



SARANATHAN COLLEGE OF ENGINEERING

Vision of the Department

To evolve as a centre of academic excellence and advanced research in Computer Science and Engineering discipline.

Mission of the Department

- To inculcate in students a profound understanding of fundamentals related to discipline.
- To inculcate skills, attitudes and their applications in solving real world problems with an inclination towards societal issues and research.
- To promote research in the emerging areas of computer science and technology

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Program Educational Objectives:

PEO1: Acquire strong foundation in the mathematical, scientific and engineering fundamentals necessary to formulate, solve and analyze engineering-problems.

PEO2: Develop the ability to analyze the requirements of the software, understand the technical specifications, design and provide novel engineering solutions and efficient software/hardware designs.

PEO3: Have exposure to emerging cutting edge technologies, adequate training & opportunities to work as teams on multidisciplinary projects with effective communication skills and leadership qualities.

PEO4: Have awareness on the life-long learning and prepare them for research development and consultancy.

PEO5: Have a successful career and work with values & social concern bridging the digital divide and meet the requirements of Indian and multinational companies.



Program Specific Outcomes

PSO1:Foundation of mathematical concepts: To use mathematical methodologies to crack problem using suitable mathematical analysis, data structure and suitable algorithm.

PSO2:Foundation of Computer System: the ability to interpret the fundamental concepts and methodology of computer systems. Students can understand the functionality of hardware and software aspects of computer systems.

PSO3:Foundations of Software development: the ability to grasp the software development lifecycle and methodologies of software systems. Possess competent skills and knowledge of software design process. Familiarity and practical proficiency with a broad area of programming concepts and provide new ideas and innovations towards research

INLUSTRO EVENTS:

Various events are being conducted through Inlustro to enrich the knowledge of second and third year students, which will enhance the students to grab more placement offers.

Sl. No	Date of Event	Name of the Event	No.of Students getting benefited
1	22.08.2021 to 6.01.2022	MERN(Mango DB, Express, React JS, Node JS)	183
2	22.08.2021 to 6.01.2022	Python Programming with IDLE	275
3	22.08.2021 to 6.01.2022	Data Science and Machine Learning (Python with Jupider Note Book)	176



Students Awarded in Symposiums / Other Events

- ✓ VigneshwaranN&SubinRaj of II year CSE has participated in Matheletes organized by SSN College of Engineering Kalavakkam on 25/3/2022 and have won III place.

Student's publication

- Veeraharish, VigneshN,Thiyagarajan has published a paper titled “ Automating Application Development by Processing user commands” at International Research Journal of Modernization in Engineering Technology and Science on March 2022.



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Grants & Funds Received

- Dr. Sahaaya Arul Mary, Professor&Head-CSE has submitted an equipment support grant entitled “**Students' Skill upgrade in AI, DL, and Data Science using Jetson Nano**” to **NVIDIA** under the **ACADEMIC HARDWARE GRANT PROGRAM**. Her proposal has been selected by **NVIDIA** and our college has received **20 Jetson Nano 2 GB Developer Kit as donation from NVIDIA**.
- Dr.S.Mohana has submitted a proposal titled “**An EMERGENCY RESCUER App**” and has received a fund of Rs7500 under TNSCST scheme.

Knowledge Enrichment through FDP

- Mr.S.Venkatasubramanian, Associate Professor has participated in “Inculcating Universal Human Values in Technical Education” conducted by All India Council for Technical Education (AICTE) from 28-02-2022 to 4-Mar-22
- Mr. K.S Chandrasekaran, Associate Professor has participated in “Inculcating Universal Human Values in Technical Education” conducted by All India Council for Technical Education (AICTE) from 28-02-2022 to 4-Mar-22
- Dr. N. Lakshmikanthan, Assistant Professor has participated in Intellectual Property Rights organized by IPR cell and Development of Management Studies, SKIT, Jaipur from 18.01.2022 to 22.01.2022
- Dr. N. Lakshmikanthan, Assistant Professor has participated in Emerging Trends and Advances in Computational Intelligence (ETACi-2022) organized by Dept. of Information Technology, BBAU BANARASI DAS, Lucknow from 02-02-2022 to 05-03-2022
- Dr. N. Lakshmikanthan, Assistant Professor has participated in Research Application in the field of Artificial Intelligence organized by Dept. of CSE, Swami Keshvanand Institute of Technology, Management and Gramothan, Japiur, from 04-01-2022 to 08-01-2022
- Dr. N. Lakshmikanthan, Assistant Professor has participated in National Intellectual Property Awareness Mission organized by Intellectual Property under NIPAM-SKIT, IPR, India on 24-01-2022
- Ms. J. Sathia parkavi, Assistant Professor has participated in Wireless Sensor Networks and IoT conducted by AICTE Training and Learning (ATAL) academy, Delhi Technological university, Delhi from 10-01-2022 to 14-01-2022



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- Ms. J. Sathia parkavi, Assistant Professor has participated in STTP on Writing and publishing of Quality Research Articles and Ethics of Research conducted by AICTE Training and Learning (ATAL) academy, Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur from 21-02-2022 to 25-02-2022
- Mr.P.B.Arun Prasad, Assistant Professor has participated in National Workshop on How to use Mendeley Reference Manager conducted by School of Social Sciences and Languages (SSL), VIT Chennai on 12-01-2022
- Mr. P. B. Arun Prasad, Assistant Professor has participated in Intellectual Property Rights organized by IPR cell and Development of Management Studies, SKIT, Jaipur from 18.01.2022 to 22.01.2022
- Mr. P. B. Arun Prasad, Assistant Professor has participated in National Intellectual Property Awareness Mission organized by Intellectual Property under NIPAM-SKIT, IPR, India on 24-01-2022
- Mr. P. B. Arun Prasad, Assistant Professor has participated in Advanced Signal Processing, Communication using AI and ML Techniques conducted by Department of ECE of GMR Institute of Technology, SRI SAI RAM Institute of Technology from 21-03-2022 to 25-03-2022
- Mr. P. B. Aravind Prasad, Assistant Professor has participated in Intellectual Property Rights organized by IPR cell and Development of Management Studies, SKIT, Jaipur from 18.01.2022 to 22.01.2022
- Ms. N. Ramya, Assistant Professor has participated in Introduction to Artificial Neural Network conducted by Dept. EEE, Christ The King Engineering college, Coimbatore on 08-02-2022



Publications in Reputed Journals & International Conferences

1. Dr.S.A.Sahaaya Arul Mary, has published a paper titled "Geographical Information System -Aided Landmark Recognition System using Machine Learning" in the proceedings of "5th International Conference on Computer Network and Inventive Communication Technologies" on 01 Apr 2022.
2. Dr.S.A.Sahaaya Arul Mary,has published a paper titled "Secure Instant Messaging Service Based on Authentication using data Encryption Algorithm" in the proceedings of "International virtual Conference on Computational Engineering" on 18 Apr 2022.
3. S. Venkatasubramanian, has published a paper titled"Correlation Distance Based Greedy Perimeter Stateless Routing Algorithm for Wireless Sensor Networks", International Journal of Advanced Networking and Applications, pp. 4962-4970, Vol. 13, Issue. 3, Dec 2021, ISSN: 0975-0290 DOI :10.35444/IJANA.2021.13303
4. S. Venkatasubramanian,has published a paper titled"Ambulatory Monitoring of Maternal and Fetal using Deep Convolution Generative Adversarial Network for Smart HealthCare IoT System", International Journal of Advanced Computer Science and Applications(IJACSA), Vol. 13, Issue. 1, JAN 2022, (SCOPUS and E-SCI (WoS))
5. S Venkatasubramanian, R Mohankumar,has published a paper titled"A Deep Convolutional Neural Network-Based Speech-to-Text Conversion for Multilingual Languages", Computational Vision and Bio-Inspired Computing, pp. 617-633, Vol. 1420, Issue. 1, MAR 2022, DOI : 10.1007/978-981-16-9573-5
6. S. VENKATASUBRAMANIAN,has published a paper titled "Cluster Head Selection based on Mapping-Based Cuttlefish Optimization Algorithm for Multipath Routing in Manet" in the proceedings of "5th International



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Conference on Computer Networks and Inventive Communication Technologies (ICCNCT 2022)", Online on Apr-22.

7. S. VENKATASUBRAMANIAN, has published a paper titled "Fruit-Fly Algorithm based Dynamic Source Routing Algorithm for energy-efficient multipath routing in MANET" in the proceedings of "2022 INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATION AND INFORMATICS" Organized by ICCCI 22 on 27-Jan-2022.
8. S.Venkatasubramanian, Dr.PL.RajaRajeswari, has published a paper titled "A Ring Toss game-based optimization-based Routing protocol for Optimal Path Selection in MANET" in the proceedings of "SECOND INTERNATIONAL CONFERENCE ON ARTIFICIAL INTELLIGENCE & SMART COMPUTING" Organized by ICAISC-2022 on 11-March-2022.
9. Dr.N.Laksmikanthan ,Dr.S.Mohana&Dr. R SenthamilSelvi,has published a paper titled "Anti Theft Detection and Antilocking System in Vehicles Using IOT." in the proceedings of "International virtual Conference on Computational Engineering" on 18 Apr 2022.
- 10.Dr.S.Mohana&Dr.RSenthamilSelvi,has published a paper titled "Secure Instant Messaging Service Based on Authentication using data Encryption Algorithm" in the proceedings of "International virtual Conference on Computational Engineering" on 18 Apr 2022.
- 11.Dr.RSenthamilSelvi, has published a paper titled "Application of Machine Learning in Healthcare: An Analysis" in the proceedings of "International Conference on Artificial Intelligence and Machine Learning (IAIM-2022)" on 2022.
- 12.Dr.RSenthamilSelvi,has published a paper titled "Virtual Learning" in the proceedings of "International Conference on Computer Science, Engineering and Applications (ICCSEA 2020)" on 2021. ISSN: 978-93-91535-01-8
- 13.Dr.S.Mohana,Dr.R.SenthamilSelvi&Dr.N.LakshmiKanthan, has published a paper titled "Geographical Information System -Aided Landmark Recognition System using Machine Learning" in the proceedings of "5th International Conference on Computer Network and Inventive Communication Technologies" on 01 Apr 2022.



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14. Dr. N. Lakshmi Kanthan, has published a paper titled "Comparative Study on Ontology Matching Tools and Methods" in the proceedings of "Machine Learning Applications in Applied Sciences and Mathematics - IVCMAASM 2022" Organized by Department of Artificial Intelligence and Data Science, Easwari Engineering College on 30-31 Mar 2022.
15. P. DINESHKUMAR, has published a paper titled "Comparative Study on Ontology Matching Tools and Methods" in the proceedings of "Machine Learning Applications in Applied Sciences and Mathematics - IVCMAASM 2022" Organized by Department of Artificial Intelligence and Data Science, Easwari Engineering College on 30-31 Mar 2022.
16. Vidivelli S & Sathiya Devi S, has published a paper titled "Micro Calcification detection using Ensemble approach" in the proceedings of "2nd International Conference on Information Technology" Organized by Lecturer Notes in Electrical Engineering on 4 Mar 2022. (Scopus Indexed)

FACULTY – STUDENT EDITORIAL TEAM

FACULTY IN-CHARGE

EDITORIAL DIRECTOR

1. Dr. S.A. Sahaaya Arul Mary, HoD / CSE

EDITOR IN CHIEF

1. Ms. J. Sathia Parkavi, Assistant Professor / CSE
2. Ms. E. Sapna Rani, Assistant Professor / CSE



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STUDENT REPRESENTATIVE

CONTENT COLLECTION TEAM

1. Ms. C.Moshmi (211055), IV CSE A
2. Mr. S AswinVisveswar (221016), III CSE A

SCRUTINY TEAM

1. Mr. B.Giridhar (211023), IV CSE A
2. Ms.S.Ragsudha (221071), III CSE B

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