



INDIAN INSTITUTE OF  
INFORMATION  
TECHNOLOGY

# ANNUAL REPORT

वार्षिक प्रतिवेदन

2024-2025

 [iiitdwd.ac.in](http://iiitdwd.ac.in)

 Ittigatti Road, Near Sattur Colony  
Dharwad - 580009.



# Chairperson's Message



It gives me immense pride to address the vibrant and growing community of young minds at IIIT Dharwad, an Institute of National Importance built on the foundation of excellence, innovation, and inclusivity.

As the Chairperson of the Board of Governors, it is both an honour and a responsibility to guide an institution that not only imparts technical education, but also fosters ethical leadership, social responsibility, and purposeful innovation.

As you embark on your journey through the ever-evolving world of technology, I urge you to look beyond the conventional. The future will not be shaped by degrees alone, but by the depth of your curiosity, the practicality of your skills, and the authenticity of your intent. A vision without committed action remains a distant dream, but when purpose and perseverance come together, transformation becomes inevitable.

India's strength lies not just in its cities, but also in its villages, small towns, and the untapped potential scattered across our vast landscape. At Zoho, and in my personal journey, I have seen firsthand that real transformation happens at the grassroots. Whether in urban hubs or rural communities, talent knows no boundaries. Let us not limit our dreams to glass towers in metros. India's rural heartland holds immense potential, waiting for innovators like you to engage, build, and uplift.

IIIT Dharwad, nestled in the twin cities of Hubballi-Dharwad, is uniquely positioned to bridge the aspirations of cutting-edge technology with the grounded realities of India. With a strong academic foundation in Computer Science, Electronics, and Data Science

& AI, this institute is emerging as a catalyst for decentralized and inclusive innovation, not just for Karnataka, but for the nation at large.

While you acquire domain knowledge and technical expertise, I encourage you to also develop roots in values like integrity, humility, and service. True success is not measured by titles or wealth, but by your ability to contribute meaningfully to society while staying grounded in your principles.

To the students of IIIT Dharwad: dream boldly, stay grounded, and build with purpose. You are not just preparing for jobs, you are preparing to lead India into a future where innovation is rooted in values, and where education becomes a force for empowerment and positive change.

Let us build that future together.

Warm regards,

**Dr. Sridhar Vembu**  
**Chairperson, BoG,**  
**IIIT Dharwad**

## From the Director's Desk



Greetings from IIIT Dharwad!

Welcome to Dharwad city, also known as ‘Vidyakashi’ for its rich academic ambience. Dharwad is an education city with nine Universities in and around. IIIT Dharwad is proud to be in the midst of these great universities. It will derive benefits by collaborating with these universities from their rich experience and knowledge. It will in turn contribute by offering academic and research programs in information technology, computer science, electronics and communication, data science and artificial intelligence areas. There is a saying about Dharwad, ‘if you throw a stone in Dharwad, it will most likely fall on the house of a teacher or literary person or musician’. To add to this, ‘if you miss an address, most probably you will end up at the entrance gate of one of the universities’. Such a great academic place is Dharwad city. For more than a century, it has been the dream destination for education, literature and music pursuits. This ecosystem is the fertile ground on which IIIT Dharwad started its journey in 2015. This is a noble initiative of Government of India (GoI), Government of Karnataka (GoK) and industrial partner KEONICS. IIIT Dharwad has made excellent progress and completed its first phase of journey. It is ready to embark on its next phase. Since we have our own permanent campus with necessary infrastructure, the next phase of five years is expected to witness an exponential growth.

IIIT Dharwad will go all out to establish industry-academia, and national and international academic collaborations. Being a higher education institute of the country established in North Karnataka, it will be sensitive to the social ecosystem in the neighborhood and would like to fulfill its academic-social responsibility. Information

technology, computer science, electronics and communication, data science and artificial intelligence are the niche technology areas for the 21st century and hence IIITs are the most sought after higher education technology institutes. With highly qualified faculty in partnership with industry and academia from India and abroad, IIIT Dharwad would like to help the higher education landscape and growth of high tech industries. The benefit of aimed collaboration is not only for IIIT Dharwad, but also for all the academic institutes in the neighborhood, specifically North Karnataka. If you want to experience an exciting journey for undergraduate, post graduate and research degrees in Information technology, computer science, electronics and communication, data science and artificial intelligence, then you should seriously consider joining IIIT Dharwad. Please read more information on the official website and official social media platforms of the institute. If you want to know more about the campus facilities, admission process and opportunities, you are most welcome to contact respective divisions or units of the institute or visit the institute and interact with us.

IIIT Dharwad is a well thought out public private partnership (PPP) university model of the country where the institute needs to generate its own revenue to bring stability, sustainability and growth. Therefore, apart from academic programs, we are looking for industry-academia collaborations. We are in the process of starting a tech park that will have space for startups, industrial research centers, skilling institutes, training academies for teachers in frontier technology areas and the future of learning in the form of digital and online. For our young generation, the entire world is a family (Vasudhaiva Kutumbakam) and we want IIIT Dharwad students to get trained and move onto premier institutes and organizations across the globe and lead them. To create an ecosystem for the same, we are looking for national and international collaborations. To execute our growth plan, we need to augment our infrastructure and look for help from a big hearted community for the cause of setting up a vibrant education and learning ecosystem. A special appeal to the global community, Indian diaspora, specifically from North Karnataka in India and abroad to come forward and contribute to this great institute in the making in terms of Tanu-Mana-Dhana! If you want to know more about how you can help IIIT Dharwad, please contact me at [director@iiitdwd.ac.in](mailto:director@iiitdwd.ac.in)

**Prof. S. R. Mahadeva Prasanna**  
**Director, IIIT Dharwad**

# About IIIT Dharwad



Indian Institute of Information Technology Dharwad is an Institute of National Importance, set up in 2015 in Public-Private-Partnership mode between the Ministry of Education, Government of India, Government of Karnataka and industry partner Keonics under an Act of Parliament (23 of 2017). Located close to both Dharwad and Hubli, its campus is in a serene setting with the hills of Western Ghats in the background. Much of its 60 acres is left for greenery and a natural water body. It is also the catchment area of river Shalmala that flows down to join the sea near Gokarna. IIIT Dharwad, while including a number of smart technologies, has designed its entire campus to serve as a laboratory for the Internet of Things (IoT): smart street lights, smart metering, and the ability to deploy smart sensors practically anywhere in the campus. The principle behind this design is best described as: ‘Wherever there is power supply, there is data.’

The Academic Building, called the *e* Block, has eliminated departmental boundaries where faculty, technical staff and laboratories across departments are interspersed by design to naturally promote and nurture information exchange and collaboration. IIIT Dharwad has created a new modular space that can be easily converted to an 80-seater classroom (unlike the 60-seater) with multiple alternative seating arrangements, different laboratory configurations and other team spaces, thereby optimizing energy efficiency and ventilation. Classrooms are indeed quite large and naturally well lit. There are two 120-seater and one 240-seater classrooms available for organizing workshops, conferences and hackathons with facilities for live streaming. The *e* Block has laboratories established with the latest computing equipment for hands-on learning. A well-stocked textbook library in the *e* Block provides a 24/7 self-service facility for students to borrow and return books at any time.

The Main Building, referred to as the  $\pi$  Block, houses the boardroom, Chairperson, Director and Registrar offices, recruitment, research, collaboration, incubation and knowledge sharing spaces. It also houses the Multi-Function Hall, called the  $m$  Block that can be converted into an auditorium or an indoor basketball court as needed. The  $\pi$  Block also has a Knowledge Resource Center and an incubation space.

The Health and Fitness Block, called the  $h$  Block, has spaces for a Wellness Centre, pharmacy, gymnasium, yoga room, activity/club rooms, music room, canteen, and a small shop for essential supplies. The  $h$  Block can be used for small gatherings, music, and digital screening. The canteen has both indoor and outdoor seating.

IIT Dharwad offers B. Tech programmes in Computer Science Engineering, Data Science and Artificial Intelligence, and Electronics and Communication Engineering, apart from a Ph.D. Program. Highly qualified faculty teach a wide range of subjects of current relevance to the IT Industry. They also engage in cutting-edge research in several specialised areas. Under the Chairperson of Shri. Sridhar Vembu, the institute is governed by eminent members in its Senate and Board of Governors.

# A Glimpse of the Campus



$\pi$  Block



$m$  Block



e Block



g Block (Infosys Foundation Girls Hostel)



b Block



*h* Block



**Senate Room**



**BOARD MEETIN ROOM**





# Administration-Governance

The Institute is governed by the Board of Governors (BoG), which along with the Finance Committee and the Senate constitutes the authorities of the Institute. The Board includes representatives from the MoE, the Government of Karnataka, and industry partner KEONICS. The institution's administration is the responsibility of the Director, Registrar, and the Heads of the Departments of Computer Science and Engineering, Electronics and Communication Engineering, and Data Science and Intelligent Systems.

## Board of Governors



Chairperson  
**Dr. Sridhar Vembu**  
Chairperson, IIIT Dharwad



Member  
**Prof. S. R. Mahadeva Prasanna**  
Director, IIIT Dharwad



Member  
**Prof. Venkappayya R. Desai**  
Director, IIT Dharwad



Member  
**Shri. Pavan Kumar Malapati,**  
IAS  
Department of Science &  
Technology & Managing Director,  
KSTePS GoK



Member  
**Dr. Ekroop Caur, IAS**  
Secretary to Government  
Department of Electronics  
Information Technology  
Biotechnology and Science &  
Technology. GoK



Member  
**Smt. Saumya Gupta,**  
Joint Secretary (TE), Ministry of  
Education, Government of India



Member  
**Prof. P. Balaram**  
Former Director, IISc, Bengaluru



Member  
**Sri. S.V.Ranganath, IAS**  
Vice-Chairman, KSHEC,  
Former Chief Secretary, GoK



Member  
**Prof. S. Sadagopan**  
Director, IIIT Bangalore



Member  
**Prof. Pankaj Chandra**  
Vice-Chancellor,  
Ahmedabad University



Member  
**Prof. Uday B. Desai**  
Former Director,  
IIT Hyderabad



Member  
**Prof. H. P. Khincha**  
Former Vice-Chancellor,  
VTU, & Professor, IISc, Bengaluru



Member  
**Sri. M. N. Vidyashankar, IAS**  
President, IESA, and  
Former Additional Chief Secretary,  
Government of Karnataka



Member  
**Prof. Ch. Subrahmanyam**  
Professor, IIT Hyderabad



Member  
**Dr. Deepak K. T.**  
Associate Dean, R&D



Non-Member secretary  
**Mr. Ravi B Vitlapur**  
Assistant Registrar,  
IIIT Dharwad

## Senate



Chairperson  
**Prof. S. R. Mahadeva  
Prasanna**  
Director, IIIT Dharwad



Member  
**Prof. Madhu Mutyam**  
Professor, IIT Madras



Member  
**Prof. Ch. Subrahmanyam**  
Professor, IIT Hyderabad



Member  
**Prof. Dhiraj V. Patil**  
Associate Professor, IIT  
Dharwad



Member  
**Prof. Vasudeva Verma**  
Professor, IIIT Hyderabad



Member  
**Dr. Dattatraya Kulkarni**  
McAfee Bengaluru



Member  
**Prof. C. B. Akki**  
Prof-In-Charge, P&D  
IIIT Dharwad



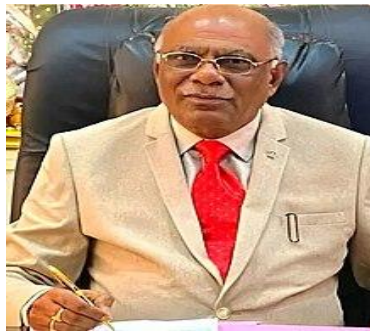
Member  
**Prof. Badrinath  
Ramamurthy**  
Professor, IIIT Bangalore



Member  
**Prof. Satish Annigeri,**  
Prof-In-Charge, Exam and AIMS



Member  
**Shri Sumeet Verma**  
Regional Head, Ecosystem  
Alliances, ARM Embedded  
Technologies Pvt Ltd



Member  
**Prof. K. Gopinath**  
Prof-In-Charge, Students'  
Welfare and Administration



Member  
**Dr. Rajendra Hegadi**  
Prof-In-Charge, Academics



Member  
**Dr. Deepak K. T.**  
Associate Dean, R&D



Member  
**Dr. Pavan Kumar C**  
Associate Dean, ICT,  
Automation



Member  
**Dr. Jagadish D. N**  
Faculty-In-Charge, Students  
Affairs



Member  
**Dr. Jagadeesha R. Bhat**  
Faculty-In-Charge, International  
Relations



Member  
**Dr. Manjunath K. Vanahalli**  
Faculty-In-Charge, CGC



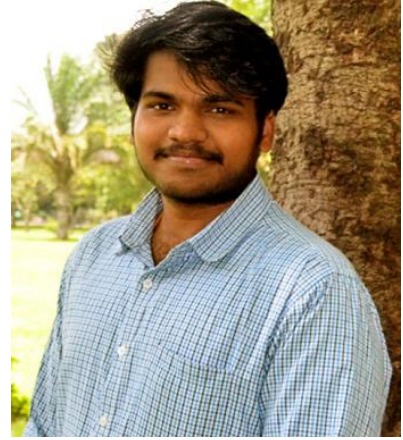
Member  
**Dr. Aswath Babu**  
Faculty (DASD)



Member  
**Dr. Siddharth R.**  
HoD (DSAI)



Member  
**Dr. Prakash Pawar**  
HoD (E&C)



Member  
**Dr. Prabhu Prasad**  
HoD (CSE)



Member  
**Dr. Sunil Saumya**  
Associate Dean Academics



Member  
**Dr. Suvadip Hazra**  
Invitee



Member  
**Mr. Ravi B Vitlapur**  
Assistant Registrar,  
IIIT Dharwad

## **Finance Committee**

<b>Dr. Shidhar Vembu</b> Chairperson, IIIT Dharwad	Officiating Chairperson
<b>Shri. Narayan Singh Bisht</b> Deputy Secretary- Finance Department of Higher Education, MoE, GoI	Member
<b>Shri. Rahul Sharanappa Sankanur, IAS</b> Director, Department of ITBT & ST, Government of Karnataka	Member
<b>Shri. Pavan Kumar Malapati, IAS</b> Managing Director, Keonics, Bengaluru	Member
<b>Prof. H. P. Khincha</b> Former Vice Chancellore, VTU and Professor, IISc, Bengaluru	Special Invitee
<b>Prof. S R Mahadev Prasanna</b> Director, IIIT Dharwad	Member
<b>Mr. Ravi B Vitalpur</b> Officiating Registrar, IIIT Dharwad	Non-Member Secretary

## **Programmes Offered at IIIT Dharwad**

Academic Programs at IIIT Dharwad: Highlights, Unique Features & Rigor

IIIT Dharwad offers a comprehensive suite of academic programs at the undergraduate, postgraduate, and doctoral levels. These programs are designed with a forward-looking vision to create thinkers and leaders in the technology space positively impacting society.

### **1. B.Tech Programs in CSE, DSAI, and ECE**

#### **Programs Offered:**

- Computer Science and Engineering (CSE)
- Data Science and Artificial Intelligence (DSAI)
- Electronics and Communication Engineering (ECE)

#### **Curriculum revised (2024–25 Onward):**

A total of 140 credits with a modular "fractal" credit system (1, 2, 3, or 4 credit courses) for flexibility.

#### **Credit Distribution:**

- Discipline Core – 32 credits (23%)
- Engineering Core – 14 credits (10%)
- Mathematics & Statistics – 14 credits (10%)
- Discipline Electives – 20 credits (14%)
- Open Electives – 38 credits (27%)
- Humanities & Social Sciences – 11 credits (8%)
- Innovation & Entrepreneurship – 11 credits (8%)

**Curricular Rigor:**

- Strong foundation in theoretical principles and hands-on design
- High flexibility and freedom in course selection through open electives
- Practical exposure via innovation and entrepreneurship modules

**2. Minors**

A minor of 16 credits provides students with an opportunity to diversify their academic portfolio and gain expertise in an additional field of study. This complementary coursework enhances their skill set, making them more versatile and competitive. By exploring interdisciplinary courses, students can broaden their knowledge base, foster innovative thinking, and open up new career pathways. Overall, a minor enriches the educational experience and equips graduates with a well-rounded perspective.

**Types of Minor:**

- Discipline Minor
- Interdisciplinary Minor

**Eligibility and entry to the Minor programs:**

- Enrollment from 3rd semester up to the beginning of the 5th semester
- Minimum CPI required: 6.00 at the time of Minor enrollment

**i) Discipline Minor program structure:**

Students must complete 16 credits collectively from core courses, elective courses, and a project.

Category	Minimum Credits
Core Courses	4

Elective Courses	4
Project	4 (min) to 8 (max)

**ii) Interdisciplinary Minor program structure:**

Same total credit requirement (16), with a maximum of 4 credits allowed per semester. Courses cannot be double-counted for both B.Tech and Minor credits.

Category	Minimum Credits
Core Courses	4
Elective Courses	4
Project	4 (min) to 8 (max)

**Exit Options:**

Students may exit the Minor at any time. Completed courses will be listed as additional credits but won't contribute to B.Tech credit or CPI.

**Available Minors:**

- **Disciplinary Minors:**  
CSE, DSAI, ECE
- **Interdisciplinary Minors:**  
Generative AI  
VLSI  
Undergraduate Research Experience  
Cybersecurity  
Quantum Information Science and Technology  
Design  
Entrepreneurship

**Unique Value:** Enables students to build a secondary area of expertise and explore cutting-edge domains.

**3. Double Major Program**

**Overview:**

- Offers a second B.Tech-level specialization from another

department.

- Credit Requirement: 32 additional credits (beyond primary major)
- Duration: Up to 5 years (4+1)

**Rules:**

No course double-counting between Major, Minor, and Double Major  
Overlapping courses are replaced by equivalent electives

**Rigor and Value:**

Demands sustained academic performance and time management  
Offers a highly customizable, multidisciplinary academic pathway

## **4. M.Tech Programs (CSE, DSAI, ECE)**

**Program Design:**

- Delivery Modes: Online + Offline
- Audience: Working professionals and full-time students

**Flexible Exit Options:**

- PG Certificate: 15 credits
- PG Diploma: 30 credits
- M.Tech Degree: 60 credits

**Credit Structure:**

- Discipline Core – 10 credits (17%)
- Master's Core – 5 credits (8%)
- Electives – 15 credits (25%)
- Project Work – 30 credits (50%)

**Curricular Strength:**

- Strong theoretical grounding and real-world relevance
- Learning through extensive project work and industry-linked internships

## **5. M.Tech by Research Program**

**Overview:** Research-oriented degree program suited for aspirants in CSE, DSAI, and ECE.

**Key Focus Areas:**

- Quantum computing  
AI and Machine Learning
- NLP and Speech
- Computer Vision
- Generative AI
- Cyber Security and other emerging areas

**Rigor:**

- Emphasis on original contributions and scholarly depth
- Ideal for transition into doctoral programs or R&D-intensive roles

## **6. Ph.D. Program**

**Program Objective:**

To nurture high-quality researchers capable of advancing knowledge and making societal impact in critical domains of science and technology.

**Research Domains:**

- Computer Science and Engineering (CSE)
- Data Science and Artificial Intelligence (DSAI)
- Electronics and Communication Engineering (ECE)
- Arts, Science and Design (ASD)

**Key Features:**

- Guided by experienced faculty with industry and academic credentials
- Financial support through fellowships and project sponsorship
- Research includes both foundational and applied themes

**Program Highlights:**

- Coursework followed by thesis proposal and research
- Opportunities to publish in top-tier conferences and journals
- Participation in teaching, industry internships, and research collaborations

**Curricular Rigor:**

- High demands in innovation, independent research, and impact-driven output

## **Academic Outcomes: Excellence and Impact**

IIIT Dharwad’s academic architecture produces far more than graduates—it cultivates **creators, researchers, and problem-solvers** ready to make meaningful contributions in academia, industry, and society. The outcomes reflect the success of its forward-thinking curriculum and research-oriented ecosystem.

## **1. Holistic Undergraduate Education**

The flexible B.Tech curriculum has led to top placements, high rates of research internship selection, and strong postgraduate admissions.

Open electives and minors have produced interdisciplinary student projects in domains like AI for healthcare, IoT, and cybersecurity.

## **2. Real-World Innovation & Startups**

The 11-credit Innovation & Entrepreneurship module has resulted in:

- Multiple student-led startup ventures
- Prototypes developed as part of coursework now being incubated
- National-level recognition in hackathons and product innovation contests

## **3. Undergraduate Research Excellence**

Students participate in guided research from early semesters. B.Tech students have co-authored papers and presented at conferences including IEEE, ACM, and national symposiums.

High acceptance in elite summer research fellowships and internships (e.g., ISRO, IISc, IITs, TCS Research).

## **4. Graduate-Level Skill Enhancement**

The M.Tech and M.Tech by Research programs are creating a skilled workforce ready for advanced roles in AI, VLSI, embedded systems, and cybersecurity.

Many working professionals pursue M.Tech through the institute's flexible online model, directly impacting their job performance and promotion prospects.

## **5. Research and Doctoral Achievements**

Ph.D. scholars and M.Tech researchers contribute to cutting-edge research in generative AI, quantum computing, and cyber-physical systems.

Ongoing research collaborations with premier institutes and industries result in patents, publications, and product prototypes.

## **6. Global and National Impact**

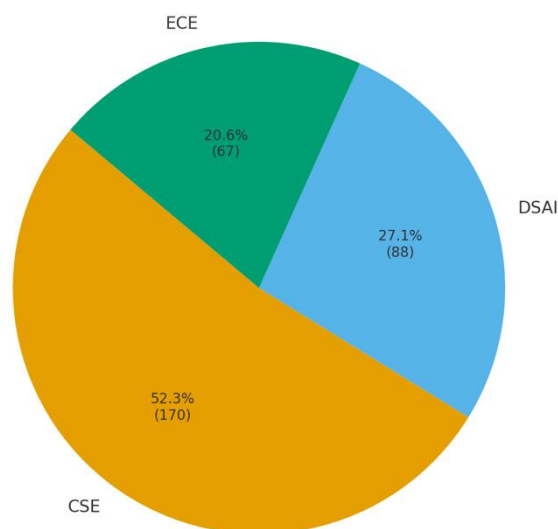
Students and scholars represent IIIT Dharwad at global conferences, research immersion programs, and innovation challenges.

Alumni are joining prestigious graduate programs globally and contributing to top firms and research labs.

## Admission

IIIT Dharwad offers admission to B. Tech Programmes based on the Joint Entrance Examination - Main rankings. The Joint Seat Allocation Authority (JoSAA) conducts seat selection and counselling for all the participating institutes. Reservation of seats is as per the rules laid by the Government of India.

<b>UG Admission Details of the Year 2024-25</b>				
	<b>CSE</b>	<b>DSAI</b>	<b>ECE</b>	<b>Total</b>
Total Intake	198	102	102	402
Total Admission	170	88	67	325



**Fig 1: UG Student Representation Department-Wise**

### PhD Admission (AY-2024-2025)

<i>Department</i>	<i>Total</i>
CSE	15
DSAI	15
ECE	14
Mathematics	2
Physics	1
<b>Total</b>	<b>47</b>

## Faculty

### Computer Science and Engineering



**Dr. Abdul Wahid**  
Assistant Professor  
Ph.D. (IIT Dhanbad)

**Research Interest:**  
Artificial Intelligence, Evolutionary Computing,  
Reinforcement Learning, Multi-Agent Systems



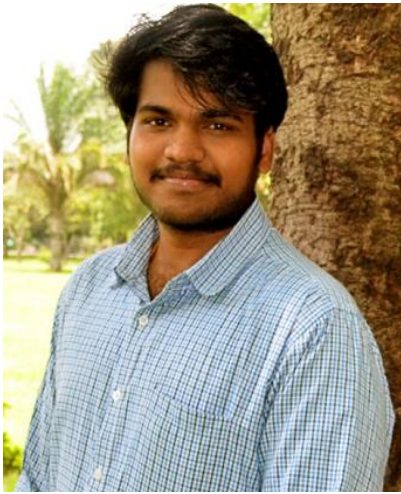
**Dr. Malay Kumar**  
Assistant Professor  
Ph.D. (NIT Raipur)

**Research Interest:**  
Light Weight Cryptography, Fully Homomorphic  
Encryption, Security and Privacy Issues in Cloud  
Computing



**Dr. Pavan Kumar C**  
Assistant Professor  
Ph.D. (VIT Vellore)

**Research Interest:**  
Coding Theory, Data Communication, Formal  
Languages and Automata Theory, and  
Cryptography



**Dr. Prabhu Prasad**  
Assistant Professor  
Ph.D. (NITK Surathkal)

**Research Interest:**  
Computer Architecture, Network-on-Chips, and  
High-Performance Computing



**Dr. Animesh Roy**  
Assistant Professor  
Ph.D. (IEST)

**Research Interest:**  
Delay tolerant networks, Network optimization,  
Algorithms



**Dr. Krishnendu Ghosh**  
Assistant Professor  
Ph.D. (IIT Kharagpur)

**Research Interest:**  
Natural Language Processing, Artificial Intelligence



**Dr. Sunil CK**  
Assistant Professor  
Ph.D. (NITK Surathkal)

**Research Interest:**  
Artificial intelligence [ML and DL], IoT, Robotics



**Dr. Pramod Yelmewad**  
Assistant Professor  
Ph.D. (NITK Surathkal)

**Research Interest:**  
Parallel Computing, Parallel Metaheuristic Algorithms



**Dr. Dibyajyoti Guha**  
Assistant Professor  
Ph.D. (IIT Bhubaneswar)

**Research Interest:**  
Machine Learning, Computer Vision, Hyperspectral Imaging, Computer Network



**Dr. Vivekraj V K**  
Assistant Professor  
Ph.D. (IIT Roorkee)

**Research Interest:**  
Computer Vision, Image and Video Processing




**Dr. Girish G N**  
Assistant Professor  
Ph.D. (NITK)

**Research Interest:**  
Computational Biology, Bioinformatics, Machine Learning








**Dr. Sunil Kumar P V**  
Assistant Professor  
Ph.D. (NIT, Calicut)

**Research Interest:**  
Computational Biology, Bioinformatics, Machine Learning

	<p><b>Dr. Suvadip Hazra</b> Assistant Professor Ph.D. (NIT Durgapur)</p> <p><b>Research Interest:</b> Hardware Security, Cellular Automata, Many-core system</p>
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## Electronics and Communication Engineering

	<p><b>Dr. ChinmayanandaA</b> Assistant Professor Ph.D. (IISc Bengaluru)</p> <p><b>Research Interest:</b> Wireless Communications, Coding Theory, Machine Learning, and Reinforcement Learning</p>
	<p><b>Dr. Deepak K. T.</b> Assistant Professor Ph.D. (IIT Guwahati)</p> <p><b>Research Interest:</b> Speech Signal Processing, Audio Signal Processing and Image Processing</p>

	<p><b>Dr. Jagadish D. N.</b>  Assistant Professor  Ph.D. (NITK, Surathkal)</p> <p><b>Research Interest:</b>  Analog VLSI and Mixed-Signal VLSI Design  Architecture Neuromorphic Circuits</p>
	<p><b>Dr. Jagadeesha R B</b>  Assistant Professor  Ph.D. (NTHU, Taiwan)</p> <p><b>Research Interest:</b>  Next Generation Wireless Networks, D2D  Communication, IoT, 5G, and 6G</p>
	<p><b>Dr. RAJESH KUMAR</b>  Assistant Professor  Ph.D. IIT (ISM) Dhanbad</p> <p><b>Research Interest:</b>  RF VLSI Design, RFIC, MMIC Design, RF Power  Amplifier, DOHERTY Power Amplifier Design</p>



**Dr. Prakash Pawar**

Ph.D. (NITK Surathkal)

Assistant Professor

**Research Interest:**

Demand Side Energy Management, Embedded System and IoT, and Machine Learning.



**Dr. Sibasankar Padhy**

Assistant Professor

Ph.D. (IIT Guwahati)

**Research Interest:**

Signal Processing



**Dr. Somen Bhattacharjee**

Assistant Professor

Ph.D. (IIT Guwahati)

**Research Interest:**

Analytical and Numerical Electromagnetics, Microwave Engineering, Antenna Theory, and Design



**Dr. Nataraj K S**  
Assistant Professor  
Ph.D. (IIT Bombay)

**Research Interest:**  
Speech/Audio Processing, Machine Learning and Embedded Systems



**Dr. Pankaj Kumar**  
Assistant Professor  
Ph.D. (Indian Institute of Technology (ISM)  
Dhanbad, India)

**Research Interest:** Electronic Communication, Signal Processing, Internet of Things

## Data Science and Artificial Intelligence



**Prof. S R Mahadeva Prasanna**  
Professor & Director  
Ph.D. (IIT Madras)

**Research Interest:**  
Speech and Handwriting Processing, Applications of Signal Processing and Pattern Recognition, Applications of Artificial Intelligence, Machine Learning, Deep Learning

	<p><b>Dr. Manjunath K V</b>  Assistant Professor  Ph.D. (NITK Surathkal)</p> <p><b>Research Interest:</b>  Data Mining, Distributed and Parallel Computing,  and Machine Learning</p>
	<p><b>Dr. Rajendra Hegadi</b>  Associate Professor  Ph.D. (Dr. MGR Education Research Institute)</p> <p><b>Research Interest:</b>  Computer Network, Cryptography, and Network Security</p>
	<p><b>Dr. Sunil Saumya</b>  Assistant Professor  Ph.D. (NIT Patna)</p> <p><b>Research Interest:</b>  Applied Machine Learning, Applied Deep Learning,  and Data Analytics</p>



**Dr. Ramesh Athe**

Assistant Professor

Ph.D. (Osmania University, Hyderabad)

**Research Interest:**

Systematic Review, and Meta-analysis



**Dr. Utkarsh Khaire**

Assistant Professor

Ph.D. (NIT Nagaland)

**Research Interest:**

Data Analytics, Machine Learning, and Optimization Techniques



**Dr. Animesh Chaturvedi**

Assistant Professor

Ph.D. (IIT Indore)

**Research Interest:**

Data Science and AI, Systems Engineering, SOA, Cloud Computing and Big Data



**Dr. Shirshendu Layek**

Assistant Professor  
Ph.D. (IIT Dhanbad)

**Research Interest:**

Computer Vision, AI and ML in Natural/Man-made Disasters



**Dr. Girish Revadigar**

Assistant Professor  
PhD (The University of New South Wales (UNSW)  
Sydney, Australia)

**Research Interest:**

AI/ML, Blockchain for Cybersecurity, Cybersecurity and Resilience for – IoT, Cyber Physical Systems, Autonomous Systems, Wireless Networks, Wireless Networks, Applied Cryptography



**Dr. Siddharth R**



Assistant Professor  
Ph.D. (NIT Puducherry)

**Research Interest:**


Data Preprocessing, Machine Learning

## Humanities and Sciences

	<p><b>Dr. Anand Barangi</b> Assistant Professor Ph.D. (Karnataka University, Dharwad)</p> <p><b>Research Interest:</b> Graph Theory, Spectral Graph Theory, and Network related problems</p>
	<p><b>Dr. Anushree Kini</b> Assistant Professor</p> <p><b>Research Interest:</b> Microfinance, Small Finance Banks, Financial Accounting, Management Accounting, Cost Accounting, and Economics</p>
	<p><b>Dr. H. Aswath Babu</b> Assistant Professor (Physics) Ph.D. (IIT Kanpur)</p> <p><b>Research Interest:</b> Quantum Optics and Quantum Information Theory</p>

	<p><b>Dr. Sandesh Sanjeev Phalke</b>  Assistant Professor (Design)  Ph.D. (Indian Institute of Technology Guwahati,  Guwahati, India.)</p> <p><b>Research Interest:</b>  Co-Design, Early childhood education and care,  Child computer interaction</p>
	<p><b>Dr. Rajesh N. S.</b>  Assistant Professor (English)  Ph.D. (NITK, Surathkal)</p> <p><b>Research Interest:</b>  Diasporic Literature, Indo-Canadian Writings, and  Communicative English</p>

### Adjunct Professors

	<p><b>Dr. Ambarish Kulkarni</b>  Adjunct Professor</p>
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**Dr. Rajesh Vasa**  
Adjunct Professor



**Prof. V. Ravishankar**  
Adjunct Professor







**Shri. Israel Cohen**  
Adjunct Professor



**Dr. C P Ravikumar**  
Adjunct Professor

## Professors of Practice

 A portrait of Dr. Nixon Patel, a man with dark hair and glasses, wearing a dark suit jacket over a white shirt, sitting in a black office chair.	<p><b>Dr. Nixon Patel</b> Professor-of-Practice</p>
 A portrait of Dr. Shrinivas Kulkarni, a man with a beard and glasses, wearing a light blue blazer over a pink shirt.	<p><b>Dr. Shrinivas Kulkarni</b> Professor-of-Practice</p>
 A portrait of Dr. Karthik Sankaran, a man with glasses, wearing a dark green patterned shirt, against a dark background with a blurred light source.	<p><b>Dr. Karthik Sankaran</b> Professor-of-Practice</p>
 A portrait of Dr. Anand J Bariya, a man with a balding head, wearing a dark suit jacket over a white shirt and tie, against a dark background.	<p><b>Dr. Anand J Bariya</b> Professor-of-Practice</p>



**Dr. Girish Dhanakshirur**  
Professor-of-Practice



**Dr. Milind Chabbi**  
Professor-of-Practice



**Santosh Devanallikar**  
Professor-of-Practice



**Mr. Ram Subramanian**  
Professor-of-Practice



**Prof Ram Krishnan Ganesan**  
Organization Development Consultant



**Mr. Mallikarjun Kande**  
Professor-of-Practice



**Dr. Chandrika Kamat**  
Professor-of-Practice



**Dr. G Srikantha Sharma**  
Professor-of-Practice



**Dr. Pratibha Moogi**  
Professor-of-Practice



**Dr. Ajay Srinivasamurthy**  
Professor-of-Practice

## Administrative Staff

<b>Sl. No.</b>	<b>Name</b>	<b>Role</b>
1.	<b>Mr. Ravi B. Vitlapur</b>	Officiating Registrar/Assistant Registrar
2.	<b>Mr. N. R. Hiremath</b>	Consultant
3.	<b>Ms. Suma S. Shetty</b>	Junior Superintendent - HRM
4.	<b>Ms. Swati Math</b>	Junior Superintendent - Accounts
5.	<b>Ms. Arya Katwe</b>	P.A. To Director
6.	<b>Mr. Sameer Desai</b>	Technical Assistant
7.	<b>Mr. Sagar Kolekar</b>	Senior Library Information Assistant
8.	<b>Mr. Ashwin Hiremath</b>	Junior Assistant
9.	<b>Mr. Raghavendra H.</b>	Junior Assistant
10.	<b>Ms. Shalini Kotur</b>	Junior Assistant
11.	<b>Mr. Sunil Kulkarni</b>	Junior Assistant
12.	<b>Mr. Naveen Shirahatti</b>	Assistant Sports Coach
13.	<b>Mr. Ujwal Doddamani</b>	Student Life Coordinator
14.	<b>Ms. Pooja Akki</b>	Junior Technical Assistant
15.	<b>Mr. Yallappa L. Kuri</b>	Office Assistant
16.	<b>Mr. Prasad Pulakeshi Kalal</b>	Junior Technical Assistant
17.	<b>Mrs. Neeta Patil</b>	Junior Technical Assistant
18.	<b>Mrs. Reshma Pyatishettar</b>	PA to Registrar
19.	<b>Dr. Sangamesh Patil</b>	Medical Officer

# **Research & Development Activities (2024-2025)**

## **Research Laboratories**



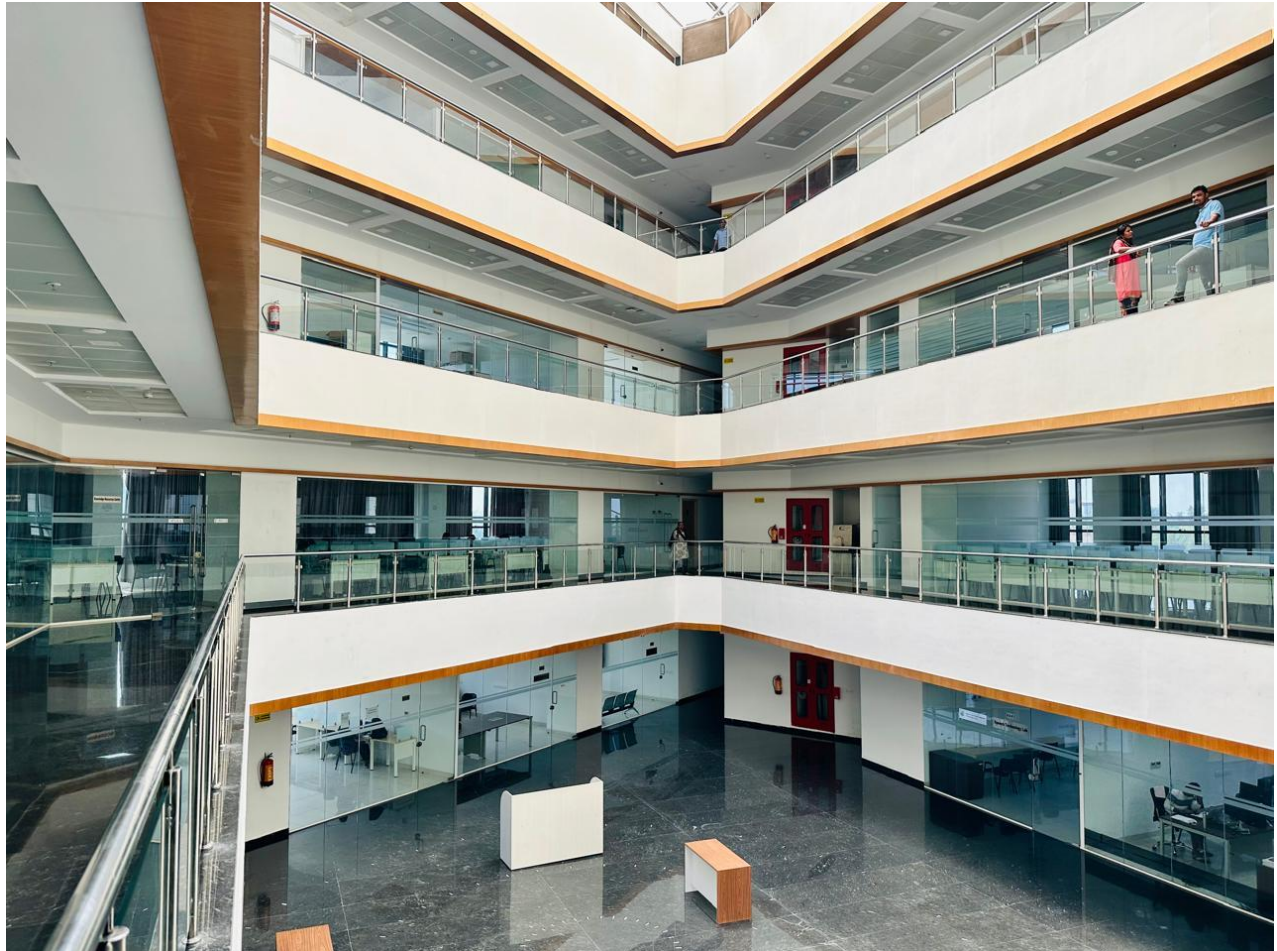
### **Healthcare and Speech Analytics Research Laboratory**

Healthcare is one of the important domains and plays a major role in the development of the region. There are many Government (both State and Central Government) schemes launched. Each has its own application platforms and corresponding database. However, the legacy software applications are developed independently and often have issues communicating with each other. This has an adverse impact on the healthcare sector. In order to overcome such issues, the laboratory focuses on seamless integration of different applications through a common module called 'Charka'. This makes use of health care and Metadata standards as proposed in the 'National Digital Health Blueprint'. Also, the laboratory focuses on Healthcare Data Analytics.

Speech is an important mode of human-to-human communication and is of interest to the scientific community. The study of speech from a signal processing point of view is

broadly termed as speech signal processing. There are many related fields of study that help to extract useful information from speech signals. The focus of the laboratory is to develop applications using speech signal analysis. One such application is to develop speech to speech translation from one Indian language to another; for example, automatic two-way speech translation from a Tribal Language to English can help develop a few applications.

Laboratory Facilities: NVIDIA GPU Card-based server, laptops, desktops, tablets, and voice recorders. The laboratory has received grants from Karnataka State Health and Family Welfare Department and MeitY, GoI.



## Humanoid AI Research Laboratory



The study and development of Humanoid is a complex multidisciplinary domain. The major focus of the established laboratory is to deal with Artificial Intelligence (AI) related topics as Spoken Conversation, Autonomous Navigation, and Computer Vision. The spoken conversation involves the development of Automatic Speech Recognition (ASR), Machine Translation, and Text to Speech Synthesis (TTS) modules in Indian languages. The navigation module will make use of LIDAR and visual camera sensors for mapping, object detection, and navigation. The developed features may help deploy Humanoid for Geriatrics and Patient Care purposes.

Laboratory Facilities: Mitra Humanoid (Test Bed), Laptops, Desktop, and Multiarray Microphone. Soon a GPU based server, vision cameras, and edge computing devices will be added. The laboratory has received grants from TiHAN IIT Hyderabad, a DST funded initiation.

## **R&D Funded Projects (2024–2025):**

The academic year 2024–25 witnessed significant growth in research and development initiatives, securing projects worth over ₹3.5 crores. The projects cover diverse domains such as precision agriculture, disaster management, quantum communication, marine biodiversity, AI/ML applications, cybersecurity, legal assistance, industry training, and educational innovation. The projects are funded by reputed national agencies including ARTPARK–IISc, Ministry of Earth Sciences, AICTE, ANRF, IIT Mandi iHub, IIT Hyderabad, HAL, and Government of Karnataka. These projects not only foster cutting-edge technological innovation but also provide societal impact, ranging from agriculture and healthcare to legal empowerment and industrial upskilling.

### **Detailed Project List:**

#### **1. Smart Crop Management System Enabled by 5G Drone Surveillance and Digital Twin Technology**

- Scope: Precision agriculture with 5G drones, digital twins, and edge computing
- Type: Sponsored | Funding Agency: ARTPARK, IISc Bangalore
- Duration: 1 year (Aug 2024 – Sep 2024)
- Status: Ongoing
- Grant: ₹29,21,864
- PI: Dr. Prakash Pawar

#### **2. Data Dissemination and Resource Optimization in Post-Disaster Scenarios using 5G-MANETs**

- Scope: Emergency communication networks in disaster relief
- Funding Agency: ARTPARK, IISc Bangalore
- Grant: ₹11,03,000
- PI: Dr. Animesh Roy

#### **3. Simulating the Robust Quantum-Secure Internet**

- Scope: Quantum-secure internet for global communication
- Funding Agency: ARTPARK, IISc Bangalore
- Grant: ₹8,39,500
- PI: Dr. Aswath Babu

#### **4. AICTE-QIP-PG Certification Programme on Cybersecurity**

- Scope: Advanced cybersecurity training
- Type: Workshop/FDP | Funding Agency: AICTE
- Grant: ₹20,00,000
- PI: Dr. Rajendra Hegadi

## 5. ATAL FDP on Programmable Cities

- Scope: FDP on smart city programming
- Funding Agency: AICTE ATAL
- Grant: ₹1,00,000
- PI: Dr. Pavan Kumar C | Co-PI: Dr. Sunil Saumya

## 6. HAL Employees Institutional Programme

- Scope: Skilling program for HAL management trainees
- Funding Agency: HAL
- Grant: ₹28,12,740
- PI: Dr. Manjunath K V | Co-PIs: Dr. Prabhu Prasad B M, Dr. Anand P Barangi

## 7. ML-Based Marine Species Detection & Classification

- Scope: Underwater image dataset creation, ML-based classification, GAN-based synthetic data generation
- Funding Agency: Ministry of Earth Sciences, Deep Ocean Mission
- Duration: 2 years
- Grant: ₹38,33,200
- PI: Dr. Girish G N | Co-PI: Dr. Pavan Kumar BN (IIIT Sri City)

## 8. Large Language Model for Legal Assistance

- Scope: AI-driven legal guidance system for common citizens
- Funding Agency: IIT Mandi iHub and HCI Foundation
- Duration: 2 years
- Grant: ₹1,32,06,300
- PI: Dr. Sunil Saumya | Co-PI: Dr. Pavan Kumar C

## 9. Smart Humanoid in Geriatrics

- Scope: Humanoid robotics for elderly care
- Funding Agency: IIT Hyderabad NMICPS
- Grant: ₹9,60,000
- PI: Dr. Prakash Pawar | Co-PI: Dr. Deepak K T

## 10–11. HAL Training Modules in Industry 4.0 & Digital Technologies

- Scope: Upskilling HAL officials in Industry 4.0
- Funding Agency: HAL
- Grant: ₹2,36,000 each
- PI: Dr. Manjunath K V

## 12. High-End Workshop on Graph Theory and Computations

- Scope: Applications in ML, DL, medical imaging, big data, optimization
- Funding Agency: ANRF
- Grant: ₹2,50,000
- PI: Dr. Anand Barangi

### 13. Segmentation & Estimation of Choroidal Parameters from Retinal OCT

- Scope: Deep learning for medical imaging & CVI dataset creation
- Funding Agency: ANRF PM-ECRG
- Duration: 3 years
- Grant: ₹37,91,280
- PI: Dr. Girish G N

### 14. Hands-on CAD Workshop: Device & Circuit Simulations

- Scope: Training on CAD tools for device and circuit simulation
- Funding Agency: ANRF
- Grant: ₹5,00,000
- PI: Dr. Pankaj Kumar

### 15. AICTE-QIP-PG Cybersecurity Certification (2nd Instance)

- Duration: 6 months | Funding: ₹20,00,000
- PI: Dr. Rajendra Hegadi

### 16. AICTE-QIP-PG Cyber-Physical Systems Certification

- Duration: 7 months | Funding: ₹20,00,000
- PI: Dr. Pavan Kumar C

### 17. NAIN 2.0 – New Age Innovation Network

- Scope: Innovation ecosystem for students to address local problems with frugal tech solutions
- Funding Agency: Dept. of IT, BT, Govt. of Karnataka
- Duration: 3 years
- Grant: ₹1,50,00,000
- PI: Dr. Deepak K T

### 19. Deep Learning Model for Autonomous Navigation on Indian Roads

- Scope: AI models for self-driving applications in India
- Funding Agency: ANRF
- Grant: ₹3,50,000
- PI: Dr. Jagadish D N

## **Patents:**

### 1. Narrative Therapy Through Technological Intervention: A Gerontological Analysis

- Awarding Organization: Intellectual Property India, Govt. of India
- Application Number: 202141046211
- Applicants: Manjusha C B, Utkarsh Mahadeo Khaire
- Role: Co-Inventor
- Date: 12/12/2024
- Status: Granted

### 2. Smart Yoga Trainer Device

- Awarding Organization: Intellectual Property India, Govt. of India
- Application Number: 432004-001
- Applicants: Manjusha C B, Utkarsh Mahadeo Khaire, et al.
- Role: Co-Inventor
- Date: 02/12/2024
- Status: Granted

### 3. Smart System for Cognitive Assessment in Aging Adults

- Awarding Organization: Intellectual Property India, Govt. of India
- Application Number: 432009-001
- Applicants: Manjusha C B, Utkarsh Mahadeo Khaire
- Role: Co-Inventor
- Date: 05/12/2024
- Status: Granted

### 4. Method and System for High-Resolution Bathymetric Mapping of Underwater Cultural Heritage Sites

- Awarding Organization: Intellectual Property India, Govt. of India
- Application Number: 202421095335
- Applicants: Manjusha C B, Arnab Das, Utkarsh Mahadeo Khaire, et al.
- Role: Co-Inventor
- Date: 10/01/2025
- Status: Published

## Research Publications:

Sl No	Title	Year	Author(s)	Journal	Publication Type	Impact Factor of Journal	Indexing SCI/Scopus
1	A new U-Net based system for multi-cultural wedding image classification	2024	Shivakumara P.;Pavan Kumar C.;Nemade J.J.;Michael K.;Kumar A.;Anami B.S.;Pal U.	Expert Systems with Applications	Journal Article	7.5	SCI/SCIE
2	Milestones in speaker recognition	2024	Sharma R.;Govind D.;Mishra J.;Dubey A.K.;Deepak K.T.;Prasanna S.R.M.	Artificial Intelligence Review	Journal Article	13.9	Scopus
3	Faux Hate: unravelling the web of fake narratives in spreading hateful stories: a multi-label and multi-class dataset in cross-lingual Hindi-English code-mixed text	2024	Biradar S.;Saumya S.;Chauhan A.	Language Resources and Evaluation	Journal Article	1.8	Scopus
4	Filtering offensive language from multilingual social media contents: A deep learning approach	2024	Saumya S.;Kumar A.;Singh J.P.	Engineering Applications of Artificial Intelligence	Journal Article	8	Scopus

5	A reinforcement learning approach to dairy farm battery management using Q learning	2024	Ali N.;Wahid A.;Shaw R.;Mason K.	Journal of Energy Storage	Journal Article	9.8	Scopus
6	DFN-PSAN: Multi-level deep information feature fusion extraction network for interpretable plant disease classification	2024	Dai G.;Tian Z.;Fan J.;Sunil C.K.;Dewi C.	Computers and Electronics in Agriculture	Journal Article	8.9	Scopus
7	Spectro-Temporally Compressed Source Features for Replay Attack Detection	2024	S. Jelil, R. Sinha and S. R. M. Prasanna	IEEE Signal Processing Letter	Journal Article	3.9	Scopus
8	Peer-to-peer energy trading in dairy farms using multi-agent systems	2024	Shah M.I.A.;Wahid A.;Barrett E.;Mason K.	Computers and Electrical Engineering	Journal Article	4.9	Scopus
9	Link Prediction in Industrial Knowledge Graphs: A Case Study on Football Manufacturing	2024	Yahya M.;Wahid A.;Yang L.;Breslin J.G.;Kharlamov E.;Intizar Ali M.	IEEE Access	Journal Article	3.6	Scopus
10	Cost-effectiveness of portable-automated ABR for universal neonatal hearing screening in India	2024	Sahoo K.C.;Dwivedi R.;Athe R.;Chauhan A.;Jain S.;Sahoo R.K.;Bhattacharya D.;Rajsekhar K.;Pati S.	Frontiers in Public Health	Journal Article	3.4	SCI/S CIE
11	A Generic	2024	Banerjee S.;Dalui	Complex	Journal	1.2	ESCI

	NSRTD Framework for Characterizing Cellular Automaton Rules in Constant (0/1) Boundary Conditions		M.;Hazra S.	Systems	Article		
12	Near-Field Source Localization and Beamforming in the Spherical Sector Harmonics Domain	2024	S. K. Yadav, S. R. M. Prasanna and N. V. George	IEEE Journal of Selected Topics in Signal Processing	Journal Article	7.695	SCI/S CIE
13	The Second DISPLACE Challenge : DIarization of SPEaker and LAnguage in Conversational Environments	2024	Shareef Babu Kalluri, Prachi Singh, Pratik Roy Chowdhuri, Apoorva Kulkarni, Shikha Baghel, Pradyoth Hegde, Swapnil Sontakke, Deepak K T, S. R. Mahadeva Prasanna, Deepu Vijayasenana, Sriram Ganapathy	arXiv e-prints	Journal Article		
14	Spoken Language Change Detection Inspired by Speaker Change Detection	2024	Mishra, J., Prasanna, S.R.M.	Circuits, Systems, and Signal Processing	Journal Article	2	SCI/S CIE
15	Implicit Self-Supervised Language Representation	2024	J. Mishra and S. R. M. Prasanna	IEEE/ACM Transactions on	Journal Article	5.1	SCI/S CIE

	for Spoken Language Diarization			Audio, Speech, and Language Processing			
16	Are Music Foundation Models Better at Singing Voice Deepfake Detection? Far-Better Fuse them with Speech Foundation Models	2024	Orchid Chetia Phukan, Sarthak Jain, Swarup Ranjan Behera, Arun Balaji Buduru, Rajesh Sharma, S.R Mahadeva Prasanna	arXiv e-prints	Journal Article		
17	Avengers Assemble: Amalgamation of Non-Semantic Features for Depression Detection	2024	Orchid Chetia Phukan, Swarup Ranjan Behera, Shubham Singh, Muskaan Singh, Vandana Rajan, Arun Balaji Buduru, Rajesh Sharma, S. R. Mahadeva Prasanna	arXiv e-prints	Journal Article		
18	Representation Loss Minimization with Randomized Selection Strategy for Efficient Environmental Fake Audio Detection	2024	Orchid Chetia Phukan, Girish, Mohd Mujtaba Akhtar, Swarup Ranjan Behera, Nitin Choudhury, Arun Balaji Buduru, Rajesh Sharma, S.R Mahadeva Prasanna	arXiv e-prints	Journal Article		
19	Exploring rhythm formant analysis	2024	Parismita Gogoi, Sishir Kalita,	arXiv e-prints	Journal Article		

	for Indic language classification		Priyankoo Sarmah, S.R Mahadeva Prasanna				
20	Cross-linguistic rhythm analysis of Mising and Assamese	2024	Parismita Gogoi, Priyankoo Sarmah, and S. R. M. Prasanna	ACM Transactions on Asian and Low-Resource Language Information Processing	Journal Article	2	SCI/S CIE
21	Analyzing long-term rhythm variations in Mising and Assamese using frequency domain correlates	2024	Parismita Gogoi, Priyankoo Sarmah, SR Mahadeva Prasanna	arXiv e-prints	Journal Article		
22	Generative attention based framework for implicit language change detection	2024	Jagabandhu Mishra, S.R. Mahadeva Prasanna	Digital Signal Processing	Journal Article	3	SCI/S CIE
23	Biometrics in extended reality: a review	2024	Ayush Agarwal, Raghavendra Ramachandra, Sushma Venkatesh, SR Mahadeva Prasanna	Discover Artificial Intelligence	Journal Article		Scopus
24	Exploration of Speech and Music Information for Movie Genre	2024	Bhattacharjee M.; Prasanna Mahadeva S.R.; Guha P.	ACM Transactions on Multimedia	Journal Article	5.1	SCI/S CIE

	Classification			Computing, Communications and Applications			
25	An analysis of capital structure heterogeneity for manufacturing and service sector firms	2024	Shukla R.N.; Vyas V.; Chaturvedi A.	Managerial Finance	Journal Article	3.25	Scopus
26	Perspective analysis of assistive robots for elderly in India	2024	Hegde P.; Gadag A.; Sontakke S.; Kumar M.; Kholia A.; Patel J.; Khan A.; Jahnavi E.; Nabala R.; Thotappa D.	Disability and Rehabilitation: Assistive Technology	Journal Article	2.2	Scopus
27	Leverage adjustment analytics: effect of Covid-19 crisis on financial adjustments of Indian firms	2024	Shukla R.N.; Vyas V.; Chaturvedi A.	Journal of Economics and Finance	Journal Article	1.5	Scopus
28	An Optimized Crossover Framework for Social Media Sentiment Analysis	2024	Samant S.S.; Singh V.; Chauhan A.; Dasarahalli Narasimaiah J.	Cybernetics and Systems	Journal Article	1.8	Scopus
29	Real-Time Mental Health Monitoring for Metaverse Consumers to Ameliorate the Negative Impacts	2024	Mazumdar H.; Sathvik M.; Chakraborty C.; Unhelkar B.; Mahmoudi S.	IEEE Transactions on Consumer Electronics	Journal Article	10.9	Scopus

	of Escapism and Post Trauma Stress Disorder						
30	Object Detection and Classification Framework for Analysis of Video Data Acquired from Indian Roads	2024	Padia A.; T. N A.; Thummagunti S.; Sharma V.; K. Vanahalli M.; B. M P.P.; G. N G.; Kim Y.-G.; B. N P.K.	Sensors	Journal Article	3.5	SCI/S CIE
31	Performance Analysis and Design Comparison of Junctionless TFET: a Review Study	2024	Mohanty A.; Ahmad M.A.; Kumar P.; Kumar R.	Silicon	Journal Article	3.3	Scopus
32	Fractal Analysis of Electrodermal Activity for Emotion Recognition: A Novel Approach Using Detrended Fluctuation Analysis and Wavelet Entropy	2024	Mercado-Diaz L.R.; Veeranki Y.R.; Large E.W.; Posada-Quintero H.F.	Sensors	Journal Article	3.5	Scopus
33	P2P Prosumer Networks: A Model for Electricity Trading	2024	Ganguly B.; Nag T.; Guha D.	Evergreen	Journal Article	0.376	Scopus
34	MULTIWD: Multi-label wellness dimensions in social media posts	2024	Garg M.; Liu X.; Sathvik M.S.V.P.J.; Raza S.; Sohn S.	Journal of Biomedical Informatics	Journal Article	6.7	SCI/S CIE
35	A Novel TriNet Architecture for Enhanced Analog	2024	Chavan A.P.; Vaidya S.S.; Mantrashetti	IEEE Transactions on	Journal Article	3.1	SCI/S CIE

	IC Design Automation		S.M.; Dastikopp A.G.; Murthy K.S.; Aradhya H.V.R.; Pawar P.	Very Large Scale Integration (VLSI) Systems			
36	NeaSource Localization and Beamforming in the Spherical Sector Harmonics Domain	2024	Yadav S.K.; Prasanna S.R.M.; George N.V.	IEEE Journal on Selected Topics in Signal Processing	Journal Article	13.7	SCI/S CIE
37	Multiclass Classification of Chest X Ray Images Using Resnet-152 with Mix-Up Regularization Method	2024	Shetty R.; Sarappadi P.N.; Pradeep N.R.; Kavya B.S.M.; Sudhakar U.K.	International Journal of Intelligent Engineering and Systems	Journal Article	0.493	Scopus
38	Anti-money Laundering Analytics on the Bitcoin Transactions	2024	Hegadi R.;Tripathi B.;Namratha S.;Parveez A.;Chaturvedi A.;Hariprasad M.;Priyanga P.	Lecture Notes in Electrical Engineering	Conference Paper		
39	Investopolis: Decentralized Customer Loyalty Tokenization on the Blockchain	2024	Kuppa V.K.P.;Hegadi R.;Sajjan K.;Chowdary K.D.;Vanga M.S.R.;Kumar P.	Digest of Technical Papers - IEEE International Conference on Consumer	Conference Paper		

				Electronics			
40	IIITDWD_SVC@ DravidianLangTech-2024: Breaking Language Barriers; Hate Speech Detection in Telugu-English Code-Mixed Text	2024	Sai C.S.;Kumar R.V.;Saumya S.;Biradar S.	DravidianLangTech 2024 - 4th Workshop on Speech, Vision, and Language Technologies for Dravidian Languages, Proceedings of the Workshop	Conference Paper	5	
41	IIITDWD-zk@DravidianLangTech-2024: Leveraging the Power of Language Models for Hate Speech Detection in Telugu-English Code-Mixed Text	2024	Shaik Z.H.;Kasu S.K.R.;Saumya S.;Biradar S.	DravidianLangTech 2024 - 4th Workshop on Speech, Vision, and Language Technologies for Dravidian Languages,	Conference Paper	9	

				Proceedings of the Workshop			
42	Fake Speech Detection in Domain Variability Scenario	2024	Rishith Sadashiv T.N.;Agarwal A.;Mahadeva Prasanna S.R.	2024 National Conference on Communications, NCC 2024	Conference Paper		
43	Statistical and Deep-Learning Approaches for Individual Carbon Footprint Calculation in India	2024	Ghosh C.;Chowdhury A.;Ahamed A.;Ghosh K.	Lecture Notes in Networks and Systems	Conference Paper		
44	Digital Innovation in Water Governance: Exploring the Synergy of Digital Twins and Blockchain	2024	Agarwal P.;Hegadi R.;Pai P.P.;Chatterjee S.;Dixit S.	2024 International Conference on Smart Applications, Communications and Networking, SmartNets 2024	Conference Paper		
45	Integrating Artificial Intelligence into Electric Vehicle Energy Systems: A Survey	2024	Hua W.;Mullen D.;Wahid A.;Sitabkhan K.;Mason K.	IFIP Advances in Information and Commun	Conference Paper		

				ication Technolo gy			
46	Mobile Bot Rotation Using Sound Source Localization and Distant Speech Recognition	2024	Sontakke S.;Hegde P.;Bannulmath P.;Deepak K.T.	Procedi ngs - IEEE Internati onal Conferen ce on Robotics and Automati on	Conferen ce Paper		
47	Evaluating the Efficacy of Large Acoustic Model for Documenting Non- Orthographic Tribal Languages in India	2024	Tonmoy Rajkhowa, Amartya Roy Chowdhury, Hrishikesh Ravindra Karande, and S. R. Mahadeva Prasanna.	Procedi ngs of the 2024 Joint Internati onal Conferen ce on Computa tional Linguisti cs, Languag e Resource s and Evaluati on (LREC- COLING 2024)	Conferen ce Paper		
48	Speaker and Digit Representation based Voice OTP System	2024	S. Nandyala, P. Manche, J. Mishra and S. R. M. Prasanna	2024 Internati onal Conferen ce on Signal	Conferen ce Paper		

				Processing and Communications (SPCOM)			
49	Enhancing Bengali Text-to-Speech Synthesis Through Transformer-Driven Text Normalization	2024	Krishnendu Ghosh, Munmun Patra, Eshita Dey	International Conference on Pattern Recognition	Conference Paper		
50	Automatic Assessment of Dysarthria using Speech and synthetically generated Electroglottograph signal	2024	Zaheera F.;Shetty S.;Pradhan G.;Deepak K.T.	Proceedings of the Annual Conference of the International Speech Communication Association, INTERSPEECH	Conference Paper		
51	Self-Training and Error Correction using Large Language Models for Medical Speech Recognition	2024	Dungavath S.N.; Nataraj K.S.; Tiwari N.	2024 IEEE Conference on Engineering Informatics, ICEI 2024	Conference Paper		
52	LaRA: Large Rank Adaptation for Speech and Text Cross-Modal	2024	Shaik Z.H.; Hegde P.; Bannulmath P.; Deepak K.T.	EMNLP 2024 - 2024 Conference	Conference Paper		

	Learning in Large Language Models			ce on Empirical Methods in Natural Language Processing, Findings of EMNLP 2024			
53	Simulating the foundations of a robust quantum-secure internet for a quantum-connected world	2024	Shahakar N.; Belekar G.; Aswath Babu H.	Proceedings of CONECC T 2024 - 10th IEEE International Conference on Electronics, Computing and Communication Technologies	Conference Paper		
54	Optimizing Speech Recognition for Medical Transcription: Fine-Tuning Whisper and Developing a Web Application	2024	Roushan R.; Mishra H.; Yadav L.; Koppula S.; Tiwari N.; Nataraj K.S.	2024 IEEE Conference on Engineering Informatics, ICEI 2024	Conference Paper		

55	Automated prediction of loudness growth curve using EEG signals	2024	Tiwari N.; Vadyala A.R.; Nataraj K.S.	APSIPA ASC 2024 - Asia Pacific Signal and Information Processing Association Annual Summit and Conference 2024	Conference Paper		
56	French GossipPrompts: Dataset For Prevention of Generating French Gossip Stories By LLMs	2024	Sathvik M.S.V.P.J.; Dowpati A.; Narra R.K.	EACL 2024 - 18th Conference of the European Chapter of the Association for Computational Linguistics, Proceedings of the Conference	Conference Paper		
57	Vedalytics: Concepts as Knowledge from	2024	Chaturvedi A.; Vivekraj V.K.; Pakhale P.;	Proceedings - 2024	Conference Paper		

	Rules of the Ancient Indian Scriptures		Avinash K.	IEEE International Conference on Big Data, BigData 2024			
58	Infant Cry Verification with Multi-View Self-Attention Vision Transformers	2024	Jagtap K.; Gokavi N.; Saumya S.	2024 27th Conference on the Oriental COCOSD A International Committee for the Co-Ordination and Standardisation of Speech Databases and Assessment Techniques, O-COCOSD A 2024 - Proceedings	Conference Paper		
59	Integrating Context and Criteria in Hotel Recommendations: A Deep Learning	2024	Raaj K.; Murmu M.; Kanalli S.N.; Korgaokar T.; Vanahalli M.; Prasad P.; Sinha B.B.	2024 International Conference on Computation	Conference Paper		

	Perspective			ng, Sciences and Communi- cations, ICCSC 2024			
60	Comparison of Fair and FIFO Schedulers on Cloud Cluster of Apache Spark	2024	Reddy K.S.K.; Prasanna R.D.; Shaik Z.H.; Thippireddy R.K.R.; Madhav P.S.S.V.; Chaturvedil A.	2024 IEEE Conferen- ce on Engineer- ing Informat- ics, ICEI 2024	Conferen- ce Paper		
61	FeedForward at SemEval-2024 Task 10: Trigger and sentext-height enriched emotion analysis in multi-party conversations	2024	Shaik Z.H.; Prasanna R.D.; Jahnavi E.; Thippireddy R.K.R.; Madhav P.S.S.V.; Saumya S.; Biradar S.	SemEval 2024 - 18th Internati- onal Worksho- p on Semantic Evaluati- on, Procedi- ngs of the Worksho- p	Conferen- ce Paper		
62	Enhancing Medical ASR Accuracy through the Integration of T5-Based Small Language Models and Error Correction Mechanisms	2024	Kondai N.; Devapangu A.; Hosur S.K.; Raj P.; Tiwari N.; Nataraj K.S.	2024 IEEE Conferen- ce on Engineer- ing Informat- ics, ICEI 2024	Conferen- ce Paper		
63	Link Ontology	2024	Abhilash C.B.;	Procedi	Conferen		

	Analytics: Representing COVID-19 Data as Network Links		Manjunath K.V.; Chaturvedi A.; Mahesh K.	ngs - 2024 IEEE Internati onal Conferen ce on Big Data, BigData 2024	ce Paper		
64	Advancing Speaker Diarization With Whisper Speech Recognition for Different Learning Environments	2024	Desai A.; Kartik N.V.J.K.; Gupta P.; Vinayak; Ashwin T.S.; Vanahalli M.K.; Rajendran R.	2024 IEEE Internati onal Conferen ce on Teaching , Assessm ent and Learning for Engineer ing, TALE 2024 - Proceedi ngs	Conferen ce Paper		
65	Ukrainian Resilience: A Dataset for Detection of Help-Seeking Signals Amidst the Chaos of War	2024	Sathvik M.S.V.P.J.; Dowpati A.; Sethi S.	EMNLP 2024 - 2024 Conferen ce on Empirica l Methods in Natural Languag e Processi	Conferen ce Paper		

				ng, Findings of EMNLP 2024			
66	Enhancing Intrusion Detection Systems through Federated Learning and Gated Recurrent Units	2024	Dev A.; Lal A.; Yadav N.; Kumar M.	2024 IEEE Conferen ce on Engineer ing Informat ics, ICEI 2024	Conferen ce Paper		
67	SPP- DeepFilterNet: Integrating Speech Presence Probability for Speech Enhancement using Deep Learning	2024	Tiwari N.; Nataraj K.; Prasad V.	2024 IEEE Conferen ce on Engineer ing Informat ics, ICEI 2024	Conferen ce Paper		
68	Multimodal Analysis of Learning- Centered Emotions and Cognitive Processes in Open-Ended Learning Environments	2024	Yadannavar S.; Ashwin T.S.; Pathan R.; Vanahalli M.K.; Rajendran R.	2024 IEEE Internati onal Conferen ce on Teaching , Assessm ent and Learning for Engineer ing, TALE 2024 - Procedi ngs	Conferen ce Paper		

69	Deep Learning-Based Multi-Criteria Recommender System: Leveraging Autoencoders for Improved Personalization	2024	Chouti N.; Kusale S.; Mishra S.; Rajora S.; Prasad P.; Sinha B.B.; Vanahalli M.	2024 International Conference on Computing, Sciences and Communications, ICCSC 2024	Conference Paper		
70	Portfolio Optimization using Accelerated Quantum Simulation	2024	Belekar G.; Modani M.; Banerjee A.	TQCEBT 2024 - 2nd IEEE International Conference on Trends in Quantum Computing and Emerging Business Technologies 2024	Conference Paper		
71	Integrating Neural Network Models for Advanced Automation in Analog Amplifier Circuit Design	2024	Chavan A.P.; Shrish S.; Sanket M.; Abhishek G.; Kishan S.; Ravish A.; Pawar P.	Proceedings of CONECC T 2024 - 10th IEEE International	Conference Paper		

				Conference on Electronics, Computing and Communication Technologies			
72	S3T: A New Self-Supervised Learning with Swin Transformer	2024	Mazumdar H.; Saha S.; Bhargav P.; Satvik M.Sv.P.J.	2024 IEEE International Conference on Interdisciplinary Approaches in Technology and Management for Social Innovation, IATMSI 2024	Conference Paper		
73	Real-Time MRI Synthesis from Text Using a Two-Stage Pipeline for Pronunciation Training	2024	Kotni H.S.; Akkineni S.C.; Pranav V.; Mandava K.S.; Tiwari N.; Nataraj K.S.	2024 IEEE Conference on Engineering Informatics, ICEI 2024	Conference Paper		
74	Advancing Recommendations in Event-based	2024	Raj A.; Samanta R.; Saha B.; Ghosh S.K.	2024 IEEE 21st	Conference Paper		

	Social Networks with Twin Tower Neural Networks and Embedding Techniques			India Council International Conference, INDICON 2024			
75	Impact of Spontaneous Abortion of First-Trimester on Medical Management: A Systematic Review and Meta-Analysis of Randomized, Controlled Trials	2024	Ananya Prabhu, Kavya Sharma, Anwesa Acharya, Shivali Negi, Rinshu Dwivedi, Pushpdant Jain, Ramesh Athe	Modernizing Maternal Care With Digital Technologies	Book Chapter		
76	An Efficient Infectious Disease Detection in Plants Using Deep Learning	2024	Sunil C.K.;Jaidhar C.D.	Studies in Computational Intelligence	Book Chapter		
77	An Empirical Study on the Adoption of Fintech Services in Fostering Economic Growth	2024	Smita Nadiger, Anushree Kini, R.R.Kulkarni	The Economics of Financial Inclusion	Book Chapter		
78	Impact of amyloidosis on bones and its relationship to dementia	2024	Krishnendu Ghosh, Ricardo Fitas, Eshita Dey, Munmun Patra	Diagnosing Musculoskeletal Conditions using Artificial Intelligence and	Book Chapter		

				Machine Learning to Aid Interpretation of Clinical Imaging			
79	An Empirical Study on the Adoption of Fintech Services in Fostering Economic Growth: Mediating the Role of Digital Technology	2024	Nadiger S.; Kini A.D.; Kulkarni R.R.; Nimbagal S.; Panda A.	The Economics of Financial Inclusion	Book Chapter		
80	Impact of social responsibility indicators on the technical efficiency of banks using machine learning	2024	Gupta V.; Layek S.; Bhushan M.	Ethical Quandaries in Business Practices : Exploring Morality and Social Responsibility	Book Chapter		
81	Aerial infrared thermal imaging transmission line defect detection methods incorporating explicit visual center structures	2025	Dai G.;Wang C.;Tang Q.;He L.;Chen H.;Sunil C.K.;Dewi C.	Measurement: Journal of the International Measurement Confederation	Journal Article	5.6	SCI/S CIE
82	Feature	2025	Anusha R.;Sunil	Signal,	Journal	2.1	SCI/S

	integration for frontal gait recognition through contour image analysis		C.K.	Image and Video Processing	Article		CIE
83	Healthy menstruation: Myth or reality? Insights into urban slums of Vishakhapatnam city, India	2025	Pandey G.; Darbhamulla T.; Athe R.; Dwivedi R.	Journal of Water Sanitation and Hygiene for Development	Journal Article	1.7	SCI/S CIE
84	Bayesian-error-informed contrastive learning for knowledge-based question answering systems	2025	Yerragunta S.; Prasath R.; Girish G.N.	Computers and Electrical Engineering	Journal Article	4.9	SCI/S CIE
85	Noise-Aware Self-Supervised Variational Autoencoder for Speech Enhancement	2025	Dixit A.; Nataraj K.S.; Tiwari N.	Circuits, Systems, and Signal Processing	Journal Article	2	Scopus
86	Exploring Holistic Healing of Cancer: German New Medicine (GNM) and Homeopathic Treatment Beyond Traditional Therapies	2025	Konudula R.; Gorantla C.; Athe R.	Journal of Applied Toxicology	Journal Article	2.8	SCI/S CIE
87	Spectral Analysis Based Objective Assessment of	2025	Dubey A.K.; Prasanna S.R.M.; Dandapat S.	Circuits, Systems, and	Journal Article	2	SCI/S CIE

	Hypernasality in Cleft Palate Speech: A Review			Signal Processing			
88	A Novel Algorithm for Aspect Ratio Estimation in SRAM Design to Achieve High SNM, High Speed, and Low Leakage Power	2025	Mantrashetti S.M.; Chavan A.P.; Pawar P.; Aradhya H.V.R.; Powar O.S.	IEEE Access	Journal Article	3.6	Scopus
89	A social context-aware graph-based multimodal attentive learning framework for disaster content classification during emergencies	2025	Dar S.S.; Rehman M.Z.U.; Bais K.; Haseeb M.A.; Kumar N.	Expert Systems with Applications	Journal Article	7.5	Scopus
90	Automated Loudness Growth Prediction From EEG Signals Using Autoencoder and Multi-Target Regression	2025	Rama Harshita D.; Tiwari N.; Padole H.; Nataraj K.S.	IEEE Access	Journal Article	3.6	SCI/S CIE
91	Optimizing Pix2Pix GAN With Attention Mechanisms for AI-Driven Polyp Segmentation in IoMT-Enabled Smart Healthcare	2025	Mazumdar H.; Chakraborty C.; Sathvik M.; Jayakumar P.; Kaushik A.	IEEE Journal of Biomedical and Health Informatics	Journal Article	7.7	SCI/S CIE
92	Enhancing knowledge-based question	2025	Yerragunta S.; Prasath R.; Girish G.N.	Expert Systems with	Journal Article	7.5	SCI/S CIE

	answering with dense passage retrieval-based scaled momentum contrastive learning			Applications			
93	Performance assessment of voice conversion models using speech production-based parameters	2025	Dasare A.; Deepak K.T.	Computer Speech and Language	Journal Article	3.4	SCI/S CIE
94	A New Genetic Algorithm-Based Network for Text Localization in Degraded Social Media Images	2025	Palaiahnakote S.; Kumar C.P.; Aggarwal P.; Sharma S.; Chandana P.; Basavanna M.; Pal U.	IET Image Processing	Journal Article	2.2	SCI/S CIE
95	Integrated Nocturnal Mental Health Service Model: Addressing Barriers to Mental Health Care at Night in Malaysia	2025	Kotikalapudi B.B.; Selavaraj B.; Sheibani S.; Sewwandi W.N.; Bakar A.B.A.; Athe R.	International Journal of Environmental Sciences	Journal Article	0.17	Scopus
96	Recommending Personalized Video Lecture Augmentations with Tagged Community Question Answers	2025	Ghosh K.	International Journal of Artificial Intelligence in Education	Journal Article	8.5	Scopus
97	Anomaly Detection in	2025	Taneti R.C.; Hegadi R.;	Digest of Technica	Conference Paper		

	Cybersecurity: Evaluating Machine Learning Models on the BETH Dataset		Vineeth S.R.; Roopashri Tantri B.	l Papers - IEEE Internati onal Conferen ce on Consum er Electroni cs			
98	FuzzyMIL: Decoupling Pathological Phenotypes through Deep Fuzzy Clustering for Efficient Whole Slide Image Analysis	2025	Liu A.; Li T.; Cai J.; Vajrala S.S.V.	ICASSP, IEEE Internati onal Conferen ce on Acoustic s, Speech and Signal Processi ng - Procedi ngs	Conferen ce Paper		
99	Cross-lingual Evaluation Of Hypernasality Using Wav2Vec2 Features	2025	Kothadia K.; Vikram C.M.; Abraham A.; Pushpavathi M.; Prasanna S.R.M.; Scherer N.; Chapman K.; Liss J.; Berisha V.	ICASSP, IEEE Internati onal Conferen ce on Acoustic s, Speech and Signal Processi ng - Procedi ngs	Conferen ce Paper		
100	From Notes to Nodes: Patient- Centric	2025	Yerragunta S.; Girish G.N.; Prasath R.	2025 Internati onal	Conferen ce Paper		

	Knowledge Graph for Targeted Glaucoma Care			Conference on Ambient Intelligence in Health Care, ICAIHC 2025			
101	Figurative-cum-Commonsense Knowledge Infusion for Multimodal Mental Health Meme Classification	2025	Mazhar A.; Shaik Z.H.; Srivastava A.; Ruhnke P.; Vaddavalli L.; Katragadda S.K.; Yadav S.; Akhtar Md.S.	WWW 2025 - Proceedings of the ACM Web Conference	Conference Paper		
102	FL-DABE-BC: A Privacy-Enhanced Decentralized Authentication and Secure Communication Framework for FL in IoT-Enabled Smart Cities	2025	Narkedimilli S.; Pravisha P.; Sriram A.V.; Raghav S.; Vangapandu P.	FMSys 2025 - Proceedings of the 2025 2nd International Workshop on Foundation Models for Cyber-Physical Systems and Internet of Things, 2025 Cyber-Physical	Conference Paper		

				Systems and Internet-of-Things Week, CPS-IoT Week 2025 Workshops			
103	Improving Learning to Cross-Lingual Question Answering via Performance Enhancement with XLM-R+ model	2025	Yerragunta S.; Singh P.; Prasath R.; Girish G.N.	Lecture Notes in Computer Science	Conference Paper		
104	Eulerian Magnification and Transformers for Enhanced rPPG-Based Pulse Rate Estimation in Indian Populations	2025	Shirke A.S.; Arunachala C.; Tiwari N.; Nataraj K.S.	2025 IEEE International Conference on Interdisciplinary Approaches in Technology and Management for Social Innovation, IATMSI 2025	Conference Paper		
105	Hate Speech Detection in	2025	Jahnavi E.; Chaturvedi A.	International	Conference Paper		

	Low-Resource Languages Hindi, Gujarati, Marathi, and Sinhala			Conference on Communication Systems and Networks, COMSNETS			
106	A New Transformer Based Approach for Multiple Types of Vehicles Counting in Complex Indian Scenes	2025	Agrawal P.; Palaiahnakote S.; Singh Y.; Kumar C.P.; Pal U.; Dixit S.; Jain U.; Dubey A.	Lecture Notes in Computer Science	Conference Paper		
107	Depression Clinic: People's Mental Health Prediction Using Information from Online Social Media Networks(OSN)	2025	Biradar S.; Saumya S.; Kalpajeet B.M.	Communications in Computer and Information Science	Conference Paper		
108	Planning UAV Trajectory for Multi-Commodity Package Pickup and Delivery	2025	Chen Y.-F.; Sheu J.-P.; Bhat J.R.	IEEE Wireless Communications and Networking Conference, WCNC	Conference Paper		
109	Advanced techniques for anomaly detection: Beyond the	2025	Wahid A.; Donta P.K.	Advanced Techniques for Anomaly	Book		

	basics			Detection: Beyond the Basics			
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**Research labs:**

**1. 5G Use Case Lab – IIIT Dharwad**



IIIT Dharwad has been selected as a recipient of the prestigious “5G Use Case Lab” under the "100 5G Use Case Labs" initiative launched by the Department of Telecommunications (DoT), Government of India, in 2023. This national initiative aims to foster innovation, experimentation, and capacity-building in 5G technologies across higher education institutions in India.

**Vision and Objectives**

The primary goal of the lab is to develop competencies in 5G technologies among students, faculty, and startups, enabling India’s academic and innovation ecosystem to become 6G-ready. The lab facilitates the development and experimentation of 5G-based applications across various socio-economic sectors such as:

- Education
- Agriculture
- Healthcare

- Urban governance
- Power and energy
- Mining and logistics
- Resource and waste management
- Tourism and sports
- Public safety and e-Governance

**The specific objectives of the program at IIIT Dharwad are:**

1. Build competencies in 5G among students and academic stakeholders.
2. Enable student projects at UG and PG levels using the 5G test environment.
3. Encourage academia-industry collaboration to co-develop and pilot 5G use cases.
4. Provide local access to 5G infrastructure for startups and MSMEs in the region.
5. Strengthen the national ecosystem for 6G readiness by building foundational 5G skills.

**Infrastructure and Equipment:**

The 5G Use Case Lab is equipped with a robust 5G Standalone (SA) infrastructure (mid-band) and a range of modern 5G-enabled devices and components, including 5G SIMs and Dongles, IoT Gateway, Mini Drone, 5G-enabled Camera, Virtual Reality (VR) Headset with 5G support, 5G Router and Application Server, and Centralized Management Dashboard. This setup supports end-to-end development, deployment, and testing of 5G applications in a real-time environment.

**Skill Building and Outreach Activities**

To ensure wide dissemination and capacity-building, IIIT Dharwad launched multiple initiatives through the lab:

Faculty Development Workshop on 5G Technology (July 16–18, 2025): A three-day workshop aimed at training young faculty members on 5G architecture, core network functions, radio access networks (RAN), network slicing, QoS management, and OAI-based experimentation. The workshop included expert lectures, live demonstrations, and hands-on sessions utilizing the 5G Use Case Lab resources.

Conducted as a joint initiative with the Centre of Excellence in Wired and Wireless Technologies, ArtPark, IISc Bangalore.

## 2. Embedded System & UAV Lab



### **Mission**

Advancing intelligent, reliable, and autonomous systems from chip to sky to address real-world challenges in infrastructure, environment, and agriculture through rigorous research, rapid prototyping, and field deployment.

### **Who we are**

The Embedded Systems and Drone Research Lab specializes in end-to-end innovation across embedded computing, perception, and autonomous aerial systems. We design low-power hardware, develop real-time software, and integrate advanced sensing and AI to deliver deployable solutions. Our workflows blend simulation, iterative prototyping, and validated field trials to bridge theory and practice, with a strong emphasis on reproducibility, safety, and ethical deployment.

- Drones in Lab
- Digital Twin Set-up
- IC Designs and Other Components From Lab

## **Focus Areas**

- Embedded intelligence: RTOS and real-time firmware, edge AI/ML on MCUs/SoCs, energy-aware design
- Autonomy and control: state estimation, robust control, multi-sensor fusion (IMU/GNSS/vision/LiDAR)
- Perception and navigation: VIO, SLAM, mapping, obstacle avoidance, GPS-denied localization
- Systems engineering: embedded Linux, ROS/ROS 2 integration, verification/validation, safety and security for UAVs

## **Current Projects**

- Terrain Elevation Mapping to Manage Runoff and Prevent Soil Erosion: High-resolution DEMs from UAV photogrammetry/LiDAR quantify slope, aspect, and flow accumulation to produce runoff risk maps and erosion hot-spot indices, guiding interventions such as contour bunds, check dams, and vegetative barriers.
- Integrating Digital Twin Technology in Smart Agriculture: A cyber-physical twin of fields combining IoT sensing (soil moisture, microclimate, multispectral imagery) with predictive models and edge AI for irrigation scheduling, nutrient management, early stress detection, and what-if scenario testing.
- LiDAR–GPS Integrated System for Real-Time Pothole Detection and Google Earth Visualization: A mobile sensing stack fusing LiDAR point clouds with GNSS/IMU for on-the-fly pothole detection, geotagging, and visualization, enabling map-ready maintenance planning. Status: Peer-reviewed and published with Springer Nature.

## **Facilities and Capabilities**

- Prototyping and development: Core tools for embedded firmware work, basic electronics assembly, and small-scale hardware prototyping
- UAV and robotics workbench: Workspace for assembling and testing small aerial/ground platforms with standard safety practices
- Sensing and data collection: Access to commonly available sensors/modules and flexible integration with off-the-shelf development boards
- Software and simulation: Open-source toolchain for perception, mapping, and control using ROS/ROS 2, Python/C++, and standard simulators
- Field testing: Indoor/outdoor areas suitable for small-scale trials with procedures for safe operation and basic data logging
- Data and analytics: Workflows for dataset management, annotation, and analysis using widely available GIS and ML libraries
- Training and documentation: Student mentoring, code reviews, and

documentation standards for reproducibility

## **Impact**

- Urban infrastructure: Rapid, geotagged defect inventories streamline maintenance planning and budgeting
- Watershed resilience: DEM-driven runoff planning reduces topsoil loss and informs cost-effective interventions
- Sustainable agriculture: Digital twins optimize inputs, enhance water-use efficiency, and improve yield reliability

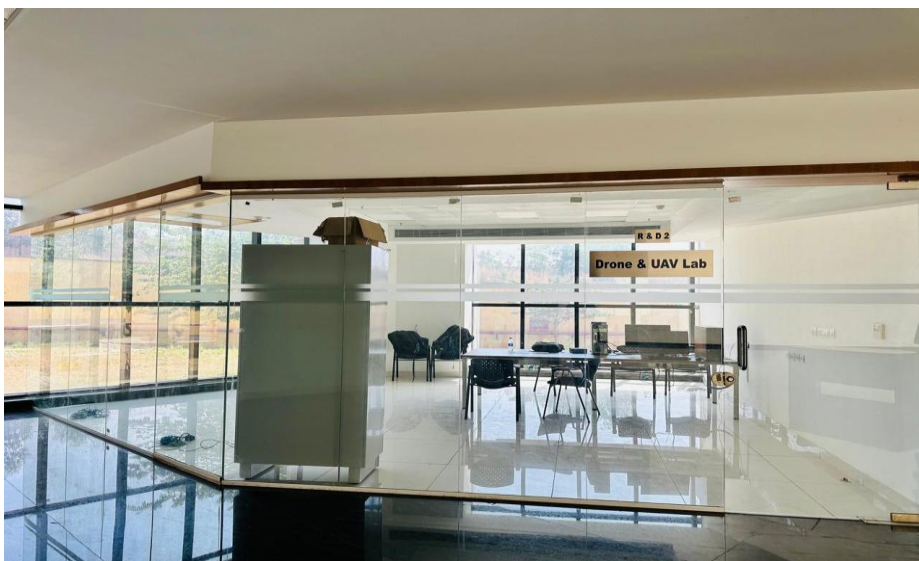
## **Opportunities**

- Students: Internships, thesis projects, and research assistantships in embedded AI and autonomous systems
- Industry and institutions: Sponsored research, pilot deployments, and technology transfer
- Project partners: Data sharing, field trials, and co-development of domain-specific solutions

## **Publication Highlight**

- The LiDAR–GPS pothole detection system was published with Springer Nature Conference.

## **3. Embedded Systems and Drone Research Lab**



The Embedded Systems and Drone Research Lab specialize in end-to-end innovation across embedded computing, perception, and autonomous aerial systems. We design low-power hardware, develop real-time software, and integrate advanced sensing and AI to deliver deployable solutions. Our workflows blend simulation, iterative prototyping, and validated field trials to bridge theory and practice, with a strong emphasis on reproducibility, safety, and ethical deployment.

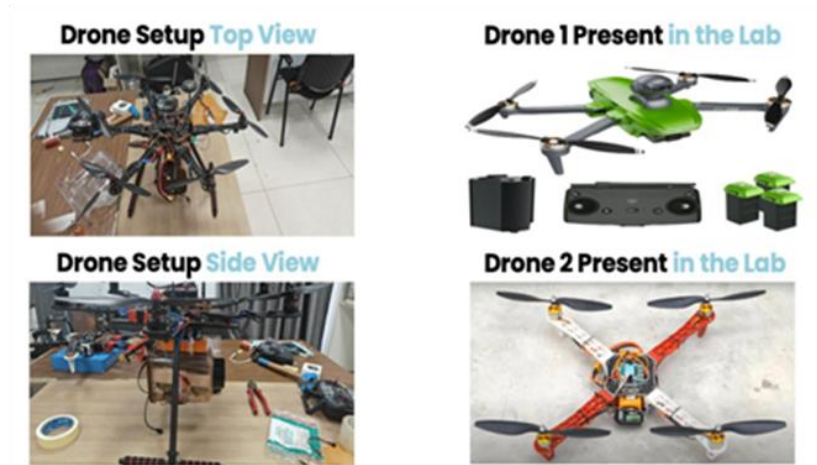


Figure 17: Drones in the Lab



Figure 18: Digital Twin Set-up

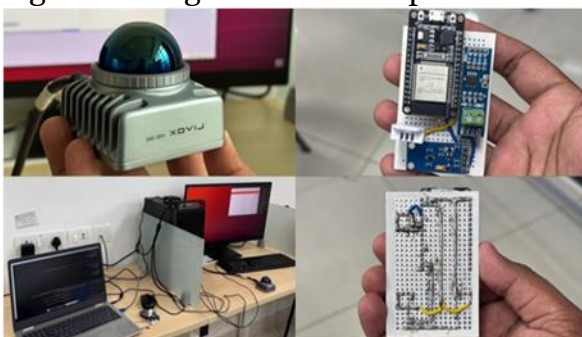


Figure 19: IC Designs and Other Components from Lab

## **Focus Areas**

- Embedded intelligence: RTOS and real-time firmware, edge AI/ML on MCUs/SoCs, energy-aware design
- Autonomy and control: state estimation, robust control, multi-sensor fusion (IMU/GNSS/vision/LiDAR)
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## **Current Projects**

Terrain Elevation Mapping to Manage Runoff and Prevent Soil Erosion: High-resolution DEMs from UAV photogrammetry/LiDAR quantify slope, aspect, and flow accumulation to produce runoff risk maps and erosion hot-spot indices, guiding interventions such as contour bunds, check dams, and vegetative barriers.

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- Sensing and data collection: Access to commonly available sensors/modules and flexible integration with off-the-shelf development boards
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- Data and analytics: Workflows for dataset management, annotation, and analysis using widely available GIS and ML libraries
- Training and documentation: Student mentoring, code reviews, and documentation standards for reproducibility

## **Impact**

Urban infrastructure: Rapid, geotagged defect inventories streamline maintenance

planning and budgeting

Watershed resilience: DEM-driven runoff planning reduces topsoil loss and informs cost-effective interventions

Sustainable agriculture: Digital twins optimize inputs, enhance water-use efficiency, and improve yield reliability

### **Publication Highlight**

The LiDAR–GPS pothole detection system is published with Springer Nature Conference.

## **4. Semiconductor and VLSI Group:**

This group at IIIT Dharwad functions to promote semiconductor and related technology growth by creating interests and offering opportunities for students to meet the nation's self-reliance in the semiconductor technology sector. For continuous engagement and activities, the group functions with the C2S scheme, supported EDA tools, and required hardware in a space in the Pi block of the institute. Currently, the group with dedicated students is working on a SIDHARUD chip design project that will soon be taped out for fabrication. The fabrication will be done in the Global Foundries 180nm technology node in collaboration with Synopsys. The RISC-V-based SoC can enhance the capabilities of a host processor by extending its ports. The group space is also a breeding ground for technical clubs.

## **5. Healthcare Technologies Group**

This group at IIIT Dharwad works towards developing cutting-edge solutions for biomedical image, signal, and genomic data analysis. The group is currently working on multiple funding projects for the early diagnosis of different diseases and therapeutics. Group works collaboratively with different hospitals in India and abroad.

### **MoUs (2024–2025)**

IIIT Dharwad has entered into Memoranda of Understanding with a range of national partners for skill development, research, and academic collaboration.

List of MoU and scope:

- YourDost Health Solutions Pvt. Ltd. (2024): Providing psychological and emotional support for students and staff, with an on-campus counselor.
- NASSCOM / IT-ITeS Sector Skills Council (2024): Skill upgradation in emerging digital and professional technologies via training programs for students and staff.
- Telecommunications Consultants India Limited (TCIL) (2024): Setting up and maintaining a 5G use case lab, with support from India's Department of

Telecommunication.

- Aequs Pvt. Ltd. (2024): Industry-academia partnership; details not publicly specified.
- Karnataka State Rural Development and Panchayat Raj University (KSRDPUR) (2024): Academic and institutional collaboration.
- IIT Dharwad (signed 11 June 2024): Joint academic programs, research, internships, and shared facilities.
- Siddaganga Institute of Technology (SIT) Tumakuru (2024): Institutional academic collaboration.
- KLE Technological University, Hubballi (signed 9 July 2024): Academic partnership.
- HAL (Hindustan Aeronautics Limited) (signed February 2025): Joint research and technical education in AI, data science, robotics, AR/VR, digital manufacturing, and defence applications.
- SDM University (Dharwad) (signed March 2025): Focused on joint research, technology innovation, and healthcare data analytics.
- Other recent/ongoing partnerships also include State Bank of India (for digital payments innovation) and entrepreneurship support organizations (Deshpande Startups Hubballi).

Focus Areas of the MoUs are Skill Development, Healthcare Research & Data Analytics, Industry Collaboration- Collaborative research, internships, and knowledge-sharing with major organizations such as HAL and Aequs, Academic Synergy- IIT Dharwad, KLE Tech, IIIT Raichur, and others for faculty and student enrichment.

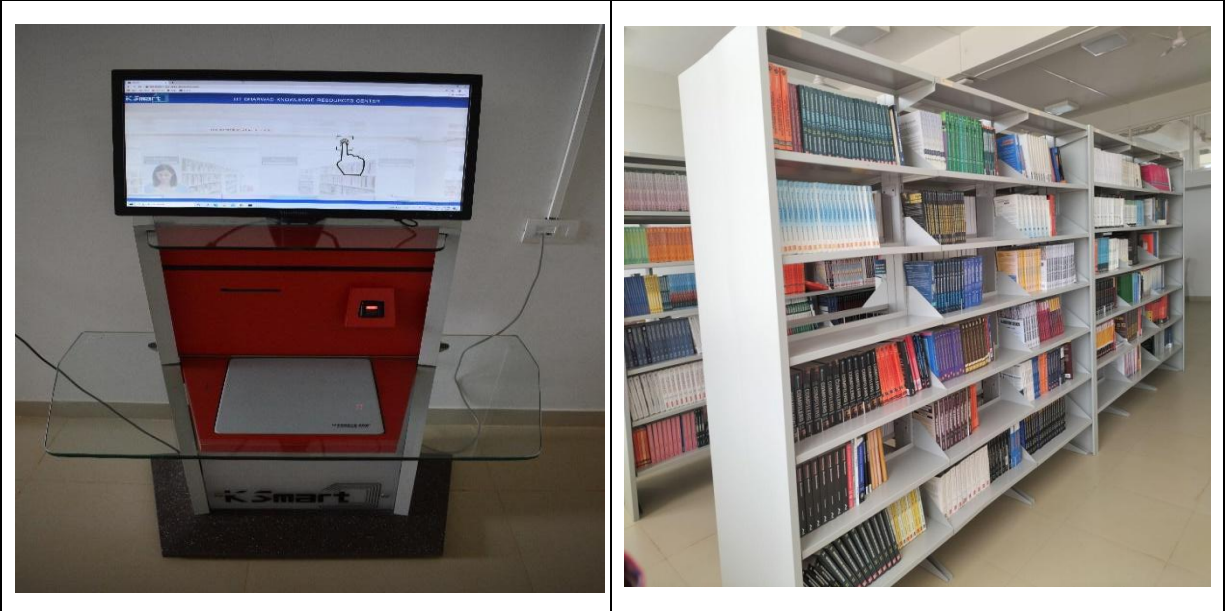
These MoUs foster technology-driven research, industry alignment, student-focused upskilling, and multi-institution academic growth for IIIT Dharwad.

## **Infrastructure**

### **Knowledge Resources Centre**

The Knowledge Resources Centre (KRC) of IIIT Dharwad is innovative and user-focused that aims to develop, organize, preserve, and deliver information for the IIIT Dharwad community. The KRC is fully automated with all the required software tools, RFID technology, and biometric-enabled circulation system. It has a rich collection of reference books, textbooks, CDs, and technical and general print magazines subscriptions.

IIIT-Dharwad has reinvented its library with a separate textbook issue section in the  $e$  block as a 24/7 self-service facility that enables users to borrow, return or renew books with the help of a Kiosk. The rest being a spacious Knowledge Resource Centre at the  $\pi$  block meant primarily for nurturing student team projects, discussions, and collaborations. The Institute presently has 4290 total book volumes with 455 titles.



## Hostel Facilities

Boys' and Girls' Hostels in IIIT Dharwad feature spacious and well-furnished rooms with WiFi connectivity and a modern kitchen, dining, and laundromat facilities for a comfortable stay. Hostels also provide Common Rooms for student entertainment and activities. The Boys Hostel, referred to as the  $b$  Block, is spread over 6 floors with two hundred rooms. The Infosys Foundation Girls Hostel, referred to as the  $g$  Block, built by Infosys Foundation as a gift for IIIT Dharwad has about one hundred rooms.



## Health and Fitness Centre

The Health and Fitness Block, called the *h* Block, has spaces for a Wellness Centre, pharmacy, gymnasium, yoga room, activity/club rooms, music room, canteen, e-Bank, salon, and a small shop for essential supplies. The *h* Block can be used for small gatherings, music, and digital screening.



## Placement

The role of the Career Guidance Cell is to facilitate and counsel the students for placement related activities like technical training, personality development and language skills, evaluation tests, and training for entrance exams for higher studies and opportunities abroad. This facility is available to all the students registered with CGC.

The CGC Coordinator sends invitations to companies/organizations along with relevant information for the placements and/or internships, or a company may approach the CGC with filled in SRF (Student Recruitment Form – available in the web portal) for placement/internship. All the registered students graduating from the institute are eligible to participate in the placement activities.

### Placement Proceedings and Statistics:

- The placement season for the 2024–25 batch culminated with 82.50% of the students placed in various companies.
- The placement season for the 2024–25 batch started during the first week of August 2024 with 239 students registered for the placement activities through CGC.

- Senior executives and company professionals visited the campus and addressed the students on the career opportunities.
- 95 companies participated during the 2024–25 placement season out of which 74 companies engaged in the placement process.
- A total of 216 offers have been received out of which 165 students have been placed.
- Top companies like Oracle, IBM, Nvidia, Infosys, TCS, Siemens, Capgemini, Cognizant, Tesco, etc. have participated in the placement drives.

## **IIIT Dharwad Conclave 2024**

The IIIT Dharwad Conclave 2024, held on November 10th, was a landmark event that brought together top HR professionals, deep tech innovators, and aspiring students under one roof. This unique initiative served as a platform for fostering meaningful connections and sharing valuable insights into innovation, technology, and career development. The Conclave also marked the commencement of the 10th-anniversary celebrations of IIIT Dharwad, highlighting a decade of excellence in education and innovation.

### Key Highlights

#### **1. Networking with HR Professionals**

- HR representatives from leading organizations engaged with students, sharing insights on what companies seek in candidates.
- Discussions on hiring trends, skill requirements, and employability factors were instrumental in guiding students toward career success.

#### **2. Deep Tech Innovations**

- Renowned deep tech innovators showcased the latest advancements in technology.
- Interactive sessions provided students with firsthand exposure to cutting-edge solutions and their impact on various industries.

#### **3. Focus on Tech and Placement Trends**

- Industry leaders delivered talks on emerging technologies and placement dynamics.
- Sessions highlighted in-demand skills, enabling participants to stay ahead in an ever-evolving job market.

#### **4. Guidance from Experts**

- Expert panels addressed queries on career planning, skill enhancement, and industry developments.
- The interactive format allowed participants to gain tailored advice for navigating their professional journeys.

## Participation

- Delegates: The event hosted 44 HR professionals and deep tech experts.
- Attendees: Over 1000 students and faculty members actively participated in the sessions and networking opportunities.

## Outcomes

- Strengthened relationships with HR and industry leaders, fostering opportunities for student placements and internships.
- Enhanced awareness among students about the evolving tech landscape and its implications for career growth.
- A celebratory start to the 10th-anniversary festivities of IIIT Dharwad, emphasizing its contributions to education and technology.

## Conclusion

The IIIT Dharwad Conclave 2024 was a resounding success, achieving its goals of bridging the gap between academia and industry. As we celebrate 10 years of IIIT Dharwad's journey, this event stands as a testament to our commitment to nurturing talent and driving innovation. The insights and connections forged during the Conclave will undoubtedly pave the way for brighter futures for all participants and for IIIT Dharwad as an institution.

Following are the photos to highlight the key events of IIIT Dharwad Conclave 2024





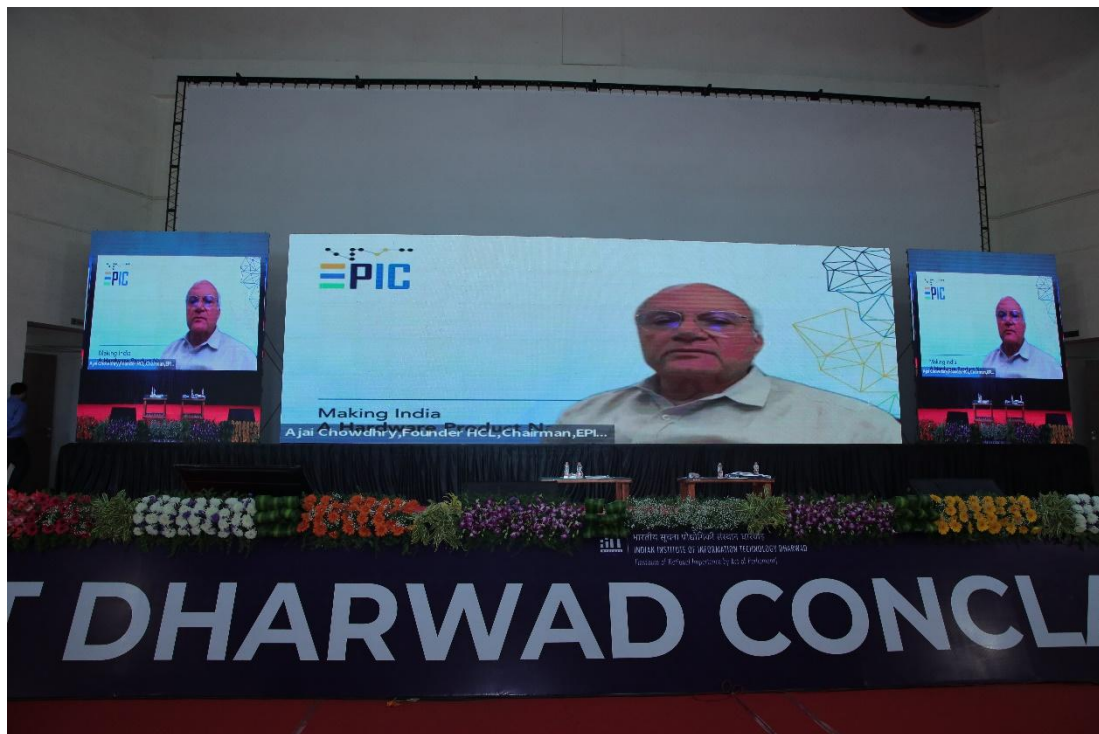
Lighting of the lamp by the Chief Guest Shri Pralhad Joshi Ji, Union Minister of Consumer Affairs, Food and Public Distribution.



Shri Pralhad Joshi Ji, Union Minister of Consumer Affairs, Food and Public Distribution, and Shri Arvind Bellad Ji, MLA of Hubli-Dharwad West Constituency.



Address by Shri Aravind Melligeri Ji, Founder & Chairman of Aequs.



Address by Padma Bhushan, Shri. Ajai Chowdhry, co-founder of HCL



Panel Discussion: Talent Ecosystem 2030: Shaping Tomorrow's Workforce for a Dynamic Employment Landscape



The Challenges of UpSkilling & ReSkilling GenAlpha -Preparing the workforce of tomorrow Discussion



Panel Discussion: Challenges and Opportunities of Technology Disruption in VUCA world – Navigating the future of Skills and Work



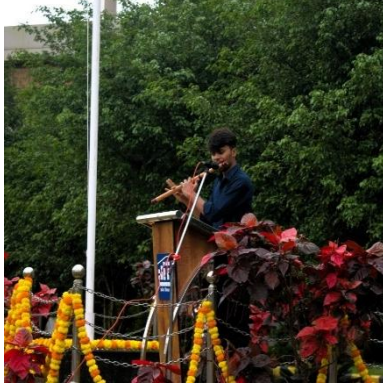


## Glimpse of Events

### 440 Hz, Music Club, IIIT Dharwad

### Independence Day 2025

The Independence Day performance celebrated freedom through a mix of classical, contemporary, and fusion music. The club's diverse lineup of singers and instrumentalists delivered a heartfelt tribute that resonated with the audience.



## Sangeet 2K25

Sangeet 2K25 stood out as the **best cultural fest of IIIT Dharwad**, and 440 Hz added to its charm with an energetic and memorable performance. The setlist was carefully chosen to connect with the audience, and the execution was appreciated for its precision and enthusiasm. The club's performance became one of the highlights of the evening, showcasing how music can bring the entire campus together in celebration.





## Freshers' Party 2025

Welcoming the new batch, 440 Hz performed a lively mix of melodies that broke the ice and made freshers feel at home. The performance highlighted the club's collaborative spirit and musical talent, leaving a lasting impression on the newcomers.





## Sports activities

Sl No	Activity	Date
1	International Day of Yoga	21 <sup>st</sup> July 2024
2	National Sports Day (Cross Country Run)	29 <sup>th</sup> August
3	National Sports Day invitational Tournament	11 <sup>th</sup> to 29 <sup>th</sup> August 2024
4	Intra Sports computation 2024-25	11 <sup>th</sup> November 2024
5	Inter IIIT Sports Meet	20 <sup>th</sup> to 23 <sup>rd</sup> March 2025

### International Day of Yoga

The '10th International Day of Yoga-2024' at IIIT Dharwad is celebrated under the guidance of honorable Director Prof. S.R. Mahadeva Prasanna. In this event Director, Officiating Registrar, Associate Deans, PIC, FIC, faculty, staff and students participated. Director Prof. S.R. Mahadeva Prasanna, IIIT Dharwad wished everyone on 'International Day of Yoga-2024' by sharing his thoughts about yoga and motivated everyone to engage in yoga activity every day.

The yogic practices started under the guidance of Assistant Sports Coach Mr. Naveen

Shirahatti. The session started with warm-up exercises for the first few minutes to prepare the body for yogic practices. Further, the session on yoga continued with demonstration of asana and Pranayama explaining their benefits.



## Cross-Country Run on National Sports Day on 29th August 2024

On the occasion of National Sports Day, IIIT Dharwad Sports Committee has hosted a thrilling cross-country run event for all the students and staff members on 29th August 2024. The event aimed to promote physical fitness, teamwork, and a connection with nature. Around 70+ participants participated in the event.





## **National Sports Day invitational Tournament**

National Sports Day Celebration Committee Dharwad has organised invitational tournament for Basketball, Volleyball, Football, Table Tennis, and Badminton and Cross country run from 11<sup>th</sup> to 29<sup>th</sup> august 2024. In this event IIT Dharwad teams are participated and secured medals in following sports.

1. Miss. Sakshi Kusale women cross country run 1<sup>st</sup> place.
2. Football men secured 1<sup>st</sup> place.
3. Basketball men secured 2<sup>nd</sup> Place.
4. Volleyball men secured 3<sup>rd</sup> place.





## Annual Intra Sports Meet

The Sports Committee is organized the **Annual Intra Sports Meet 2024-25** from **14<sup>th</sup> November 2024**. As a part of the Sports Meet, we, the sports committee, have conducted the following games:

Cricket, Football, Volleyball, Basketball, Shuttle Badminton, Kabaddi, Table Tennis, Chess, Carrom and Arm Wrestling

Around 700 students were participated in across all the sports. Certificates, medals & Trophies were given to all the Winners and Runners up students.





## 7<sup>th</sup> Inter IIIT Sports Meet 2024-25

IIIT Gwalior has organized 7<sup>th</sup> Inter IIIT Sport meet from 20<sup>th</sup> March 2025 to 23<sup>rd</sup> March 2025. Total 23 IIITs and 2100 plus students across the India participated in this sports meet.

From IIIT Dharwad 115 Students and 4 Escorts were participated in the prestigious sports meet in Cricket, Football, kabaddi , kho–kho, Volleyball, Basketball, Tennis, Shuttle Badminton, Table Tennis, Chess, Carrom, Swimming, Squash , Weight Lifting and Athletics.

Our students played very well and gave their best performance throughout the sports meet and **IIIT Dharwad has secured 2<sup>nd</sup> Runner up position in Overall Championship.**

The results as follows:

1. Basketball (Women) – First Place
2. Sakshi Kusale 3000 Meter Run (Women) - First Place
3. Sakshi Kusale 1500 Meter Run (Women) - First Place
4. Sakshi Kusale 800 Meter Run (Women) - First Place
5. Prateek Swamy 100 Meter Run (Men) – First Place
6. Ganesh High Jump (Men) – First Place
7. Samtusta High Jump (Men) – First Place
8. Dhanaraj 200 meter Swimming Freestyle (Men) First Place
9. Meghana 50 meter Swimming Butterfly (Women) First Place
10. Carrom (Women) - Second Place
11. Shuttle Badminton (Boys) – Second Place
12. Samtusta Long Jump (Women) – Second Place
13. Prateek Swamy 200 Meter Run (Men) – Second Place
14. Swimming 4X50 meter free style relay (Men) Second Place
15. Swimming 4X50 meter free style relay (Women) Second Place
16. Swimming 4X50 meter free Medley relay (Men) Second Place
17. Jatin Swimming free style 50 meter (Men) Second Place
18. Jatin Swimming breaststroke 50 meter (Men) Second Place
19. Table Tennis (Men) – Third Place

20. Chitrangana Weight Lifting (Women) Third Place
21. Meghana 100 meter Swimming Freestyle (Women) Third Place
22. Jatin Swimming breaststroke 100 meter (Men) Third Place
23. Dhanaraj 50 meter Swimming Freestyle (Men) Third Place
24. Simon 110 Meter Hurdles (Women) Third Place
25. Ansh Discuss throw (Men) Third Place
26. 4X400 Meter Relay (Men) Third Place
27. Harshit Triple Jump (Men) Third Place
28. Volleyball (Women) - Fourth Place
29. Kho Kho (Women) - Fourth Place
30. Kho Kho (Men) - Fourth Place
31. Chess (Men) - Fourth Place
32. Shrinivas 800 meter Run - Fourth Place
33. Meghana Swimming breaststroke 50 meter (Women) - Fourth Place

**Overall 5<sup>th</sup> Position | Men 3<sup>rd</sup> Position | Athletics and Aquatics Men 2<sup>nd</sup> Position | Athletics Women 3<sup>rd</sup> Position.**







## Teachers' Day

Teacher's day was celebrated on 5th September in IIIT Dharwad with great pomp and grandeur. The event started with a welcome address followed by melodies which were the perfect start for the evening. Students from our Music Club sang the songs. This was followed by a speech addressing all teachers and students by the Literature Club. We conducted a short game for teachers. The limelight of the event was the Drama by our drama club, signifying the importance and eminence of teachers in our life. It included various acts and pieces with songs and dances making it more lively and cheerful. A short video was made by Team Iridescence, thanking all the teachers and role models for whom we are grateful for everything we have today. The evening ended with a musical treat for the audience, with the Registrar, Dr. Channappa Akki, singing melodies for us. The vote of thanks was followed by handing over thank you cards to all the staff members and signing on the signature board as a memory of the day.

# Freshers' Day Play 2025

**Organized by:** LIMELIGHT, Drama Club, IIIT Dharwad.

**Date:** 04th September 2025

**Venue:** m - block, IIIT Dharwad

## Objectives:

The play aimed to welcome freshers with a vibrant cultural experience that highlighted the energy of the IIIT Dharwad community. Its purpose was to create an atmosphere of belonging, encourage students to participate in cultural activities, and introduce them to the club culture in a fun and accessible manner. Through humor and exaggerated scenarios, the play sought to entertain while offering subtle commentary on the dynamics of student auditions.





## **Events conducted by different clubs of IIIT Dharwad**

### **Prabodhini- The Indian Knowledge System ( IKS )**

#### **Ram Navami Celebration ( April 17, 2024 )**

Celebrated on April 17, 2024, the Ram Navami celebration on campus was a serene and devotional gathering organized by Prabodhini Club. The venue was adorned with simple yet graceful decorations, creating a peaceful and sacred atmosphere. Students came together to honor the birth of Lord Rama with heartfelt bhajans and chanting that filled the space with reverence and positivity. The event concluded with the distribution of prasad, leaving everyone with a sense of spiritual fulfillment and togetherness.





### **Krishna Janmashtami Celebrations ( August 26, 2024 )**

Conducted by Prabodhini Club, held at midnight to honor the birth of Lord Krishna, was a vibrant and spiritual event. The Mosaic Art Club beautifully decorated the venue with a stunning Jhanki and intricate rangoli, bringing the festivities to life with their creativity and vibrant colors. The students gathered in large numbers, creating a warm and joyful atmosphere. The soothing hymns and bhajans, created an atmosphere of reverence and unity. The celebration ended with the distribution of prasad, marking the end of a night filled with devotion and unity.





### **Dahi Handi Competition (August 27, 2024)**

As part of the Janmashtami festivities, the Prabodhini club organized the thrilling Dahi Handi competition, a popular tradition symbolizing Lord Krishna’s love for butter. Students enthusiastically formed teams to recreate the iconic human pyramids to reach and break the pot (handi) suspended at a height of 18 feet.



### **Ganesh Chaturthi Celebration (September 7-8, 2024)**

The Ganesh Chaturthi celebration began with the sacred circumambulation of Lord Ganesha around the campus, followed by pooja and aarti. In the evening, the mood shifted to one of fun and excitement, with activities like the rangoli competition, lemon spoon race, and student performances.

The next day the atmosphere turned bittersweet as the final aarti was performed before the Visarjan.



### **Talk on "Swami Vivekananda and His Contribution to Bharat" by Dr. Suresh Nayak (September 9, 2024)**

The Prabodhini Club hosted an inspiring talk by Dr. Suresh Nayak, a distinguished academic and social worker, on the life and vision of Swami Vivekananda. Dr. Nayak's powerful words took the audience on a journey through Swami Vivekananda's profound contributions to Bharat, touching hearts and igniting a sense of pride in India's spiritual and cultural heritage. His reflections on Swami Vivekananda's teachings were not just an intellectual exploration, but an emotional appeal to the youth to live with purpose and contribute to the nation's progress. The session left everyone present with a renewed sense of inspiration, urging them to carry forward Swami Vivekananda's message of service, self- development, and dedication to the nation.





## **Talk on "Rituals and Their Relevance" by Prof. B.D. Patel (October 21, 2024)**

The enlightening talk on “Rituals and Their Relevance”, delivered by Prof. B.D. Patel, brought profound insights to the audience. With his rich academic and administrative experience as the former principal of the Government Homoeopathic Medical College & Hospital, Bangalore and Chandigarh, and as the former chairman of the Board of Studies (Bangalore University), Prof. Patel eloquently explored the spiritual, cultural, and societal significance of rituals in our daily lives.

Drawing from his vast expertise and as a recipient of the Lifetime Achievement Award, Prof. Patel shed light on how rituals serve as a bridge between tradition and modernity, fostering discipline, mindfulness, and a sense of community. His thought-provoking perspectives resonated deeply with attendees, leaving them with a renewed appreciation for rituals as a meaningful practice rather than mere formalities.



## Diwali Celebration (October 31, 2024)

The Diwali celebration on October 31, 2024 illuminated the campus with joy, devotion, and festivity. The event began aarti of Lakshmi Mata, invoking blessings for prosperity and well-being. Following the pooja, prasad was distributed among the attendees. Adding to the festivity was a lavish dinner hosted by the honorable director at M-block, where students, faculty, and staff mingled in an atmosphere of camaraderie and togetherness. The highlight of the evening was the celebration outside the campus, marked by a spectacular display of fireworks and the joyful bursting of crackers.



## National Youth Day ( January 13, 2025 )

The Prabodhini Club hosted an inspiring talk by Dr. Shree Arun Kumar Ji on the occasion of National Youth Day. With great passion and clarity, he spoke about Swami Vivekananda's vision for the youth of Bharat, weaving together messages of wisdom, motivation, and patriotism. His reflections reminded the audience of the immense potential within every young individual to transform society through dedication, service, and self-belief.



## Kutumbakam - Ethnic Day (January 14, 2025)

Kutumbakam, the Ethnic Day celebration on Makar Sankranti, was a vibrant and joy-filled day that brought the entire campus together. The celebrations began with an engaging introduction session in the 240-seater hall, followed by a lively kite-flying session that filled the sky with colors. In the evening, students showcased the beauty of India's traditions through graceful ramp walks and colorful attire. The night sparkled with soulful music, energetic dance performances, and festive cheer, finally concluding with a spirited DJ session that had everyone dancing and celebrating as one big family.





## DYNA-MIGHT

### Independence Day: A Patriotic Tribute

**Date:** 15th August 2024

Dynamight, the dance club of IIIT Dharwad, proudly took part in the Independence Day celebrations on campus. Our performance was a heartfelt tribute to the nation, blending patriotic themes with expressive choreography that reflected the spirit of freedom and unity. The dancers showcased a mix of contemporary and traditional styles, symbolizing the country's diversity and progress while honoring its cultural roots.



### Garba Night

**Date:** 10th October 2024

Dynamight organized its first-ever Garba Night, bringing the campus together to celebrate this energetic and colorful tradition. The Garba performances were vibrant and filled with energy with the dancers twirling to the rhythm of traditional beats. The night resonated with joy and cultural celebration as the entire crowd joined in, creating an atmosphere of unity and festive spirit.



## Karnataka Rajyotsava

**Date:** 1st November 2024

Dynamight actively participated in the Karnataka Rajyotsava celebrations held in our college. The dance performance celebrated the essence of Karnataka's culture through a blend of traditional and contemporary styles. Additionally, the club organized a surprise flash mob at a prominent location on campus, which added excitement to the celebrations and engaged the audience with its vibrant energy.



## Republic Day

**Date:** 26th January 2025

On Republic Day, Dynamight once again brought life and energy to the celebrations with a powerful performance that celebrated India's cultural richness and democratic spirit.



## Sangeet 2025: A Night of Rhythm and Celebration

**Date:** 28th February 2025

Sangeet 2025 was one of the most awaited cultural highlights of the year. The event featured a series of performances ranging from group choreographies to lively duets, each bringing its own spark to the stage. With dynamic music, intricate moves, and a festive atmosphere, our dancers captivated the audience and set the tone for a joyous celebration.



## Tamasha 2025

**Organized by:** LIMELIGHT, Drama Club, IIIT Dharwad.

**Date:** 24th August 2025

The workshop, titled “**Tamasha**”, was conducted under the banner of Limelight - Drama Club, IIIT Dharwad that consisted of two engaging sessions. The first session was the Acting Workshop led by **Mr. Parth Kumar Enkhia**. This session introduced participants to the fundamentals of acting, with a focus on body language, expressions, and character building.

The second session was the Mimicry Workshop conducted by **Mr. Himanshu Kumar Sonkar**. This part of the workshop emphasized mimicry as a unique form of entertainment and artistic expression. Students learned to observe personalities, practice voice modulation, and refine comic timing.

## MARDANGI - Myths, Reality and Beyond

The theatrical production "**MARDANGI - Myths, Reality and Beyond**" was successfully staged as part of Sangeet 2025 at IIIT Dharwad. The drama was a thought-provoking exploration of gender roles, societal norms, and the deeply rooted misconceptions surrounding masculinity.





**Iridiscence**, the photography club of IIIT Dharwad, covers all the events organized by Technical Committee, Cultural Committee, and Sports Committee. In addition to providing assistance with event organization, it also comes up with a theme-based task every month called Lensation.

### Students' Achievements

- **Team Iridiscence from IIIT Dharwad** participated in *Harshatal 2025*, an inter-college cultural fest conducted by IIT Dharwad. The team members were PJ Vineeth, Pothan, Abhishek, Sagarika, Lakshmi, Kuldeep Sharma, Rayaana, Jagadeesh, Mithil, and Vansh. The team secured **Second place in B-roll photography** and **First place in Fashion photography**.
- **Team Mosaic (Art Club of IIIT Dharwad)** showcased their creativity and artistic skills at *Harshatal 2025*, an inter-college cultural fest conducted by IIT Dharwad, and bagged the **First prize** for their outstanding performance. The following students achieved individual recognition:
  - **P Shrujana (24bcs113)** – Abstract Painting
  - **D Lakshmi Prasad (23beco18)** – Abstract Painting

- **Sushanth (24bec062)** – Charcoal Art
- **Team Dynamight from IIIT Dharwad** participated in *Harshatal 2025*, an inter-college cultural fest conducted by IIT Dharwad, and bagged the **Second prize** with a prize amount of ₹8000. The team was recognized for their energy and vibrant performance.





# INDIAN INSTITUTE OF INFORMATION TECHNOLOGY

