



Sri Sharada Peetham, Sringeri
Jyothy Charitable Trust

ISE THINKLET

2025-26 (SEP - JAN)

DEPARTMENT OF
**INFORMATION SCIENCE
AND ENGINEERING**



INFORMATION. INNOVATION. INSPIRATION

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Dr. KISHORE G R
Associate Professor and Head

Message from the HOD

I am extremely happy that THINKLET 2025–26 (September - January) is being released. The magazine is a means for students and faculty to exhibit their creative skills. It provides a vibrant platform for sharing their technical knowledge and innovative ideas. The faculty of the department leaves no stone unturned in nurturing the students to express themselves within and outside of their classes.

The department's endeavors produce confident professionals, tuned to a real-time working environment. Students actively team up with the faculty to work on collaborative projects, from which they tend to imbibe the required skills and benefit a lot from their understanding of current opportunities and challenges while developing new technologies within the realm of information science. The magazine serves as a testament to their dedication and passion for learning, fostering an environment where curiosity thrives. It not only showcases academic excellence but also highlights the department's commitment to holistic development, encouraging students to explore, innovate, and push the boundaries of knowledge.

EDITOR'S NOTE



Dear Readers,

It is with great pride and excitement that I present to you this edition of our Department of Information Science & Engineering Magazine. This magazine stands as a reflection of our department's vision—where innovation meets execution, learning meets impact, and ideas evolve into real-world solutions.

Information Science & Engineering is not just a discipline—it is the foundation of the technologies shaping today's world. From intelligent systems and data-driven decisions to cybersecurity, software engineering, and emerging innovations, our department continues to inspire a culture of curiosity, creativity, and excellence.

This edition captures the collective efforts of our students and faculty—highlighting academic brilliance, technical achievements, research contributions, projects, events, and the vibrant departmental spirit that binds us together. Every article represents a step forward in our journey of growth, discovery, and transformation.

I extend my sincere gratitude to our faculty members, contributors, and the entire editorial team whose dedication and hard work have made this magazine possible. Their commitment has helped shape a publication that truly represents the identity and ambitions of our department.

With warm regards,
Mr. Jayanth K
Assistant Professor
Editor | Department of ISE
Jyothy Institute of Technology

VISION

To be a department for excellence in education in information science and engineering, research, innovation, and work towards empowering students for professional competence and entrepreneurial skills

MISSION

M1: To provide state-of-the-art infrastructure with modern and innovative teaching methodologies.

M2: To encourage and nurture collaborative and interdisciplinary projects that aid academic and industrial research.

M3: To promote activities that helps our students inculcate ethical practices and entrepreneurial Skills.

Teaching Faculty

NAME	DESIGNATION	QUALIFICATION
Dr. Kishore G R	Associate Professor and Head	M.Tech., Ph.D
Dr. Divakar Harekal	Professor	M.Tech., Ph.D
Dr. Sridevi G M	Associate Professor	M.Tech., Ph.D
Mr. Manjesh B N	Assistant Professor	M.Tech., (Ph.D)
Mrs. Rashmi K.S	Assistant Professor	M.Tech., (Ph.D)
Mrs. Nandini D	Assistant Professor	M.Tech
Ms Rakshatha S	Assistant Professor	M.Tech
Mr Mukesh Kamath Bola	Assistant Professor	M.Tech
Mr. G S Hiremath	Assistant Professor	M.Tech
Ms. Vandana G	Assistant Professor	M.Tech
Mr. Jayanth K	Assistant Professor	M.Tech

Non Teaching Faculty

NAME	DESIGNATION
Mr. Abhishek G S	Programmer
Mr. Naveen Kumar P R	Second Divisional Clerk
Mr. Rahul N	Instructor
Mr. Sunila V	Programmer
Mrs. Divya S	Instructor
Mr. Shashikiran K S	Instructor
Mr. Chirag Singh L	Instructor
Ms. Meghana C M	Instructor

Department Advisory Board

NAME	DESIGNATION
Mr. Nikhil M	Sales Force Tech Lead, Nokia Network & Solutions Pvt Ltd.
Dr. Rekha B Venkatapur	Professor and Head CSE Dept, KSIT
Dr. Rekha P M	Professor and Dean Academics, Dept ISE, JSS Academy of Technical Education.
Dr. Kishore G R	Associate Professor and Head
Dr. Divakar Harekal	Professor

Technical Talk

GenAI and Agentic AI in Indian IT for development and support work

Date: 12th Sept 2025

Time: 10 AM – 12:00 PM

Venue: Jyothy Institute of Technology-Auditorium

Audience: 7th Semester ISE Students

Introduction to AI in Indian IT

- AI in Indian IT has evolved from basic rule-based systems to advanced intelligent models.
- It is transforming both software development and support operations.
- AI now enables automation of complex tasks and improves business decision-making.

Generative AI (GenAI): The Creative Force

- GenAI refers to AI systems that can generate new content like text, images, and videos.
- It works by learning patterns from existing data and creating relevant outputs.
- In the CME sector, GenAI is enabling:
 - Faster content creation
 - Personalized media experiences
 - Streamlined production workflows

Agentic AI: Autonomous Decision-Making

- Agentic AI goes beyond giving suggestions—it can plan, decide, and take actions independently.
- Unlike traditional AI, it requires less human intervention for execution.
- Key use cases include:
 - Autonomous customer service bots
 - AI-powered content moderation tools
 - Automated multi-step task execution

Impact on Development and Support Work

- GenAI and Agentic AI are automating repetitive development and support tasks.
- Support systems are becoming faster, smarter, and more efficient.
- Developers can focus more on strategic and high-value work.
- Agentic AI helps in real-time decision-making within dynamic environments.

Strategic Implications and Future Directions

- Enhancing Customer Engagement
- AI enables personalized recommendations and real-time customer interaction.
- Businesses can provide proactive support, improving satisfaction and loyalty.
- These improvements contribute directly to business growth.
- Operational Efficiency and Cost Reduction
- Automation reduces dependency on manual work for routine operations.
- Organizations gain higher efficiency and lower operational costs.
- Resources can be redirected toward innovation and scaling services.



Impact Analysis Report on IBM SkillsBuild

Subject: IBM SkillsBuild

Program: Technical Talk

Resource Person: Mr. SaiPrasadswami from CSRBOX

Date of Delivery: 17-09-2025

Objective

- The session aimed to introduce the IBM SkillsBuild platform to students and faculty.
- Conducted by Mr. SaiPrasad Swami (CSRBOX), highlighting the platform's role in skill development, career readiness, and industry-focused learning.

IBM SkillsBuild – Platform Overview

- IBM SkillsBuild is a free digital learning and career readiness platform developed by IBM with partners like CSRBOX.
- Designed for students, educators, and job seekers to gain:
 - Industry-relevant skills
 - Certifications
 - Career guidance and employability support
- Helps bridge the gap between academic learning and industry expectations.

Workshops and Courses Offered

- Professional Skills Workshops
- Job Readiness Workshop – Resume building, job applications, and interview preparation
- Career Counselling Workshop – Career planning and right path selection

Domain-Specific Skills Workshops

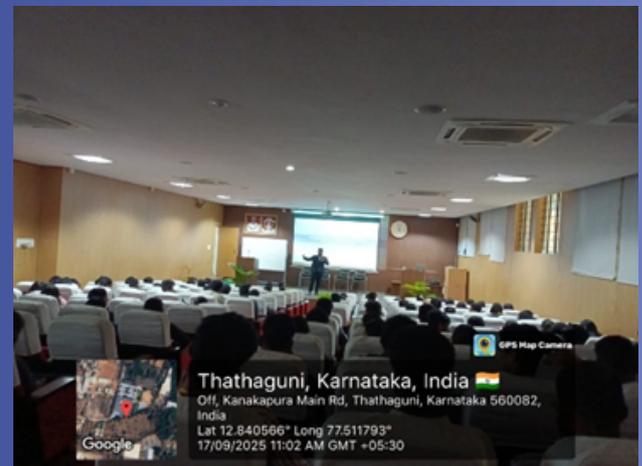
- Entrepreneurship Workshop – Innovation mindset, startups, and business fundamentals
- Design Thinking Workshop – Problem-solving and creative thinking approach
- Digital Marketing Workshop – Modern tools, strategies, and marketing techniques

Benefits of IBM SkillsBuild

- NEP Integration – Aligned with India’s National Education Policy
- Structured Learning Plans & Channels – Guided learning pathways
- Project-Based Learning & Internships – Hands-on skill development opportunities
- Masterclasses by Industry Experts – Real-world insights and exposure
- Mentoring Support – Professional guidance and mentoring opportunities
- Industry-Recognized Certifications – Boosts credibility and employability
- Placement Assistance Programs – Support for job readiness and hiring preparation
- Employment Opportunities – Direct access to career opportunities through the platform

Conclusion

- The session highlighted how IBM SkillsBuild empowers learners with industry-aligned skills.
- With its mix of workshops, certifications, mentoring, and career support, the platform serves as a strong bridge between education and employability



A Personality Development Program for the Youth through the Inspiration of Dakshina Murthy

Date: 22nd Aug 2025

Time: 2 PM – 4:00 PM

Venue: Jyothy Institute of Technology-Auditorium

Audience: 5th Semester ISE Students

A personality development programme for the youth through Dakshinamurthy Stotras, was held this afternoon. The speaker was Prof. B Mahadevan, JIT-Trustee.

The speaker touched upon topics like Indian Spirituality and why we should be proud of it. Questions about Who am I, Dreams and Wakefulness. He put forth certain principles of life and reBirth and why it matters to students.

He aroused the curiosity of students by asking questions like where did a tree projected in the presentation come from? with students answering that it came from a seed, he kept questioning, ultimately asking the question of who created the universe.

Students recited the ten Dakshina Murthy Stotras with Prof. Mahadevan explaining their meaning.

Students feedback indicated that they benefited greatly from the talk and were inspired by the speaker on Indian Knowledge Systems and the necessity of looking inwards into our minds, chitta, thoughts and charitra..



Industrial Visit

Program :Industrial Visit

Audience: 3rd Sem ISE students

Location: ISRO - Master Control Facility, Hassan

Date of Visit: 19-12-2025

The 3rd Semester ISE students visited the ISRO Master Control Facility (MCF), Hassan as part of a technical field trip, gaining valuable exposure to real-world satellite operations and space mission control. The visit offered an insightful learning experience, bridging classroom concepts with advanced space communication and monitoring systems.



Paper Publication

Sl. No.	Name of the faculty	Title of the Paper	Journal Name	Indexing-Scopus/Wos and Quartile	Volume and Issue	Publication Date
1	Dr. Sridevi G M	AI-Driven Multimodal Mental Health Monitoring System Using Emotional, Physiological and Self-Reported Data	Ingénierie des Systèmes d'Information	Scopus (Q3)	Vol. 30, Issue. 8	Aug 2025
		A Hybrid Deep Learning Framework for Multimodal DeepFake Detection	International Journal of Safety and Security Engineering	Scopus (Q3)	Vol. 15, Issue. 10	Oct 2025
2	Mr. Mukesh Kamath Bola	AR in Education	IJARCCCE		Vol 15, Issue 1, January 2026	Jan 2026

Sl. No.	Name of the faculty	Title of the Paper	Journal Name	Indexing-Scopus/Wos and Quartile	Volume and Issue	Publication Date
3	Dr. Kishore G.R.	Classification and Estimation of Crop Yield Prediction in Karnataka using LSTM with Attention Mechanism	International Journal of Intelligent Systems and Applications in Engineering	Scopus (Q3)	Vol. 12, Issue 2	Mar 2024
		A LSTM Guided Conditional Dynamic Variational Auto-Encoder for Crop Yield Prediction and Crop Type Classification	Engineering, Technology & Applied Science Research	Scopus (Q3)	Vol. 15, No. 6	Oct 2025
4	Mr. B. N. Manjesh	Convolutional Neural Network-Transformer Model to Predict and Classify Early Arrhythmia Using Electrocardiogram Signal	IJARCCCE	Scopus (Q3)	Vol. 18, Issue 4	Jul 2025

Book Chapter

Name of the faculty	Title of the Paper	Conference	Conference Dates
Mr. Mukesh Kamath Bola	Achieve a Dynamic and Reliable Web Service using Network Load Balancer on Cloud platforms	9th IEEE International Conference on Distributed Computing, VLSI, Electrical Circuits and Robotics (2025 IEEE DISCOVER)	Oct 17,18, 2025

Faculty Development Program

Name of the faculty	Title of the FDP	Organizing Committee	Mode (Offline/Online)	FDP Dates	Duration
Dr. Sridevi G M	30 Day Masterclass on Prompt Engineering	Pantech E Learning pvt. ltd.	Online	25/07/2025 to 24/08/2025	30 days
	Responsible generative AI and its applications	Jyothy Institute of Technology- AICTE Training And Learning (ATAL)	Online	08/09/2025 to 13/09/2025	7 days

Sports Achievement



Memorable moments from the 8th International Staff Tournament – 2026 at PES University, highlighting the team spirit and active participation of the staff. The group photos reflect unity and sportsmanship, while the trophy moment symbolizes dedication and excellence.

Dr. Kishore G R, HOD – ISE, played a key role in motivating and supporting the team, promoting teamwork and overall development beyond academics.

JIT entered the final stage of the league in cricket at PES University and became the Runners-up in the International Staff Throwball Tournament for Staff, held at PES University, Bangalore.

NSS Activity : GREEN SUNDAY – TREE PLANTING & NURTURING PROGRAMME

We express our sincere gratitude to Adamyia Chetana for organizing the Green Sunday – Tree Planting & Nurturing Programme. We also thank our NSS coordinators and Jyothy Institute of Technology for encouraging us to participate in this meaningful environmental activity and for providing a platform to contribute towards a greener and healthier society.

INTRODUCTION

As part of NSS initiatives, the Green Sunday – Tree Planting & Nurturing Programme was undertaken to promote environmental awareness and encourage afforestation. The programme aimed to inspire students to actively participate in planting and nurturing trees, thereby contributing to ecological balance. This initiative aligns with the NSS mission of fostering social responsibility and environmental consciousness among students.

OBJECTIVES

- To promote awareness about the importance of tree plantation
- To encourage environmental protection and sustainable living
- To instill a sense of responsibility towards nature among students
- To contribute to improving green cover and ecological balance
- To motivate youth participation in environmental conservation activities

EVENT DESCRIPTION

Activity: Green Sunday – Tree Planting & Nurturing Programme

Organized By: Adamyia Chetana

Institution: Jyothy Institute of Technology

Mode: Plantation and Environmental Awareness Programme



ACTIVITY EXECUTION

The Green Sunday – Tree Planting & Nurturing Programme was executed in a well-planned and systematic manner with the active involvement of NSS volunteers. The activity began with an orientation session where volunteers were briefed about the importance of tree plantation, environmental conservation, and the long-term benefits of nurturing plants. Saplings were distributed, and proper guidance was given regarding suitable locations for planting.

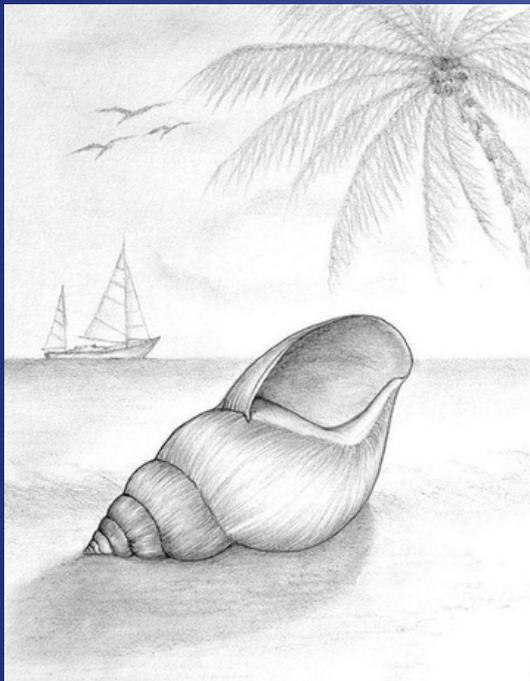
Volunteers actively participated in planting saplings using appropriate methods to ensure healthy growth. Emphasis was laid on correct soil preparation, adequate spacing between plants, and proper watering techniques. Volunteers were also educated on the importance of regular watering, mulching, protection of saplings from damage, and conserving water while maintaining greenery.

Branch Toppers - 2025

Vibu Darshan (USN: 1JT23IS062) and Akshay H (USN: 1JT23IS003) were the branch toppers of the Information Science and Engineering (ISE) department



Pixel Paradigm



Deepthi Bharadwaj M
1JT24IS013