

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

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Lab Activities at 5G Lab Assam

Conducted a workshop on 5G Use Cases and lab demonstration done with a batch of students from Assam Down Town University and DoT officials



Participated in the apprenticeship Mela organized by the Women's ITI Guwahati



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Lab Activities at 5G Lab Assam

Working on a robotics project with an engineering student from GCU



Students from Kaziranga University visited our lab and we have done a demonstration on 5G and IoT.



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Lab Activities at 5G Lab Assam

Students visited our lab and we have done a basic course on 5G and IoT



Engineering Students visited our lab for their college project. We have gathered their idea and will work on the project in coming days



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Lab Activities at 5G Lab Tripura

Visited a Medical Health Camp organized by Durgabari Tea Estate where met with the Doctor and other Health Staffs and talked about the 5G technology in the field of Smart Health services including Tele medicine and other use cases.



IP Solutions Imnasungit (M Tech, IT) visited our 5G Lab to practice his project using 5G IoTs



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Lab Activities at 5G Lab Tripura

Visited Tripura Institute of Technology and met with Professor Kabir Chakraborty and insisted him for IP Solutions in our 5G Lab from this organization



Met with the students of Tripura Institute of Technology of CSE department and talked about the 5G use cases and involvement in the IP Solutions so that they can use our 5G Lab for their projects



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Lab Activities at 5G Lab Tripura

Visited the Electronics and Telecommunication department of Tripura Institute of Technology and met with Professor Rajib Biswas and asked him to be a part of our 5G Lab and include the students for the purpose of IP Solutions so that they can explore the world of 5G and prepare their projects which includes IoT devices and sensors to develop 5G Use cases



Two nos. of MCA 1st year students Ankush Roy and Hariom visited our 5G Lab to get the ideas about the IoT devices and our equipment and they are interested in the practice we are doing for these students.



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Lab Activities at 5G Lab Tripura

MCA 1st year student visited our 5G Lab and was engaged in understanding the IoT devices and also interested in visiting the Lab frequently for further practical works



Visited the Electrical Engineering department of Tripura Institute of Technology and met with some students and invited them to visit our 5G Lab to explore the 5G technology and Use cases and to get the knowledge of IoT devices



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Lab Activities at 5G Lab Sikkim

Three faculties from the college visited our Lab today. A demonstration was performed for the faculties.



Students of IT stream from nearby school visited our Lab today. Explain them a few networking terms and performed a lab demonstration



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Lab Activities at 5G Lab Sikkim

Visited Govt. Girls' Senior Secondary School and met Principal Sushma Subba ma'am and invited their new batch of students to our Lab.



Visited Govt. Sr. Sec. School, Lingchom for a workshop invitation.



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Lab Activities at 5G Lab Sikkim

Conducted a 7 day on the job training program, students from various schools participated.



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Lab Activities at 5G Lab Mizoram

Visited various Government high schools, met with the principals, and discussed the 5G lab and IP solutions as part of an initiative to engage interested students.



Attended the programmed THUL "A Kaleidoscope of Science, Art, Technology & Adventure - 2025" at Government Mizo High School



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Lab Activities at 5G Lab Mizoram

Visited Durtlang Govt School where the school has an add-on course on IT and Mechanical subject and invited them for the IP solution and course on 5G.



Visited Govt. Higher Chaltlang School and the Department of Higher and Technical Education to inform them about the workflow of our project and the IP solution



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Lab Activities at 5G Lab Mizoram

Visitors from JNV Thenzawl came, demonstrated the lab equipment and gave a brief explanation on the fundamentals of 5G and IoT. I also invited them to join the IP Solution program, and the students showed great interest



Visited Convent and Presbyterian schools. As examinations were in progress, I met the teachers-in-charge and discussed our project and the 5G Lab



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Lab Activities at 5G Lab Mizoram

Conducted a one-day workshop on 5G and IoT fundamentals at Presbyterian High School, where 38 students attended the workshop



Visited the Samagra Office and Presbyterian School, where met with the officials and discussed 5G technology and the IP solutions of our project. Also explained how interested students can get in touch with our 5G Lab



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Lab Activities at 5G Lab Mizoram

The college began decoration work for the upcoming Winter Festival, with active participation from both staff and students



The Winter Festival opening ceremony was held at Serchhip College, with Hon'ble Chief Minister Lalduhawma as the Chief Guest. After the ceremony, he visited various departments of the college. Requested him to visit the 5G Lab, where the lab equipment was demonstrated and explained the workflow, achievements, and progress of our project.



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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

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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.



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Lab Activities at 5G Lab Manipur

Connected with Ailan Maibam, the Director and Founder of Awpara Technologies Private Limited, who is currently working on AR/VR technology. We discussed the 5G Lab, and I requested him to visit his lab tomorrow.



Visited Lilasing Khongnankhong High School in Imphal West, Manipur. It is currently functioning as a training center for skill development in handicrafts. Met with Ningombam Kiran Devi, the Trainer, and her students who are participating in skilling the craftsmen



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Lab Activities at 5G Lab Manipur

Visited the AWPARA start-up office i.e STPI Incubation centre and met with the CEO, founder Ailan Maibam, and his team members, where we discussed the 5G Lab at MIT and the potential of the 5G Lab for their project



Preparing the 5G Lab for the North East India International Conference on Innovation in Science and Technology (NE-ICIST 2025), scheduled for 9th and 10th December 2025.



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Lab Activities at 5G Lab Manipur

Attended the north east india international conference on Innovation in science & technology (NE-ICIST) 2025. organisation by MIT, manipur university and sponsored by : North Eastern Council, Nongrim Hills, shillong.



MIT conducted their International Conference on Innovation in Science & Technology 2025 (Track: ECE) in the 5G Lab, where many PhD scholars presented their research papers. Using this platform, we took the opportunity to demonstrate the 5G Lab to them and highlight its potential for their research



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Lab Activities at 5G Lab Manipur

Engaged with the MIT semester exam presentation held in our 5G Lab



Visited the Directorate of Health Services, Government of Manipur, at the request of Dr. N. Hemanta Kumar Singh, Director of Health. Delivered a presentation on pre-surgery planning using digital twins and 3D printing, explaining the primary objectives of the workshop.



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Lab Activities at 5G Lab Manipur

involved in the MIT ECE Department's 7th-semester final exam seminar held at the 5G Lab. During the seminar, Assistant Professor Yengkhom Chandrika from MTU, Takyelpat, visited the lab



Had a meeting with Dr. Lokeshwar Singh, the Medical Superintendent of JNIMS. Met with Prof. Dr. L. Usharani Devi, the Director of JNIMS, to discuss the workshop on 'Pre-surgery Planning using Digital Twins & 3D Printing.' She requested a presentation for the surgeons and Heads of Departments (HODs) in the coming days.



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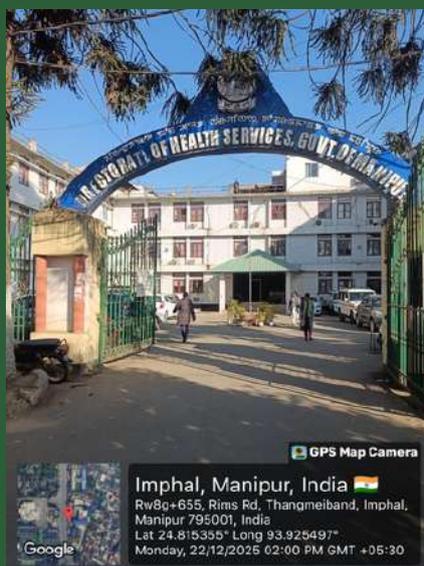


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Lab Activities at 5G Lab Manipur

Visited the Directorate of Health Services, Government of Manipur, and had a meeting with Dr. Y. Premchandra Singh, Joint Director, where we discussed the Industry 4.0 project DPR in detail.



At the 5G Lab for equipment testing. During this time, I reached out to several local startup teams, inviting them to visit our lab to explore future collaborations.



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Lab Activities at 5G Lab Nagaland

Met with the faculty and HODs of different departments regarding courses and seminars on 5G and other important workshop for the students as well as for the staff of the college.



Visited food and civil supply departmental office and had a meeting on 5G use cases and IP generation



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Lab Activities at 5G Lab Nagaland

Visited a government school along with the ATL team members and had a meeting on 5G use cases and workshop with the principal of the school



Assisted two students from Bsc in making report and ppt for their academic project



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Lab Activities at 5G Lab Nagaland

Followed up on the app that the startup team is making for the IP and progressing on their work.



Was part of a 3 day college annual days where two college Immanuel and Govt college dimapur was part of the event using this opportunity, Invited the other college next semester for courses and workshop in the lab



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Lab Activities at 5G Lab Nagaland

Last day of college gave a reminder to the college students and the staff to attend the 5G course and workshop.



Visited beauty barn a successful startup on beauty and wellness and meet with the HR Manager merenlila and had a brief discussion on our 5G program of helping startups and entrepreneurs



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Lab Activities at 5G Lab Nagaland

Visited employment exchange office and meet with young professional Miss yapang and had an exchange of information on more collaboration in the coming months



Visited a farmer who grows black pepper and had a meeting on how our 5G technology could be useful to him.



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Lab Activities at 5G Lab Nagaland

Met an entrepreneur that runs a micro led light assembling company named Kemp's lights. Discussed on how our 5G technology could help him in upgrading his product



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Lab Activities at 5G Lab Arunachal Pradesh

Officials from ICAR, Hyderabad visited our lab today. A demonstration was performed for them.



PhD students from College of Horticulture & Forestry, Pasighat visited our Lab. Were given a demonstration of our Lab equipments and ongoing project.



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Lab Activities at 5G Lab Arunachal Pradesh

Agricultural officials of Pasighat visit our Lab



Officials from Department of telecom, Arunachal Pradesh visited our Lab & given a tour of the lab and ongoing activities.



Students from 4th Year COAP visited the Lab and had a good discussion about our project and IP's developed in Lab.



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Lab Activities at 5G Lab Arunachal Pradesh

2nd year & 3rd year Students from Indian Agriculture research Institute, ICAR, Gogamukh, Assam visited our Lab along with few faculties



Officials from ICAR, visited our lab. A demonstration was performed for them.



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Lab Activities at 5G Lab Arunachal Pradesh

Students from 2nd year COA, Pasighat visited the lab for some hands on practice in 3D Printing.



Visitors from IIMR Hyderabad, a demonstration of the Lab equipments and discussion about what can be done in the future with this Lab.



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Lab Activities at 5G Lab Arunachal Pradesh

Students from 3rd year COAP visited our Lab. Will be planning for next IP product to be developed in Lab.



Visitors from College of Horticulture were given a brief about our project along with IP solution support & other activities in Lab.

