



Training course outline

ITU and Advanced Level Telecom Training Centre

Title	5G Mobile data – The Beginning of AI Smart Society
Modality	Online Instructor Led
Dates	16 – 27 May 2022
Duration	2 Weeks
Registration deadline	13 May 2022
Training fees	100 USD per participant
Description	This online training course aims to support participants to understand the concepts of ubiquitous connectivity according to the target set by the Broadband Commission for Sustainable Development 2025, key considerations of the current and future ecosystem of the mobile data including 5G Mobile data core/aggregation/access network, technological development of 3GPP and non 3GPP and key features of 5G new radio.
Code	22OI27827ASP-E

1.LEARNING OBJECTIVES

This online training course aims to equip participants with an understanding of:

- AI Smart Society in the digital economy including telecom networks, digital governments, industry verticals, platforms, and devices.
- Policy and regulatory ecosystem necessary to support national of AI Smart Society planning and implementation;
- Smart Society concept, smart power requirements etc, ,Industry 4.0;
- Virtualisation (SDN/NFV) ;
- Cellular IoT Air Interface
- 3GPP Vs Non-3GPP IoT Application in Smart Society
- Transport Requirement in AI Smart Society : Core and Access network ;
- Infrastructure of core data network and security aspects;
- 3GPP Technologies: Recommendations & Standards;
- IMT spectrum management for wireless broadband & 5G deployment.
- 5G : A case Study (AI Smart Society)



2. LEARNING OUTCOMES

- Concept of the ubiquitous connectivity according to Broadband Commission for Sustainable Development 2025 Targets.
- Key considerations of the current ecosystem of the Mobile data and will able to manage in future generations of 5G Mobile data Core/ Aggregation / Access network.
- The technological development of 3GPP and non 3GPP.
- Roles of mobile network infrastructure including backhaul, mid haul and front haul.
- Key features of 5G NR

3.TARGET POPULATION

This training is primarily targeted at executives, managers, engineers and technical staff from regulators, policy makers, telecom operators, and academia and government organizations.

4.ENTRY REQUIREMENTS

Any Graduate/Diploma in Electronics, IT / Telecommunication, Electrical, Computer science and Electrical may apply for this course.

No prior knowledge or qualification in converged network is required; however it is important for participants to be working for a regulator, or in the ICT/Telecoms sector as a provider or consultant. Students in the Engineering or ICT related courses could also be considered.

5.TUTORS/INSTRUCTORS

S.No.	NAME OF TUTOR(S)/ INSTRUCTOR(S)	Position	CONTACT DETAILS
1.	Sh. Arun Kumar Sharma	Chief General Manager, ALTTC, BSNL, Ghaziabad, India	cgm_alttc@bsnl.co.in cgmalttc@gmail.com + 911202755121
2.	Sh. Pratap Narayan Dohare	General Manager (Zonal-North) ALTTC, BSNL, Ghaziabad, India	doharepratap@gmail.com + 911202704638
3.	Mr A K Jha	AGM (EB), ALTTC, BSNL Ghaziabad, India	sdebd2010@gmail.com +919412739258
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6.	Mr. Sanjay Kumar	Assistant General Manager, ALTTC, Ghaziabad, India	girisanju@gmail.com +91 9412739313
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8.	Mr. Manoj Kumar	Assistant General Manager, ALTTTC, Ghaziabad, India	manoj_nagar@hotmail.com +91 9412774494
9.	Mr.Sandeep Singh	Assistant Director, ALTTTC, Ghaziabad, India	sandeepalttc@bsnl.co.in +91 9463502525

6.TRAINING COURSE CONTENTS

Module 1: 5G Mobile data – The Beginning of AI Smart Society: Basic Technology prospects

- Why 5G Mobile data in AI Smart Society : Need, and Benefits.
- 5G Mobile data Security Guidelines and Assessment
- Mobile IoT: 3GPP standardized technologies for licensed mobile spectrum.
- Drivers and inhibitors of IoT and 5G.
- Use Cases in AI smart Society.

Module 2: 5G Mobile data – The Beginning of AI Smart Society : Advance technology and Regulatory Perspective

- Policy considerations related to 5G data. Making Smart society.
- The policy and regulatory implications of IoT.
- 3GPP Standardisation & Evolution towards IoT
- Mobile IoT technologies: LTE-M, EC-GSM-IoT, NB-IoT and 5G IoT.
- Spectrum Management and standards for Wireless Broadband
- 5G Mobile data with 5G-NR(mMTC)

7.TRAINING COURSE SCHEDULE

Week	Module Title	Topics
1	Module 1: 5G Mobile data – The Beginning of AI Smart Society: Basic Technology prospects	<ul style="list-style-type: none">• Why 5G Mobile data in AI Smart Society : Need, and Benefits.• 5G Mobile data Security Guidelines and Assessment.• Drivers and inhibitors of IoT and 5G.• Industry 4.0• Use Cases in AI smart Society.
		Discussion / Forum
		Chat Session
		Quiz 1
2	Module 2: 5G Mobile data – The Beginning of AI Smart Society : Advance technology and Regulatory Perspective	<ul style="list-style-type: none">• Policy considerations related to 5G data. Making Smart society.• The policy and regulatory implications of IoT.• 3GPP Standardisation & Evolution towards IoT• Mobile IoT technologies: LTE-M, EC-GSM-IoT, NB-IoT and 5G IoT.• Spectrum Management and standards for Wireless Broadband• 5G Mobile data with 5G-NR(mMTC)
		Discussion / Forum
		Chat Session
		Quiz 2



8.METHODOLOGY (Didactic approach)

Course materials: Each week one module will be discussed and the relevant course material will be made available on the website.

Online Discussion Forums: Participants are expected to participate actively in discussion forums on selected topics throughout the week.

Chat sessions: Chat sessions will be conducted in real time every week where discussions would be held with the instructor (s) on a particular topic. Participants are encouraged to join the discussion and exchange points of view.

Quizzes: Two mandatory quizzes will be held during the course. Course evaluation and feedback would be done at the end of the course and is a part of the mandatory activity.

9.EVALUATION AND GRADING

The assessment of the participants shall be based on the time spent on the training and the following parameters:

Quiz # 1	25%
Quiz # 2	25%
Individual Assignment:	20%
2 Chat Sessions (10% per session)(each Thursday)	20%
2 Discussion Forum (5% per forum)	10%
Total Evaluation:	100%

10.TRAINING COURSE COORDINATION

<p>Institute Head: Mr. Arun Kumar Sharma Chief General Manager ALTTC, Raj Nagar, Ghaziabad, UP, INDIA -201002 cgm_alttc@bsnl.co.in cgmalttc@gmail.com +91 120 2755121 (Works)</p> <p>Institute Coordinator: Mr. Pratap Narayan Dohare General Manager ALTTC, Raj Nagar, Ghaziabad, UP, INDIA -201002</p>	<p>Training Coordinators: Training coordinators: Mr.Abhay Gupta AGM (Mobile), Room No. 710, Admin Building , ALTTC , Raj Nagar, Ghaziabad(UP), INDIA -201002 abhaybpl@gmail.com(Email) +91 120 275 5147 (Works) +91 941 273 9319 (Mobile)</p>	<p>ITU Coordinator: Mr. Sean S. Doral Program Officer-ITU, ITU Regional Office for Asia- Pacific 4th Floor NBTC Region 1 Building 101 Chaengwattana Road, Laksi, Bangkok 10210 THAILAND sean.doral@itu.int (Email) Tel: +66 2574 9326-8, +66 2 575 0055</p>
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