



## ITEC COURSE PROPOSAL – Telecom for Digital Tomorrow

<b>1. Name of the Institute</b>	<b>National Communications Academy–Finance (NCA-F)</b> (Erstwhile NICF) Department of Telecommunications, Government of India
<b>2. Title of the Course</b>	<b>Telecom for Digital Tomorrow</b>
<b>3. Course Dates and Duration</b>	12 February 2026 (Thursday) to 25 February 2026 (Wednesday) (2 Weeks)
<b>4. Eligibility Criteria for Participants</b> <ol style="list-style-type: none"><li>1. Educational Qualifications</li><li>2. Age Limit: 25–45 years (as per ITEC norms)</li><li>3. Target Group (Level of participants and target ministries/departments, etc. may be indicated)</li></ol>	<ol style="list-style-type: none"><li>1. Graduate/Bachelor's Degree The medium of instruction being English, adequate knowledge of English is necessary for effective participation</li><li>2. 25-45 Years</li><li>3. Government officers, regulators, telecom/IT professionals, academia, researchers, and industry bodies in the Telecom Domain</li></ol>
<b>5. Aim &amp; Objective of the Course</b>	The course is designed to equip international participants with an understanding of evolution of India's Telecom Sector & Policy, Emerging Technologies, advances in Digital Public Infrastructure & Digital Finance, AI Cybersecurity, and global best practices. The objectives of the course are to: <ul style="list-style-type: none"><li>• Develop understanding of evolution of India's Telecom Sector &amp; Policy.</li><li>• Appreciate Digital Public Infrastructure: UPI, Digital Payments, Aadhar, Digilocker</li><li>• Information about India's Scheme for universal connectivity</li><li>• Analyze India's AI mission and the role of AI in connectivity.</li><li>• Understand AI and Ethics</li><li>• Information on Green Telecom</li><li>• Examine emerging technologies (5G/6G, AI, IoT).</li></ul>



	<ul style="list-style-type: none"><li>• Understand cybersecurity challenges.</li><li>• Promote cross-border learning and collaboration</li></ul>
<b>6. Learning Outcomes</b>	<p>By the end of the program, participants will be able to:</p> <ul style="list-style-type: none"><li>• Understand recent developments in Telecom Regulation, Digital Finance &amp; Digital Public Infrastructure.</li><li>• Appreciate India's National Master Plan for multi-model connectivity.</li><li>• Understand India's mission for AI and the Ethical perspective of AI usage.</li><li>• Evaluate emerging technologies.</li><li>• Assess cybersecurity risks.</li><li>• Understand Green Telecom.</li></ul>
<b>7. Course Contents / Syllabus</b>	<p><b>Module 1: Telecom Sector Foundations &amp; Policy Evolution</b></p> <ul style="list-style-type: none"><li>- Evolution of telecom sector &amp; key policy</li><li>- Regulatory aspects &amp; role of TRAI in tariffs, Quality of Service, Consumer rights.</li></ul> <p><b>Module 2: Digital Public Infrastructure &amp; Universal Digital Access</b></p> <ul style="list-style-type: none"><li>- Aadhaar, Digilocker, UPI &amp; digital payments ecosystem.</li><li>- Digital Bharat Nidhi (USOF) for rural &amp; remote connectivity.</li></ul> <p><b>Module 3: Artificial Intelligence, Innovation &amp; Telecom Applications</b></p> <ul style="list-style-type: none"><li>- India's AI mission.</li><li>- AI in telecom: use cases, benefits, challenges.</li><li>- AI &amp; ethics in digital governance.</li></ul> <p><b>Module 4: National Connectivity Planning &amp; Infrastructure Sustainability</b></p> <ul style="list-style-type: none"><li>- Green telecom initiatives.</li><li>- GatiShakti: National Master Plan for multi-model connectivity.</li><li>- Satellite-based communication for remote areas.</li></ul> <p><b>Module 5: Cybersecurity, Network Resilience &amp; Telecom Governance</b></p> <ul style="list-style-type: none"><li>- Cybersecurity threats &amp; mitigation in telecom.</li><li>- NOC operations: network monitoring &amp; resilience.</li><li>- C-DOT innovations &amp; secure telecom solutions.</li></ul>



	<p><b>Module 6: Global trends, Cross-country Learning &amp; Action Planning</b></p> <p>- 6G, AI-driven networks, satellite broadband trends. - Country presentations &amp; collaborative learning.</p>
<b>8. Mode of Evaluation of the performance of the participants</b>	<p>The overall performance of the participants will be assessed on the following criteria:</p> <ul style="list-style-type: none"><li>• Group presentations</li><li>• Visit reports</li><li>• Attendance and participation</li><li>• Behaviour and conduct</li></ul>