



DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

| ISE-THINKLET
2022 - 23 (OCT-APR)



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Department of Information Science and Engineering



Dr. DIVAKAR HAREKAL
Professor and Head

Message from the HOD

I am extremely happy that ISE-THINKLET 2022–23 (October - April) 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.

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. Divakar Harekal	Professor and Head	M.Tech., Ph.D
Dr. Kishore G.R.	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. Anupama V P	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

Non teaching faculty

Name	Designation
Mr. Abhilash G	Instructor
Mr. Prajwal Patil	Instructor
Mr.Rahul N	Instructor
Mr.Nithan N D	SDC

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SL NO	NAME	Designation
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6	Dr. Rekha B Venkatapur	Professor and Head CSE Dept, KSIT
7	Dr. Rekha PM	Professor and Dean, Academics, Dept of ISE, JSS Academy of Technical Education
8	Dr. Kishore G R	Associate Professor, ISE, JIT
9	Dr. Divakar Harekal	Prof and Head ISE, JIT

FACULTY PUBLICATIONS

Prof. Manjesh B N presented/published a paper titled “A Novel EHR Based Extraction and Association Techniques To Identify Prevalent Medical Conditions” at TIJER -International Research Journal during February 2023

Prof. Anupama Vijaykumar participated and presented a paper titled "Personalized E-learning System using Linear Regression for Intelligent Tutoring Systems" at Intelligent Computing and Communication (ICICC- 22) during 18th-19th November, 2022, held at GNITS, Hyderabad, India.

TECHNICAL TALK/WORKSHOP

Dr Kishore G R and Prof. Rashmi K S conducted a workshop on “Research paper writing for final year project” on 12th January 2023 at Jyothy Institute of technology.

Dr Kishore G R was invited as Resource Person for two days workshop on “Approach Towards Digital World” on 6th and 7th March 2023 at SIET,Tumakuru.

Prof. Manjesh B N successfully delivered a Technical Talk on “How to make a Presentation in Latex” on 2nd February 2023 at Adichunchanagiri University BGS Institute of Technology.

A Technical Talk was organized on December 3rd, 2022 on the topic “All about internships”. The Talk was delivered by Mr.Yash Shah, a specialist in the field of Big data at Dev-Ops Informatica.

A Technical Talk was organized on December 5th, 2022 on the topic “Cyber security and Cyber Forensics”. The Talk was delivered by Mr.Suresh Kumar B, founder and CEO, Texial and director of Incognito Forensic Foundation.

FACULTY CERTIFICATIONS

Mrs. Nandini D successfully attended the ACM-India CSEd Workshop held at IIT Gandhinagar in hybrid mode, and obtained Certification of Participation on December 23, 2022.

Mrs. Nandini D successfully participated in a Five-day online National-Level Workshop on “Deep Learning and its Applications” organized by the Department of Computer Science & Engineering, Kalpataru Institute of Technology, Tiptur held from "6th March 2023 to 10th March 2023", and obtained a Certification of Participation.

Dr. Kishore G R successfully completed the course Microsoft Azure Fundamentals, and obtained Microsoft Certification on March 13, 2023

Mrs. Anupama V P successfully participated in a Five-day online National-Level Workshop on “Deep Learning and its Applications” organized by the Department of Computer Science & Engineering, Kalpataru Institute of Technology, Tiptur held from 6th March 2023 to 10th March 2023 and obtained a Certification of Participation.

Ms. Rakshatha S successfully attended the Webinar on "Fostering Research & Innovation in Institutions for Strengthening Tomorrow" by Dr. Krishna Venkatesh and obtained a DELNET Certification on February 25, 2023.

Ms. Rakshatha S successfully attended the ACM-India CSEd Workshop held at IIT Gandhinagar in hybrid mode, and obtained Certificate of Participation on December 23, 2022.

Mrs. Rashmi KS successfully attended the ACM-India CSEd Workshop held at IIT Gandhinagar in hybrid mode, and obtained Certificate of Participation on December 23, 2022.

CONFERENCE/WORKSHOP/FDP ATTENDED

BY FACULTY

Prof. Nandini D successfully attended the ACM-India CSEd Workshop held at IIT Gandhinagar in hybrid mode, and obtained Certification of Participation on December 23, 2022.

Prof. Rakshatha S successfully attended the ACM-India CSEd Workshop held at IIT Gandhinagar in hybrid mode, and obtained Certification of Participation on December 23, 2022.

Prof. Rakshatha S successfully attended the Webinar on "Fostering Research & Innovation in Institutions for Strengthening Tomorrow" by Dr. Krishna Venkatesh and obtained a DELNET Certification on February 25, 2023.

Prof. Rashmi KS successfully attended the ACM-India CSEd Workshop held at IIT Gandhinagar in hybrid mode, and obtained Certification of Participation on December 23, 2022.

Prof. Anupama Vijaykumar successfully participated in a Five-day online National-Level Workshop on "Deep Learning and its Applications" organized by the Department of Computer Science & Engineering, Kalpataru Institute of Technology, Tiptur held from 6th March 2023 to 10th March 2023 and obtained a Certification of Participation.

Prof. Anupama Vijaykumar obtained a Microsoft Certification for successfully completing the Microsoft India & SAP India led Faculty Development Program on "Artificial Intelligence", held from "23rd Feb. 2023 – 25th Feb. 2023".

Prof. Nandini D successfully participated in a Five-day online National-Level Workshop on "Deep Learning and its Applications" organized by the Department of Computer Science & Engineering, Kalpataru Institute of Technology, Tiptur held from "6th March 2023 to 10th March 2023", and obtained a Certification of Participation.



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-profitable club that aims to help the students to bridge the gap between the theoretical and practical knowledge of the students in various fields of engineering at our college.

Roles and Responsibilities

- 1.F.R.I.D.A.Y - Deepthi G (7th Semester, ISE) - Lead of the club
- 2.Captain Code - Shishira S Bayari (7th Semester, ISE) - Lead of the club
- 3.J.A.R.V.I.S - Ujwal S C (7th Semester, ISE), R Jeevan Kashyap (7th Semester, ISE)- Coding geeks of the club
- 4.Code Siren - D K S Jahnavi (7th Semester, ISE), Sathvik P Narayan (7th Semester, ISE)- Evangulizers team
- 5.Napster - Prerana R (7th Semester, ISE), Venkat C (7th Semester, ISE)- Offline Activities Coordinator team
- 6.Code Cipher - Mahalakshmi H C (7th Semester, ISE), Ananya M N (7th Semester, ISE)- Online Activities Coordinators team.

Various activities held under the club

GAMEATHON

Gameathon is an annual event where people get together and develop a game over the 24 hours.It is an annual exhilarating contest for beginners and veterans alike to develop their innovative ideas into an engaging game. This gives an opportunity to every game developer to learn and master the skills required to create their own masterpiece. Student workshops were held on various technical topics for the betterment of the students.

GAMEATHON 5.0, was organized by the department with association of the student club BitsNBytes, it is one of the most interesting and popular events across the country. It is a 24-hour Game Development Competition.

Gmaeathon has reached another milestone last year,with 40 teams from all around the country participating and constructing absolutely incredible games. This year Gameathon 5.0 stepped up the game by opening up the event to global participants from various institutes.

This was the first year the department had taken the event to the international audience and it was a grand success! Gamethon 5.0 had over 200 teams (with 500 participants joining us on our vibrant campus on the D-Day) from over 20 colleges in Bangalore, over 10 colleges throughout India and over 3 Institutes across the world participating in this event.



STATE-LEVEL PROJECT EXHIBITION

The State Level Project Exhibition-2023 was organized by Adichunchanagiri Institute of Technology, Chikkamagaluru on 5th May 2023. The final year students – Gopika V Pillai, Priyanka R, Sahana C, and Sandhya H, participated and secured first prize for the project entitled “A Humanoid Model for Automated Accident Alert System” under the guidance of Prof. Rakshatha S.

Notably, the students secured first place out of fifty teams and energetic workplace culture, reinforcing values such as perseverance, discipline, and teamwork. JIT remains committed to

organizing such initiatives that promote holistic development, encouraging staff to stay active, motivated, and engaged in both their professional and personal lives.



Another team of final year students won second place in State Level Project Exhibition Protatva 2023 at RV Institute of Technology and Management, Bangalore. Under the guidance of Dr kishore G R. Team :Rachana ,Rakshitha, Suhasi ,and Prajwal.



INTERNSHIP ON DRONE ASSEMBLY

The Drone assembly Internship was conducted by the Centre for Incubation Innovation,

Incubation and Research Counsalty (CIIRC) . B S Shreesha and Hariharan Radhakrishnan took part in this internship and acquired knowledge on drone building which was conducted for a month. The internship involved making drones for national safety which was handed over to the Department of Armed Forces Govt. Of India. Totally 64 drones were assembled on the campus.



REPORT ON ‘ROBO OCEANA’

“ROBO OCEANA” is a competition that was held by Shastra at IIT Madras, the competition was all about building a hovercraft at the campus, making a video of it as suggested by them, and sending it to the team of Shastra for the further selection process. Students of ISE registered for the competition and started to build a hovercraft, they built a sample model of the hovercraft under the guidance of Autonomous System Labs and under the mentor ship of Dr. Kishore G R.



Participation Of Inter-Institute Events Within State

SL NO	Name	Date	Event	Organizer	Place	Remarks
1	Sudhanva N Kishore	18-02-2023	National Seminar on Sanskrit-IKS &ICT	NIAS	Bangalore	Participated
2	Tarun A	18-02-2023	National Seminar on Sanskrit-IKS &ICT	NIAS	Bangalore	Participated
3	Nikhitha A	18-02-2023	National Seminar on Sanskrit-IKS &ICT	NIAS	Bangalore	Participated
4	Nidhi M R	18-02-2023	National Seminar on Sanskrit-IKS &ICT	NIAS	Bangalore	Participated
5	Kushal v	27-04-2023	Protatva-23-State Level Project Exhibition	RVITM	Bangalore	Participated
6	Aishwarya A K	27-04-2023	Protatva-23-State Level Project Exhibition	RVITM	Bangalore	Participated
7	Ananya T K	27-04-2023	Protatva-23-State Level Project Exhibition	RVITM	Bangalore	Participated
8	Ankith Y Bounsle	27-04-2023	Protatva-23-State Level Project Exhibition	RVITM	Bangalore	Participated
9	Yamini Hari	27-04-2023	Protatva-23-State Level Project Exhibition	RVITM	Bangalore	Participated
10	Yamini Hari	20-04-2023	National Level Project Competition	RIT	Bangalore	Participated
11	Rashmi Bharadwaj	21-04-2023	National Level Project Competition	RIT	Bangalore	Participated
12	Varuni H Kulkarni	22-04-2023	National Level Project Competition	RIT	Bangalore	Participated
13	Rahul Kumar	23-04-2023	National Level Project Competition	RIT	Bangalore	Participated

14	Prajwal kumar	13-05-2023	Inter college project competition	BIT	Bangalore	Participated
15	Rachana Shekar Rao	13-05-2023	Inter college project competition	BIT	Bangalore	Participated
16	Rakshitha M	13-05-2023	Inter college project competition	BIT	Bangalore	Participated
17	SATHVIK S SHASTRY	06-05-2023	Symbiot	VVCE	Mysore	Participated
18	TEJAS TAGHAVENDRA	06-05-2023	Symbiot	VVCE	Mysore	Participated
19	VARUN V	06-05-2023	Symbiot	VVCE	Mysore	Participated
20	HC Prabhal Hollla	06-05-2023	Project Exhibition	VIT	Bangalore	participated
21	Balakrishna K	06-05-2023	Project Exhibition	VIT	Bangalore	participated
22	Karthik V	06-05-2023	Project Exhibition	VIT	Bangalore	participated
23	Mohith GR	06-05-2023	Project Exhibition	VIT	Bangalore	participated
24	Rachana Shekar Rao	06-05-2023	Project Exhibition	VIT	Bangalore	participated
25	Rakshitha M	06-05-2023	Project Exhibition	VIT	Bangalore	participated
26	Suhasi GS	06-05-2023	Project Exhibition	VIT	Bangalore	participated
27	Prajwal Kumar	06-05-2023	Project Exhibition	VIT	Bangalore	participated
28	Rachana Shekar Rao	06-05-2023	Paper Presentation	VIT	Bangalore	participated
29	Tejas Taghavendra	05-05-2023	State Level Hackathon	KSIT	Bangalore	Participated
30	Ujwal S C	05-05-2023	State Level Hackathon	KSIT	Bangalore	Participated
31	Suhasi GS	13-05-2023	Inter college project competition	BIT	Bangalore	Participated
32	Supriya K	26-08-2022	Smart India Hackathon	GOVERNMENT OF INDIA	ONLINE	Participated

List of Students Who Have Completed MOOC Courses

Sl no	USN	Name	Course Name	Date
1	1JT20IS013	Deepthi G	Introduction to Java	15-09-2022
2	1JT21IS053	Srivatsa G	AWS Cloud Foundations	21-10-2022
3	1JT21IS041	Ritu N D	AWS Cloud Foundations	22-10-2022
4	1JT21IS020	Hariharan Radhakrishnan	AWS Cloud Foundations	22-10-2022
5	1JT21IS056	Sudanva N Kishore	AWS Cloud Foundations	22-10-2022
6	1JT21IS008	Anirudh R Nijagal	AWS Cloud Foundations	22-10-2022
7	1JT21IS033	Nidhi M R	AWS Cloud Foundations	22-10-2022

NPTEL/EXTERNAL COURSES COMPLETED BY STUDENTS

SL NO	Name of the Student	USN	Course
1	Kushal V	1JT19IS016	Programming in Java
2	Venkat C	1JT20IS050	Programming in Java
3	Aneesh Krishna	1JT21IS005	Programming in Java
4	Hariharan R	1JT21IS020	Programming in Java
5	Nikhitha A	1JT21IS034	Programming in Java
6	Shreyas H K	1JT21IS050	Cloud Computing and Distributing Systems
7	Vishesh V	J1T21IS061	Programming in Java

FARM VISIT

On January 16th, 2023, students of the 3rd semester embarked on an enriching educational excursion to Good Way Organics, a pioneering organic farm located in Bengaluru, India. This unique field trip was organized to provide students with first-hand exposure to sustainable agricultural practices, organic farming techniques, and innovative waste management solutions.

The visit was led by Mr. Mahendra Kumar, a passionate Agri-Entrepreneur and the visionary founder of Good Way Organics, whose expertise in organic farming has inspired many aspiring agriculturalists. Accompanying the students was Prof. Nandini D, who played a crucial role in guiding the learning experience and facilitating discussions on sustainable farming practices.

Throughout the excursion, students had the opportunity to explore various aspects of organic farming, including soil preparation, composting, natural pest control methods, and eco-friendly waste recycling techniques. They observed how Good Way Organics integrates traditional farming wisdom with modern innovations to cultivate chemical-free produce while maintaining ecological balance.

Additionally, the visit provided an interactive platform for students to engage in discussions with farm experts, understand the challenges faced by organic farmers, and explore potential career paths in sustainable agriculture. Hands-on activities, such as composting demonstrations and organic crop management sessions, further enriched their learning experience.

Overall, the field trip was an eye-opening experience that deepened the students' understanding of organic farming and waste management while emphasizing the importance of environmental sustainability in modern agriculture.

Beyond just technical knowledge, the visit provided valuable insights into the challenges faced by organic farmers, such as market competition, certification hurdles, and climate change adaptation. Students actively engaged in discussions with farm experts, gaining a deeper appreciation for the dedication and perseverance required to practice sustainable farming in today's rapidly evolving agricultural landscape.

In addition to learning about agriculture, the students enjoyed a guided farm tour, where they observed a variety of organically grown crops, including vegetables, herbs, and medicinal plants. They also interacted with farmworkers, gaining a better understanding of the labor-intensive yet rewarding nature of organic farming.

Overall, the visit to Good Way Organics was an eye-opening experience that not only enhanced the students' knowledge of organic farming and waste management but also inspired them to consider the impact of sustainable agriculture on global food security and environmental conservation.

The excursion reinforced the idea that responsible farming practices are essential for building a healthier future and encouraged students to explore innovative ways to contribute to the field of sustainable agriculture.

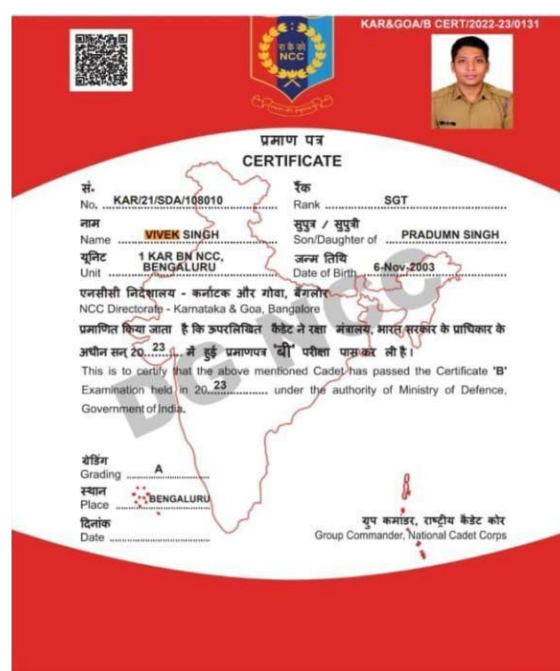


NCC CERTIFICATION

We are proud to announce that Vivek Singh, a dedicated student from the ISE department, has successfully cleared the prestigious “B Exam” under the Authority of the Ministry of Defence. This remarkable achievement highlights his commitment, perseverance, and unwavering dedication to discipline and national service.

The “B Exam”, conducted as part of the National Cadet Corps (NCC) training program, is a highly regarded certification that tests candidates on their physical endurance, leadership skills, military knowledge, and commitment to service. Clearing this exam requires rigorous training, immense discipline, and a deep understanding of military drills, weapon handling, map reading, disaster management, and leadership principles.

Vivek’s success in this challenging examination is a testament to his determination, hard work, and strong sense of duty. The NCC program, known for instilling values of patriotism, teamwork, and resilience, prepares cadets to take on leadership roles in both military and civilian domains. By passing the B Certificate Examination, he has demonstrated exceptional proficiency in military training, physical fitness, and theoretical knowledge, setting a strong foundation for future endeavors in defense services or leadership roles.



Editor's Note

Greetings from the ISE Department!

We are excited to bring you this edition of our newsletter, showcasing the remarkable achievements, research advancements, and hands-on learning experiences within our department. From industry collaborations to student-led innovations, we continue to push the boundaries of technology and education. A heartfelt thanks to our faculty, students, and partners for their dedication and support in making these initiatives a success. We look forward to sharing more inspiring stories and milestones in the journey ahead.

Happy Reading!

Prof. Nandini D

Editor, ISE Department Newsletter