COMP SCI BYTES

Biannual Technical Magazine

DEPARTMENTAL ACTIVITIES:

1. A 5-day workshop on *AI Applications* was conducted for 4th-semester students.

2. Department hosted **TechFusion 2024**, showcasing 30 innovative student prototypes.

3. Organized an expert session on *Cyber-Physical Systems* for final-year students.

GUEST LECTURES – DELIVERED BY THE FACULTY:

• Dr. Asha Rao delivered a lecture on *Federated Learning in Healthcare* at NITK.
• Prof. Sunder presented *Secure Data Encoding* at JSS Science & Technology University.

GUEST LECTURE/S – INVITED:

• Mr. Vivek Rao (Adobe) presented "Modern Frontend Architectures for Scalable Web Platforms."
• Dr. Kavita Gopal (IISc) delivered a talk on "Deep Learning Approaches for Biomedical Imaging."

FACULTY PUBLICATIONS IN (NATIONAL / INTERNATIONAL) JOURNALS:

Sl. No	Title of Publication	Journal Details	Faculty Name
1	Optimized CNN Model for Medical Scan Analysis	Elsevier, 2024	Dr. Meera
2	Low-Latency IoT Algorithms for Smart Mobility	IJCA, 2024	Prof. Gautham
3	Secure P2P Blockchain Auditing	Springer, 2024	Prof. Rakesh

FACULTY PUBLICATIONS IN (NATIONAL / INTERNATIONAL) CONFERENCES:

Sl. No	Title	Conference	Faculty Name
1	Lightweight Encryption Models	IEEE ICMLA 2024	Prof. Divya
2	Drone-Assisted GIS Modelling	ACM SIGSPATIAL 2024	Dr. Shankar

FACULTY ACHIEVEMENTS:

• Dr. Preethi awarded **Young Researcher Award 2024**.
• Prof. Alok selected as Mentor for **Smart India Hackathon 2024**.

FUNDED PROJECTS:

Project Title	Funding Agency	Amount	Faculty PI
AI-Driven Soil Nutrient Analysis	DST	₹6,50,000	Dr. Latha
Vision-Based Autonomous Wheelchair	MSME	₹7,20,000	Prof. Kumar

PATENTS:

Patent Title	Status	Application Number
Wearable Health Index Monitor	Filed	2024/001234
Real-Time Vehicle Motion Predictor	Published	2024/004321

STUDENT PUBLICATIONS:

Sl. No	USN	Name	Publication Details
1	1RT21CS001	Anagha R	"Smart Irrigation Using IoT", IJERT 2024
2	1RT21CS078	Manoj S	"Sign Language Recognition using DL", Springer LNCS
3	1RT20CS114	Riya P	"AI-Assisted Study Planner", IEEE Xplore

STUDENT ACHIEVEMENTS:

Co-curricular Activities

Sl. No	Name of Student	USN	Sem	Activity	Award/Honor	Level
1	Pooja R	1RT21CS012	6	Code-a-thon 2024	Winner	State
2	Sharan M	1RT20CS045	7	Data Science Challenge	Runner-Up	National

Extra-curricular Activities

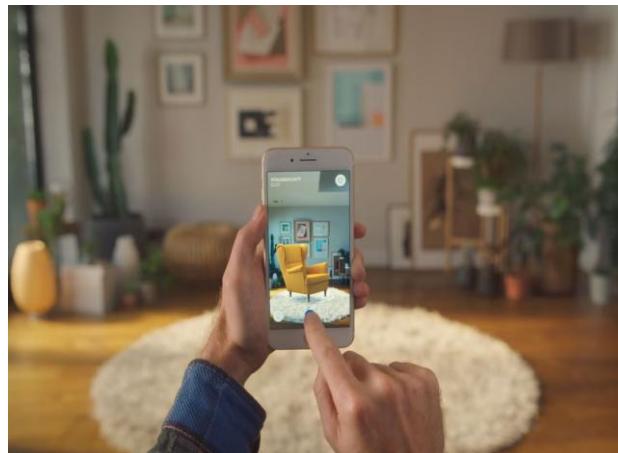| Sl. No	Name of Student	USN	Sem	Activity	Award/Honor	Level
1	Rithika R	1RT21CS031	6	Classical Dance	Gold Medal	State
2	Madhav K	1RT20CS063	7	Volleyball	Bronze Medal	VTU

PLACEMENT AND HIGHER STUDIES RECORD:

Placement Details

Program	Total Students	Registered	Placed	Percentage	Min/Max Package
UG	165	150	138	92%	₹3.6 LPA / ₹18 LPA
PG	24	22	17	77%	₹4.2 LPA / ₹12 LPA

Higher Studies

Sl. No	Name	USN	PG/PhD	University	Place
1	Aisha Q	1RT20CS077	MS	University of Toronto	Canada
2	Rohan S	1RT21CS022	M.Tech	IISc Bangalore	India

TECHNICAL ARTICLES:

Augmented Reality vs Virtual Reality - Exploring The Battle of Immersive Technologies

Augmented Reality (AR) overlays virtual elements onto real environments, enhancing user perception.
Virtual Reality (VR) immerses users into digitally created worlds using specialized headsets.
Both technologies have applications in simulation, healthcare, training, education, gaming, and design.