



ITU Centres of Excellence Network for Asia-Pacific Region
Advanced Level Telecom Training Centre

Online Training Course on
IoT Sensors & Network for Disaster Communication

20 – 31 July 2020

COURSE OUTLINE

COURSE DESCRIPTION

Title	“IoT Sensors & Network for Disaster Communication “
Objectives	<ul style="list-style-type: none">• To understand the critical role of Digital Technologies in disaster Management.• To Understand the IoT Concepts and advances wireless sensor-based networks for early warning and disaster preparedness, Impact & use of IoT in disaster management.• To understand various IoT applications in disaster management• To understand Digital Twins and role in Disaster Relief Model
Dates	20 – 31 July2020
Duration	2 Weeks
Registration deadline	19 July 2020
Training fees	The applicable fee for this training is @ 100 USD per participant
Course code	20O124886ASP-E

LEARNING OUTCOMES

Upon completion of this training, participants will be able:

- To understand the critical role of digital technologies in the 4 phases of disaster management and in risk reduction activities
- To understand the IoT concepts and advanced wireless sensor-based networks for early warning and disaster preparedness, including last mile connectivity
- To understand the roles of digital twins in disaster risk models

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.

TUTORS/INSTRUCTORS

S.No.	NAME OF TUTOR(S)/ INSTRUCTOR(S)	Position	CONTACT DETAILS
1.	Mr. M. K. Seth	Chief General Manager, ALTTC, BSNL, Ghaziabad, India	cgm_alttc@bsnl.co.in +91 94018 44444
2.	Mr. Subhash Chand	PGM, ALTTC, BSNL Ghaziabad, India	subhash.iitr83@gmail.com +91 98682 02123
3.	Mrs. Suresh Devi	DGM(IT), ALTTC, BSNL Ghaziabad, India	sureshdevi7009@gmail.com +91 94127 39242
4.	Mr. H K Dixit	DGM(Tx & Mobile), ALTTC, BSNL Ghaziabad, India	dikshithk@rediffmail.com +91 94127 39065
5.	Mr. Nitin Kumar Garg	Assistant General Manager, ALTTC, Ghaziabad, India	nitinkumargarg@yahoo.com +91 94120 00810
6.	Mr. Anand Kumar	Assistant General Manager, ALTTC, Ghaziabad, India	anandkumarbsnl21@gmail.com +91 94127 39248

EVALUATION

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

Besides the weekly quiz and their assignment score, participants will be evaluated according to their substantive posts on the discussion forum, active participation in the online chat sessions and other course activities, reflecting both the quantity and quality of time spent on the course. Below are the evaluation schemes:

Quiz # 1	30%
Quiz # 2	30%
Individual Assignment:	20%
2 Chat Sessions (10% per session)	20%
Total Evaluation:	100%

IMPORTANT: A PASSING MARK OF 35% IS REQUIRED FOR OBTAINING A COMPLETION CERTIFICATE.

TRAINING SCHEDULE AND CONTENTS / AGENDA

Agenda

Week	Module Title	Topics
1	Module 1: IoT:Concept & Architecture Advanced WSN Network	<ul style="list-style-type: none">• Introduction to role of digital technologies in disaster management• IoT concepts & architecture• Advanced smart wireless sensors• IoT for disaster management (Smart DM Model)
		Discussion / Forum
		Chat Session Quiz1
2	Module 2: IoT: Disaster Management	<ul style="list-style-type: none">• IoT in disaster & risk management• Overview of IoTs in Disaster Relief• IoT based smart early warning systems• Concept of digital twins and its role in disaster management
		Discussion / Forum
		Chat Session
		Quiz2

METHODOLOGY

The course will be delivered online. PDF documents will be made available each week. These will constitute the main source of material for the course. Each week discussion topics will be provided and a discussion forum opened for participants to participate, to exchange views and share information. All participants are expected to participate in the discussion forum.

Online chat sessions with the Tutor will take place every Wednesday from 11:00 – 12:00 Hrs. Indian Standard Time (IST). All participants are expected to join the chat sessions, as they will be graded.

Review Quizzes will be held twice during the course. Each quiz will have 15 (fifteen) multiple choice questions.

One individual assignment will be assigned to each participant.

Important:

During the course, participants are expected to check their mailboxes for new messages on a daily basis.

COURSE COORDINATION

<p>Institute Head: Mr. MK Seth Chief General Manager ALTTC, Raj Nagar, Ghaziabad, UP, INDIA -201002 cgm_alttc@bsnl.co.in (Email) +91 120 2755121 (Works)</p> <p>Institute Coordinator: Mr. Subhash Chand Principal General Manager ALTTC, Raj Nagar, Ghaziabad, UP, INDIA -201002 subhash.iitr83@gmail.com (Email) +91 120 2755122 (Works) +91 9868202123 (Mobile)</p>	<p>Training coordinators: Ms. Suresh Devi DGM (IT) ALTTC, Raj Nagar, Ghaziabad, UP, INDIA -201002 sureshdevi7009@gmail.com (Email) +91 9412739242(Mobile)</p> <p>Mr. Nitin Garg AGM (IT) ALTTC, Raj Nagar, Ghaziabad, UP, INDIA -201002 mail.garg77@gmail.com +91 120 2755625 (Works) +91 9412000810 (Mobile)</p>	<p>ITU coordinator: Mr. Sean Doral Program Officer ITU Regional Office for Asia- Pacific 5th Floor, Thailand Post Training Centre, 111 Moo3 Chaengwattana Road,Laksi Bangkok 10210,Thailand sean.doral@itu.int +66 257 500 55 (Works) +66 257 535 07 (Fax)</p>
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REGISTRATION AND PAYMENT

ITU Academy portal account

Registration and payment should be made online at the ITU Academy portal. To be able to register for the course you **MUST** first create an account in the ITU Academy portal at the following address: <https://academy.itu.int/index.php/user/register>.

Training registration

When you have an existing account or created a new account, you can register for the course online at the following link: <https://academy.itu.int/index.php/training-courses/full-catalogue/iot-sensors-and-network-disaster-communication>

You can also register by finding your desired course in our training catalogue <https://academy.itu.int/index.php/training-courses/full-catalogue>

Payment:

1. On-line payment

A training fee of USD 100 per participant is applied for this training. Payments should be made via the online system using the link mentioned above for training registration at <https://academy.itu.int/index.php/training-courses/full-catalogue/iot-sensors-and-network-disaster-communication>

2. Payment by bank transfer

Where it is not possible to make payment via the online system, select the option for offline payment to generate an invoice using the same link as above. Download the invoice to make a bank transfer to the ITU bank account shown below. Then send the proof of payment/copy of bank transfer slip and the invoice copy to Hcbmail@itu.int and copy the course coordinator. **All bank transaction fees must be borne by the payer. Failure to submit the above documents may result in the applicant not being registered for the training.**

3. Group payment

Should you wish to pay for more than one participant using bank transfer and need one invoice for all of them, create an account as **Institutional Contact**. **Institutional Contacts** are users that represent an organization. Any student can request to be an institutional contact or to belong to any existing organization.

To do this, head to your profile page by clicking on the **“My account”** button in the user menu. At the bottom of this page you should see two buttons:

- a. If you want to **become an institutional contact**, click on the **“Apply to be an Institutional Contact”** button. This will redirect you to a small form that will ask for the organization name. After you fill the name of the organization you want to represent, click on **“continue”** and a request will be created. An ITU Academy manager will manually review this request and accept or deny it accordingly.
- b. If you want to **belong to an existing organization**, click on the **“Request to belong to an Institutional Contact”** button. This will redirect you to a small form that will ask you to select the organization you want to join from an organization list. After you select the correct organization, click on **“continue”**, a request will then be created. The Institutional Contact that represents that organization will manually accept or deny your request to join the organization.

ITU BANK ACCOUNT DETAILS:

Name and Address of Bank:	UBS Switzerland AG Case postale 2600, CH 1211 Geneva 2 Switzerland
Beneficiary:	Union Internationale des Télécommunications
Account number:	240-C8108252.2 (USD)
Swift:	UBSWCHZH80A
IBAN	CH54 0024 0240 C810 8252 2
Amount:	USD 100
Payment Reference:	CoE-ASP- 24886 - E-P.40593.1.04