Information Science and Engineering Department 2023

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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 (JUNE – SEPTEMBER)** 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

FACULTY PUBLICATIONS

- Prof. Anupama Vijaykumar successfully attended the AICTE Recognized Faculty Development Programme on **Open Source Cyber Security Tools** Conducted by Information Management and Emerging Engineering Department, held from 22/08/2022 to 26/08/2022 (One Week) and obtained **Certification of Participation**.

- Prof. Manjesh BN obtained a **Certificate of Appreciation** for contributing as **reviewer for First IEEE International Conference on Data Science and Network Security (ICDSNS – 2023)** organized by Kalpataru Institute of Technology, Tiptur, held on 28th and 29th July 2023.

- Prof. Manjesh BN obtained a **Certificate of Appreciation** for contributing as **session chair for First IEEE International Conference on Data Science and Network Security (ICDSNS – 2023)** organized by Kalpataru Institute of Technology, Tiptur, held on 28th and 29th July 2023.

STUDENT RESEASRCH PUBLICATIONS

- **Dr. Divakar H** , Pragna CP (1JT19IS029), Padmaja K (1JT19IS027), Lavanya MS (1JT19IS017), and Nikhil Dhruva L (1JT19IS023), **Image encryption using Cryptography , Selected for funding from KSCST: 46th Series of Student Project Programme.**

- **Dr. Kishore G R**, Thanmay Bharadwaj (1JT19IS053), Inchara J A (1JT19IS012), Sanjana Harish H (1JT19IS043), and Manthan B M (1JT19IS020), **Machine Learning based Diabetics wound recognition using Poly approximation algorithm, Published paper in TIJER journal May 2023 in the domain of Health Science.**

- **Dr. Kishore G R**, Anusha M S (1JT19IS006), Amrutha M (1JT19IS003), Preksha S (1JT19IS033), and Shashank Purohit (1JT19IS046), **Design and Development of IoT-based Improved Electric Smart Meter to monitor domestic energy consumption , Paper Published : UGCARE Journal TIJER - INTERNATIONAL SPACE RESEARCH JOURNAL**

- **Dr. Kishore G R**, Rachana Shekar Rao (1JT19IS036), Rakshita M (1JT19IS038), Preksha S (1JT19IS033), Prajwal Kumar(1JT19IS031) and Suhasi G S(1JT19IS050), **Design and Development of IoT-based Improved Electric Smart Meter to monitor domestic energy consumption , Paper Published : UGCARE Journal TIJER - INTERNATIONAL SPACE RESEARCH JOURNAL**

- **Prof. Nandini D**, Kushal V (1JT19IS016), Ananya T K (1JT19IS004), Aishwarya A K (1JT19IS002), and Ankith Y Bhounsle (1JT19IS005), **Hand Gesture Control using Computer vision technology**, 1. **Paper Published in the prestigious TIJER publication, which is a testament to the high-quality research and hard work put forth by our team. 2. Participated in the RV Project Exhibition 2023**

- **Prof. Manjesh B N**, Adarsha K (1JT19IS001), Darshan N (1JT19IS008), Nithin Kumar P (1JT19IS025) and Prajwal K (1JT19IS030), "Malware

- **Prof. Nandini D** , Karthik V (1JT19IS014), Balakrishna K (1JT19IS007), Mohith G R (1JT19IS022), and H C Prabal Holla (1JT19IS010), **Extended Reality for enhancing student learning** , **1. Selected for funding from KSCST: 46th Series of Student Project Programme. 2. Participated in the project exhibition at Vemana College of Engineering. 3. Paper publication under process in Computer Science and Information Systems [ComSIS] journal**.

- **Prof. Anupama V P**, Jayashree K (1JT19IS013), Pranitha S Urs (1JT19IS032), S.Prateeksha sharma (1JT19IS040) and Supriya K (1JT19IS052), **"A review on Outcome based education through learning management systems",** Published paper in IJERT journal 2023 based on the domain Artificial Intelligence and Education.

- **Prof. Anupama V P** , Megha V (1JT19IS021), Nishmitha R Bhat (1JT19IS024)and Sharanya B R (1JT18CS046), 2022, **"A survey on Heart disease prediction model "**, Paper Published in IRJMETS issue 2023

- **Prof. Rashmi K S** , Yashwanth B L (1JT19IS056), Priyanka Suresh (1JT19IS035), Rakshith Gowda C (1JT19IS057), and Sharada Varshini (1JT18IS053), "Maize crop yield estimation using Image Processing and Machine Learning" , The project is approved and carried out at **ISRO-RRSC** south under the guidance of Vinod P V senior scientist and engineer **ISRO Bangalore**

- **Prof. Rashmi K S** , Yamini Hari (1JT19IS055), Varuni H Kulkarni(1JT19IS054), Rashmi R Bharadwaj (1JT19IS039), and Rahul Kumar (1JT20IS400), "A deep learning based decision support system for breast cancer cell grading", Participated in **National level project competition at MSRIT, 2023** and Participated in a **State level project exhibition at RVITM, 2023**

- **Prof. Rakshatha S** ,Gopika V Pillai (1JT19IS009),Priyanka R (1JT19IS034),Sahana C (1JT19IS041) and Sandhya H(1JT19IS042), "An IoT based-automated accident alert system:a simulation" participated in **NLPC 2023(M.S.Ramaiah) ,State-level Project Exhibition(Chikkamagaluru) secured I place.**

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

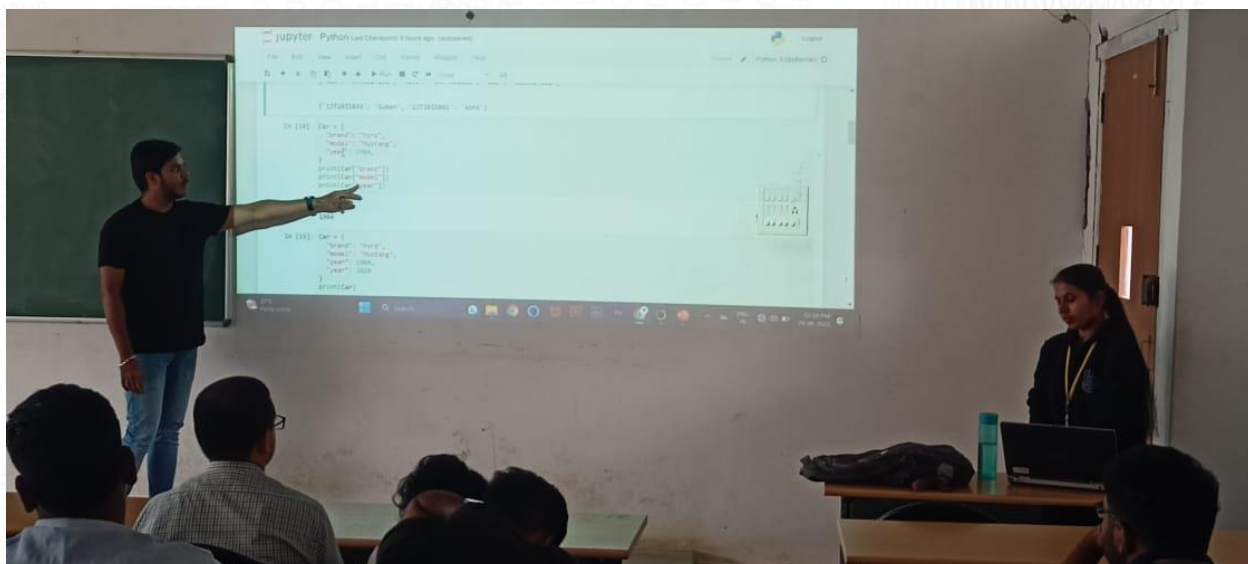## Various activities held under the club

●**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.

Python Programming Workshop

INDUSTRIAL VISIT REPORT: ISRO MASTER CONTROL FACILITY, HASSAN

On the 18th of August 2023, the students of 4th semester students had the opportunity of visiting the **Indian Space Research Organization (ISRO) Master Control Facility (MCF) - Hassan**. The visit provided the students with a comprehensive insight into the intricate world of satellite technology, its functions, and the impressive efforts that go into managing space operations.

JYOTHY PREMIERE LEAGUE

Dr Kishore G R from ISE department and Dr Manoj Kumar M from CSE department won 1st in the JPL table tennis conducted on 7th August 2023.

BRANCH TOPPERS 2023

KARTHIK V USN: 1JT19IS014	Sem	GPA
	I	9.45
	II	9.85
	III	9.17
	IV	9.17
	V	8.92
	VI	8.92
	VII	9.15
	VIII	9.5

Cum. GPA (CGPA): 9.27

ANANYA T K USN: 1JT19IS004	Sem	GPA
	I	8.25
	II	8.95
	III	7.92
	IV	8.33
	V	8.32
	VI	8.58
	VII	8.6
	VIII	9.5

Cum. GPA (CGPA): 8.56

ANANYA T K (1JT19IS004) of Department of information science and Engineering clinched the coveted the OVERALL BEST OUTGOING STUDENT award for the AY 2022 - 23. She earned a GOLD RING, while the other nine students the institution.

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.

-SHANKAR J & SHREYAS H K