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

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Upgradation of 5G Labs

Upgradation of 5G Labs in North-Eastern States. Deployed IoT Kits, Drones, and MEC Applications successfully installed in upgraded labs.

College of Agriculture, Central Agriculture University, Pasighat, Arunachal Pradesh

Immanuel College, Dimapur, Nagaland

Tripura University, Agartala, Tripura

5G Experience Center, Tech City, Bongora, Guwahati

Sanchaman Limboo Govt Degree College, Geyzing, Sikkim

Government Serchhip College, Serchhip, Mizoram

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Comprehensive Training and Collaboration

Organized comprehensive training sessions for mentors of the upgraded 5G labs. Facilitated visits for educational institutions to foster learning and collaboration.

Mentor Trainings at 5G Experience Center, Tech City, Bongora, Guwahati

Assam Down Town University Students Experience the Next-Gen 5G Lab

Government High School Khusiabill Students from Dimapur, Nagaland Experience the Enhanced 5G Labs

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UAT Sign-off and Demonstrations

Signed off by Nodal Officers from the North-Eastern states following demonstrations of IOT Kit, Drone, and MEC application.

Successful UAT Sign-Off by Nodal Officers

Government Serchhip College, Serchhip, Mizoram

Tripura University, Agartala

Successful Demonstration of Upgraded 5G Lab at Sanchaman Limboo Govt Degree College Geyzing, Sikkim

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5G Workshops for BSNL Officials and NFSU Professors

Held at Tripura University with 25-30 attendees per session, these workshops aimed to equip participants with an in-depth understanding of 5G advancements, practical applications, and hands-on experience with 5G lab equipment.

Workshop on wireless communication advancements covering digital communications, IMSI, CPE, and more.

Insightful session on 5G applications, spectrum, core networks, and use cases in healthcare, agriculture, and mobility.

Practical demonstration of 5G lab equipment, Wireshark protocol analysis, IoT sensors, and 5G device connectivity.

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Lab Demonstration and 5G Collaboration at Dimapur Lab

Students from Govt. HSS Nuiland attended a demo on 5G features and also discussed the upcoming certification courses.

Visit of Young professionals from Nagaland's Employment Office to discuss 5G use cases and opportunities to leverage the NCS portal. Plans are underway to introduce 5G certification courses and workshops soon.

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AI-Based Diabetic Retinopathy Screening and 5G Lab Outreach Program at Sikkim Lab

AI-Based Diabetic Retinopathy Screening initiative leverages advanced AI technology to detect and diagnose Diabetic Retinopathy at an early stage, helping prevent vision loss and other diabetes-related eye complications through timely intervention.

Visit of Sikkim Lab Mentor to Government Girls's Senior Secondary School and District Institute of Education and training to motivate them to arrange students visit to the Sikkim 5G Lab

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Academic Initiatives and Collaborative Outreach Activities in Manipur and Nagaland Labs

In support of academic initiatives in Manipur, the 5G Lab was actively utilized by faculty and students from MIT College for their semester project presentations (seminars). They leveraged the lab's advanced equipment and resources to enhance the quality and impact of their academic work.

The Nagaland 5G Lab Mentor had the opportunity to meet with the Lead Manager of Atal Tinkering Lab under NITI Aayog. Our discussions focused on how 5G technology can enable real-time data generation for their IoT and AI devices, significantly enhancing their functionality and performance.
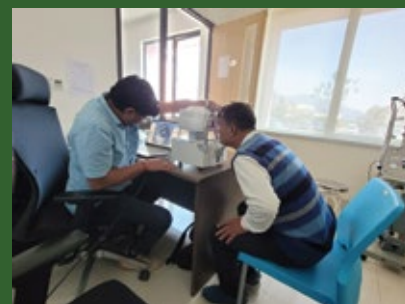
AI-Based Diabetic Retinopathy Screening is now being conducted at multiple locations across Assam

Diabetic Retinopathy Screening at Assam State Zoo Premises

AIIMS Guwahati conducted Diabetic Retinopathy Screening

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AI-Based Diabetic Retinopathy Screening at multiple locations across Tripura

Tripura Medical College (TMC)

SDM office Amarpur Chabimura, Tripura

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AI-Based Diabetic Retinopathy Screening at multiple locations across Tripura

ILS hospital Agartala

Indian Red Cross Society, Astabal ground, Agartala

For more information visit www.nec5g.org or scan the QR code