

Industrial Visit to Karnataka Milk Federation (KMF) on 07-02-2023 by the students of 8th sem ISE



Students of 8th semester facilitating 100% Digitized Money Transaction at Kamadhenu Ashrama, Hassan



Swatch Bharath on 19-05-2023at Kamadhenu Ashrama Hassan by the students of 4th semester

AICTE Activity by Students





6th-semester students of the Department of Information Science and Engineering (ISE) visited **Kaamadenu Ashrama** on 07/04/2023 as part of an AICTE activity.

Cultural and Sports Activity





Cultural activities are non-academic pursuits that provide students a platform to explore their interests and develop aesthetically, artistically, historically, intellectually, or socially. ***Swarit - 2023:*** An anuual function organized by RIT from 13/03/2023 to 20/03/2023.

FDP attended by Faculties

- **Mrs.Nalini H C** Participated in the 5 DAY International Virtual FDP from 02/01/2023 to 06/01/2023 on **"Personality Grooming - Handling Stress and Emotional Intelligence"** organized by IQAC & Department of Commerce with Information Technology of PPG College of Arts and Science, Coimbatore, Tamilnadu.
- **Mrs.Nalini H C** Participated in the One Week Online Faculty Development Programme from 13/02/2023 to 18/02/2023 on **"Machine Learning in Big Data Analytics, Principles, Techniques and Challenges"** organized by Department of Computer Science and Engineering and secured "Grade-A+" in Final Assessment.

Faculty Achievements

- **Dr. Prathibha G**, Associate Professor, Dept. of IS&E, honored with "**Best woman Scientist award**" in National faculty award 2022-23 by Novel Research academy, Puducheary, India on 13th Feb 2023.

Student Achievements

- Students from the 6th and 8th semesters of the Department of Information Science and Engineering have excelled in the **'Pragmatic Approach to Cyber Security'** assessment by **CDAC Hyderabad.**



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Infosci Insights

Department of Information Science and Engineering



DEPARTMENT NEWSLETTER

VOLUME 4 | ISSUE 1, JAN - JUNE 2023

EDITORIAL BOARD
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Ishtartha P D 4th sem
Mrs. Nalini H C Asst. Professor
Mr. Anil Kumar K N Asst. Professor

MESSAGE FROM THE DESK



I am delighted to reflect on the remarkable achievements and significant milestones we reached in the field of Information Science and Engineering in first 6 months of 2023. It has been a growth, innovation, and collaboration, and I would like to share some highlights with you. Our department continues to be a hub of creativity and learning. We've witnessed groundbreaking research, exceptional student projects, and faculty accomplishments that have further solidified our reputation as a center of excellence in Information Science and Engineering. One of the highlights of 2023 was the successful workshop on Augmented Reality (AR) and Virtual Reality (VR). This event brought together experts and enthusiasts to explore the vast potential of AR and VR technologies. Attendees had the opportunity to delve into the practical applications of these immersive technologies, and it was truly inspiring to witness the creativity that emerged from this workshop. Our Center of Excellence in AR/VR has been instrumental in providing internship opportunities for lateral students. These internships bridge the gap between classroom learning and real-world application. They offer a unique chance for students to gain hands-on experience in the fast-evolving field of AR and VR, setting them on a path to success in this exciting domain. Our department took a significant step in promoting global collaboration and knowledge exchange by organizing the International Conference on Advances in Computing, Control, and Telecommunication Technologies. This conference brought together experts and thought leaders from around the world to discuss and share their insights on the latest developments in these critical fields. Cybersecurity remains a paramount concern in our digitally connected world. To equip our faculty with the latest knowledge and skills in this area, we organized a comprehensive 10-day Faculty Development Program in collaboration with CDAC. This program aimed to enhance our faculty's expertise in cybersecurity, enabling them to better educate our students on this vital subject. Blockchain technology continues to disrupt various industries, and to ensure that our faculty stays at the forefront of this revolution, we conducted a 7-day Faculty Development Program focused on blockchain. This program explored the intricacies of blockchain technology and its potential applications in various domains.

I want to express my gratitude to each and every one of you for your dedication, hard work, and passion in contributing to our shared success. As we look ahead, I am confident that together we will achieve even greater heights in the field of Information Science and Engineering.

VISION

To be a center of excellence in Information Science and Engineering education by creating competent professionals to deal with real-world challenges in the industry, research and society.

MISSION

- To empower students to become competent professionals, strong in the basics of Information science and engineering through experiential learning.
- To strengthen the education and research ecosystem by inculcating ethical principles, and facilitating interaction with premier institutes and industries around the world.
- Promote innovation and entrepreneurship to fulfill the needs of society and industry.

PSO *(Program Specific Outcomes)*

- Analyse and develop software applications by applying skills in the field of coding languages, algorithms, operating systems, database management, web design and data analytics.
- Apply knowledge of computational theory, system design and computer network concepts for building networking and internet-based applications.

PEO *(Program Educational Objectives)*

- Analyse, design and implement solutions to real-world problems in the field of Information Science and Engineering with a multidisciplinary setup.
- Pursue higher studies with a strong knowledge of basic concepts and skills in Information Technology disciplines.
- Adapt to emerging technologies towards continuous learning with ethical values, good communication skills, leadership qualities and self-learning abilities.

Workshop on

AUGMENTED REALITY & VIRTUAL REALITY





Five-days Hands on Workshop on **Augmented Reality** and **Virtual Reality** organized by Department of Information Science and Engineering under IQAC In association with ARK and unity from 26 April 2023 to 30 April 2023. The objective of this five-days workshop is to introduce students and faculty members to Unity, a leading software platform for developing interactive 3D and 2D content, with a focus on Augmented Reality (AR) and Virtual Reality (VR). The program aims to provide participants with hands-on experience in developing AR and VR applications using Unity, along with an understanding of the underlying technologies and best practices in AR and VR development.

Topics Covered: Introduction to unity, Player Movement (Translate, Rotate, Scale, Rigid Body & Physics),Camera Settings & Animations, Move the Player around , Collisions and triggers , Move the player around an obstacle course , Unity UI basics Importing images and, Setting Sprite sheets Button listeners, Scroll bars and layout groups , Setting up a Menu, Unity Scripting Basics, Arrays and Lists, Tags and Layers, Raycasting and Raycasting exercise, Scene Management, Lighting Animations in unity. Nav mesh setup, Behaviour Scripts, Move objects in a navMesh, Classes in unity, Setting Level Data, AR Demo and Experience and VR Demo and Experience

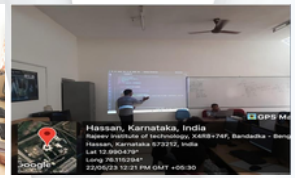
Guests: VISWESWARAN J, Country Manager, ARK Infosolutions, Bengaluru. DEVAKUMAR R., Sr. Developer, Highbrow Interactive, Chennai

Attendees: NAGENDRA PRASAD H K, Asst. Professor, Dept of E&EE,RIT Hassan. MEGHA H C, Asst. Professor, Dept of CS&E, RIT,Hassan. ANIL KUMAR K N Asst. Professor, Dept of IS&E, RIT,Hassan. NALINI H C Asst. Professor , Dept of IS&E, RIT,Hassan. RAVI L S Asst. Professor , Dept of E&CE, RIT,Hassan . SHARATH M N Asst. Professor, Dept of CS&E, RIT,Hassan. VINAY L Asst. Professor, Dept of ME, RIT,Hassan. Students of Dept. ISE,CSE and ECE.

Internship for Lateral Entry students on,

"Unity 2D & 3D Game development"





An internship is a professional learning experience that offers meaningful, practical work related to a student's field of study or career interest an internship gives a student the opportunity for career exploration and development, and learn new skills. Internship for lateral entry students on Unity Game development was conducted by the department of Information science and engineering in association with Unity and ARK from 17th May 2023 to 5th May 2023.

Topic Covered:

Module 1: Unity Curricular Overview, Game Development Breakdown, Real-time game engines, Unity Interface and Asset store.
Module 2: Creating Scenes with models, Creating Terrain, Physics
Module3: Shader Graph, Cinemachine and Lighting
Module 4: 2D Animation and Development, C# Skills for Unity Sound
Module 5: Debugging and Code review, Built Setting and Deployment

International Conference on

"Advances in Computing, Control, and Telecommunication Technologies-ACT 2023"





International Conference "Advances in Computing, Control, and Telecommunication Technologies-ACT 2023" ACT 2023, aims at bringing together the researchers, scientists, engineers, and scholar students in all areas of Computer Science, Control Engineering, Electrical and Electronics and Telecommunication Technology, and provides an international forum for the dissemination of original research results, new ideas and practical development experiences which concentrate on both theory and practices. The conference focuses on the frontier topics in the Computer Science, Electrical, Electronics and Telecommunication and Engineering subjects. The conference will be held on June 15th and 16th 2023 in Main Seminar Hall with the Chief Guest Dr.D S Guru, Guest of Honour Dr. H.S. Nagendraswamy, Hon. President Dr. Rachana Rajeev, Hon. Secretary Dr. Rathna B.N, Hon. Vice President Dr. Ranjith Rajeev, patron Dr. Mahesh P.K., General Chair Dr. H.N. Prakash, Organizing Chair Dr. Arjun B.C. to make it an ideal platform for people to share views and experiences in Information, Telecommunication, Computing Techniques and related areas. The conference is jointly organised by the IDES and the Rajeev Institute of Technology, Karnataka.

FDP on **Cyber Security**

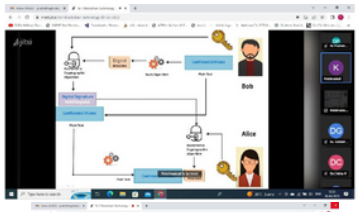


10 DAYS Online FDP ON **"CYBER SECURITY ESSENTIALS"** was organized by Dept. IS&E, RIT, Hassan in Association with CDAC-Hyderabad from 15-Feb-2023 to 28-Feb-2023. Objectives of the workshop was to Covers the aspects of Network Security, End System Security, identification of threats and vulnerabilities in an application and their deployments, monitoring the event logs and alarms for possible threats and troubleshooting. It Offers virtual labs through which participants gains hands-on training on various security tools with an aim to detect and mitigate Cyber Security threats. Well-structured courses delivered by R&D Experts with support for Virtual Labs. Provide comprehensive exposure to End system, Network and application Security.

Course benefits: The bridge course is to equip staff with IT professionals experience with strong fundamentals in the Cyber Security domain. This course builds core competencies in the area of Network, End System and Application Security that acts as a bridge for advanced deep skilling courses which are aligned to National Occupational Standards (NOS) defined under the National Skill Qualification Framework (NSQF).

Speakers: Mr.Venkatesh, Mr.ChasMurty, Ms.Jyostna G, Mr.Sai Gopal T, Mr.Nandeeshwar B, Mr.TyebNaushad, Ms.Indraveni K, Mr.P R KSastry, Mr.Sandeep Romana.

FDP ON **"BLOCKCHAIN TECHNOLOGY"**





7 DAYS Online FDP ON **"BLOCKCHAIN TECHNOLOGY"** From 09-Mar-2023 to 17-Mar-2023 was Organized by **Department of Information Science and Engineering, Rajeev Institute of Technology, Hassan In association with CDAC – Hyderabad.** • Objective of the course is to build expertise in analyzing the feasibility of enabling Blockchain in their organization/department applications. • Overview of Blockchain Technology, architecture and other required background will be discussed in detail during the course. • It also covers Cryptography essentials and how these are implemented in Blockchain Platforms. • Course includes Hands-on sessions on Ethereum Blockchain platform, Hyperledger Fabric 2.0, MongoDB, Node Js.

Blockchain is the most Emerging Technology in the decentralized information system. It is the distributed ledger and shared ledger Technology used by multi parties to establish trust between each other. It enables i. Trust in data/ Asset transfers ii.Immutable Transactions logs for auditing purposes and iii. Authentication & Authorization. It improves the transaction networks such as Government, Supply Chain, Banking, Healthcare, etc. which makes the process more feasible for trading in the digital world reliable and secure. Blockchain Technology also enables a new way of development and enhance the applications across a network of participants.