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Informatioon Science and Engineering Department 2023

JYOTHY
INSTITUTE OF TECHNOLOGY

Department of Information Science and Engineering

Dr. DIVAKAR HAREKAL
Professor and Head

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 learning methodology

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

M3: To promote activities to inculcate ethical practices and entrepreneurial Skills

Message from the HOD

I am extremely happy that **JITimes 2022-23(Oct-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 produces 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.

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.
Mr. Manjesh B N	Assistant Professor	M.Tech, (Ph.D)
Mrs. Anupama V P	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, (Ph.D)
Mr. Avinash N Rao	Assistant Professor	M.Tech

Non-Teaching Staff

NAME OF STAFF	DESIGNATION
Mr. Abhilash G	Instructor
Mr. Prajwal Patil	Instructor
Mr.Rahul N	Instructor
Mr.Nithan N D	SDC

Department Advisory Board

N A M E	D E S I G N A T I O N
Dr. Dinesh R	Principal Engineer, Samsung Electro-Mechanics
Dr. R Balakrishna	Professor, CSE Dept., Rajarajeshwari College of Engineering
Dr. S. Balaji	Professor, CSE Dept., JIT
Dr Divakar Harekal	Professor and Head, Department of ISE, JIT

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.

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.

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**.

GAMEATHON

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.

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-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

●Project Exhibition:
Project exhibition was held as a national level inter-collegiate event in association with CSI, which was held online where students can showcase their projects on various topics. It was started in the year 2021.

●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.
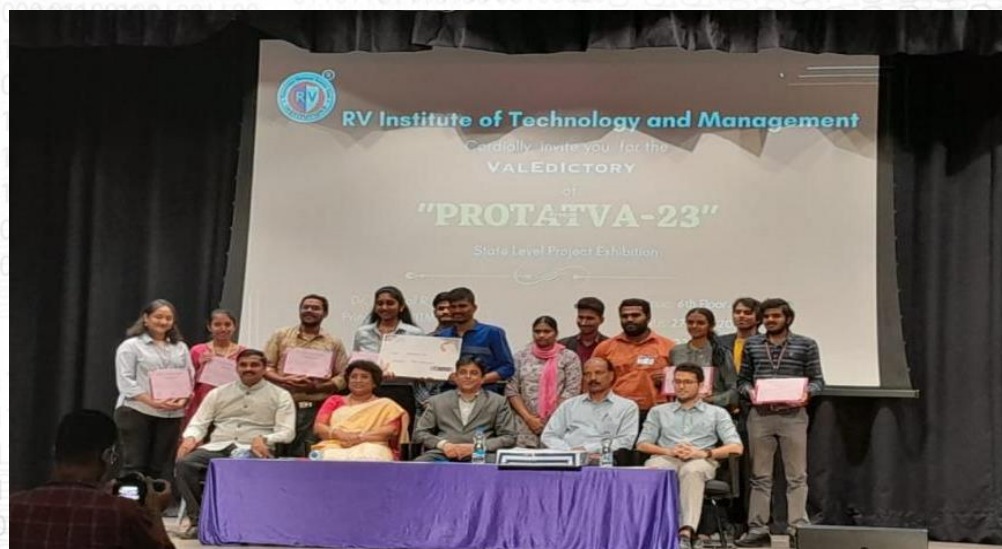
Basics of Java Programming Workshop

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.

- 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

PROJECT EXHIBITION

Jyothy Institute of Technology conducted Project Exhibition for the final year students across all the departments of the college.
Department of ISE invited Dr. Vindhya P Malagi HoD-AIML, DSCE as the Jury for the event, where all the students participated were showcased their projects.

First place was won by:

USN	Student Name	Guide	Project Title
1JT19IS036	Rachana Shekar Rao		
1JT19IS038	Rakshita M	Dr. Kishore G R	Categorizing grievances given through a voice input system using NLP
1JT19IS031	Prajwal Kumar		
1JT19IS050	Suhasi G S		

Second place was won by:

USN	Student Name	Guide	Project Title
1JT19IS016	Kushal V		
1JT19IS004	Ananya T K		Hand Gesture Control using Computer vision technology
1JT19IS002	Aishwarya A K	Prof. Nandini D	
1JT19IS005	Ankith Y Bhounsle		

INTERNSHIP ON DRONE ASSEMBLY

The Drone assembly Internship was conducted by the **Centre for Incubation Innovation, Incubation and Research Counsaltancy (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 **Shaastra 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 shaastra 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.

FARM VISIT

On January 16th, 2023, students of the 3rd semester embarked on an educational excursion to **Good Way Organics**, a unique farm located in Bengaluru, India. This extraordinary field trip was led by Mr. Mahendra Kumar, an Agri-Entrepreneur and the founder of Good Way Organics. The objective of the visit was to provide students with practical insights into the world of organic farming and waste management led by Prof. Nandini D.
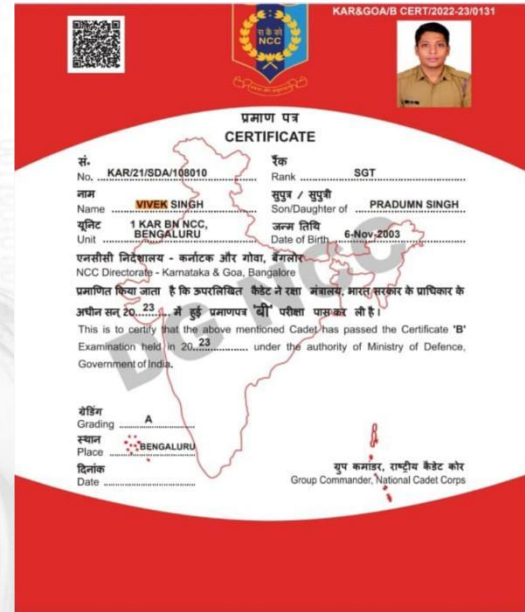
NCC CERTIFICATION

Vivek Singh from the department has cleared the **"B Exam"** under the **Authority of Ministry of Defence.** Passing the NCC exam is a testament to dedication, where discipline and honor meet in preparation.

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

EDITOR'S NOTE

I'm glad to work as editor for the Department Newsletter, 'BITS &BYTES'. This issue is a good one to go out on, in part because it celebrates , starting with the achievements of our faculty members, students and their active participation in many events. I will end this note with bottom-of-my-heart thanks to many people whose hard work goes into the production of each issue. I would specially like to thank the Head of the department, Dr. Divakar Harekal   and Asst. Prof. Nandini D who helped us throughout in making this newsletter a huge success.

-NIDHI MR & EESHA BALIGA