചോദ്യം
17	8037	1	3	A	ചുരുക്കത്തിൽ ഉത്തരമെഴുതുന്ന ചോദ്യം
18	8038	2	1	A	ചുരുക്കത്തിൽ ഉത്തരമെഴുതുന്ന ചോദ്യം
19	8039	2	1	A	ചുരുക്കത്തിൽ ഉത്തരമെഴുതുന്ന ചോദ്യം
20	8040	2	1	A	ചുരുക്കത്തിൽ ഉത്തരമെഴുതുന്ന ചോദ്യം



## PUBLICATIONS

## Journal Publications

1. **Dr. D.Venkatavara Prasad, Dr.Srinivas Gumparti**, “Stock Price Prediction Using Statistical and Machine Learning Techniques”, NeuroQuantology, Vol 20, Issue:10, Scopus, IF: 0.442, doi: 10.14704/nq.2022.20.10.NQ551079 ,Page 11127-11139, 2022.
2. **Dr. S.V. Jansi Rani, and Nivedhitha .P**, “Multi-species Fish Identification using Hybrid Deepan with Refined Squeeze and Excitation Architecture”, Aquatic Sciences and Engineering, Vol:37, Issue: 4, Clarivate, IF: 0.21, Page:220-228, 2022.
3. **Dr. A.Chamundeswari, and Dakshinamoorthy Karthikeyan,**” Android X-Ray - A system for Malware Detection in Android apps using Dynamic Analysis”, WSEAS Transactions on Information Science and Applications, Volume 19, 2022, Page:264-271.
4. **Dr. S. Kavitha, and Sheerin Sitara Noor Mohamed** published a paper titled , “Improvisation of Dataset Efficiency in Visual Question Answering Domain”, Statistics and Applications Journal, Vol:20, Issue no:2, Clarivate.
5. **Dr. P. Mirunalini, Dr. S.M.Jaisakthi, Dr.Aravindan Chandrabose and Dr. Appavu Rajagopal** publish a paper titled, “Classification of skin cancer from dermoscopic images using deep neural network architectures”, Multimedia Tools and Applications, clarivate, IF:2.7, 2022 Oct 12; page no:1-16 (online). doi: 10.1007/s11042-022-13847-3
6. **Dr. B. Prabavathy, , Dr.Lekshmi Kalinathan, Sushaanth Srinivasan, Sharvesh Shankar and W Angeline Hilda**, “A Novel Generalized Handwritten Character Recognition Model using Few-Shot Learning”, Indian Journal of Natural Sciences, Vol: 13, issue.No:75, Clarivate, IF:1.988, Page: 50507- 50518.
7. **Dr. B. Prabavathy,, Lekshmi Kalinathan, Anu Lekshmi**, “An Improved Face Recognition Model for Image-based Attendance System”, Indian Journal of Natural Sciences, , Vol: 13, issue.No:75, Clarivate, IF:1.988, Page: 50307- 50316
8. **Dr. S. Angel Deborah, Mr. Ujjwel Balwal, Dr. Rajalakshmi S and Dr. Saritha M**, “Crop Quality Prediction using Image Processing”, Indian Journal of Natural Sciences, Vol: 13, issue.No:75, Clarivate, IF:1.988, Page: 51271- 51278.
9. **Dr. S.V. Jansi Rani,, Raghu Raman, V., & Rahul Ram, M**, “Multi object detection and classification in solid waste management using region proposal network and YOLO model, Global Nest Journal, , Vol: 24, issue.No:4, Clarivate, IF:1.475, Page: 743- 751.
10. **Dr. A.Chamundeswari,, Kapila K A G**, “Toward a unified and secure approach for extraction of forensic digital evidence from an IoT device”, International Journal of Information Security, Clarivate, 2.427, DOI:10.1007/s10207-022-00645-z, online.

11. **Dr. S.V. Jansi Rani**, “Plant Disease Detection using Transfer Learning in Precision Agriculture”, Ambient Science, Vol: 9, issue.No:3, Clarivate, IF: 0.02, Page No:34-39.
12. **Dr. S.V. Jansi Rani, Yamini L, Shivanni K, and Radha N**, “Blockchain based system for transfer of funds through an e-Governance application”, Romanian Journal of Information Technology and Automatic Control, Vol: 32 , issue.No:4, Clarivate, IF: 0.09, Page No:93-102
13. **Dr. K. Madheswari**, Smart Home Security System and Liveness Detection using Convolutional Neural Networks, Indian Journal of Natural Sciences, Vol: 13, issue.No:75, Clarivate, IF:1.988, Page: 51612- 51617.
14. **Ms. S. Lakshmi Priya and Dr. Suresh Jaganathan** have published a paper titled " Intelligent short term traffic forecasting using deep learning models with Bayesian contextual hyperband tuning" in Computational Intelligence, Vol.38, Issue.6,pp:2009-2034. DOI: 10.1111/coin.12554
15. **Bhuvana, J., Mirnalinee, T.T., Bharathi, B. and Sneha, I.**, published a paper titled “Efficient generative transfer learning framework for the detection of COVID-19” in *Computer Science and Information Systems*, 19(3), pp.1241-1259, 2022.
16. **Dr. V. Balasubramanian, Vignesh Balaji S, Supraja S, Sumon Kumar, Thejas N, Shruthi D,Shri Keshavinee R**, published a paper titled “Anti-Shoulder Surfing Graphical Password Authentication System”, in Indian Journal of Natural Sciences, 13(76),pp: 0976 – 0997, Feb 2023.
17. **Dr. S. Kavitha, G. Raghuraman, A. Kavithasri, S. Aishvarya, B. Janani** published a paper titled “Learning behaviour analysis of online course learners using EEG and facial expression data” Measurement: Sensors , Vol: 25, January 2023.
18. **Dr. S. Kavitha, Sheerin Sitara**, published a paper titled “Comprehensive Interpretation for Medical VQA: Datasets, Techniques, and Challenges” in Journal of Intelligent & Fuzzy Systems. Clarivate 1.737.
19. **Dr. S.V. Jansi Rani, Prabagarane Nagaradjane, Sai Charan, Sai Prakash, Niel Parekh, Iacovos Ioannou, Christophoros Christophorou, Vasos Vassiliou,Andreas Pitsillides**,”Detection of DDoS attacks in D2D communications using machine learning approach”, Computer Communications, Vol.No.198, Clarivate, IF: 5.021, Pageno.32-51
20. **Dr. K. Madheswari, Dr.S. Saraswathi S. Dr.Y.V. Lokeswari,Dr. K.K.Nagarajan, Aswatha S, Deepika R , Dharu Piraba M, Dhaneesh V.P**, “Smart air pollution monitoring system”, Global NEST Journal, Vol.No.25, issue no. 3, Clarivate,IF:1.12 , pageno.125-129.

## Conference Presentations / Publications

1. **Nishaanth R, Rahul Rajagopalan, Shajith Hameed, Dr.Rajalakshmi S, Ms. Angel Deborah S, and Dr. Mirnalinee T T**, published a paper titled "Fake News Detection in Low-Resource Languages", in International Workshop on Fake News Detection in Low-Resource Languages (Regional-Fake) on 24th November, 2022, as a part of Springer - SPELLL 2022 - 1st International Conference on Speech and Language Technologies for Low-resource Languages, 23 – 25 November 2022 at Sri Sivasubramaniya Nadar College of Engineering. The paper will be published in the Springer series: Communications in Computer and Information Science (CCIS). (Indexed in WoS, Scopus).
2. **Karthik Raja A, Anirudh A, Dr.J. Bhuvana , Dr.T.T Mirnalinee** presented a paper titled "A Novel Dataset for Fake News Detection in Tamil Regional Language" in International workshop on Fake News Detection in Low-Resource Languages(Regional-FAKE) on 24 November, part of Springer - SPELLL 2022 - 1st International Conference on Speech and Language Technologies for Low-resource Languages, during 23 – 25 November 2022. ). (Indexed in WoS, Scopus)
3. **Dr. D. Thenmozhi** presented a paper titled Paraphrase Detection for Indian Languages using Deep Learning Approach in SPELLL 2022 Conference on 25th November 2022. ). (Indexed in WoS, Scopus).
4. **Pooja Premnath, Sanjai Balajee Giridharan, Prahalad Rajagopal, Dr. Chamundeswari Arumugam, Dabhu Suman Reddy**, Presented a paper titled, A Time-Efficient Symmetric Key Encryption Technique for ECG Waveforms, in IFIP ICSDP 2022, 14-15 Dec 2022, SSNCE.
5. **S.K.Jayaraja, S.Manimegalai, R.Ravichandar, Dr. Chamundeswari Arumugam**, presented a paper titled, Secure File Storage & Sharing on Cloud Using the AES Encryption scheme for various Applications, in IFIP ICSDP 2022, 14-15 Dec 2022, SSNCE.
6. **S. Sriraman, S. S. Kannan, S. Ravishankar and B. Bharathi** published a paper titled "An On-device Federated Learning System for SMS Spam Classification," 2022 IEEE MIT Undergraduate Research Technology Conference (URTC), Cambridge, MA, USA, 2022, pp. 1-5, doi: 10.1109/URTC56832.2022.10002231.

## SCHOLAR INFORMATIONS

The following scholars are admitted during January 2023 Session at CSE Nodal Center under Anna University.

S. No.	Name of Ph.D. guide	Name of Ph.D. Researcher	Full time/ Part time
1	Dr. A. Chamundeswari	Mr. Desigan S	FT
		Mr. Santhosh S	PT
2	Dr.J. Bhuvana	Mr. Arun Kumar C	PT
		Mr. Lingappan R	PT
		Ms. Malarvizhi S	FT
		Mr. Arun G K	PT
3	Dr. R. Priyadharsini	Ms. Ashmi G V	FT
4	Dr. P. Mirunalini	Ms. Thenmozhi E	PT

1. **Dr. T.T. Mirnalinee** Convened PhD viva voce examination for Mrs. S. Angel Deborah, Assistant professor, CSE on 28th November 2022.
2. **Dr. R. Priyadharsini** conducted the first DC Meeting for her full-time research scholar, Ms. G. V Ashmi on 27.12.2022.
3. **Dr. Chamundeswari Arumugam** organized the first DC meeting for Ph.D research scholar, Mr. S. Desigan online on 31.12.22.
4. **Dr. J.Suresh** conducted the Synopsis Approval Meeting for part-time research scholar, Ms. S. Lakshmi Priya on 26.12.2022.
5. **Dr. B. Bharathi** conducted 4th DC meeting for her full time research scholar Suvidha Rupesh kumar on 05-01-2023
6. **Dr. B. Bharathi**, attended first DC meeting for the fulltime research scholar Ms. T. Kavitha at SSN College of Engineering on 30-12-2022
7. **Dr. Chamundeswari Arumugam** organized the first DC meeting for part time Ph.D research scholar, Mr. S. Santhosh online on 13.1.23.

8. **Dr. P. Mirunalini** Conducted the first DC meeting for her part time research scholar Ms. E.Thenmozhi on 11.01.23
9. **Dr. J. Bhuvana** has conducted the first DC meeting for Ms. Malarvizhi, full time scholar on, January 3rd, 2023
10. **Dr. J. Bhuvana** has conducted the first DC meeting for part time scholar Mr. GK. Arun on January 5th, 2023
11. **Dr. J. Bhuvana** has conducted the first DC meeting for part time scholar Mr. R. Lingappan on , January 6th, 2023
12. **Dr. J. Bhuvana** has conducted the first DC meeting for part time scholar Mr. C. Arun kumar on January 6th, 2023

## Reaching the milestone to step forward..



I successfully defended my thesis on “Multiple Kernel Gaussian Process for Emotion Analysis in Text” under the guidance of Dr. T. T. Mirnalinee, Professor and Head, Department of Computer Science and Engineering. The public Viva Voce Examination was conducted on 28.11.2022 in the Department of CSE through the MsTeams.

I wish to record my deep sense of gratitude and profound thanks to my research supervisor Dr. T.T.Mirnalinee, Professor and Head, Department of Computer Science and Engineering, for her guidance, constant encouragement throughout this research. I am extremely indebted to Dr. R.S. Milton who was working as Professor in the Department of Computer Science and Engineering for his valuable suggestions and continuous support during my research work. I am indeed grateful to my DC members Dr. H. Khanna Nehemiah, Professor, Anna University, Chennai, and Dr. S. Janakiraman, Assistant Professor, Department of Banking Technology, School of Management, Pondicherry University, Puducherry for providing their valuable suggestions during my research work.

Also, I thank my Indian Examiner, Dr. Surya Prakash, Associate Professor, Department of Computer Science and Engineering, IIT Indore and my Foreign Examiner Dr. Chung- Yi Li, Associate Professor, Department of Electronics Engineering, Chang Gung University, Taiwan for their valuable comments. I extend my thanks to Dr. Masilamani V, Associate Professor, Department of CSE, Indian Institute of Information Technology, Design & Manufacturing for his valuable suggestions.

I place my sincere thanks to Dr. Chitra Babu, Professor, Department of Computer Science and Engineering for her words of advice and encouragement. I am extremely thankful to the Principal, Dr. V. E. Annamalai and the management of SSN College of Engineering, Chennai for providing me with the necessary infrastructure to carry out my research.

It is a pleasure for me to express my heartfelt thanks to my husband, Mr. Victor and daughters Princess Adriel Julia and little Princess Edna Juliet for their understanding, prayer and constant support. With due respect, I thank my parents Mr.R. Suseelan Abraham and Mother Mrs. Rex Suseelan for lifting me up whenever I fell and for teaching me how to bounce back from failure. Also, with due respect, I am grateful to my parents-in-law Mr.R. Masilamani and Mrs. Saradha Masilamani for their moral and physical support. Without them it would not have been possible to balance my life during this tenure. I specially thank my aunt Mrs. Lucia Milton for her moral support. Also, I am thankful to my sisters and brother for their support and encouragement.

I am extremely thankful to my colleagues and friends for extending their help during the times of need. It won't be complete if I don't acknowledge my friends Raji mam, Beulah mam and Saritha mam who were with me in both mountaintops and valleys of my life. Above all, I thank the Almighty God for showering His endless blessings, wisdom, knowledge, and strength during this tenure. I hope that this milestone will help me to step forward in my future endeavors.

**Dr. S. Angel Deborah**

## FUNDED PROJECTS

1. **Dr. P. Mirunalini** along with **Dr. G. Satheesh Kumar Mech, Dr. S. Sakthivel Murugan ECE , Dr. Arun Ramaveerapathiran** EEE applied a project titled " Hybrid ROV with dexterous robotic manipulator for deep ocean, " for DOM with a budget of Rs. 57.98 Lakhs.
2. **Dr.S.V. Jansi Rani** along with **Dr.T.T.Mirnalinee, Dr.S.Radha, and Dr.G.Satheesh Kumar Gopal**, had submitted a project proposal on " Identification of Marine Biodiversity Hotspots in Unconstrained Deepsea Environment using Deep Learning Model" to Ministry of Earth Science under Deep Ocean Mission(DOM) on 30/12/2022 with a budget of Rs.62,57,190.
3. **Dr. S. Angel Deborah** along with **Dr. Padmanaban B, Former Principal Scientist, ICAR, New Delhi, Research Coordinator, Jamal Mohamed College, Trichy, Dr. S. Radha and Dr. R. Hemalatha**, submitted a proposal "Sustainable Management of Red Palm Weevil using IoT technology for the early detection of Red Palm Weevil and sustainable management of the pest by applying bio-formulation to trees via drones (a plant-derived material induce systemic resistance against all biotic stresses)" to QRDI "Early detection of Red Palm Weevil" innovation challenge, Ministry of Qatar, UAE. The total cost of the proposal is Rs. 80 Lakh.

## PAPERS REVIEWED

1. **Dr. D. Thenmozhi** reviewed papers for the 17th Conference of the European Chapter of the Association for Computational Linguistics (EACL 2023)
2. **Dr. R. Kanchana** acted as reviewer for the IFIP Scopus indexed 7th International Conference on Computer, Communication and Signal Processing organized by the department of IT, SSNCE and reviewed a research paper on 6th Nov 2022.
3. **Dr. S. Rajalakshmi** acted as the program committee member and reviewed one paper for first international conference on speech and language technologies for low-resource languages (spell 2022) and 3 papers for Workshop on Fake News Detection in Low-Resource Languages (Regional-Fake) which was conducted in 23-25 NOVEMBER 2022, at Sri Sivasubramaniya Nadar College of Engineering.
4. **Dr. S. Angel Deborah** acted as the program committee member and reviewed three papers for first international conference on speech and language technologies for low-resource languages (spell 2022) and 3 papers for Workshop on Fake News Detection in Low-Resource Languages (Regional-Fake) which was conducted in 23-25 NOVEMBER 2022, at Sri Sivasubramaniya Nadar College of Engineering.
5. **Dr. S. Angel Deborah** reviewed a paper for ICCSP 2021 organized by Department of IT, Sri Sivasubramaniya Nadar college of Engineering
6. **Dr. J. Suresh** reviewed a revised version of the paper for the Journal of Neural Computing and Applications (Springer) and IEEE Transactions on Artificial Intelligence.
7. **Dr. D.Venkatavara Prasad**, acted as reviewer in 3rd International Conference on Communication, Computing, and Industry 4.0 (C2I4) Organized by CMR Institute of Technology, Bengaluru, India on 15th -16th , December 2022.
8. **Dr. D.Venkatavara Prasad**, reviewed for international conference on security and data privacy (ICSDP-2022).
9. **Dr. B. Prabavathy** has reviewed the technical manuscript for CMES journal.
10. **Dr. A. Beulah** reviewed papers for Multimedia Tools and Applications and Circuits, Systems & Signal Processing (CSSP).
11. **Dr. V.S. Felix Enigo, Dr. B. Bharathi, Dr. B. Prabavathy, Dr.S.Saraswathi, Dr. J. Bhuvana, Dr. S.Rajalakshmi, Dr. M. Saritha, Dr. A. Beulah, Dr. S. Angel Deborah** reviewed the following papers for ICCIDS 2023.
12. **Dr. S. Angel Deborah** reviewed a paper for Environmental Science and Pollution Research, Springer.
13. **Dr. S.Rajalakshmi** reviewed a paper for KSII Transactions on Internet and Information Systems.

## EVENTS ORGANIZED

1. **Dr. R. Kanchana and Dr. K. Lekshmi** organized a guest lecture on “Universal Human Values in the AI World” by Dr. C. Sundarraman for the second year BE CSE students
2. **Dr. Chitra Babu** organized an invited talk by Dr. Viraj Kumar, Faculty member from the Indian institute of Science and Chair, ACM India Education Committee on "Disruptive Technology in the Introductory Programming Course" on the 6th December 2022. Dr. Timothy Gonsalves, Former Professor and Head from IIT Madras, Former director of IIT Mandi accompanied him to discuss the possibilities of SSN being a partner institute with CSEDU in offering a certificate program on "Computer Networks" in hybrid mode. They both met the HoD, CSE, Vice Principal and Principal regarding this.
3. **Dr.T.T.Mirnalinee , Dr.S.Rajalakshmi, Dr.K.R.Sarath Chandran and Dr. S.Angel Deborah** organized an interactive session with First year CSE students to discuss the details about Internally Funded Students Projects (2022-23) on 22-12-2022.

### Workshop on Embedded Software Development

The sixth edition of workshop on Embedded Software Development was conducted on the 7th and 8th of November 2022. The workshop was organized by Dr. K. R. Sarath Chandran, Dr. S.Rajalakshmi, Dr. S. Angel Deborah and Ms. S. Lakshmi Priya. The workshop was conducted in order to familiarize second-year students with the applications of hardware and software in designing real-world applications. A total of 40 students participated.

The sessions of the workshop were handled by Students were by Dr. K. R. Sarath Chandran and Dr. S. Angel Deborah. The students were asked to install the Arduino IDE prior to the workshop. The workshop kicked off with an introduction to the IDE, and with writing the very first program-the blinking of LED lights on an Arduino UNO, very much akin to the classic “Hello World!”. Participants extended this to set up blinking and fading lights, as well as incorporating a simple push button. They were also introduced to the analog input and output capabilities of an Arduino, using LDRs, and implementing buzzers. The participants even took it upon themselves to enhance their programming skills to play custom music of their choice using the buzzer. The first day of the workshop also included a session on the functioning of a DC motor, while controlling its speed and direction. The disadvantages of DC motors were also addressed, and it was discussed how Servo motors could be used instead.





The second day began with an introduction to input controls using a joystick mainly used in gaming in conjunction with an Arduino UNO. This gave a fresh idea into how the mere input of directional coordinates makes the gaming experience more interactive. Following this, participants experimented with an ultrasonic sensor and used it for proximity detection. Most real world applications involve on-site collection and updation of data using IoT sensors and microcontrollers. One such device that facilitates this is the NodeMCU. To demonstrate this, dynamically generated data was transmitted to a Firebase backend, and its status was monitored through an in-built LED. To conclude the forenoon session, the attendees were given a brief overview of the working of a Raspberry Pi, that featured the usage of an external display, for ease of access.

Furthermore, an application development session was conducted in the afternoon of Day 2 to test the understanding of the participants on what they had learned over the duration of the workshop. The

session was judged by Mr. Thiageswaran, Technical Architect, Hippo Videos, Chennai and Mr. Seshan, Senior Engineer, Qualcomm Private Ltd, Chennai, alumni of the CSE department. The session began with a short introduction of their projects in this domain. Mr. Thiageswaran and Mr. Seshan's work focussed on the application of embedded systems in their everyday lives, by automating home appliances. The work they presented was creative and innovative.

The participants were given a problem statement along with the necessary equipment and were asked to devise a solution. Some of the tasks included building an obstacle-avoiding device using Ultrasonic sensors, simulating water ripples and programming a snake game on an LED display. Plausible solutions were graded by the alumni at the end of the workshop. The top 3 teams were awarded a NodeMCU each, to explore the domain further. The workshop, giving hands-on experience to the second-year students, was a huge success, with the application development session culminating two fruitful days of learning.

**Pooja Premnath, II Year CSE**

## **Faculty Training Programme on Developing Microservices and Containerization**

The Faculty Training Programme on Developing Microservices and Containerization was organized by Dr. R. Kanchana and Dr. T. T. Mirnalinee during 3-4 Nov 2022 in physical mode. The workshop targets the faculty members, staff, research scholars of CSE department and faculty members from IT department. The resource person for the training program was Mr. V. Sasikumar, Senior Software Engineer, Walmart, Bangalore. There were totally 33 participants.

The FTP covered the following topics.

- Introduction to Microservices. Monolithic vs Microservices Architecture.
- Overview of various design patterns
- Developing a simple micro service with Java8 and Spring Boot
- DB migration using Flyway.
- Accessing and Manipulating data using Spring Data.
- Unit Testing with Junit5
- Introduction to Docker, Fundamentals.
- Docker commands.
- Orchestration using Docker Swarm.
- Dockerize Spring-Boot app.

The FTP had demos and hands-on in all the sessions. The participants were introduced to many emerging technologies.

## Faculty Training Programme On Quantum Computing

Dr. T. T Mirnalinee and Dr. D. Thenmozhi organized a faculty training programme on Quantum Computing on 20<sup>th</sup> December 2022 at the department of Computer Science and Engineering. Quantum computing is an emerging transformative technology that leverages the laws of quantum mechanics to solve problems which are too complex for classical computers. Today, real quantum hardware is available over the cloud and is constantly evolving qubit capacity day by day. These machines are totally different from classical computers, but widely expected to solve the complex problems that today's supercomputer cannot solve. Quantum computing can solve the complex problems in the industries especially, Space, Mining, Banking and Finance, Energy, Life Sciences and Manufacturing, etc. The objective of this program is to provide the faculty members and researchers the opportunity to learn the basics of quantum computing, and how it would be implemented in Microsoft Azure Platform through an educational demo. Mr. Easwara Prasad, technical consultant, Tata Consultancy Services delivered a talk with hands-on sessions in the FTP. He covered the topics namely Basic of Quantum, Industrial View of Quantum Computing, Quantum Computing Concepts & Algorithms, Azure Quantum Services – Workspace, Azure Quantum Inspired Algorithms (QIA) and Azure Q# (QSharp). A total of 20 participants attended the training among which 14 are faculty members and 6 research scholars from CSE, IT, ECE and Maths departments of SSN College of Engineering and Shiv Nadar University.



**Dr. D. Thenmozhi, Asso. Prof/ CSE**

## International conference on Speech and Language Technologies for Low-resource Languages (SPELLL - 2022)

First International conference on Speech and Language Technologies for Low-resource Languages (SPELLL - 2022) was conducted in the Department of CSE, SSN College of Engineering, during 23-25 November, 2022. It is an initiative of Tamil-NLP research group comprises members from different colleges and industries across globe. Dr. D. Thenmozhi and Dr. B. Bharathi, part of this research group organized the first edition of the conference in SSN.



The conference received original, unpublished technical papers in four tracks namely language and speech resources, language technologies, speech technologies and other related topics. Authors from academic institutes and industries submitted around 70 papers to this conference. After rigours review process, only 25 papers were accepted for publication.

Five keynote talks were delivered in the conference. Fairness and Ethics in ML was delivered by Dr. [Deepak Padmanabhan](#) of Queens University-Belfast, United Kingdom. Creation of Datasets for Training Language Models for Low-Resource Languages was delivered by Dr. [Dias P.G.V.](#) of University of Moratuwa, Sri Lanka. Ms. Kalikabali of Microsoft Research India gave a talk on Building Technology for Low Resource Languages: Lessons Learnt. Dr. Kevin Scannell of Saint Louis University, USA delivered a note on 20 Years a' Growing: The Past, Present, and Future of Irish NLP. Dr. Miguel Ángel García Cumbreras and Dr, Salud María Jiménez-Zafra of University of Jaén, Spain gave a talk on Corpus compilation for NLP shared tasks: the Spanish case. NLP tutorials were conducted as part of the conference. Dr. Paveen of NIT-Trichy gave a talk on Analyzing textual data through NLP techniques: theory and practices with Hands-on training. Dr. Subalalitha of SRMIST delivered a talk on Handling Multilingual text with Hands-on training.

57 participants from several institutes and industries of India and abroad participated in the conference and the tutorials. A total of 21 papers were presented in the conference in 3 tracks. Dr. Gihan Dias of University of Moratuwa, Dr. Chitra Babu, Dr. A. Chamundeswari, and Dr. R. Kanchana of SSN, Dr. S. V. Kokilavani of Kongu Engineering College, Dr. Nandhini Kumaresh of Central University of Tamil Nadu, Dr. Sangeetha Sivanesan of NIT-Trichy and Dr. Dhanalakshimi V of Pondicherry University served as session chairs for the paper presentation tracks. Two workshops namely Fake News Detection in Low-Resource Languages (Regional-Fake) and Low Resource Cross-Domain, Cross-Lingual and Cross-Modal Offensive Content Analysis (LC4) were also collocated with SPELLL 2022 conference. Proceedings of SPELLL conference papers and workshops papers will be published in Springer - CCIS (Communications in Computer and Information Science) series.

**Dr. D. Thenmozhi, Asso. Prof/ CSE**

## AI-Powered Analytics

Dr. Chitra Babu and Dr. V. Balasubramanian as Faculty in-charges of the SSN Coding Club organized a talk on "AI-powered analytics" by Dr. Tobias Zwingmann, Senior Data Scientist & Managing Partner, Co-Founder ROPYD.AI, Germany, in online mode on 20.12.22. Tobias Zwingmann has authored many books. The talk aimed to learn data science and analytics, and helps to build valuable business use cases.

The meet went on successfully with around 50 participants.

Video Link: [▶ Tobias Zwingmann Talk](#)

## Fake News Detection in Low-Resource Languages (Regional-Fake2022)

An International workshop on Fake News Detection in Low-Resource Languages (Regional-FAKE) was organized by Dr. T. T. Miranlinee, Dr. S. Rajalakshmi and Dr. S. Angel Deborah of department of CSE in collaboration with Kongu Engineering College, India, Luleå University of Technology, Sweden and Thomson Reuters, USA on 24<sup>th</sup> November 2022 as part of 1<sup>st</sup> International conference on Speech and Language Technologies for Low-resource Languages (SPELLL - 2022) conducted during 23-25 November, 2022.

The main theme of this workshop was to identify the fake news from the multimodal data in low resource languages (LRL). We invited researchers and practitioners to submit papers reporting on these issues and datasets to avoid these issues. We also encouraged qualitative studies related to these issues and how to avoid them. Regional-FAKE 2022 welcomed theoretical and practical paper submissions on any LR languages that contribute to research in identifying trust, fakeness and reliability. We particularly encouraged studies that address either practical application or improving resources.



The workshop had a paper presentation track and a keynote talk. The paper presentation session was chaired by **Dr. T. T. Mirnlinee, HoD CSE** and **Dr. György Kovács, Senior Lecturer, Luleå University of Technology, Luleå, Sweden**. **Dr. Jamal Abdul Nasir, Professor, National University of Ireland Galway, Ireland** gave a keynote talk on “How to Leverage a High-resource Language to Contribute to Fake News Detection in Low-resource Languages?”. The talk received an overwhelming response from the audience.

**Dr. S. Angel Deborah, AP/CSE**

## Outcome Based Education and Accreditation Process (OBEAP 2022)

The Department of CSE has conducted a 5-day FDP on Outcome Based Education and Accreditation Process (OBEAP 2022) from 12 to 16 December 2022, organized by Dr.T.T. Mirnalinee, Professor & Head, Department of CSE, Dr. R. Kanchana, Associate Professor, Dr. B. Bharathi, Associate Professor and Dr. J. Bhuvana, Associate Professor. 14 faculty members from various Engineering colleges across Tamil Nadu have participated in this FDP.

The first day of FDP has started with Outcome Based Education - Process flow handled by Dr. T. T. Mirnalinee, Professor & Head, Department of CSE, followed by Process for formulating Mission, Vision, PEOs, PSOs and their mappings and Teaching Learning pedagogies by Dr. R. Kanchana, Associate Professor, Department of CSE. The afternoon session was a Hands-on session on Writing PEOs and PSOs, Course Plan by Dr. R. Kanchana.



The second day of the FDP began with the session on Bloom's taxonomy and process for formulating Course Outcomes by Dr. Chitra Babu, Professor, Department of CSE. The second session was on Mapping of COs to POs using Core Competency and Performance Indicators by Dr.T.T. Mirnalinee and Dr. R. Kanchana. The afternoon Hands-on session was on Writing POs, Identifying PIs for COs, Mapping of COs to PO/PSOs by Dr. R. Kanchana and Dr. D. Thenmozhi Associate Professor, Department of CSE. The third day was on CO, PO/PSO attainment calculation and Gap analysis in CO/ PO/PSO attainments, which were handled by Dr. R. Kanchana followed by the Hands-on session on Preparing CO / PO/PSO attainment calculation worksheets and attainment calculation for a theory and lab course by Dr. R. Kanchana and Dr. P. Mirunalini Associate Professor, Department of CSE.



Fourth day of the FDP started with Indirect attainment calculation, Batch attainment calculation and Sample surveys (Course exit survey, Graduate exit survey, feedback from stakeholders, Rubrics) by Dr. R. Kanchana and Dr.T.T. Mirnalinee. The afternoon hands on session was on Preparing survey questionnaires and indirect attainment calculation handled by Dr. R. Kanchana and Dr. K. Madheshwari Associate Professor, Department of CSE.

On the last day of the FDP Dr. B. Bharathi, Associate Professor, Department of CSE handled a session on Project work assessment followed by SAR preparation and documents to be prepared by Dr.T.T. Mirnalinee. The last session was dedicated to Summary and feedback. The participants' involvement in the FDP was incredible and feedback given by them was welcoming.

**Dr. B. Bharathi, Associate Professor**

## **A Few Algorithmic Puzzles (and why you should care)**

Dr. Chitra Babu and Dr. V. Balasubramanian as Faculty in-charges of the SSN Coding Club organized a talk on "A Few Algorithmic Puzzles (and why you should care)" by Dr. Neeldhara Misra, Associate Professor from IIT Gandhinagar in online mode on 25th November 2022. Around 70 participants attended the talk.

Abstract: We will look at how solutions to problems that feel like puzzles can be relevant for making advances on real-world issues. I'll also briefly talk about competitive programming platforms and the right and wrong reasons - in my opinion :) - to get involved with them.

Video Link: [▶ A few algorithmic puzzles Talk By Prof Neeldhara 25 11 22](#)



## Programming in C with Data Structure perspective

Dr. S. V.Jansi Rani and Dr.T.T.Mirnalinee organized a crash course on "Programming in C with Data Structure perspective" for LatConnect students of second year CSE. The Course is part of the LatConnect program of the CSE department. The LatConnect program is the initiation towards strengthening the skills of lateral entry, rural, vocational course and 7.5 government quota students.

The Crash Course on “Programming in C with Data Structures” was designed for building C programming skills amongst the LatConnect students of B.E. Computer Science & Engineering undergraduates in the Computer Science & Engineering Department. The entire course structure primarily focuses on the C programming language from the basics. The classes were held from 21<sup>st</sup> of November 2022 to 9<sup>th</sup> of December 2022.

The crash course syllabus was planned in such a way that the students can gain every basic aspect that they need to know about the C programming language so that they can implement all the data structures without any difficulties. The classes were divided into 13 sessions covering different topics in each session. At each session students were taught and given hands-on experience to implement all the programs in the class. The sessions planned were interactive with continuous QA sessions with the students. At the end of each session, the students were also given homework problems to work on after the class.

Every session started with the discussion on the homework problems given and the solution to them. The solution to problems submitted by the student was evaluated and the mistakes were discussed with each student then and there individually in the next class.

The entire course material is available at,  
<https://github.com/nitheeshko3/C-Programming-Class>

### Student Feedback

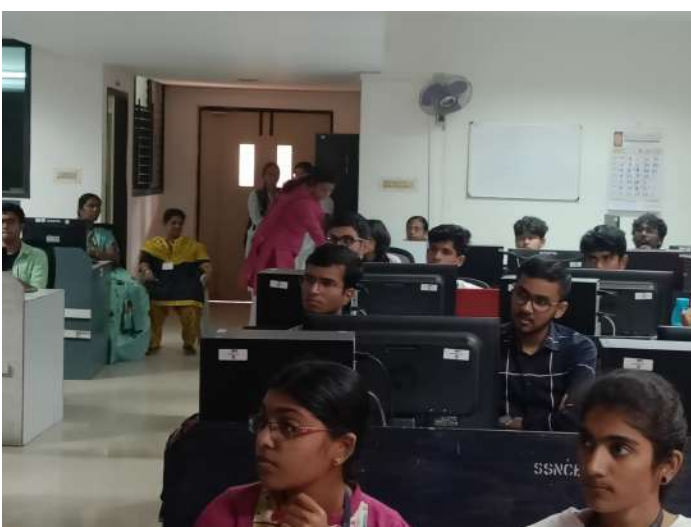
“I'm Nandini Sree R R (2nd year LE student - CSE 'B'). I'm writing this email to you in expression of my sincere gratitude towards the organization of special C - programming basics classes for the LE students of 2021-25 batch. I had no programming experience before, but was thrilled to participate in hackathons after learning to code. One of my classmates and I participated in the WOMEN 'N' CODE Hackerrank contest that was held on the 10th December 2022. I could solve half the problems comfortably but confidently using the concepts that we were taught in the special classes. The problem I solved taking 20 minutes was to write a program that gives output for an input integer as the largest number of consecutive '1's in its binary conversion. This gave me motivation and also confidence to compete with my class students without letting the academic lag demotivate. I sincerely thank you for your kind efforts for having brought us this crash course.”

It was a nice experience hosting such a training program for the LatConnect students. I am happy to note that many of them have improved their programming skills. I would like to thank my students Nitheesh Kumar & Nandakishor for their effort, willingness and involvement.

**Dr. S. V. Jansi Rani, LatConnect In charge / CSE**

## Text analysis and Information Extraction & Retrieval (TIER 2023)

The 7th edition of Text analysis and Information Extraction & Retrieval (TIER 2023) workshop was conducted by the Department of CSE & IT on January 4, 2023. TIER 2023 was organized by Dr.C.Aravindan, Dr.D.Thenmozhi, Dr.N.Sripriya, Dr.S.Rajalakshmi and Mr.B.Senthil Kumar. This is one of most happening series of NLP workshop organized by Machine Learning Research Group (MLRG) and this time it was co-located with the IFIP Event 04695 - ICCCS 2023 conference held during January 4-6, 2023.



In this edition, we have explored the power of Transformer models in sentence generation task. Thus, the theme of workshop was named as “Dialog Systems” with an inspiration of ChatGPT. We have 46 participants that include industry persons, research scholars and students who attended the workshop. Dr. Sangeetha from National Institute of Technology, Trichy delivered a talk on Dialogue systems: Current trends. Mr. Selvakumar of Saama Technologies delivered a talk on GPT architectures. Hands-on Training on sentence generation using GPT was given by Dr. D. Thenmozhi and Dr. N. Sripriya of SSNCE.

**Dr. D. Thenmozhi, Associate Professor**

## International Conference on Security and Data Privacy (ICS DP)

The Department of Computer Science and Engineering organized a two-day International Conference on Security and Data Privacy (ICS DP 2022) (Online) supported by IFIP Springer, on December 14 & 15 2022. The event was organized by Dr. A. Chamundeswari, Dr. Suresh J, Dr.S.Saraswathi, and Dr. V. Balasubramanian. The conference provided an opportunity for the researchers, engineers, developers and practitioners from academia and industry to discuss and address the experimental, theoretical work and methods in solving problems. The main conference theme was on data security and privacy.



Conference had five keynote talks on data security and privacy, the details of speakers are given below:

1. Dr. Anthony Wong, President, International Federation for Information Processing and Director, AGW LEGAL & ADVISORY, Australia.
2. Mr. Omar Seghrouchni, President, National Supervisory Commission for Protection of Personal Data, Morocco.
3. Mr. Navaneethan M, Senior Vice President, Groww, Bangalore
4. Dr. Jagadish Chundury, Senior Technical Leader, CISCO Systems India, Bangalore
5. Dr. Eslam Amer, Misr International University, Egypt, Postdoctoral Research Fellow at VSB - Technical University of Ostrava.

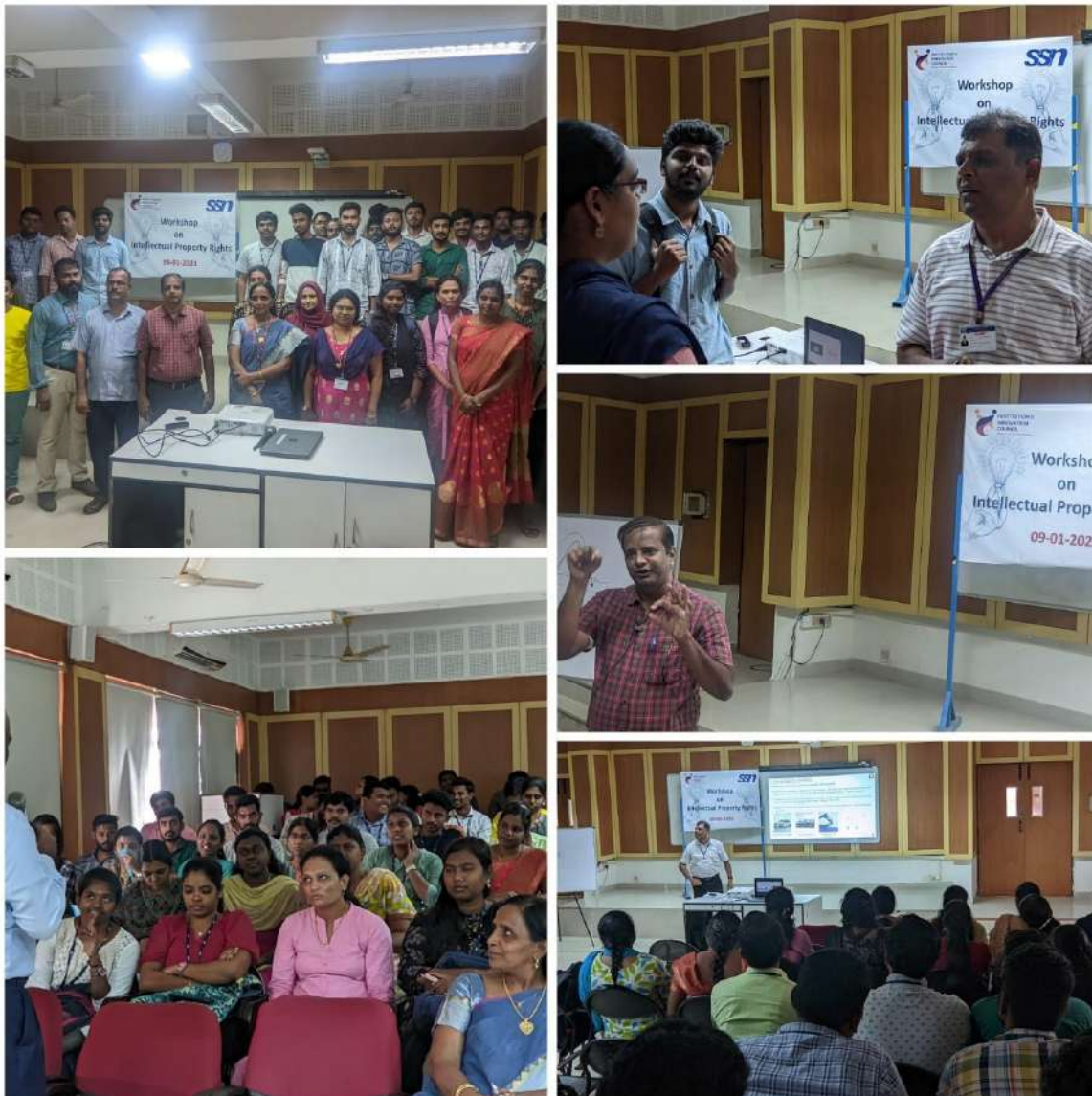
Apart from this Dr. Ulrich Furbach from Germany was present and acted as Session chair. Totally we received 23 papers, out of them 8 papers are shortlisted for presentation. Accepted papers are included in the Springer IFIP series publication (IFIP Event No.04683), which is Scopus indexed. Dr.Ulrich Furbach, Professor, University of Koblenz, Germany, Dr.Chitra Babu, Professor, SSNCE, Dr.Rajesh Khanna, Professor, VIT chennai, Dr. D Venkatavara Prasad, Professor, SSNCE, Dr.Gowri Ganesh, Associate Professor, Saveetha University, Chennai, Dr.Sanjeet, Associate Prof, IIITD&M, Kanchipuram, Chennai, Mr.Navaneethan, Senior Vice President, Groww, Bangalore, Dr. S. Senthilvelan, Professor, CMR Institute of Technology, Bangalore, Dr.Edna Elizabeth, Professor, SSNCE acted as session chairs for our conference.

**Dr. Suresh J., Associate Professor**

## Workshop On Intellectual Property Rights

The Department of Mechanical Engineering and Computer Science Departments organized a 1-Days “Workshop on Intellectual Property Rights” at our college premises on 9 Jan 2023, Monday.

The workshop was organized by Dr. T. T. Mirnalinee, Dr. M S Alphin, Dr. V Balasubramanian, and Dr. Micha Prem Kumar. The guest speakers, Dr. Kantha Babu, Professor, Department of Manufacturing Engineering, College of Engineering Guindy, Dr. Rajaram Ganesan, Head, R&D, Thejo Engineering Limited and Dr. JACK J KENNED, Assistant Professor, Department of Mechanical Engineering, National Institute of Technology Puducherry gave awareness on IPR. The topics on Patent, Design, Trademark, Copyright and Process of patenting”, Patent Rights, Licensing and transfer of Technology, Geographical Indices, new development in IPR, International Scenario, IPR of Computer software, Industrial Scenario were discussed by the speakers. There were 60 students and 5 faculty members participated in this event.



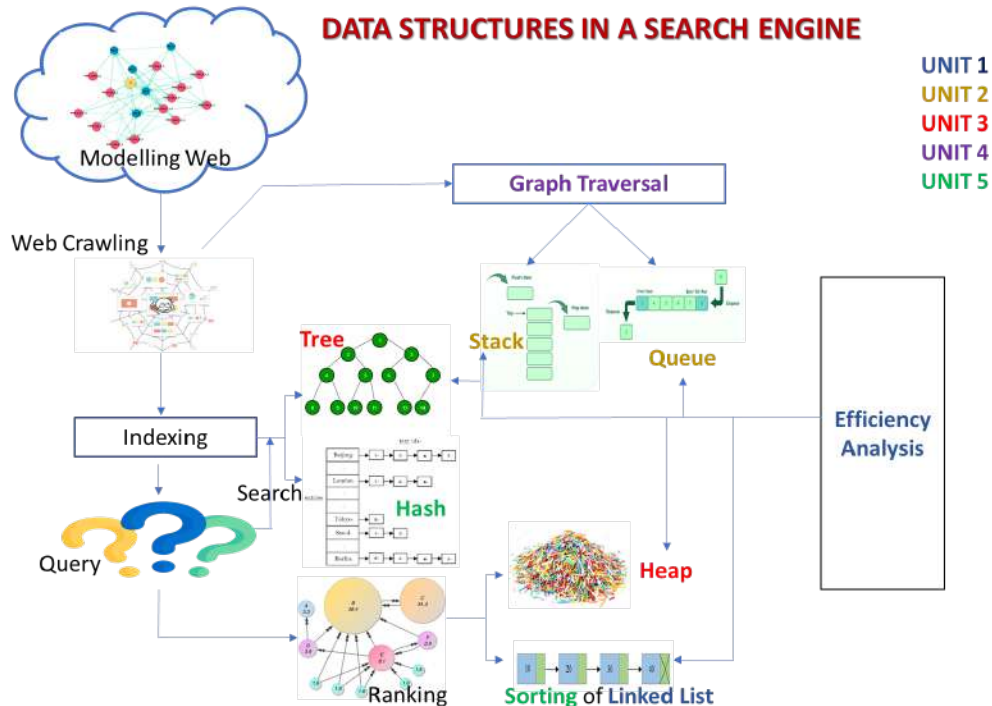
## SEMINAR / WORKSHOPS ATTENDED

1. **Dr. R. Kanchana** attended a webinar on Unlock New Levels of Innovation with VMware on 16th Nov 2022 organized by VMware Cross-Cloud™ services.
2. **Dr. T.T. Mirnalinee** attended a Webinar on Industry Expectations of Young Data Scientists 12th Nov 2022.
3. **Dr.K.Madheswari** attended a two-day Faculty Training Programme on Developing Microservices and Containerization during 3-4 Nov 2022 organized by department of CSE, SSNCE.
4. **Dr. V. Balasubramanian, Dr. R. Priyadharsini and Dr.D.Thenmozhi** attended a seminar titled “Learning how to learn”, by Dr. Ganesh Samudhra on 16.12.22 from 9.00 to 11.00a.m
5. **Dr.T.T.Mirnalinee, Dr.K.Madheswari, Dr.S.Rajalakshmi and Dr. A. Beulah**, attended a workshop on Teaching and Learning by Dr. Praveen Garimella at Central Seminar Hall on Dec 15th: 1.30-3.30.
6. **Dr. Chitra Babu** attended a 2-day workshop on "Algorithms under uncertainty" that was co-located with the 42nd IARCS Annual Conference on Fundamentals of Software Technology and Theoretical Computer Science(FSTTCS) at IITM Research Park on 16th and 17th December 2022.
7. **Dr. D. Thenmozhi** attended the GDC webinar organized by SSN iFound on 9th January 2023. Members of Gopalakrishnan-Deshpande Centre-IIT Madras delivered the talk at the webinar.
8. **Dr. B. Bharathi, Dr. J. Bhuvana** have attended one workshop on IOT for Smart System associated with 7th International Conference on Computer, Communication and Signal Processing 2023 (ICCCSP '23) conducted by Department of IT, SSN College of Engineering
9. **Dr. V. Balasubramanian** , Associate Professor has attended Online Webinar on “ChatGPT in Smart Learning” organized by Hamdan Bin Mohammed Smart University on 26.01.2023

### Active Learning in the Classroom and Course Design

Two day workshop on Active Learning in the Classroom and Course Design was conducted at SSN School of Advanced Career Education on 19 and 20 January 2023. Prof. Praveen Garimella, Director, Learning Platforms, Indian School of Business and Adjunct Research Fellow Carnegie Mellon University was the resource person. Dr. T.T. Mirnalinee, Dr. D. Thenmozhi, Dr. J. Bhuvana and Dr. S. Angel Deborah attended the workshop. The objectives of the workshop are : To understand the importance of active learning in the classroom, to identify ways in which students can be engaged in active learning during classroom sessions, and to use these strategies to redesign existing courses. The first day of the workshop started with Introduction to Active Learning Strategies followed by Designing Active Learning Activities. The speaker emphasized the significance of active learning by giving an activity to draw the Olympics logo. As the session progressed, the speaker conducted several polls and brought out the necessity of pre-test and post-test. He introduced the concept of backward

learning with the following steps such as setting the learning objectives, assessments and instructional activities. The speaker insisted on giving a big picture below about the course to highlight the need for the course using an application that covers the major topics of the course. He gave an overview about how to plan a 50 minute session on a topic with learning objectives, assessments and instructional activities. The learning objectives should be based on the ABCD acronym, where A stands for Audience, B for behavior, C for Condition and D for Degree. The instructional activities can include Socratic seminar, Fish bowl, Jigsaw, Gallery walk and case studies.



The participants were grouped into teams and were asked to design the big picture, and to prepare a plan for a 50 minute session on a topic from the third session of the first day until the afternoon of second day. We prepared the big picture for Data Structures course as in figure above and plan for a 50 minutes session along our teammates from our department, IT department and SNU-CSE department. The workshop ended with a presentation by each team followed by review and feedback.

**Dr. J. Bhuvana & Dr. S. Angel Deborah**

## INVITED LECTURES - INSIDE SSN

1. **Dr. D. Thenmozhi** delivered a talk on "Sentence generation using GPT-2 - Handson" in the 7th edition of TIER 2023 workshop collocated with IFIP ICCSP 2023 conference on 4th January 2023.
2. **Dr. J. Bhuvana** handled two sessions on Autoencoder on November 28 and 30, 2022 for post graduate certificate program in business analytics and data science students at SASE.
3. **Dr. V.S. Felix Enigo** served as a speaker for BIG grant awareness Talk conducted by SSN iFound in association with Venture Center, Pune on 19th Jan 2023.

## OTHER ACTIVITIES

1. **Dr. V. Balasubramanian** along with the Smart India Hackathon winning team Vignesh Balaji, Supraja, Sumon Kumar, Thejas, Shri Keshavinee, Shruti gave a presentation and demo to our Research Advisory Committee (RAC) members on 22.11.22 between 2.00PM to 5.00 PM and their work is appreciated.
2. **Dr. D. Thenmozhi** attended a Management Review meeting related to ISO surveillance audit on 1st November 2022.
3. Prof. Ganesh Samudra reviewed the EFP course, innovative teaching practices, and higher knowledge level assessments on 21st and 22nd in the department of CSE. **Dr. T.T. Mirnalinee, HoD coordinated the sessions. Dr. R. Kanchana, Dr. J. Suresh, Dr. D. Thenmozhi, Dr. B. Prabavathy, Dr. H. Shahul Hamead, and Dr. S. Kavitha** presented their courses and assessments.
4. **Dr. P. Mirunalini and Dr. M. Saritha** conducted special classes for first year students joined at SSN through 7.5 government quota and through vocational group
5. **Dr. S.Saraswathi, Dr. V. Balasubramanian** joined final year CSE students for tour from 19-11-2022 to 23-11-2022.
6. **Dr. T. T Mirnalinee, Dr. D. Thenmozhi, Dr. J. Bhuvana, Dr. R. Priyadarshini** submitted AQAR data to IQAC on 21st December 2022.
7. **Dr.T.T. Mirnalinee, Dr. R.Priyadharsini and Dr. S.Rajalakshmi** compiled the NIRF 2022 data of CSE department and submitted on 19/12/2022
8. **Dr. Chitra Babu** scrutinized the presentation of 24 student projects on the 23rd Jan 2023 along with the Head of the Department - Dr. T. T. Mirnalinee, that were submitted for possible internal funding.

## LEAN CANVAS COMPETITION



SSN iFound and SSN IIC conducted the lean canvas competition for our faculty ideas on 18.01.23, about 17 ideas were presented during the event which was judged by Four (4) jury members from the Chennai angels' network. Based on the various parameters they selected winners for their ideas and presentations.

**Dr. V. S. Felix Enigo's** project titled "AI-based solution to predict bone osteoporosis based on Chest X-Ray images" bagged the I prize.

## INVENTE 2K22

The seventh edition of the annual intercollegiate event, Invente, was held over two days on the 1<sup>st</sup> and 2<sup>nd</sup> of December, 2022. Invente is organized yearly with the goal of inculcating a spirit of competition, friendship and to help students discover their innate talent in various fields of computer science through challenging yet fun activities organized by the students. Participants from across the state came in person to attend a slew of events that ranged from technically intensive to relaxed and fun filled. Led by a strong and committed team, the organizers and volunteers ensured that no minute went wasted and made the tech fest a great success.

We would, first and foremost, like to express our sincere gratitude to our sponsors – CGVAK Software and Exports Ltd, Typesense, Digital Ocean, IEEECS, TMB and Sattva Logistics. This event has been made possible by their generosity, and we thank them for being a part of Invente 2k22. We would also like to thank Dr TT Mirnalinee, the Head of the Department, and Dr Sujaudeen, the faculty coordinator, for their support and guidance in planning and executing a tech fest of this magnitude flawlessly.

The flagship event of the Computer Science department, Codolympics, is a coding competition geared toward solving questions that are based on Data Structures and Algorithms. Participants enrol in teams of three and are pitted against each other in a competitive program contest that consists of two rounds. This year, Codolympics was conducted by fourth years Hariprasad, Anirudh and Joseph.

Next up, the Code Triathlon was conducted by Shreesh and Sahana from fourth year CSE B. Code triathlon is an innovative competition where participants are challenged with a number of real world scenarios and given the task to effectively and accurately solve them. The signature round of this competition is the TechXTempo, where the goal of the finalists is to formalise a scenario selected from a large list of real world scenarios, and formulate it into a suitable problem statement for which a proof of concept can be developed.

Hacker's Asylum is an exciting Capture the Flag style event where the focus is on uncovering and solving clues, keys, puzzles and other flags to solve the main riddle. Organized by Chalini, Dhivya, Swetha and Priyadarshini from fourth year, the overall theme of the event varies yearly, and it can be anything ranging from medical research to cryptography itself. Dev Heist is an event for developers to showcase their innovation and design skills. The event was organized by Shreya, Rohit, Keerthana and Subha from fourth year. The event is all about empowering creative, technically proficient and future business-savvy individuals. Next up, Data Whiz was conducted by Karthik Raja and Anirudh from fourth year CSE A. The event called for participants to showcase their data analytics skills, statistics knowledge and storytelling skills.





The premise of Mock Job Drive was to conduct an event that would simulate a real life job interview situation so as to provide participants an opportunity to take part in a mock interview process to understand and familiarize themselves with generic campus hiring events. The event was conducted by Namshika, Anza Prem and Roshan Adhithya from fourth year.

Game Night is the event to attend to cool off after all those technical events. Quirky and childish at heart, it is meant to get a good laugh from all those who attend, and dole out fun in large scoops. It was organized by Naren and Adarsh from fourth year.

Code with Comali was a fusion of competitive programming and web development. The organizers of the event were Moneish, Lokesh, Sanyog, Jayasooryan and Venkat Narayan from the fourth year. The contestants (Teams of 2) had to perform relay coding, find optimized solutions and replicate CSS designs. Paper Presentation is an event for participants to showcase their innovative ideas in the form of a Research Paper. The event was organized by Kiran, Ashiq and Deepanath from fourth year. Overall the technical extravaganza had a tremendous response this year.



# STUDENT ACHIEVEMENTS

## Placement

**Total Number of Students Placed so far: 113**

**Highest Pay package: Rs. 1,17,00,000 (Motorq)**

### Updates (Nov 22-Jan 23)

Company	Salary	Number of Students Placed
	Togai Rs.34,00,000	2
	Comcast Rs.8,25,000	4

### Internship Details

S.No	Name	Company	Stipend
1	Aasif Javid	Zebpay	40,000
2	Abhishek Narayan M	Informatica	30,000
3	Anandh Krushna SK	Chargebee Technologies PVT Ltd	60,000
4	Anirudh .T.E	Everstage Technologies Pvt Ltd	60,000
5	Aravind Kannan Rathinasabapathi	Togai	1,00,000
6	Aravindan.S	Mr.Cooper	
7	Guntumadugu Anil Kumar	COMCAST INDIA	25,000
8	Jayaraja S K	Mr.Cooper	

9	Jayasooran S	D.E SHAW INDIA	1,33,333
10	Jeet Grolecha .M	Avalara	40,000
11	Kirunraj C	COMCAST	25,000
12	Krupa Elizabeth Thannickal	Informatica	30,000
13	Mathanggi	McKinsey Global Services India PVT ltd	75,000
14	Niranjan.R	AT&T	45,356
15	Nithin S	Chargebee Technologies PVT Ltd	60,000
16	Padmesh.C	Avalara	40,000
17	Pradeep Y	Informatica	30,000
18	Prasanth A	Mr.Cooper	62,500
19	Raghavesh B	COMCAST INDIA	25,000
20	Sanmathi P	Informatica	30,000
21	Sanyog Kave P	Togai Technologies PVT Ltd	1,00,000
22	Shreya Sriram	KLA-Tencor	60,000
23	Srikanth.S	TEKION	30,000
24	Tushar Shah	McKinsey Global Services India PVT ltd	75,000
25	Venkat Narayan T R	Togai	1,00,000
26	Vignesh M.R	TEKION	30,000
27	M.Vignesh	Mr.Cooper	62,500
28	Yashwanth M	AT&T	45,356
29	Sushil Khadka	COMCAST	25,000
30	Chitraju Vishnusree	COMCAST	25,000
31	Nithish Bharathwaj.KR	Mr.Cooper	62,500

## Co Curricular Activities

### ICPC (inter collegiate programming contest) Asia west finals



A team from our department comprising **Anirudh TN, Joseph Amirtharaj of IV year and Avinash Kartik (Batch of 2022)** called Seirin, participated in the **ICPC (inter collegiate programming contest) Asia west finals**. The team is mentored by Dr.V.Balasubramanian ASP/CSE. This is a highly sought after and precious contest. A total of 20000+ teams participated across the whole of Asia west (India, Iran, Pakistan, Bangladesh etc) and only the best 60 (approx) teams made it to the Asia West finals. Out of this, only 30 teams were from India, and we were one of the few non-IIT colleges that were present in the contest. The 5 hour contest took place in Mathura on the 24th of December, 2022. The round preceding

and leading upto the Asia west finals were the regional rounds and only the top teams from the regionals qualified for the Asia finals. **Our team placed 11th among the hundred plus teams that qualified for our regionals and thus became eligible for the finals.**

### UNESCO-India-Africa (UIA) Hackathon



**Vignesh Balaji S** of III year CSE was shortlisted for **UNESCO-India-Africa (UIA) Hackathon** conducted by Ministry of Education's Innovation Cell (MIC) and the All India Council for Technical Education (AICTE). The UIA Hackathon was conducted from 22nd November 2022 to 25th November 2022 at Gautam Buddha University, Greater Noida.

### Paper Presentation in International Conference

1. Sanjai Balajee and Pooja Premnath, presented a paper titled "An Analysis of Air Traffic using Centrality Measures" at the International Scientific Research and Innovation Congress held at Diyarbakir, Turkey on the 26th and 27th of November 2022 (Moved To Special Achievements)
2. Pooja Premnath, Sanjai Balajee and Prahalad Rajagopal presented a paper titled, "A Time-Efficient Symmetric Key Encryption Technique for ECG Waveforms" at the International Conference on Security and Data Privacy (ICS DP) held at SSN College of Engineering on the 14th and 15th December 2022, and won the Best Paper Award. (Moved To Special Achievements)

## Workshops: Google (Women Engineers)

1. Charumathi P has participated in Google WE (Women Engineers) physical bootcamp organized by Google and Talent sprint at national level, IIIT Hyderabad during 17th December to 29th December, 2022. There were many workshops and sessions about modern languages, documentation tools and project management.
2. V. Sanjhay of 2nd year CSE has participated in SSN Build Club programme held from 29/11/22 to 30/11/22 organized by SSN college of engineering held at the SSN career development centre.
3. 40 students participated in two-day Embedded Software Development Workshop organized by the CSE Dept at SSN College of Engineering (07/11/2022 to 08/11/2022)
4. Vijai Aravindh.R , Priyaadharshini R Prahalad R., Pranaya P. have participated in the one day workshop on "IOT FOR SMART SYSTEMS " ,a part of ICCCS-2023 ,on January 4,2023 , conducted by the department of IT ,SSNCE.

## ACM

Anirudh TN and Joseph Immenual Amirtharaj of IV year CSE have participated in Asia Amritapuri Doublesite Regional Contest to be held at Amrita Vishwa Vidyapeetham - Amritapuri & Bengaluru.our team placed 11th across the region and received global recognition .event during 7.10.2022 and 8.10.2022 and secured 11th Place. (Moved To Special Achievements)

## Symposiums & Competitions

1. Karthik Vijayakumar of II year CSE A has organized the event "Marketize 2022" on 25.11.2022 conducted by SSN Lakshya - The E-cell of the SSN College of Engineering at Inter college level held at SSN College of Engineering, Chennai.
2. Aravind M A of II year CSE A has participated the event "Marketize 2022" on 25.11.2022 conducted by SSN Lakshya - The E-cell of the SSN College of Engineering at Inter college level held at SSN College of Engineering, Chennai
3. Udanthika B.V, Vijai Aravindh R, Priyaadharshini R, Rohit Ram, Raghul Yadav, Vaidhegi D, Prahalad R, Subhankar S, Soorya Thevar, Sushanth D of II nd year CSE have participated in the MARKETIZE event conducted by LAKSHYA club held on 25th november 2022 at SSN college of engineering.

## IEEE Student Chapter & IEE-CS

1. S. Subhankar participated in an IEEE event, "A Talk on Higher Studies" held at SSN College of Engineering on the 7th November 2022

2. S. Rohit Ram participated in the event Meraki conducted by the IEEE Student Branch at SSN College of Engineering on the 28th November 2022.

## Extra-Curricular Activities

### Sports Achievement



Sathvika. V. S of II-year CSE-B had participated in

1. Anna university zonal tournament held on 7.11.22 at SRM Valliammai college of engineering and secured runner up position.
2. Anna university election trials held on 9.11.22 to 10.11.22 at Rajalakshmi college of engineering and secured first position.
3. South zone inter university table tennis tournament held on 14.11.22 - 16.11.22 at Jain global school Bangalore and was selected as Quarter finalist.

### Music Competition

1. Pradeep G and Shashank Panda of 3rd year CSE were placed first in "Tarang, Eastern Band" hosted by IIT Madras's Saarang'23
2. Pradeep G of 4th year CSE and Hrithin Ramji of 3rd year CSE were placed first in the Music Event at Loyola's Libazaar'23



**Shashank Panda**



**Pradeep G**



**Hrithin Ramji**

## Intra-College Activities

### YRC

1. Vaidhegi D participated in an orientation programme for the Youth Red Cross held at SSN College of Engineering, on the 3rd December 2022

### Music Club

1. Udanthika B.V of IIyear CSE has participated in obtaining the carnatic music scholarship held during 29th November at SSN college of engineering.
2. Udanthika B.V of II year CSE has participated in the scholarship day by singing held on 12th December at SSN college of engineering.

## TEACH A SCHOOL PROGRAM

On November 10th 2022, the ACM Corporate Social Responsibility (CSR) team led by Dhivya Lakshmi, Shruti Prasanna and Chalini P from the SSN Student Chapter conducted a Teach-a-School program at Kumara Raja Muthiah Higher Secondary School. They were accompanied by other ACM volunteers. The team consisted of 10 other third and fourth years-Vaishnav Viju, Swetha R, Subha R, Keerthana S, Srivarsha Elangovan, Pravin Krishnan, Vaishali C, Rakesh JV, Mohammed Ashiq, Samyuktha Ganeshkumar.

A variety of skills, including logic and reasoning, public speaking and soft skills, science experiments and the Rubik's Cube were taught to the students . The classroom consisted of 56 enthusiastic 6th grade students. Classes began at 10:00 am and each skill was taught to a group of students for one hour, with skill lessons rotated on an hourly basis.

Topics like alphanumeric series,reasoning analogies,blood relations,direction reasoning,etc were taught in logic and reasoning and the students were given time to think through the answer for the question posted after which the correct answer was explained.

In public speaking and soft skills,the idea was to make the students more confident in facing a group of audience.So in order to make them more comfortable to the environment a stress buster activity was conducted in which the students were given a balloon each and were asked to stand in a line supporting the balloon against each other and were asked to move synchronously without dropping the balloon.This was seen as a reflection of their teamspirit. Afterwards, children were given a lesson on the importance of public speaking and were given tips and mock practice sessions.

Concepts related to photosynthesis,acidity and basicity were explained and the same were demonstrated using experiments like Litmus Test,Starch Test. Fundamentals of programming and programming essentials were taught in order to create an interest in the field of Computer Science. The basics of solving a Rubix cube was taught to the students and they were given a chance to try their

hands in solving the first layer. Guidance and resources were provided to students who wanted to learn further and develop their passion in solving the cube.



The students thoroughly enjoyed the event and were looking forward to more such events in the future. By the end of the day, the Headmaster of the school Dr. Baskaran expressed gratitude towards the team.

**Dhivya Lakshmi**

**IV Year CSE**



## TRIBUTE 2k23

On January 7 2023, a formal college alumni meetup was held at the SSN College of Engineering. The event was organized to bring together alumni from SSN to network, reminisce about their college days, and hear about the latest developments and initiatives at the college. The event was attended by alumni, representing various graduating classes from the past decades.



The event was opened by the President of the Alumni Association, who welcomed everyone and gave a brief overview of the purpose of the meetup. The President of the institution spoke about the latest initiatives and developments at the college, including new programs, facilities, and research initiatives. The keynote address was well-received, with many alumni expressing interest in the new initiatives and programs at the college. Attendees were encouraged to network and connect with other alumni. The networking session was a great opportunity for alumni to reconnect with old friends and make new connections. Refreshments were served during this time. A few alumni were recognized for their outstanding achievements and contributions to their communities. The recognition awards were a highlight of the event, with attendees showing great appreciation for the achievements of their fellow alumni.

Motta Maadi music was invited to perform for the alumni present. The performance was well received with the crowd interacting well with the band. The performance was a great success and made the evening pleasant and fun filled.

The event was closed by the President of the Alumni Association, who thanked everyone for their attendance and encouraged them to stay connected with the college. The college alumni meetup was a great success, with a great turnout and positive feedback from attendees. The event provided a valuable opportunity for alumni to connect with each other and stay informed about the latest developments at the college. The Alumni Association looks forward to hosting similar events in the future to foster a strong alumni community.

## **EDITORIAL TEAM**

### **FACULTY EDITORS**

**Dr. T. T. Mirnalinee**

Professor & Head/CSE

**Dr. A. Beulah**

AP/CSE

**Dr. S. Angel Deborah**

AP/CSE

### **STUDENT EDITORS**

**Adithya Muthukumar**

**Pooja Premnath**

II Year