OBJECTIVE FOR THE SEMESTER:

To encourage students to actively take part in seminars, workshops, competitions, and sports to enhance their skills and confidence.

SPECIAL POINTS OF INTEREST:

A Manifold is a multi-dimensional surface where complex data is mapped -much like this newsletter, reflecting the layered growth and collaborative spirit of the PG Dept. of Computer Science.
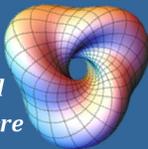
INSIDE THIS ISSUE:

Shasun Chronicle — Manifold
PG DEPARTMENT OF COMPUTER SCIENCE

EDITORIAL

We are indeed happy to bring the newsletter for P.G Department of Computer Science. This newsletter highlights the academic and non-academic activities of both staff and students of the department for the Even Semester 2024-25.

**Dr. B SREE VIDYA, Assistant professor,
HIMAJA R, II MSC CS
DEEPA, I MSC CS**

BEST PRACTICES

Experiential learning is provided wherein students gain a deeper understanding of concepts through practical exposure. Wi-Fi facility is also provided to support seamless learning and research. Furthermore, students are consistently motivated to participate in intercollegiate competitions, fostering technical excellence, creativity, and collaborative skills.

HOD'S MESSAGE

Very excited again to be part of the current edition of our newsletter - Manifold. Hearty Congratulations to the team for bringing out the laurels of PG Department of Computer Science. Thought of sharing this in the era of Artificial Intelligence. AI is an innovation created by human insights. It is not about which is superior. Both intelligences have to co-exist for the betterment of the society. Let's get ourselves equipped so that our intelligence combined with machine intelligence makes an impact on the society and makes life simpler, more comfortable and safe.

-Dr.G.Umamaheswari

DEPARTMENT ACHIEVEMENTS

1. The PG Department of Computer Science hosted **Kranthi**, an intercollegiate technical fest for the students of B.Sc CS/DS/AI and BCA on 5th February 2025. The event was a huge success where young minds showcased their talents.

2. The PG Department of Computer Science conducted a Project Expo **SparkIT on 23 rd January 2025** where the students of the department exhibited software projects developed by them. There was a total of nine software projects that were developed in Python and were exhibited. The judge, Ms. Hanna, Technical Head, TANSAM evaluated their projects under three different criteria, viz. innovation, technical expertise and presentation. Top two scorers were awarded.

DEPARTMENT ACHIEVEMENTS

3. The school of computational sciences hosted its first ever Hackathon on 22nd January on the title **"Ignite the innovation- AI Challenge"**

4. The school of computational sciences in collaboration with KISSI University, Kenya hosted its 5th International Conference on Recent Advancements in Computing and Communication(ICRACC) on 12th February, 2025

*"The best way to predict the future is to invent it."*

– Alan Kay

STUDENT ACHIEVEMENT

- Ms.Shruthilaya and Ms.Angalaparameswari won third place in the debugging event as part of "CHIPIN'25 Tech திறன்" hosted by Ethiraj College for Women.

- Ms.Shruthilaya bagged the best out going student award and Ms.Angala Parameswari won the "All rounder award" and received their prizes on college day.

- Ms.Shruthilya of II M.Sc won I prize for her project "Mind Reader" and Ms.Himaja and Ms.Neha of II M.Sc won II prize for their project "Memory Match Game" at the event **Project Expo** hosted by the department.

- Three students of II M.Sc (CS), Ms.Shruthilaya, Ms.Akshaya Laxmy and Ms.Chandrika presented their papers at the 5th International Conference on Recent Advancements in Computing and Communication (ICRACC) on 12th February, 2025.

- Students of both I and II M.Sc produced 100% result in their I and III semesters respectively.

- Students of I and II M.Sc CS successfully completed a 30-hour certificate course on "Tableau" organized by the college in collaboration with Four Steps Training solutions.

- Ms.Deepa and Ms.Swathi of I M.sc CS successfully completed their Nptel exam, may 2025.

DEPARTMENT ACTIVITIES

- Students of M.Sc CS hosted club cultural event **AlgoRhythm on 4th January 2025** where students could tap their hidden potential in various art forms. They also learnt various aspects of event management and team work. This event served as a solid platform for experiential learning.

- As March 1st of every year is celebrated as open data day, the department conducted a meme creation competition on the title **"When you find the dataset you needed".**

- The I M.Sc Students hosted farewell to their seniors on 29 march 2025.

- The department released its book titled **"Advances in computing"** a compilation of project work done by the students of the department
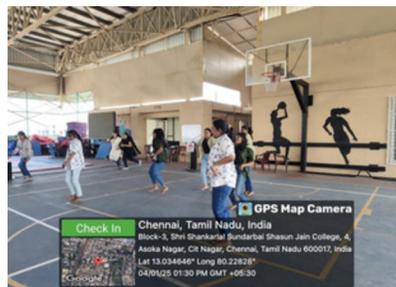
SEMINARS AND INTELLECTUAL ENGAGEMENTS

- The Department organized a thought-provoking IKS (Indian Knowledge System) seminar titled **"From Manuscripts to Microchips"** on 25th February 2025. The session was uniquely delivered by Master Krishna Sayee, a child prodigy and a Grade 3 student, who captivated the audience with his extraordinary insights on the evolution of knowledge systems—from ancient Indian manuscripts to modern digital technologies.

- The Department conducted an enlightening seminar on Intellectual Property Rights (IPR) on 5th March 2025, titled **"Innovation - A Pathway to Intellectual Property".** The session was presided over by Dr. Balaji Devarajan, Patent Agent and Head of the Center for IPR at KPR Institute of Engineering and Technology, Coimbatore. Dr. Devarajan threw light on the importance of innovation in today's knowledge economy and its transformation into valuable intellectual assets.

INTERNSHIP AND PROJECT

- Our First-year students began their Summer Internship, gaining practical exposure across various domains. This initiative allowed them to connect academic concepts with real-world applications, fostering early professional development.

- Final-year students successfully completed their six-month industry projects, working closely with professionals and strengthening both technical expertise and soft skills. In parallel, they undertook their Final Year Projects -marking the culmination of their academic journey, where they showcased innovation and applied knowledge to solve real-world problems.

"Technology is anything that wasn't around when you were born."

– Alan Kay

DEPARTMENT - INDUSTRY INTERFACE

The students of I and II M.Sc (CS) were taken on an industrial visit to **TANSAM**, Tidel park on 23rd December 2024

STAFF ACHIEVEMENTS

Dr.G.Umamaheswari and Dr.M.Anita Indu were honored on college day for their **10 years** of dedicated service at the college.

FACULTY ACHIEVEMENTS AND KNOWLEDGE ENRICHMENT

Staff Name	Name of Program
Dr.G.Umamaheswari	Session Chair- International Conference on Advances in AppliedSciences, Technology & Mathematics (ICAASTM-2025), Shri Krishnaswamy College for Women on 20.02.2025
Dr.S.Sridevi	External panel member in Mohamed shatak college
Dr.M.Anita Indu	Session Chair- International Conference on Advances in Applied Sciences,Technology & Mathematics (ICAASTM-2025), Shri Krishnaswamy College for Women on 20.02.2025
Dr.M.Anita Indu	Chief Guest, Tech Spark Symposium at Sindhi College on 25 th March 2025
Dr.B.Sree vidya	Resource person, Research Methodology Seminar titled "Research Journey Starting Step by Step" for B.Sc CS students, Shasun Jain College for Women
Dr.B.Sree Vidya	External Audit Committee Member, Annual Academic Audit, SKPC, 9 th April 2025

—"Innovation is the ability to see change as an opportunity – not a threat."

– Steve Jobs

FACULTY ACHIEVEMENTS AND KNOWLEDGE ENRICHMENT

| S.No	Name of the staff	Name of course
1	Dr.G.Umamaheswari	FDP on Virtual Reality at TANSAM November 2024
2	Dr.M.Anita Indu	FDP on Robotics at TANSAM November 2024
3	Dr.G.Umamaheswari, Dr.M.Anita Indu, Dr.B.Sree Vidya	FDP on Strategies for Effective Journal Writing: Enhancing academic publishing success hosted by Research Council of Shasun Jain College January 2025
4	Dr.M.Anita Indu, Dr.B.Sree Vidya	FDP on Power Bi hosted by ICT Academy January 2025

FACULTY ACHIEVEMENTS AND KNOWLEDGE ENRICHMENT

S.No	Name of the staff	Name of course
5	Dr.G.Umamaheswari, Dr.M.Anita Indu, Dr.B.Sree Vidya	Participated in AI Immersion week program organized by CII in the month of March 2025
6	Dr.G.Umamaheswari, Dr.B.Sree Vidya	Participated in an orientation session on "Database Engineering" at IITM Pravartak on 24 th January 2025

"Software is a great combination between artistry and engineering."

– Bill Gates

PICTURES CORNER
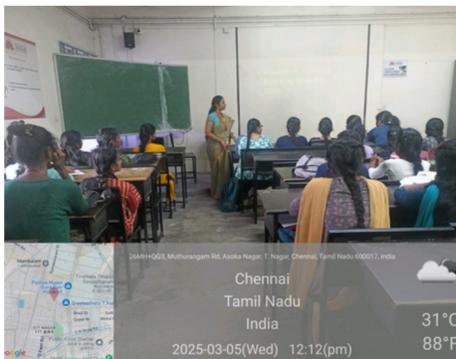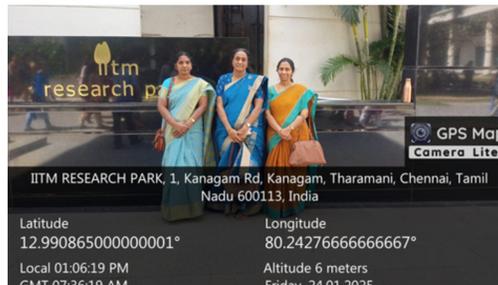
READERS CORNER

The Era of Agentic AI: Technology That Thinks Ahead

In 2025, AI has evolved beyond reactive chatbots into Agentic AI-autonomous systems that don't just respond to commands but proactively think, plan, and act on complex tasks. These intelligent agents sense their environment, reason about goals, execute multi-step workflows, and learn from outcomes, transforming how we interact with technology.

Core Architecture of Agentic AI

- Perception Layer: Ingests inputs-text, images, sensor data-and extracts contextual insights.
- Reasoning Module: LLMs analyze context, set objectives, and create step-by-step action plans.
- Action/Orchestration Layer: Connects to APIs and services, executing tasks automatically and handling feedback loops.
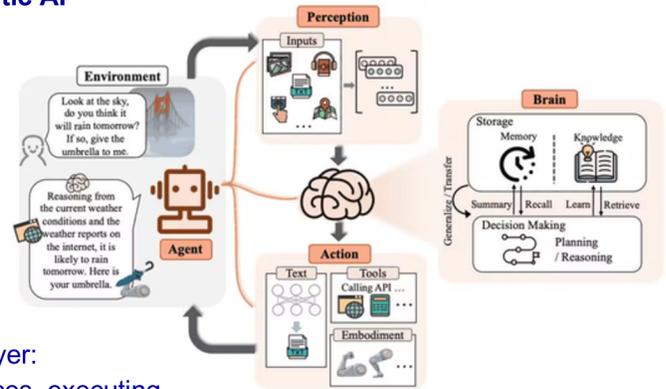
"Technology is a word that describes something that doesn't work yet."

– Douglas Adams

Real-World Applications in 2025

Enterprise Operations: From IT ticketing to HR onboarding, agentic systems manage workflows end to end.

Cybersecurity & Finance: Real-time threat detection and autonomous trading decisions enhance speed and precision.

Customer Support: AI agents resolve tier-1 queries, access knowledge bases, and escalate complex issues only when needed.

Everyday Tools: OpenAI's Operator can autonomously complete tasks like booking slots, placing orders, and filling forms-all via browser actions.

Why It Matters

Agentic AI is changing the game-not merely responding, but anticipating and collaborating. Organizations deploying these systems are seeing 20-60% efficiency gains, thanks to faster decision-making and smarter automations. As we embrace this evolution, we're entering an era where AI agents become trusted digital colleagues-streamlining workflows, enhancing creativity, and empowering human innovation.

As technology evolves, so does our imagination. Stay curious, stay inspired.