

# DEEPENING OF SCIENTIFIC RESEARCH ON 5G USE CASES FOR SOLVING CHALLENGES OF SOCIETY

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## Lab Activities at 5G Lab Nagaland

Connected with NTTC manager and ATL lab regarding UNIDO survey on AR/VR/MR.



Hosted Mr. Jims from Learning Link Foundation in our 5G lab to discuss a potential collaboration on his innovative Search and Rescue Drone.



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## Lab Activities at 5G Lab Nagaland

Connected with NIT Nagaland and will be visiting their college at chumukedima for a technical event on Saturday.



Connected Naga digital a startup for upcoming IMC conference at Delhi for their product portable Alexa



Today our lab was used by college for a day seminar on mental health awareness program.



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## Lab Activities at 5G Lab Nagaland

Visited NIT Nagaland and took our 5G drone for exhibition during their robotics and AI showcase the students were very much interested and had a very positive response regarding hackathon and making use cases and IPs in the coming years



Connected with NCS and labor department for collaboration and workshop



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## Lab Activities at 5G Lab Nagaland

Connected with the startup Nagadigital in the lab and they will be preparing their product for the upcoming IMC event .



Conducted workshop with the students at Sovima govt school on 5G awareness program and its impact with 24 students.



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## Lab Activities at 5G Lab Nagaland

Online Presentation on 5G core , RAN , and smart agriculture to pasighat college of agriculture. And startup nagadigital work in progress at 5g lab



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## Lab Activities at 5G Lab Arunachal Pradesh

**2 professors from the College of Horticulture & Forestry visited our 5G Lab. Briefed them about our ongoing projects and demonstrated the key equipment and technologies being used.**



**Started field testing of the developed IoT kit with students to evaluate its performance and gather user feedback for further improvements.**



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## Lab Activities at 5G Lab Arunachal Pradesh

Received two kits ordered from the college – one Weather Station Kit and one Hydroponic Kit. Currently working with students to assemble both



Field officers from Department of Agriculture visited the Lab. Demonstrated our equipments also described about the new IOT kit that we have developed.



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## Lab Activities at 5G Lab Arunachal Pradesh

Visitor from CPGS, Umiam, Shillong visited our Lab. We have described about our project along with IP developed in our Lab.



Involve in activities regarding installation of Aerophonic Kit for the upcoming NABARD training.



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## Lab Activities at 5G Lab Arunachal Pradesh

**NABARD officials Mr Nitya Mili Sir visited the Lab. Discussed the IP's developed. Also discussed the upcoming NABARD funded 10 Days Training program in our Lab.**



**Visited Jawaharlal Nehru College & Govt. Polytechnic College inviting them to participate in the upcoming 10 Days Training Program.**



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## Lab Activities at 5G Lab Arunachal Pradesh

### Day 1 to 7 of the 10 Days Skill Based training of Agriculture 4.0



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## Lab Activities at 5G Lab Sikkim

**Visited DIET Institute and met the principal Paromita ma'am to ask to send their students to our Lab.**



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## Lab Activities at 5G Lab Sikkim

DPC Academy students visited the Lab . A demonstration was performed for the students regarding IoTs



Students from a previous course batch visited the Lab. A demonstration was conducted along with certificate distribution



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## Lab Activities at 5G Lab Sikkim

Workshop with PM Shri senior secondary School, Pelling organized in the Lab. Covered various topics with the students of IT department from the school.



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## Lab Activities at 5G Lab Manipur

Insightful session on the Open Challenge Program (OCP) with 114 Startup teams from India's Northeastern states conducted by STPI's OCTANE CoE.



Connected with Bnathaj and Pouchun from the Rongemei Naga Baptist Association (RNBA) in Tamenlong, Manipur. Also, productive discussion about their impactful community activities and explored exciting avenues for future collaboration.



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## Lab Activities at 5G Lab Manipur

Contacted Indigenous community development organization, Chandel, Manipur NGO office and discussed with the head Karung regarding the activities they have been providing to the people and future collaboration.



Hosted Neha Kumari, a student from CSE Department, for a tour of our 5G Lab. Showcased the labs capabilities and potential use cases for the technology.



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## Lab Activities at 5G Lab Manipur

Successfully showcased innovative 5G use cases for societal challenges at Manipur University, fostering collaboration between government institutions like DOT, NIELIT, IIIT, BSNL, CAU & MTU



Met with Amtron, Ashish Anand Sir & JNIMS joint director Y Premchandra . Had a discussion on "Workshop Proposal on Pre-Surgical Planning Using Digital Twin & 3D Printing Technology under PM-DevINE Project".



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## Lab Activities at 5G Lab Manipur

Akumen AI met with Ravi Pardhi, Director of Engineering at Amantya Technologies, to discuss the development and commercialization of our smart glasses designed to empower the visually impaired. This collaboration focuses on scaling our lightweight, LiDAR-equipped assistive devices to serve an estimated market of 5 million in India, building on successful pilot projects.



Visited The Director Health Service, Government of Manipur office and met with joint director Dr. Y Premchandra Singh and discussed the Workshop on Pre-surgery planning using Digital Twin & 3D Printing.



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## Lab Activities at 5G Lab Manipur

The Manipur Institute of Technology, Manipur University, hosted the Internal Smart India Hackathon 2025 Pitching Session on September 26, 2025, as part of the Smart India Hackathon 2025 under the guidance of the Ministry of Education and Innovation Cell.



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## Lab Activities at 5G Lab Assam

Visited Bamboo Technology Park, Chaygaon and discussed their functionalities. Took input for the ongoing AR/VR survey.



NRL officials visited our 5G lab. Lab demonstration and discussion on 5G use cases were conducted.



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## Lab Activities at 5G Lab Assam

Practical classes conducted for a batch of ongoing internship students.



Visit to Guwahati Biotech Park for workshop and IP related discussions.



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## Lab Activities at 5G Lab Assam

Conducted a demonstration and discussion on 5G and its applications with officials from BPCL.



Conducted an event on 5G demonstration showcase at NEHU.



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## Lab Activities at 5G Lab Meghalaya

Conducted a Workshop with 22 Student and 2 Faculty Members of Laitumkhrah Presbyterian HS School.



Conducted a Workshop with 2<sup>nd</sup> Batch of 20 Student of Laitumkhrah Presbyterian HS School.



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## Lab Activities at 5G Lab Mizoram

Officials from IIT Guwahati visited 5G LAB and brief demonstration of LAB given to them.



Officials from DOT Shillong and 2 faculty members from ECE department, NEHU visited 5G LAB and brief demonstration of LAB given to them.



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## Lab Activities at 5G Lab Mizoram

Conducted a Workshop with 3<sup>rd</sup> Batch of 31 Student of Laitumkhrah Presbyterian HS School.



Hardware session with the students for upcoming event



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## Lab Activities at 5G Lab Tripura

Visit to STPI for scheduling the workshop at their Organization with Soumyadeep Dhar, HRM



## New IP Solutions in 5G Lab



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## Lab Activities at 5G Lab Tripura

Visit to Collage of Agriculture and met Professors for IP Solutions from their Institute



Visited University Computer Lab and discussed the new IP Solutions.



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## Lab Activities at 5G Lab Tripura

Visit to ICAR and meet with Dr. Bijoya Bhattacharjee, Principal Scientist, Agri-Biotechnology for bringing new IP Solutions from their center.



Cleaning of the 5G Lab is going on as, Biswkarma Puja is going to be celebrated at our IT Department.



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## Lab Activities at 5G Lab Tripura

Visit to STPI Lab and NIELIT Agartala.



Visited Techno College of Engineering Agartala Computer Lab and invited for New IP Solutions.



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## Lab Activities at 5G Lab Tripura

Conducted Workshop on 5G IoT and Lab Demonstration with Lab visitors including students and faculties.



Lab Visited by Professors and MCA students and gave them the idea about 5G use cases.



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## Lab Activities at 5G Lab Mizoram

Held a Program in "Depenning of Scientific Research on 5G Use cases for solving challenges of Society".



Conducted a workshop on the basics of IoT, focusing on sensors and Arduino, with 7 students participating.



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## Lab Activities at 5G Lab Mizoram

**Awareness on Digital Market with Science students. 7 students attended the session.**



**Visitors from PCR School demonstrated the Lab and its equipment and I invited them for the course**



**Working on IP product with Students.**



**Conduct workshop on IoT fundamental with science students. 9 students attend the workshop.**



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## Lab Activities at 5G Lab Mizoram

Govt. Higher School workshop on 5G and IoT Fundamental. 19 students participated in the workshop.



Visited the Mizoram food park at Chhingchhip.



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## Lab Activities at 5G Lab Mizoram

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