

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

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## Lab Activities at 5G Lab Manipur

Student named Khumbongmayum Heithoi Meitei from the ECE Department visited the 5G Lab



5G Lab was visited by Chandam Thoisana, a PhD scholar from Don Bosco University, Guwahati, Assam. Demonstrated the 5G Lab and showcased potential use cases.



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## Lab Activities at 5G Lab Manipur

Three students visited 5G Lab the purpose of their visit was to conduct their college project in the lab.



Visited quantum stem academy school , lamshang, imphal west and met with their principal kabrambam Dhaneshwor. Where we discussed the future collaborations with the 5G Lab.T. Arun Kumar.



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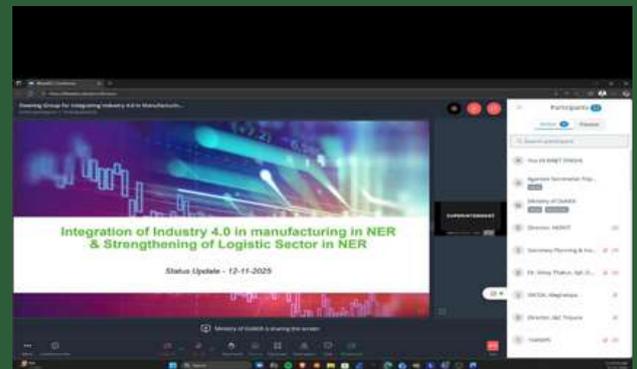


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## Lab Activities at 5G Lab Manipur

Attended a meeting between the Ministry of DoNER & all the NER state officials – titled "Meeting of the Steering Group for Integrating Industry 4.0 in the Manufacturing Sector and Strengthening Logistics in NER," where we discussed the project progress status.



A student Narendra sagolsem from 7th sem of ECE visited 5G Lab where I distributed a certificate and later we discussed conducting a project in our 5G Lab.



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## Lab Activities at 5G Lab Manipur

Visited the office of the Medical Superintendent at JNIMS, Porompat, Imphal, Manipur, for a follow-up on the pre-surgery workshop. I met with Dr. Kh. Lokeshwar and requested him to speed up the process.



Two students visited our 5G Lab: Kh Abebisana and Ph Tarique Ahmed. During the visit, we demonstrated the lab and discussed topics on which they can develop their projects in the 5G Lab. The Amantya team will support them in both the hardware and software aspects.



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## Lab Activities at 5G Lab Manipur

Mrs. Th. Ghaneshori, Nodal Officer and Head of the ECE Department, visited the 5G Lab. Demonstrated the 5G Lab-IP Product solution. Discussed the use cases and aligned the students to conduct a project on the IP solution.



O Premjit Singh from MTech came to the 5G Lab after our previous discussion about conducting his project. I showed him the newly arrived sensors and IP tools.



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## Lab Activities at 5G Lab Manipur

Attended the 5th Pallicon 2025, an international conference on palliative care with the theme "Every Life Matters: Universal Access to Palliative Care."



Met with Alish Devi Ngasham (SPOC) of the Lilasing Khongnang Khong High School Center. This is a skill training center where many people are trained in handicraft skills and traditional Malakar skills, also met with the students. We discussed coming up with creative and innovative ideas, and I invited them to visit our 5G Lab at MIT Manipur University. The discussion with the teams was successful.



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## Lab Activities at 5G Lab Manipur

Visited JNIMS for a workshop follow-up and discussed it with Dr. Lokeshwar Singh, the Medical Superintendent. Met with Dr. A. Buboo Singh, a Senior Scientist, and together we surveyed their lab at the institute.



Visited the SERVA DRONE Startup testing site i.e Tekcham, Khongjom, thoubal district, manipur where they demonstrated their updated drone progress by conducting several flights.



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## Lab Activities at 5G Lab Manipur

Visited the new block at NIELIT and met with Dr. Lukhram Dhanachandra Singh, an Assistant Professor. We discussed the survey, and then he demonstrated his IoT Lab.



Discussed the survey with Rita Kho, and later, with the help of Luangmei Chunthuilu (Support Staff) and D. Elia (Guest Faculty), we successfully conducted the survey of the labs.



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## Lab Activities at 5G Lab Arunachal Pradesh

Student working in the Lab to prepare a kit which will be going to demonstrate in upcoming Exhibition in Shillong.



Students from the college visited our lab today and checked for their project to continue with our lab collaboration.



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## Lab Activities at 5G Lab Arunachal Pradesh

Had a discussion with nodal officer regarding upcoming workshop to be conducted with the students



Student perusing MSC visited the 5G Lab. Had a good discussion about the project and IP that are developed during the project.



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## Lab Activities at 5G Lab Arunachal Pradesh

Faculties of nearby college of Horticulture & Forestry, Pasighat visited the 5G Lab and discussed different application of the Lab and its equipments.



Field officers of Agriculture Department visited the Lab and have given them demo of different Lab equipments and its application in different sector.



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## Lab Activities at 5G Lab Nagaland

Visited ARTCS in the Armory department with the officials checking the 3D equipment



Working on portable alexa App for mobile users at the lab the work is in progress and will be soon ready for implementation.



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## Lab Activities at 5G Lab Nagaland

Connected with the nagadigital team today for presentation, testing and training of their Equipment at the lab.



Visited ARTC for weapon modification took measurement and updated with the other team.



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## Lab Activities at 5G Lab Nagaland

Team was testing their app in the lab for any errors and bugs.



Met with the nodal officers for implementation and using of App in the college for testing and feedback



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## Lab Activities at 5G Lab Nagaland

Visited Eden higher secondary and had a meeting with the proprietor for more seminars and workshop in the coming days in their school.



5G lab was used by college for virtual meeting.



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## Lab Activities at 5G Lab Nagaland

Met with a self help group run by miss Imtisenla lusang she and her team works with handicraft and accessories, had a discussion where our 5g technology could be helpful in boosting her product and growth



Visited ARTC for weapon modification submitted the final prototype and tested for any improvement through video call with the team from other states.



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## Lab Activities at 5G Lab Nagaland

Attended an event organised by ATL lab manager Mr Alemtemjen in their school where students were showcasing their products



Had a meeting with Mr Jim from inspiring minds and his prototype drone for IP solution.



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## Lab Activities at 5G Lab Nagaland

Students visited the lab for their IP check and maintenance



Visited government school thaheku had a conversation with one of the school head teacher for seminars and courses



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## Lab Activities at 5G Lab Meghalaya

Two PHD students from NEHU, ECE Department visited 5G LAB.



Student from ECE Department NEHU visited 5G LAB



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## Lab Activities at 5G Lab Mizoram

PHD students from ECE Department NEHU visited 5G LAB



Six students from ECE Department NEHU visited 5G LAB



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## Lab Activities at 5G Lab Assam

A batch of students visited the lab. Conducted demonstrations on 5G and its use cases



Demonstrated our 5G lab to few students. Discussed various use cases of 5G in different sectors.



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## Lab Activities at 5G Lab Assam

DGM Maintenance and CM- Electrical from IOCL visited the lab and we have done a demonstration and discussion on potential use cases of 5G on oil industry



Mr Jaspreet Sidhu, CEO NCAM, MeitY visited the lab and we have done a guided tour of the 5G Lab and discussed about its different use cases in different sectors.



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## Lab Activities at 5G Lab Assam

A few engineering students visited our lab and were working on their project in our lab. We are helping with both software and hardware part.



We were working with the projects of the final year students from ECE department Girijananda Choudhury University



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## Lab Activities at 5G Lab Assam

Attending Assam Tea Summit organized by DIIS, Govt of Assam.



MCA students from GCU visited our lab. We discussed for their final semester project regarding the dashboard for IoT.



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## Lab Activities at 5G Lab Tripura

Visited the Milk Collection Center of Bagma Agri Producer Company and discussed the technology they are using for the safe preservation of products.



Attended another phase of visit to ICAR and met with the students who are associated with the future of smart farming and shared the knowledge of 5G Technologies and use cases which can help them out for more innovations



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## Lab Activities at 5G Lab Tripura

Attended the Internship Inauguration Program of students in the field of Agriculture at Netaji Subhash Mahavidyalaya, Udaipur, Gomati District, in association with Bagma Agri Producer Company Ltd. and talked with the students how 5G Technology could be helpful for them in smart farming



Met with Shri Anil Kotmire, General Manager NABARD, Tripura Regional Office while a Moneywise program was organized in Bagma Agri Producer Company Ltd supported by NABARD and exchanged ideas of 5G technology. This was my second meeting with him as previously I had a visit to the NABARD Regional Office at Agartala



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## Lab Activities at 5G Lab Tripura

Provided the knowledge of 5G use cases and IoT devices and insisted on him for developing IP Solutions.



Visited in a program of 'Distribution of Chicks for Back-Yard poultry' to the local people by Bagma Agri Producer Company Ltd. Supported by NABARD Regional office, Tripura.



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## Lab Activities at 5G Lab Tripura

Met with some local farmers in Krishi Bhawan where they attended a session with the Agri officials.



Students along with their professors visited 5G Lab for presentation of their projects and also discussion about 5G Technologies with IoT devices held there.



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## Lab Activities at 5G Lab Tripura

Met with Shivottam Kumar once again one new IP Solutions from college of Fisheries as he needed some assistance, also shared the details of his project with Purnendu Mandal, and he suggested him for the future procedure for helping him to develop the same.



MCA (IT) student Named Md. Mustaq visited our 5G Lab and got the knowledge of 5G use cases and IoT devices



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## Lab Activities at 5G Lab Tripura

MCA final year students, Suman Debbarma and Rahul Sutradhar visited our 5G Lab to practice their projects as they are also IP Solutions



Revisit of Rahul Sutradhar, IP Solutions in 5G Lab for practicing his project and got the knowledge of a new project related to his final semester.



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## Lab Activities at 5G Lab Tripura

MCA student, Sahil Vaiswal, visited our 5G Lab today and got the knowledge of new hardwares and will be listed as a new IP Solutions for his project.



Bhabesh Rana, an IP solution from MCA final year student, visited our 5G Lab. He has got the knowledge of our new 5G devices and also practices his own project for final year



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## Lab Activities at 5G Lab Tripura

Visitor named Chiranjit Biswas from the IT Department has visited the 5G Lab and we have discussed creating more IP Solutions from the department with the experience of 5G Use cases and IoT devices which are going to be helpful for their final year project



Checking of equipment and follow ups with IP Solutions



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## Lab Activities at 5G Lab Sikkim

For the second sessional exam in the college, we from the 5G lab cooperated with the faculties for the examination at the request of the vice principal.



Visited Sikkim Rural Livelihood mission in ADC office to discuss the workshop program to be held in nearby GP of the district at the end of November.



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## Lab Activities at 5G Lab Sikkim

Mr. Jiwan Kumar Kharka and Mr. Shashay Hang Subba from the district court visited our Lab during a visit to the college. ADM sir Biswas B. Raj Gurung accompanied us during the visit.



A workshop batch of 12 students last week was called for distribution of certificates. A brief lab demonstration was performed during that session.



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## Lab Activities at 5G Lab Sikkim

Visited Govt. Girls' Sr. Sec School today. Met principal Sushma Subba ma'am and invite their students to our Lab once again for a workshop programme



Govt. Sr. Sec. School, Pelling visited our Lab today. Conduct a workshop and a lab demonstration with those students.



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## Lab Activities at 5G Lab Sikkim

**Rajiv Rai, assistant professor of the Geography Department, visited our Lab today. Explained to him the use cases that can be introduced to their department for their annual projects.**



**Two students from the last workshop visited our Lab. Provide them with the certificates and a lab demonstration was performed.**



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## Lab Activities at 5G Lab Sikkim

Students from fifth semester visited our Lab. A demonstration was given to those students, and showed them the new hardware and described them in brief.



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## Lab Activities at 5G Lab Mizoram

Professors from the Physics Department visited the lab, demonstrated the equipment and they also used it for ongoing research work.



One-day workshop on 5G and IoT Fundamentals was conducted for 3rd-semester students of the Botany Department.



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## Lab Activities at 5G Lab Mizoram

Attended an awareness program on India's AI Revolution, where the speech was delivered by Professor Dr. Chhama.



Conducted a practical examination on Office Automation for the students. The Head of Department (HOD) instructed me to conduct the exam, as the marks will be included in the Add-on Course evaluation.



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## Lab Activities at 5G Lab Mizoram

Interested students from the Physic and Botany department visited our lab and conducted a workshop on 5G and IoT fundamentals



Visited different offices and schools having awareness about the 5G lab in the college and the use case of 5G and its potential.



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## Lab Activities at 5G Lab Mizoram

**Interested students from the BSc department visited our lab and conducted a workshop on 5G and IoT fundamentals**



**Conducted a training session on the Internet of Things (IoT), in which five students participated. The purpose of the training was to provide students with both theoretical understanding and practical exposure to IoT technologies.**



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## Lab Activities at 5G Lab Mizoram

Distributed certificates the students who has completed their workshop



One-day workshop on 5G and IoT fundamentals was successfully conducted for interested students, and 4 students participated.



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## Lab Activities at 5G Lab Mizoram

Conducted the final day of the workshop as the semester is about to end, and the college is closing for winter vacation. Four students from the BSc department participated



Distributed certificates to students who completed the workshop



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## Lab Activities at 5G Lab Mizoram

Visited the Computer Science Department of NITMZ to discuss the IP solution with the HOD.



Visited St. Joseph Higher Secondary School and Brighter and met with some staff members to discuss the IP solution. They expressed a strong interest in implementing it for their students.



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## Lab Activities at 5G Lab Mizoram

Visited Govt. Mizo High School, where I met the headmaster and discussed our 5G Lab project.



Conducted Awareness on Fundamental of 5G and IoT at Govt. High school



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## Lab Activities at 5G Lab Mizoram

Attended the 33rd State Level Children's Science Congress 2025, where different schools from various districts participated in a science competition focused on sustainable development and community well-being, held at the Conference Hall, Directorate of SED.

