DEPARTMENT OF
INFORMATION SCIENCE AND ENGINEERING

ISE-THINKLET
2024-25 (SEP-FEB)

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Department of Information Science and Engineering

Dr. KISHORE G R
Associate Professor and Head

Message from the HOD

I am extremely happy that THINKLET 2024–25 (September - February) 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.

V I S I O N

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

M I S S I O N

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	Associate Professor	M.Tech., Ph.D
Dr. Abhishek Kulkarni	Associate 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, (Ph.D)
Mr. Manjesh B N	Assistant Professor	M.Tech, (Ph.D)
Mr. Avinash N Rao	Assistant Professor	M.Tech
Ms. Shilpa Narayan	Assistant Professor	MS
Mr. Mukesh Kamath Bola	Assistant Professor	M.Tech,(Ph.D)
Mr.Hiremath G S	Assistant Professor	M.Tech

Non teaching faculty

Name	Designation
Mr.Naveen Kumar P R	SDC
Mr. Rahul N	Instructor
Mr.Abhishek G S	Programmer
Mr. Sunila V	Programmer
Mr.Shashikiran K S	Instructor
Ms.Divya S	Instructor
Mr.Chirag Singh L	Instructor

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SL NO	NAME	Designation
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3	Dr. Rekha PM	Professor and Dean, Academics, Dept of ISE, JSS Academy of Technical Education
4	Dr. Kishore G R	Associate Professor, ISE, JIT
5	Dr. Divakar Harekal	Prof and Head ISE, JIT

FACULTY CERTIFICATIONS

Prof. Nandini D was awarded a certificate for successfully completing the "Effective Teaching Workshop", hosted by Distinguished Professor Pankaj Jalote from IIT Delhi on 9th October, 2023.

Prof. Rashmi KS was awarded a certificate for successfully attending the "AI- MPOWER" Program offered by ZenteiQ from November 6 to December 9, 2023.

FACULTY PUBLICATIONS

Shilpa Narayan published a paper titled "Air-Writing Segmentation using a single IMU-based system" in the 2023 19th International Conference on Intelligent Environments (IE), Uniciti, Mauritius, 2023.

CONFERENCE/WORKSHOP/FDP ATTENDED BY FACULTY

Prof. Nandini D successfully completed the "Effective Teaching Workshop", hosted by Distinguished Professor Pankaj Jalote from IIT Delhi on 9th October, 2023.

Prof. Rashmi KS successfully attended the "AI-MPOWER" Program offered by ZenteiQ from November 6 to December 9, 2023.

 # BitsNBytes

BitsNBytes is a student coding club established in the year 2021 by ISE student Ruthvik under the guidance of Dr. Harsha and Prof. Vadiraj. This is a non-profit club that aims to help the

students bridge the gap between their theoretical and practical knowledge in various fields of engineering at our college.

Roles And Responsibilities

1. Captain Code – Pranav Prasad - Lead of the club

2. F.R.I.D.A.Y – D Yashaswini - Lead of the club

3. J.A.R.V.I.S – Srivatsa G, Anirudh Bharadhwaj, Kushal Kumar BP

4. Code Siren - Shreesha BS, Prajna G, Pranav KR

5. Napster – Vandana S, Sudeepthi Rao, Amogh NK

<u>GAMEATHON</u>

The 7th annual Gameathon was held from December 6th to 7th, 2024, at Jyothy Institute of Technology, with a lot of people who love gaming eagerly awaiting it. It was a platform for showcasing skills and creativity in gaming developed by gamers, developers, and other people who have a passion for it.

Organized by the Department of Information Science and Engineering in association with the student club BitsNBytes, it is recognized as one of the most interesting and popular game development competitions across the country. This 24-hour game development competition attracts budding developers and gaming enthusiasts, providing them with a platform to showcase their creativity, technical skills, and innovation in game development.

The game creation marathon received positive feedback for allowing participants to learn, innovate, and connect with peers and professionals in the field who appreciated the opportunity while giving it a touch of excellence. Notably, the event benefitted from the expertise of judges

who provided valuable insights and constructive feedback to the participants. These esteemed judges, comprising industry professionals and academic experts, evaluated the games based on creativity, design, technical implementation, and overall user experience. Their guidance not only helped participants refine their projects but also inspired them to push the boundaries of their skills. The event concluded with an awards ceremony recognizing the most outstanding games, fostering a sense of achievement among participants. With its vibrant atmosphere, Gameathon 2024 once again proved to be an inspiring and dynamic platform that encourages

innovation and passion in the gaming community.

Workshops and mentorship sessions were also conducted during the event, where participants gained valuable insights into game design principles, coding techniques, and industry trends. The event fostered an environment of collaboration, with teams brainstorming innovative ideas and implementing them within the intense 24-hour timeframe. Enthusiastic gamers, developers, and designers worked tirelessly to create immersive and engaging gaming experiences.

It created an environment of collaboration that encouraged quite a number of people to consider furthering their education or taking up game development as a career.

Various activities held under the club

1. **Al-go-rhythm**

The introduction of department members to freshmen is a celebration, welcoming new students into the academic community. Held at the start of the year, it features speeches from key faculty and senior students, sharing insights, guidance, and experiences. The event includes ice-breaking activities, mingling sessions, and a celebratory meal, fostering a sense of belonging and motivation among new students. It serves as a crucial stepping stone for freshmen, helping them transition smoothly into their academic journey with confidence and enthusiasm. The event also provides an opportunity for students to learn about the department's culture, resources, and opportunities, setting the stage for a successful and enriching college experience.

Faculty Zero Day

As part of Faculty Zero Day activities, the faculties of the Department of Information Science and Engineering at Jyothy Institute of Technology visited Wayanad. The trip served as an opportunity for team bonding, rejuvenation, and knowledge sharing. Faculty members explored the scenic beauty of Wayanad while engaging in collaborative discussions. The visit helped foster stronger relationships among the staff, enhancing their professional synergy. Overall, the Wayanad trip was a refreshing and enriching experience for the entire ISE faculty team.

Outbound Activities

As part of the outbound activity, students from the Department of Information Science and Engineering at Jyothy Institute of Technology visited Chikmagalur. The trip aimed to enhance teamwork, leadership skills, and personal development among students. They participated in various group activities while enjoying the natural beauty of Chikmagalur. The experience helped strengthen bonds among peers and foster a spirit of collaboration. Overall, the visit proved to be a memorable and enriching journey for all the students. The students engaged in trekking, adventure games, and team challenges designed to build confidence and resilience. Faculty members accompanied the students, ensuring guidance and safety throughout the journey. The breathtaking scenery and refreshing environment provided a perfect backdrop for learning outside the classroom. This outbound program successfully combined fun, learning, and personal growth in a unique and impactful way.

<u>List of Technical Talks Conducted</u>

1. Algorithms in Action: Foundations and Real-World Applications

The Department of Information Science and Engineering at Jyothy Institute of Technology organized a technical talk titled *"Algorithms in Action: Foundations and Real-World Applications"* on 2nd April 2025 at the ISE Seminar Hall. The event aimed to bridge theoretical algorithm concepts with their real-world applications, offering students a comprehensive understanding beyond the curriculum. The guest speaker for the session was Dr. Ananda Babu J, Professor and Head of the Department of Information Science and Engineering at Malnad College of Engineering, Hassan. The programme coordinators, Dr. Kishore G R (Head of the Department, ISE) and Mr. Mukesh Kamath Bola (Assistant Professor, ISE), inaugurated the session with a welcome address, highlighting the significance of strong algorithmic foundations for future technologists.

Dr. Ananda Babu J delivered an insightful talk covering the design principles of algorithms, their time and space complexity, and optimization techniques. He discussed practical case studies illustrating how algorithms are adapted to solve real-world challenges in fields such as machine learning, cybersecurity, big data analytics, and software development. His engaging delivery and real-world examples helped the audience clearly understand the relevance of algorithmic thinking in today's technology-driven world. The session was highly interactive, with students actively participating during the Q&A session. Dr. Ananda Babu patiently responded to queries, motivating students to explore research and development in the field of algorithms.

2. Understanding Outcome-Based Education (OBE): A Pathway to Student Success

The Department of Information Science and Engineering at Jyothy Institute of Technology organized a one-day student workshop titled *"Understanding Outcome-Based Education (OBE): A Pathway to Student Success"* on 17th March 2025 at the ISE Seminar Hall. The workshop aimed to educate and guide all ISE students on the importance and implementation of Outcome-Based Education in modern academic settings. The distinguished speakers for the event were Dr. Sowmya B J, Associate Professor, Department of Artificial Intelligence and Data Science (AI&DS), and Dr. Meeradevi, Associate Professor, Department of Artificial Intelligence and Machine Learning (AI&ML), both from MSRIT.

The session commenced with a warm welcome by the programme coordinators, Dr. Kishore G R (Associate Professor and Head of the Department of ISE) and Mrs. Rashmi K S (Assistant Professor and NBA Coordinator, Department of ISE). In their opening remarks, they emphasized the necessity of understanding OBE as a critical tool for academic and professional success. The speakers then delved deep into the principles of Outcome-Based Education, explaining how it shifts the focus from traditional teaching methods to achieving specific learning outcomes that are aligned with industry and societal needs. They outlined key strategies for mapping Course Outcomes (COs) to Program Outcomes (POs) and stressed the role of continuous assessment and feedback mechanisms.
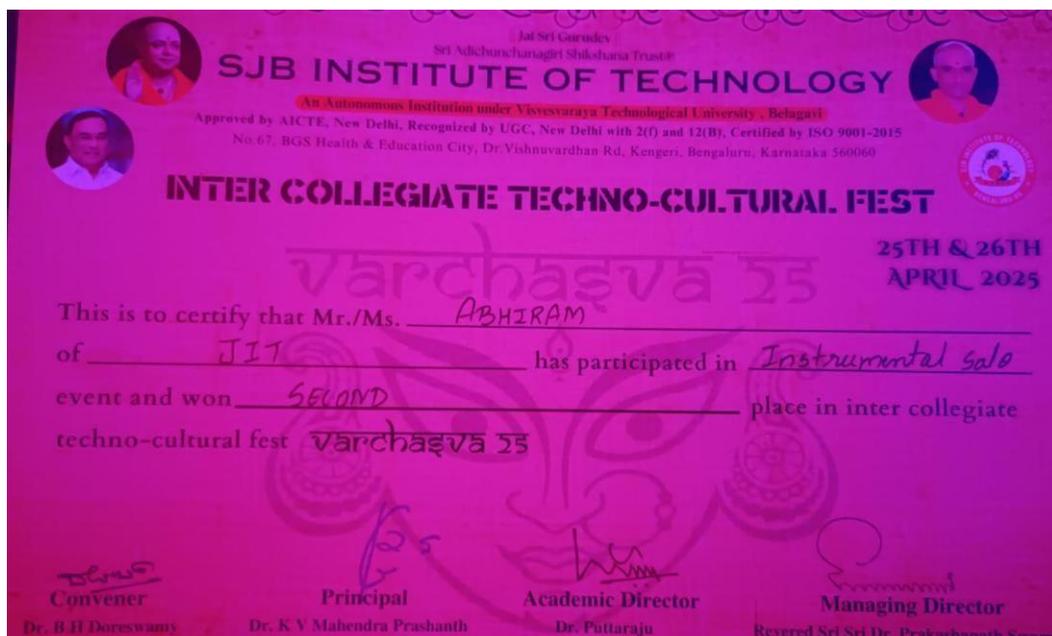
3. Full Stack Development using Django

The Department of Information Science and Engineering at Jyothy Institute of Technology successfully organized a three-day student workshop on *"Full Stack Development using Django"* from 11th to 13th February 2025. The workshop was held at the ISE Seminar Hall and witnessed enthusiastic participation from students eager to enhance their skills in full stack development. The sessions were conducted by Mr. Sivashankar C, who provided an in-depth understanding of web development frameworks with a particular focus on Django, a high-level Python-based web framework.

The event was meticulously coordinated under the guidance of Dr. Kishore G R, Head of the Department of ISE, and Mr. Mukesh K B, Assistant Professor and event coordinator. Each day of the workshop was structured to progressively build students' knowledge, starting from the basics of front-end and back-end development to the advanced integration of Django with databases and deployment techniques. Mr. Sivashankar C demonstrated real-world projects, engaged students through hands-on sessions, and provided individual guidance, helping participants to grasp both theoretical and practical aspects of full stack development.

<u>Inter-State Competition</u>

Varchasva 25 was a dynamic inter-collegiate techno-cultural fest organized by the SJB Institute of Technology on April 25th and 26th, 2025. The event featured a blend of technology and cultural competitions, offering students a stage to showcase their skills and creativity. Participants from various colleges competed in events like Instrumental Solo, where Abhiram from JIT secured second place. This fest not only celebrated talent but also promoted innovation, camaraderie, and cultural exchange. The event was overseen by prominent figures, including the institute's Academic and Managing Directors.

<u>BLUETICKS</u>

Born from the vibrant minds of Information Science Engineering students at JIT College,

Blueticks is more than just a start-up—it's a testament to the power of youthful creativity and technical prowess. Blueticks is an IT company that provides tailored solutions for creating high-quality web applications, delivering exceptional digital experiences. Founded by Satvik P Narayan and his dedicated team, Blueticks has successfully addressed numerous IT challenges, driving improved business outcomes. Vision - Everybody wants to build technology for big companies like Mc Donald's and Dominoes.
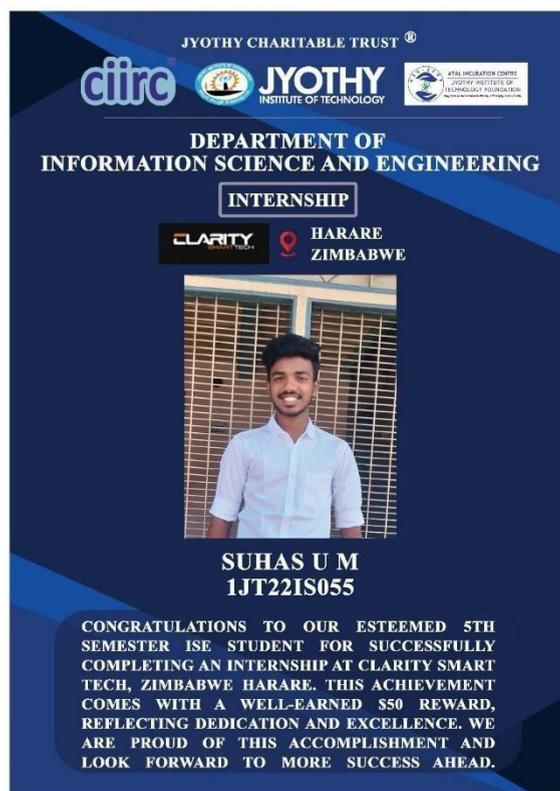
We are building technology for standing and eating fast food restaurants, small restaurant and cloud kitchens. The overview highlights how the startup leverages ONDC (Open Network for Digital Commerce) to enhance efficiency and satisfaction by streamlining kitchen orders and reducing delivery costs for both standing-eating restaurants and cloud kitchens. A special thanks to Shreyas Kashyap and Varun D Kumar for their initiative and support in building this startup and making a positive impact.

Notable Achievements and Recognition for Blueticks

•First Place at Ideathon 2023, organized by Atal Incubation
•2nd Runner-Up at V-LAUNCH PAD, hosted by Vellore Institute of Technology, Amaravati
•2nd Runner-Up at Xcelerate 2.0, presented by Shiv Nadar University, Delhi NCR

INTERNSHIP DETAILS

An internship is a structured professional experience that allows students or recent graduates to gain practical knowledge and hands-on experience in their chosen field. Internships typically last from a few weeks to several months and can be either paid or unpaid, depending on the industry and organization. During an internship, participants work under the guidance of experienced professionals, applying theoretical concepts learned in academics to real-world projects. This exposure helps them develop technical skills, soft skills like communication and teamwork, and a better understanding of workplace dynamics.

The Department of Information Science and Engineering proudly recognizes Suhas U M for his remarkable achievement. A 5th semester student, Suhas successfully completed his internship at Clarity Smart Tech, Harare, Zimbabwe. This international internship opportunity highlights his dedication to learning beyond the classroom. The prestigious internship comes with a well-earned $56 reward, acknowledging his contributions. His efforts exemplify the values of hard work, innovation, and commitment to excellence. We celebrate Suhas's drive to explore global technological advancements. His success story serves as an inspiration for fellow students at Jyothy Institute of Technology. The experience gained in Zimbabwe will undoubtedly broaden his professional horizons. Suhas has demonstrated that passion and persistence open doors to international platforms. The department extends heartfelt congratulations to him on this commendable accomplishment. We believe this is just the beginning of a bright and successful career. Suhas has set a shining example of academic and professional excellence. We take immense pride in nurturing talents like him within our institution. This milestone showcases the global impact of the training provided at our institute. Wishing Suhas U M even greater achievements and success in all his future endeavors.

Celebrating Our Recent Sports Achievements

On February 28, 2025, faculty members from Jyothy Institute of Technology (JIT) participated in the prestigious GBJ Cup 2025, an inter-collegiate sports event that attracts teams from various institutions across the region. Their participation highlighted the institute's commitment to fostering a well-rounded approach to education, where academic excellence is complemented by active involvement in extracurricular activities. The faculty team's exceptional performance, marked by strong teamwork, coordination, and sportsmanship, earned them the runner-up position, which was a significant achievement.

This competition served as a platform for faculty members to not only showcase their athletic skills but also promote the importance of maintaining a healthy lifestyle. The event reinforced the idea that personal well-being, through physical fitness and sports, plays a crucial role in enhancing mental focus and overall productivity, both in and outside of the classroom.

By actively participating in such events, JIT's faculty members set an example for students, demonstrating the importance of balancing work, fitness, and personal growth. Their success in securing the runner-up position was a source of pride for the institution, underscoring the faculty's dedication to self-improvement and holistic development.

The achievement also reflects JIT's broader educational philosophy, which encourages students and staff alike to engage in diverse activities beyond academics. This fosters a vibrant campus culture that values physical health, team collaboration, and personal well-being, making it an enriching

environment for everyone involved.

JIT's faculty members' involvement in sports also contributes to the sense of community within the institute, encouraging interaction and collaboration across various departments. The runner-up finish in the GBJ Cup 2025 not only strengthens the institution's reputation for all-around excellence but also reinforces its commitment to promoting an active, healthy, and engaging environment for both faculty and students.

This achievement highlights the importance of faculty engagement in extracurricular activities, showing that success can be achieved through dedication, teamwork, and a balanced approach to life. It serves as a powerful reminder of the values that Jyothy Institute of Technology upholds— encouraging personal development, fostering a strong sense of community, and nurturing well-rounded individual.

NSS REPORT : BLOOD DONATION CAMP

We express our heartfelt gratitude to the Redcross for their hospitality and support for doing our NSS activity.We express our special thanks to our cordinators and volunteers for their enthusiasm and Special thanks to Jyothy institute of technology for providing this platform to contribute to the society

INTRODUCTION

As part of the NSS initiatives, a Blood Donation Drive was organized at Jyothy institute of technology to emphasize the importance of blood donation in saving lives. The event aimed to raise awareness and encourage students and the public to contribute to this noble cause.

This initiative aligns with NSS's mission to foster community welfare and develop a sense of responsibility among students.

OBJECTIVES

1. To Save Lives: Highlight the significance of blood donation in saving lives and addressing emergencies.

2. To Raise Awareness: Educate participants and the public on the need for safe and regular blood donations.

3. To Foster Community Engagement: Encourage teamwork, leadership, and a service-oriented mindset among students.

4. To promote voluntary blood donation among youth

5. To create awareness about the importance of blood donation

6. To support patients in need of blood transfusionsEvent Description: NSS Blood Donation camp.

Date: 12th December 2024

Venue: Jyothy Institute of Technology

The National Service Scheme (NSS) unit of Jyothy Institute of Technology organized a blood donation camp on 12th December 2024, in collaboration with a reputed blood bank. The event aimed to encourage students, faculty, and staff to contribute to a noble cause and raise awareness about the importance of blood donation.

The camp witnessed enthusiastic participation, with over 100 donors stepping forward to donate blood. A team of medical professionals ensured a smooth and hygienic process, prioritizing the health and safety of the donors. The event included informative sessions about the significance of blood donation in saving lives, along with refreshments for participants.

The NSS team expressed gratitude to all the donors, volunteers, and healthcare professionals who made the event a success. This initiative highlighted the institute's commitment to community service and social responsibility.Pre-Camp Activities:

Awareness Drive: Posters, banners, and digital campaigns were conducted to promote the event.

Information Sessions: Talks and seminars were organized to educate participants about the process and benefits of blood donation.

BRANCH TOPPERS – 2024

Arfa Sheik and Ankitha Bhandary were the topper student from the department of ISE.

Pixel Paradigm

Rohan Kmar [1JT22IS038]

Mrudula [1JT22IS028]

<u>Whispers of the Soul</u>

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SUHAS U M [1JT22IS055]　　　　　　　Dilip S [1JT22IS015]

Editor's Note

Welcome to the latest edition of the ISE Department Newsletter! This edition highlights our department's achievements, innovative projects, and exciting events. From groundbreaking research in emerging technologies to hands-on workshops enhancing student skills, we continue to foster a culture of learning and innovation. We extend our gratitude to our faculty, students, and industry partners for their contributions and unwavering support. Stay connected as we explore the future of technology together!

Happy Reading!

Prof. Nandini D

Editor, ISE Department Newsletter