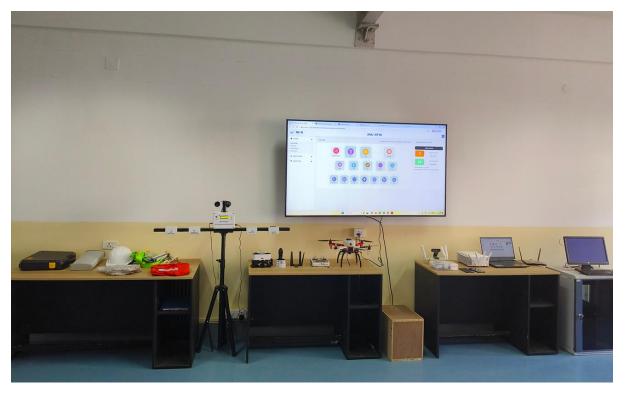
5G Lab @ NEHU

Explore, Build, and Lead with 5G Technology

Welcome to the **5G Lab** at **North-Eastern Hill University (NEHU)** — a state-of-the-art facility supported by the **North Eastern Council, Ministry of DoNER**. This initiative is designed exclusively for the talented and aspiring students of Northeast India. Whether you're passionate about electronics, AI, drones, coding, or sustainable development — this lab gives you the tools, mentorship, and platform to bring your ideas to life using the power of 5G.



What Can You Do in a 5G Lab?

The 5G Lab at NEHU is **not just a lab** — **it's a launchpad** for your ideas and your future. Here's what you can do:

- Work on live 5G networks with industry-grade infrastructure
- Build real-world solutions using IoT kits, drones, AR/VR, and edge computing
- Join hands-on certification programs to sharpen your technical skills
- Lead or join research projects solving real challenges in Northeast India

• **Get mentored** by industry experts and researchers from across India and beyond

Cutting-Edge Equipment You'll Use

Our lab is equipped with the latest technology to help you prototype, test, and scale your ideas:

- 5G MEC & Application Servers: Run real-time analytics, video, and automation.
- **Mini 5G Drones**: Code and control drones for surveying, delivery, and emergency response.
- **IoT & Sensor Kits**: Develop smart solutions for agriculture, health, and infrastructure.
- **AR/VR Headsets**: Build immersive education, tourism, and training applications.
- **Network Testing Tools**: Monitor and understand 5G network performance like a pro.

Skills You Will Gain

By working in the 5G Lab at NEHU, you'll build **industry-ready skills** that are in high demand:

- 5G Architecture & Network Design (RAN, Core, MEC)
- Edge Computing and Low-Latency App Development
- IoT System Design and Integration
- Drone Programming and Flight Automation
- AR/VR Development for Training and Simulation

□ I For the Students of the Northeast, By the Northeast

This lab is a **dedicated space for students of the Northeast region** — built to empower tribal, rural, and women students in particular to lead in technology and innovation.

 Tackle local challenges in healthcare, agriculture, disaster management, and environment

- Make NEHU a hub of technological excellence
- Collaborate with other institutions, startups, and international researchers
- Develop solutions right from your hometown, with global impact

🛠 Your Future Begins Here

At the **5G Lab @ NEHU**, you don't just learn — you **build**, **innovate**, **and lead**. Whether your dream is to become a **tech entrepreneur**, **research scientist**, **or social innovator**, this is your starting point.

Be a part of the **first generation of 5G innovators** from Northeast India.

For More Information

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