

TEC Signs MoU with IIIT Naya Raipur to Advance Next-Generation Telecom Technologies and Standards

Collaboration to Bolster India's Presence in Global Telecom Standards and Forums

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The Telecommunication Engineering Centre (TEC), the technical arm of the Department of Telecommunications (DoT), Government of India, has signed a Memorandum of Understanding (MoU) with the International Institute of Information Technology (IIIT) Naya Raipur to jointly pursue research, innovation, and standardization in next-generation telecommunications technologies.



This strategic partnership combines TEC's national leadership in telecom standardization with IIIT Naya Raipur's academic and research excellence, creating a collaborative framework to advance India's role in global telecom innovation.

Key Areas of Collaboration

- **Open RAN and Network Disaggregation:** Development of open interfaces, modular architectures, virtualization, and vendor interoperability.
- **Cognitive Radio and Spectrum Sharing:** Research on coexistence frameworks and studies aligned with WRC-27 agenda items.
- **5G / 6G / IoT Frameworks:** Joint research on emerging technologies and test environments for future network generations.
- **Standardization Contributions:** Collaborative participation in ITU-T Study Groups and TEC's National Working Groups.
- **India-Specific Test Frameworks:** Development of standards and interoperability solutions tailored to India's digital ecosystem.

This collaboration is expected to significantly strengthen India's participation in global telecom

standards and international policy forums. By fostering joint research testbeds and real-world collaborations, it will accelerate innovation across emerging communication technologies. The partnership also aims to promote digital inclusion by developing affordable, interoperable, and vendor-neutral solutions suited to India's diverse connectivity needs. Most importantly, it will help prepare the nation for the next wave of telecom evolution, including the advent of 6G networks and advanced IoT applications, ensuring India remains at the forefront of global digital transformation.

This collaboration will also advance India's vision of **Atmanirbhar Bharat** by fostering indigenous research, design, and development in telecom technologies. By leveraging domestic expertise and creating India-specific standards and test frameworks, the partnership will strengthen the nation's self-reliance and reduce dependence on imported solutions in critical communication infrastructure.

About TEC

The Telecommunication Engineering Centre (TEC) is the technical arm of the Department of Telecommunications (DoT), Government of India. TEC formulates technical standards, specifications, and test requirements for telecom equipment and networks in India, ensuring interoperability, quality, and alignment with global best practices.

About IIIT Naya Raipur

The International Institute of Information Technology (IIIT) Naya Raipur is an institute of national importance engaged in advanced research and innovation in information and communication technologies. The institute works closely with industry and government to drive technology development, skill building, and innovation for India's digital transformation.

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