## 5G Components in our Lab



Server Rack



### 5G Radio (gNode B)



### IOT sensorssetup



## **IOT Gateway**



## **Drone testing Station**





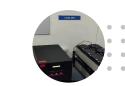
**5G Handsets** 



5G Al Camera



#### **NMS Terminal**



#### **5KVA UPS**



**AR-VR Setup** 

## **Explore**

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

## Get in touch!

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The 5G Lab

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

Empowering

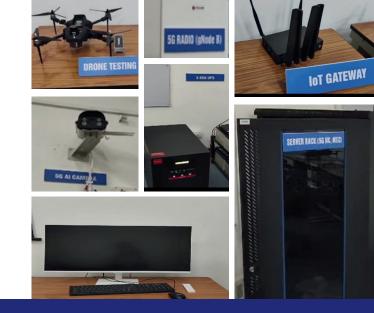
Tomorrow's Innovators

# **99**

"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**

I**nternet 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

## **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

**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

## 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, Gol).