KPR Institute of Engineering and Technology

Learn Beyond

(Autonomous, NAAC "A")

Department of Computer Science and Engineering

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FUTURISTIX

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ABOUT THE DEPARTMENT

The Computer Science and Engineering (CSE) department began in 2010 with 60 students in its undergraduate program. By that same year, we expanded to accommodate 240 students. In 2014, we introduced a Master's program in CSE, starting with 18 students. Our department is also a recognized research center under Anna University, supporting over 50 research scholars in various fields. Currently, we serve over 900 students across undergraduate, postgraduate, and Ph.D. programs.

In just ten years, our department has achieved many milestones. We now have 50 faculty members, each an expert in different areas of computer science. Half of them have Ph.D. degrees, and many others are working towards them. We're proud that three faculty members have completed postdoctoral fellowships at international universities. Our faculty contribute through publications in journals, research articles, and conference presentations.

VISION OF THE DEPARTMENT

To be a premier centre for education, dissemination of knowledge and research in the frontier areas of computer science and engineering to serve the community with moral values.

MISSION OF THE DEPARTMENT

- **Provide holistic education incorporating the state-of-the-art technologies to produce successful professionals.**
- **Facilitate the students to pursue higher education and research in the areas related to Computer Science and Engineering.**
- **Promote strong collaborations with the industries and steer the students to nurture their interest in continuous learning to meet the changing needs of the society.**

LEADING WITH VISION

Welcoming Our New HOD

We are pleased to extend a warm welcome to our new Head of Department. We look forward to working under your leadership and guidance as our department continues to grow in academic excellence, research, and student development.

We believe your experience, knowledge, and vision will contribute significantly to strengthening our department and guiding us towards new achievements. Your leadership will play an important role in fostering teamwork, innovation, and a positive academic environment for both faculty and students.

We are confident that under your guidance, the department will reach greater heights and achieve many milestones in academics, research, and professional development.

We once again welcome you to the department and look forward to the continued growth and success of the department under your leadership.



Dr. MIRUNA JOE AMALI S

Professor & Head

FACULTY ACHIEVEMENTS

Faculty Publications

Sr.No.	TITLE OF PAPER	AUTHORS	MONTH	INDEXING SCOPUS/SCI /Conference Publication
1	A Federated Learning–Enabled Secure and Scalable SDN Framework for Energy-Efficient VANETs	S. Sathishkumar, S. Keerthi, **R. Devi Priya**, Sivanantham S	19 January 2026	SCI
2	Groundwater quality appraisal and geospatial mapping in Tiruvallur district, Tamil Nadu, India: insights from water quality index evaluation	Bharath Singh Jebaraj, S Sushmitha, **K Vivekrabinson** & R Arun Prathap	12 February 2026	SCIE
3	LEAF: A LabVIEW-Enabled Analysis Framework for Digital Crack Quantification in Glass Fiber-Reinforced Concrete	M. Kalai Selvi, **R. Manjula Devi**, S. Anandaraj	16-Feb-2026	SCI

Sr.No.	TITLE OF PAPER	AUTHORS	MONTH	INDEXING SCOPUS/SCI /Conference Publication
4	Blood Clot Classification in Ischemic Stroke Patients using ESAFH-Net with Explainable AI	G. Kanagaraj, **S. Rajeshkumar, Vivekrabinson K** & Bharath Singh J	24-Feb-2026	SCIE
5	An Effective Image Contrast Stretching Enhancement Using Novel Snow Geese Knowledge-Based Differential Evolution Algorithm	**B. Vishnupriya** & B. Vinoth Kumar	01-Mar-2026	SCIE
6	Realistic scenario-based trajectory control, path planning, and collision avoidance for autonomous vehicles	**K.B. Sri Sathya S. Manoj Kumar**	15-Mar-2026	SCI

CONSULTANCY WORKS

S.No	Name of the Faculty	Name of the Company	Title of the consultancy work	Fund received in Rs	Date
1	Vishnu kumar kaliappan	Galaxy Civil Solutions	Research and Development of AI Crawlers, Ranking Engine, Architecture Design, and Auto Response Systems for the Top Tanking university	1,55,632	15-11-2025 to 15-03-2026

FACULTY CONFERENCE DETAILS

S.No	Title of the paper	Name of the Authors & Affiliation as per the order in paper	Conference Date	Indexed In Scopus/ WoS	Month of Publication
1	A Lightweight Cyber Security Model for Vehicle-To-Vehicle and In-Vehicle Communication in Intelligent Transportation System	Dhivya Rathinasamy, Sivaramakrishnan Rajendar **Vishnu Kumar Kaliappan**	Jan 2026	Scopus	Nov 2026
2	Deep Learning and Explainable AI for Knee Osteoarthritis Diagnosis: A Comprehensive Review of Multitask Models, Fairness, and Diagnostic Interpretability	Naveen V, Manivannan E, **Munirathinam T**; Velusamy A; Prabhu R; Vasudevan	March 2026	Scopus	-
3	AI Based Pattern Detection for Fighter's Aircraft	P. Jayadharshini; C. Vasuki; S. Santhiya; S. Fowjiya; A. Nithyasri; **K. B. Sri Sathya**	January 2026	Scopus	-
4	Rekyl: A Blockchain-Based Smart Recycling Management Platform	Benitha Christinal.J, M.Niranjani, **Sivaranjani.S,** R.Chennappan, Satheesh.K, Poongothai P	Dec 2025	Scopus	Feb 2026

S.No	Title of the paper	Name of the Authors & Affiliation as per the order in paper	Conference Date	Indexed In Scopus/ WoS	Month of Publication
5	Vision Transformers-Enabled Weed Detection System for Precision Farming Efficiency	D. A. Shahakar; P. Subhashini; **Mohan M**; Ramya. D; S. Bathrinath; Rajendiran M	Feb 2026	Scopus	-
6	RADAR: A Hybrid Model for Adaptive Intrusion Detection and Risk Analysis in Dynamic Networks	Sharli Iris John Baskar, **K Mouthami**, S Devatharshini, N Subasri	March 2026	Scopus	-
7	AI - Driven Urban Waste Reporting and Tracking Platform Using Deep Learning	S.Fizur Rahman **Kandasamy Sellamuthu**, R.Ajith, P.Dineshkumar, S.Pavithra	March 2026	Scopus	-
8	Machine Learning Approaches for DDOS Attack Detection and Prevention: A Comprehensive Analysis	S.Pavithra **Kandasamy Sellamuthu**, P.Dineshkumar, P.B.Jagadesh	March 2026	Scopus	-

S.No	Title of the paper	Name of the Authors & Affiliation as per the order in paper	Conference Date	Indexed In Scopus/ WoS	Month of Publication
9	Design and Simulation of Novel Miniaturized High Efficiency Inverted C Shaped Fractal Antenna (ICFA) For 5g Millimetere Wave KA Band Application	S. Divya; J. Silamboli; **M. Mohan**; Pravin Balu B; S Dhivya	March 2026	Scopus	-
10	Intelligent Whatsapp Chatbot for E Commerce and Learning Support	Asmitha Sa; Avinarasi S; Sabiksha K L; **T. Primya**; G. Kanagaraj	January 2026	Scopus	-
11	A Parallel Hybrid Learning Framework for Detecting Fraud in UPI Transactions	**C.Sasikala** , P savitha ,V K Poornima ,Kritthanya J,Sowmiya B,Thrivesh S	February 2026	Scopus	-
12	A Hybrid Deep Learning approach for Multi Label Emotion Recognition in mental health text using Roberta and GTE Embeddings	**Sri Sathya K B;** Mani Bharathi R; Kavin P; Praveen Kumar K	March 2026	Scopus	-

S.No	Title of the paper	Name of the Authors & Affiliation as per the order in paper	Conference Date	Indexed In Scopus/ WoS	Month of Publication
13	Integrated Multi- Modal Deep Learning Framework for Accurate Disease Diagnosis	Aryan Kushwa, Aryan Sah Gupta, **Sri Sathya K B**, Fowjiya S	March 2026	Scopus	-
14	A Multi-Source Data-Driven Hybrid Model for Predicting Crop Yield under Varying Climatic Conditions	**Premkumar Duraisamy;** Sriharani R; Harishh D V; Jones Martin J	January 2026	Scopus	-
15	Intelligent Hybrid Deep Learning Framework for Accurate Energy Consumption Forecasting in IoT-Enabled Homes	**Premkumar Duraisamy;** Deshvanth S; Sanjay M; Gowtham P	January 2026	Scopus	-
16	A Multimodal Deep Learning Framework for Early Detection of Mental Health Conditions from Social Media	**Premkumar Duraisamy;** Haneefdeen S; Lakshana SJ; Sadhana K	January 2026	Scopus	

PUBLICATION IN BOOK CHAPTER

S.No	Title of the paper	Name of the Authors & Affiliation as per the order in paper	Month & Year of Publication	Indexed In Scopus/ WoS
1	Differentiation Between Parkinson's Disease and Other Forms of Parkinsonism Using Support Vector Machine	**Nisha Soms**, David Samuel Azariya, S. Oswalt Manoj, Savitha S J	5 February 2026	Yes
2	Deep Learning From Foundations to Frontiers	S. Jansirani, M. Saravanan , and **Vishnu Kumar Kaliappan**	Feb.2026	Yes
3	Intelligent Transportation Systems in Cyclone-Prone Areas	**S. K. Geetha, J. K. Kiruthika**, S. Sathya, K. B. Srisathya, Rajasekaran Thangaraj, R. Devi Priya	Jan 2026	Yes
4	DQN-Spectral: Reinforcement Learning Guided Spectral Clustering for Customer Segmentation for Marketing	S Devatharshini, **K Mouthami,** Sharli Iris John Baskar, N Subasri	Jan 2026	Yes

GATHERINGS THAT INSPIRE!

Our Events Organized

ACTIVITIES OF DEPARTMENT OF ATOMIC ENERGY & CAREER OPPORTUNITIES

Summary: **21.01.2026**

The resource persons, Dr. NPI Das and Dr. Shailesh, Scientific Officers (F) from IGCAR, Kalpakkam, provided valuable insights into the roles, research activities, and career pathways within the Department of Atomic Energy. The session enhanced students' awareness of radiation dosimetry, research culture, and government career prospects. Students actively participated in discussions and clarified queries related to eligibility, recruitment, and growth opportunities. Overall, the event was informative, engaging, and highly beneficial for students' career planning.

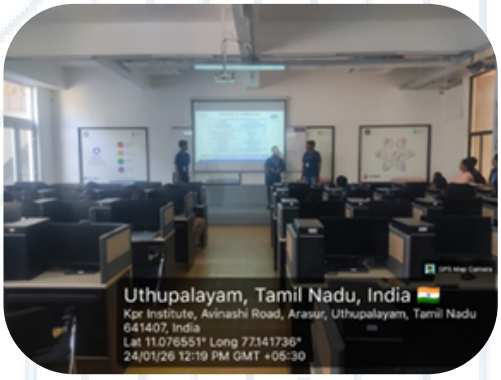




WORLD EDUCATION DAY COLLAQUIUM -ENGINEERING FAILIURE AND LESSIONS INAI AND SMART SYSTEMS

Summary: **24.01.2026**

The colloquium provided students with insights into recent engineering failures in Artificial Intelligence and smart systems. Through case study presentations and discussions, participants analyzed the causes of these failures and explored practical remedial strategies. The session helped improve students' critical thinking, problem-solving skills, and understanding of real-world engineering challenges.



COGNITIVE AUTOMATION FOR INDUSTRIAL APPLICATIONS

Summary: **10.02.2026 - 14.02.2026**

The Cognitive Automation for Industrial Application one-credit course successfully enhanced participants' understanding of intelligent automation in real-world industrial environments. Students gained practical knowledge of AI-driven decision systems, machine learning integration, robotic process automation, and data-driven optimization techniques. The event strengthened their ability to analyze industrial problems and design smart automation solutions that improve efficiency, quality, and productivity. Participants also developed hands-on skills through case studies and tool demonstrations, enabling them to bridge the gap between academic concepts and industrial requirements. Overall, the course empowered learners with industry-relevant competencies, preparing them for emerging roles in smart manufacturing and Industry 4.0 environments.





POWER BI MASTERY- DATA TO DECISIONS

Summary: **16.02.2026**

Participants gained hands-on experience in creating interactive dashboards using Power BI and learned to transform raw data into meaningful insights for effective decision-making. The session also covered best practices in data visualization, KPI tracking, and performance analysis, enhancing students' analytical skills for careers in business intelligence.

The event was successfully organized with the support of the student coordinator, Ms. Samyuktha S S, who assisted in planning, communication, and coordination. With active collaboration between faculty and the coordinator, the session was conducted smoothly, ensuring effective participation and learning.





REFLUX RUSH

Summary: **21.02.2026**

The Reflux Rush event enhanced students' technical knowledge and problem-solving skills through competitive rounds. It improved participants' communication and teamwork abilities during group activities. The event encouraged active learning by combining both technical and non-technical challenges. External participants gained exposure to our department and interacted with CSE students. It boosted students' confidence, coordination, and time management skills. Overall, the event created an engaging platform for learning, collaboration, and healthy competition.





AI AND INNOVATION SPRINTS: RAPID PROTOTYPING FOR DIGITAL TRANSFORMATIONS

Summary: **27.02.2026**

The Department of Computer Science and Engineering, in association with Centre for Innovation Incubation and Entrepreneurship Development (CIIED), organized an expert session titled "AI and Innovation Sprints: Rapid Prototyping for Digital Transformations" for undergraduate students. The session aimed to introduce AI-driven innovation practices, rapid prototyping approaches, and their role in enabling digital transformation across industries.

The resource person highlighted how artificial intelligence is reshaping digital products and services and explained how structured innovation sprints can compress the idea-to-prototype cycle using modern tools and agile practices

The program began with a formal welcome address and introduction of the resource person, followed by an overview of the objectives of the workshop by Dr.Nisha Soms. The experts then delivered an interactive talk on innovation sprints, AI use cases, and rapid prototyping





2ND INTERNATIONAL CONFERENCE ON MULTIDISCIPLINARY BREAKTHROUGHS AND NEXTGEN TECHNOLOGIES

Summary: **12.03.2026 - 13.03.2026**

The 2nd International Conference on Multidisciplinary Breakthroughs and NextGen Technologies (ICMBNT 2026) was successfully conducted on 12–13 March 2026 in Bali, Indonesia, bringing together researchers, academicians, and industry experts from diverse disciplines to share innovative ideas and discuss emerging technological advancements. The conference was jointly organized by the Society for Cyber Intelligent Systems (SCIS) and ISIUS, in collaboration with Udayana University, Department of CSE KPR Institute of Engineering and Technology, Universitas Pelita Bangsa, and SRM University, with the objective of promoting interdisciplinary research and global academic collaboration. The inaugural ceremony was graced by distinguished dignitaries including the Rector of Udayana University, the Dean of the Faculty of Mathematics and IT, the Principal of KPR Institute of Engineering and Technology, and the President of SCIS. The conference featured around 70 international research paper presentations across various technical tracks, providing a vibrant platform for scholars and practitioners to exchange knowledge, present research findings, and initiate future collaborations between participating institutions and researchers worldwide.





CHEERS TO SUCCESS

Congrats to our Placed Stars!

S.No	Student Name	Company Name
1	CHARAN B	Cognizant
2	NAVEENASRI T	Cognizant
3	AMUTHINI P	Capgemini
4	DEEGSHIKA M	Cognizant
5	DEEGSHIKA M	Capgemini
6	AKALYA M S	Cognizant
7	RAVINDRAN LOGASANJEEV	Cognizant
8	MEHA SRI A	Cognizant
9	PAVITHRA D	Cognizant
10	PAVITHRA D	Capgemini
11	POOJA V	Cognizant

S.No	Student Name	Company Name
12	POOJA V	Capgemini
13	RAVIVARMAN B	Cognizant
14	KEERTHANA P G	Capgemini
15	RAJAMARI R	Cognizant
16	DIVYA V	Capgemini
17	DIVYA V	Ebixcash
18	NANDHINI S	Capgemini
19	NANDHINI S	Cognizant
20	DEVATHARANI G S	Capgemini
21	DEVATHARANI G S	Cognizant
22	MANASAVARSHINI G D	Capgemini
23	MANASAVARSHINI G D	Cognizant

S.No	Student Name	Company Name
24	GUHAN M	Cognizant
25	PRIYANKA B	Cognizant
26	PRIYANKA B	Capgemini
27	AASHISH BISHOKARMA	Cognizant
28	NIVETHA N	Capgemini
29	GANGUMALLA TEJESHWAR RAO	Cognizant
30	ARULPRATHAKSHINI SHREE S B	Capgemini
31	ARULPRATHAKSHINI SHREE S B	Ebixcash
32	ARULPRATHAKSHINI SHREE S B	Cognizant
33	ASHWIGA BR	Capgemini
34	ASHWIGA BR	Cognizant
35	KISHON P	Ebixcash

S.No	Student Name	Company Name
36	PRAJITHA.R	Capgemini
37	PRAKADEESREE S	Cognizant
38	HARITHA V S	Capgemini
39	HARITHA V S	Cognizant
40	KEERTHANA U S	Capgemini
41	KEERTHANA U S	Cognizant
42	MOHANRAJ V	Cognizant
43	NEHA CHANDRAN	Cognizant
44	NIVAS S	Cognizant
45	PIRTHIKA S	Cognizant
46	DEEPSHIKA P	Cognizant
47	KARTHIGA S	Cognizant

S.No	Student Name	Company Name
48	KRISHNIKA K	Aptean
49	SUFIYAN A	EPAM

STUDENT EXCELLENCE BEYOND THE NORM

Mr. Dinakar (II CS) won First Prize with a cash award of ₹5000 in the Youth Parliament Event organized by PSG Institute of Management, PSG College of Technology, Coimbatore.



Mr. V. Aadhithya and Mr. D. Elantamilkumaran (II CS) won Third Prize in the Code Twins event organized by Karpagam Institute of Technology.

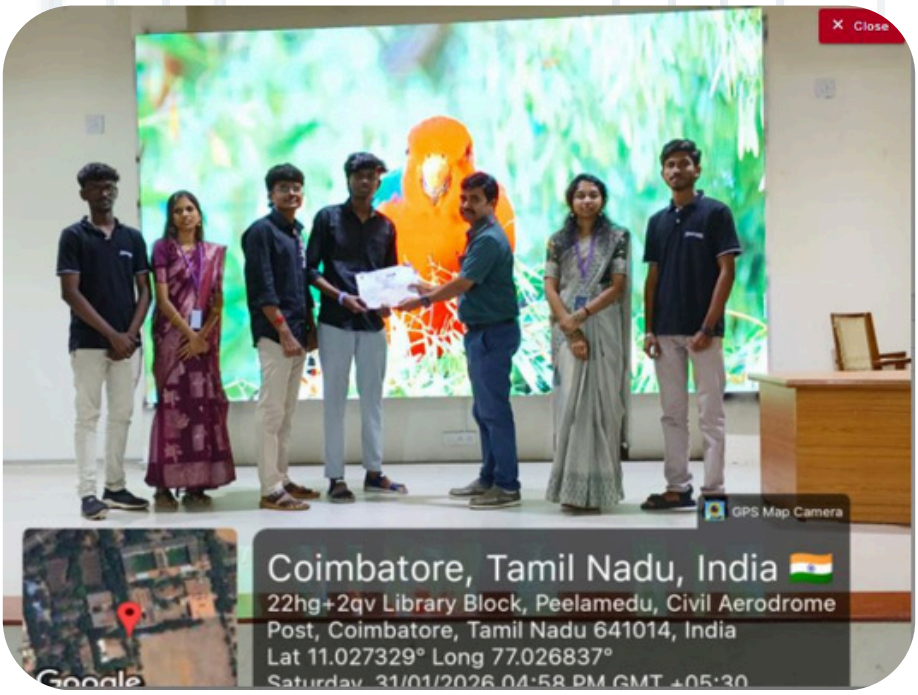


STUDENT EXCELLENCE BEYOND THE NORM

Ms. Pon Prathakshana, Ms. J. Rishapthi, Ms. Razeena Tasneem, and Ms. R. Naveena (II CS) won First Prize in AI in Action (Paper Presentation) organized by Sri Eshwar College of Engineering, Coimbatore.

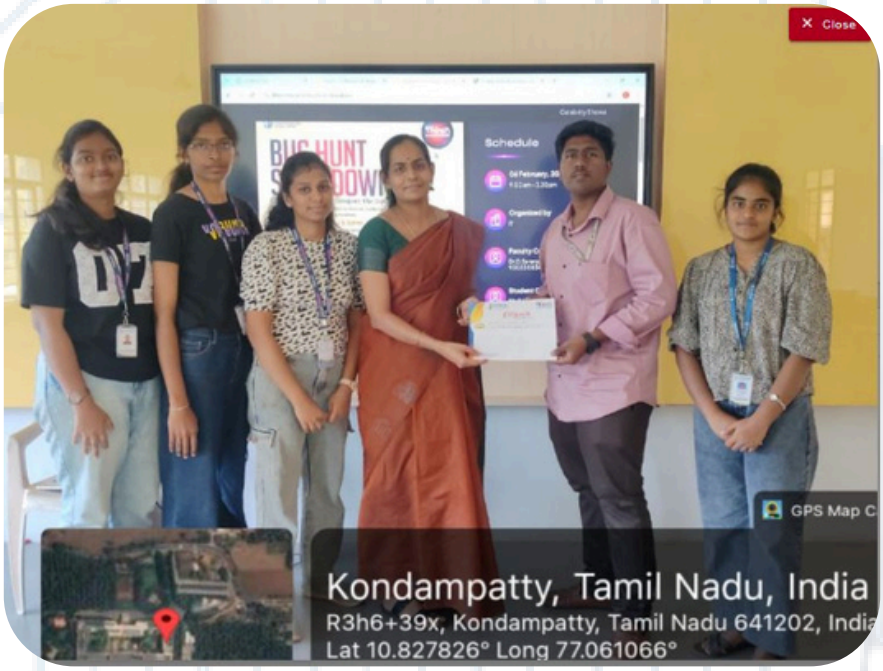


Mr. R. Abdul Majeed and Mr. M. Dharun (II CS) secured First Prize in the Technical Puzzle Clash (CRYPTERA) event organized by Coimbatore Institute of Technology.



STUDENT EXCELLENCE BEYOND THE NORM

Mr. S. S. Balakumaran (II CS) secured Second Prize with a cash award of ₹2000 in the Bug Hunt Showdown at Sri Eshwar College of Engineering, Coimbatore.



Ms. N. Gayathiri and Ms. Madhumitha Perananthan (II CS) secured First Prize in Upspire at Technotronz '26, organized by PSG College of Technology, Coimbatore.



STUDENT EXCELLENCE BEYOND THE NORM

Mr. M. Darshan (II CS) won First Prize in the Drone Race conducted as part of Expelliarmus'2K26 Technical Symposium at Kongu Engineering College, Perundurai.



Mr. P. Dixit Tharun Raja (III CS) secured First Prize in Voltblitz (Robo Race) at YUGAM'26 National Level Technical Event organized by Kumaraguru College of Technology, Coimbatore.



STUDENT EXCELLENCE BEYOND THE NORM

Ms. A. Devamithra and Ms. S. Bharath (II CS) secured First Prize with a cash award of ₹1000 in Prompt Wizard at Dhruva'2K26, organized by Karpagam College of Engineering, Coimbatore.



Mr. A. Ariharan (II CS) secured both First Prize and Second Prize in UTHVEGH'26 for Weightlifting, Deep Lift below 59 category organized by KPRIET.

