5G Components in our Lab

Server Rack

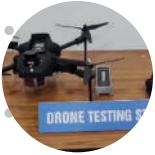**5G Handsets**

5G Radio (gNode B)

5G AI Camera

IOT sensorssetup

NMS Terminal

IOT Gateway

Drone testing Station

5KVA UPS

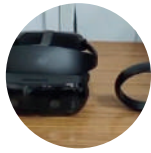**5G Indoor CPE**

AR-VR Setup

Explore

The new horizons of Edge Computing (MEC), IP Multimedia Subsystem (IMS), 5QI/QoS and IoT Platforms.

Get in touch!

✉ **Dr. Dalia Nandi**
dalia@iiitkalyani.ac.in

✉ **Dr. Pratik Chakraborty**
pratik@iiitkalyani.ac.in

☎ **033-25825003**

🌐 **www.iiitkalyani.ac.in**

📍 **Indian Institute of Information Technology Kalyani, Webel IT Park, (Near Buddha Park), Kalyani – 741235. Nadia, WB**

Scan me for more information

Indian institute of Information Technology, Kalyani

Welcome to
The 5G Lab

(Funded by the DoT, Govt. of India under 100 5G Initiative)

Empowering
Tomorrow's Innovators

> "5G is a knock on the doors of a new era in the country. 5G is the beginning of an infinite sky of opportunities"

Our Goals

- 5G Training for students and faculties.
- Projects in 5G tech and its applications.
- Industry-Academia collaboration.
- 5G Use case development.
- Offering 5G Test setup.
- Pioneering the path towards a 6G-ready nation.

Pioneering 5G Use Cases

Internet of Things (IoT): Designing and deployment of IoT solutions .

Video Surveillance with High Bandwidth and low latency 5G Technology.

Drone Monitoring and Management for real-time control and analysis.

Smart City Solutions like waste management, traffic control, and environmental monitoring.

Environmental Monitoring and Conservation to protect natural resources and wildlife habitats

Agricultural Automation and Precision Farming

Educational Immersion and Virtual Learning by virtual reality classrooms, interactive simulations and collaborative learning environments

Augmented and Virtual Reality (AR/VR): Develop immersive experiences that merge the digital and physical worlds

Our Technical Team :

- Prof. Rabindranath Bera
- Dr. Dalia Nandi
- Dr. Pratik Chakraborty
- Dr. Amit Ranjan Azad
- Mr. Amit Kumar Sadhukhan
- Ms. Ramalita Sheet
- Ms. Riya Dey
- Mr. Samim Rahaman

5G Lab Coordinator :
Dr. Dalia Nandi, Dept. of ECE

Sanchar Mitras :

- Thejus K
- Nikhil Laxminarayana
- Anujeet Verma

(Sanchar Mitra Scheme is a platform to engage students as volunteers for creating awareness of the various citizen centric services launched by DoT, GoI).