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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INDEX

S.no	Content	Page no.
1.	About the department	1
2.	Vision and Mission	2
3.	Leading with vision: From the HOD's desk	3
4.	Faculty Achievements • Faculty Publications • Forging Partnerships : MoU Signed • Faculty conferences • Faculty Publication in book chapter	4
5.	Gatherings that inspire: Our organized events	15
6.	Student Achievements • Cheers to Success: Congrats to our Placed Stars • Student excellence beyond the norm	18

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

From the HOD's Desk

It is with great pride that I present this edition of Futuristix, the newsletter of the Computer Science Department at KPR Institute of Engineering and Technology. This publication offers a glimpse into the vibrant array of initiatives and accomplishments by our students and faculty.

As the realm of Computer Science rapidly evolves, our department remains steadfast in its mission to empower students with the skills and mindset needed to navigate and lead in this dynamic landscape. This issue showcases a blend of pioneering research, community outreach, and collaborative projects that reflect our commitment to innovation and excellence.

I urge our students to stay inquisitive, embrace emerging challenges, and actively contribute to the transformative journey of technology. My heartfelt thanks go to the editorial team for their dedication and hard work in curating this inspiring edition.



Dr. Devi Priya R
Professor & Head

FACULTY ACHIEVEMENTS

Faculty Publications

Sr.No.	TITLE OF PAPER	AUTHORS	MONTH	INDEXING SCOPUS/SCI /Conference Publication
1	Hybrid deep learning with a fusion model of weather and soil-based multi-crop recommendations for improving crop sustainability	**Mohan M** , AnandaMurugan S	07 November 2025	SCI
2	Robust Cyber Defense Framework with Adamax Convolutional Neural Network and Hierarchical Multi-Scale Long Short-Term Memory	Dhivya Rathinasamy, **Vishnu Kumar Kaliappan**	07 October 2025	SCI

Sr.No.	TITLE OF PAPER	AUTHORS	MONTH	INDEXING SCOPUS/SCI /Conference Publication
3	Novel graph-based centralized and decentralized approaches for early AKI prediction	V.S.Suresh Kumar, **R.Devipriya**, M. Vijayakumar	06 December 2025	SCI
4	Exploring Structural Health Monitoring of Buildings: State of the Art on Techniques and Future Directions	M. Kalai Selvi, **R. Manjula Devi**, K. S. Elango, S. Anandaraj, G. Sindhu Priya, S. Shaniya, P. Manoj Kumar	01 December 2025	SCI

FORGING PARTNERSHIPS: MOU SIGNED

On 31st October 2025, KPR Institute of Engineering and Technology (KPRIET) signed a Memorandum of Understanding (MoU) with EyePlus Digital to strengthen industry–academia collaboration through technical training, skill development, and knowledge sharing. This partnership aims to bridge the gap between academic learning and industrial requirements by providing students with opportunities to gain practical knowledge, develop technical competencies, and understand current industry practices.

As part of this collaboration, it was proposed to establish a Centre of Excellence (CoE) focusing on hardware, software, and electronics manufacturing. The proposed centre aims to provide hands-on training, practical exposure, and industry-oriented learning experiences through technical workshops, project-based learning, and skill development activities. This initiative is expected to encourage innovation, enhance problem-solving abilities, improve students' employability, and prepare them to meet emerging technological challenges. The collaboration also creates opportunities for faculty–industry interaction and the development of industry-relevant skills, thereby strengthening the institution's commitment to quality technical education and career readiness.



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	SAR Image Despeckling using a Convolutional Neural Network	P Vasundaradevi, **Kandasamy Sellamuthu**, Manoj R, Deepak K V	Jan 2023	Scopus	20Jan 25
2	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 2025	Scopus	Nov 2025
3	Real-Time Credit Card Fraud Detection using Lightweight Heterogeneous Graph Neural Network	Ramasami S; Vidhya R; **Munirathinam T**; Mallika P; Vaduganathan D	01 October 2025	Scopus	--
4	Simulation and Analysis of Quantum Circuit-based Encryption Schemes for Secure Communication	M.J.Jeyasheela Rakkini, CH Hussaian Basha, S.SANGEETHA, Anusuri Krishna Veni, S Sumathi, **S. Thivaharan**	15-17 October 2025	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
5	Benchmarking Generative Adversarial Networks for Realistic Tabular Data Generation	J.Shanthini, **V.Priya**, L.R.Sujithra, P.Sarvesh, C.S.Madhumathi,	30-31 October 2025	Scopus	--
6	Spatiotemporal Deep Learning for Forecasting Regional Sea-Level Rise using Annual Temperature Trends	J.Shanthini, **V.Priya**, C.S.Madhumathi, L.R.Sujithra, P.Sarvesh	05-07 November 2025	Scopus	--
7	Early-Stage Breast Cancer Detection using Machine Learning Techniques on Mammograms	**Jincy Denny, B Karthikeyan, Nisha Soms**	24-26 November, 2025	Scopus	--
8	AI Based Pattern Detection for Fighter's Aircraft	P. Jayadharshini; C. Vasuki; S. Santhiya; S. Fowjiya; A. Nithyasri; **K. B. Sri Sathya**	01 December 2025	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	Detection of Bird Species using Lightweight Convolutional Neural Networks	Rajasekaran T, Balasubramaniam V, **S Manoj Kumar**,S. Sadesh, Gokul Chandrasekaran, S. Anandamurugan	01-03 December 2025	Scopus	--
10	Decentralized Blockchain-Integrated IoT Framework for Enhancing Cybersecurity and End-to-End Trust in Data Transmission	Biru Rajak, Malik Bader Alazzam, **B Karthikeyan**, P N V Syamala Rao M, Jampani Satish Babu, R Saravanakumar	15-17 December 2025	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	Reinforcement Learning–Based Vulnerability Identification in Intelligent Transport Systems	Dharani Jaganathan, **Vishnu Kumar Kaliappan**, Shree RM Lakshitha	18 November 2025	Yes
2	Crop Yeild Estimation	M Salomi, **JK Kiruthika**, S Samsudeen, G Maragatham	Oct 2025	Yes
3	The Role of Quantum–Enhanced Digital Signature in Strengthening Cryptographic Security	Sakthitharan Subramanian, **V. Priya**, C. S. Madhumathi, Sathya Balaji, Perumal Sivaraman & Mohammed Hameed Alhameed	Oct 2025	Yes
4	A Framework and Taxonomy for Quantum Computing	Artor Nuhiu, Sam GoundarORCID Icon, Shruthi K., Akashdeep Bhardwaj, **Vishnu Kumar Kaliappan**	Nov 2025	Yes

GATHERINGS THAT INSPIRE!

Our Events Organized

BRIDGING REALITIES AR AND VR

Summary:

11.10.2025

TThe Department of Computer Science at KPR College of Arts Science and Research organized an Alumni Talk on Augmented Reality (AR) and Virtual Reality (VR) technologies on 11.10.2025. The session was delivered by the chief guest, an alumnus of the institution. The talk focused on the latest trends in AR and VR technologies. Real-world applications of immersive technologies were discussed in detail. The program aimed to enhance students' awareness of emerging technologies. A total of 25 students actively participated in the session. Students showed great interest and enthusiasm throughout the event. The session created an interactive and inspiring learning environment. The alumnus shared industry insights and practical experiences. The session helped students understand current industry expectations. It also motivated students to explore immersive technology domains.The event was successfully coordinated by Ms. Jeevitha R, Dr. Primya T, and Ms. Sasikala C. The faculty coordinators ensured smooth organization of the program. Overall, the alumni talk was an amazing and enriching learning experience for the students



EXPLORING THE WORLD OF AR AND VR TECHNOLOGIES

Summary: **11.10.2025**

The Department of Computer Science organized an Alumni Talk on 11.10.2025 to expose students to emerging technologies. The session was delivered by the chief guest, an alumnus of the department. The talk focused on the latest trends in Augmented Reality (AR) and Virtual Reality (VR). Real-world applications of AR and VR across various domains were discussed. The session aimed to create awareness about immersive technologies. Students gained insights into career prospects in the AR and VR domain.

The alumnus shared industry experiences and practical knowledge. The session encouraged students to explore innovative ideas and projects. A total of 25 students actively participated in the session. Students showed keen interest and enthusiasm throughout the program. The interactive nature of the session enhanced student engagement. The event was successfully coordinated by Ms. Jeevitha R, Mr. Naveen Kumar, and Mr. Prem Kumar. The faculty coordinators ensured smooth organization of the session. Overall, the alumni talk was an informative and inspiring learning experience for the students.





CODE OPTIMIZATION TECHNIQUES [GUEST LECTURE]

Summary: **22.10.2025**

The Department of Computer Science and Engineering at KPR Institute of Engineering organized an informative guest lecture on "Code Optimization Techniques" on 22.10.2025. The session was conducted to enhance students' understanding of efficient coding practices and performance improvement in software development. The guest speaker explained various optimization strategies with practical examples, making the lecture highly interesting and interactive. A total of 62 students actively participated and benefited from the session. The program was successfully coordinated by Ms. Sivaranjani S and Dr. Priya, whose efforts ensured smooth organization. Overall, the guest lecture was a valuable learning experience that strengthened students' technical skills and encouraged them to write optimized, high-quality code in real-world applications and academic projects.





CHEERS TO SUCCESS

Congrats to our Placed Stars!

S.No	Student Name	Company Name
1.	AABITH ROSHAN B S	Virtusa
2.	KEERTHIKA V	Virtusa
3.	AKALYA R M	Aptean
4.	GOKULA KRISHNAN S	Avasoft
5.	KEERTHANA D	Avasoft
6.	KEERTHANA P G	Avasoft
7.	KIRUTHIGA C	Avasoft
8.	KIRUTHIGA S	Span Tech
9.	DIVYA V	Rebar
10.	HEBCIBA ANGELIN B	Rebar
11.	DEVATHARANI G S	Rebar

S.No	Student Name	Company Name
12.	HARINI T	Infosys
13.	JANIKAA M P	Infosys
14.	AKASH S	Accenture
15.	ASMITHA SA	Accenture
16.	GUHAN M	Accenture
17.	HARI L	Accenture
18.	LOGESHWARAN R	Accenture
19.	AASHISH BISHOKARMA	Accenture
20.	BHARANIDHARAN S	Accenture
21.	HARISH G	Accenture
22.	DEEPAK M	Qspider
23.	DHARANITHARAN J	Qspider

S.No	Student Name	Company Name
24.	GANGUMALLA TEJESHWAR RAO	Qspider
25.	KARTHIK G T	Qspider
26.	AARADHYA GUPTA	Qspider
27.	ANANYA THAKUR	Qspider
28.	ABINAYA A	Sutherland
29.	ARULPRATHAKSHINI SHREE S B	Sutherland
30.	ASHWIGA BR	Sutherland
31.	ANUKARTHIKA S	Accenture
32.	GOKULA KRISHNAN S	Accenture
33.	KEERTHANA D	Accenture
34.	KEERTHANA P G	Accenture
35.	KIRUTHIGA C	Accenture

S.No	Student Name	Company Name
36.	KIRUTHIGA S	Accenture
37.	MOHAMMED RASHIDH S	Accenture
38.	MEHA SRI A	Virtusa
39.	PAVITHRA D	Virtusa
40.	POOJA V	Virtusa
41.	RAVIVARMAN B	Virtusa
42.	RAYYAN A	Virtusa
43.	NANDHINI S	Avasoft
44.	RAJAMARI R	Avasoft
45.	PREETHIKA S	Span Tech
46.	NANDHINI S	Rebar
47.	PETCHIMURUGAN S	RDX Tech

S.No	Student Name	Company Name
48.	MANASAVARSHINI G D	Infosys
49.	PRANAV RAJ G	Whiz Labs
50.	NISHANTH M	P3Fusion
51.	RAMAN KISHORE.R.R	ValueHealth Solution
52.	KISHORE KUMAR S	Accenture
53.	NITHARSHANA E	Accenture
54.	PRIYANKA B	Accenture
55.	RAGHUL K R	Accenture
56.	RASITHA BEGAM S	Accenture
57.	RITHIKA S	Accenture
58.	NIVETHA N	Accenture
59.	KRISHNA SAH	Qspider

S.No	Student Name	Company Name
60.	MITHILA DHAR	Qspider
61.	KISHON P	Sutherland
62.	MAITHAREYAN S	Sutherland
63.	PRAJITHA.R	Sutherland
64.	PRAKADEESREE S	Sutherland
65.	RAVI PRAKASH E	Sutherland
66.	RAVIVARMAN S S	Sutherland
67.	RAVIVARMAN B	Accenture
68.	RAJAMARI R	Accenture

STUDENT EXCELLENCE BEYOND THE NORM

II CSE A Won first prize in IEEE Event



