



ITU Centers of Excellence Network for Asia-Pacific Region

Advanced Level Telecom Training Centre

e-Learning Training Course on

Trends In Cyber Security & Blockchain Technology

Ghaziabad (Near Delhi), India

13th – 24th December 2021

TRAINING COURSE OUTLINE (e-Learning)

COURSE DESCRIPTION

Title	Trends In Cyber Security & Blockchain Technology
Objectives	<ul style="list-style-type: none">➤ To understand Cyber Security & Market Scenario along with Understanding Cyberspace in 2025.➤ To understand Cyberspace ecosystem, networks & various security threats.➤ To understand in global Trends in Social Engineering➤ To understand Blockchain Platforms and consensus algorithms➤ Impact of Blockchain in Major Sectors (Financial Services, Healthcare, Governance and IPR)➤ India's Adoption of Blockchain
Dates	13 – 24 December 2021
Duration	02 weeks
Registration deadline	12 December 2021
Training fees	@USD 100 per participant
Course code	21OI26663ASP-E

DESCRIPTION OF THE TRAINING COURSE

The course is design keep in view to cover the current trends in Cyber security and Blockchain technology. In this course, participants will be able to learn about the market and digital scenario in cyber world future projection in 2025. This course assist to understand the current trends in Cyber Security & Blockchain Technology.

Blockchain technology is an emerging crypto platform for developing decentralized applications and data storage, over and beyond its role as the global trends underlying the crypto-currencies. The basic tenet of this platform is that it allows one to create a distributed

and replicated ledger of events, transactions, and data generated through various IT processes with strong cryptographic guarantees of tamper resistance, immutability, and verifiability.

LEARNING OUTCOMES

Upon completion of this course, participants will be able to:

- To understand the security need in cyber world.
- To Understand Market Scenario along with understanding Cyberspace in 2025.
- To understand Cyberspace ecosystem, networks & various security threats.
- To understand global Trends in Cyber Security
- To understand Blockchain Platforms and consensus algorithms
- Impact of Blockchain in Major Sectors (Financial Services, Healthcare, Governance and IPR)

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.	Sh. Arun Kumar Sharma	Chief General Manager, ALTTC, BSNL, Ghaziabad, India	cgm_alttc@bsnl.co.in cgmalttc@gmail.com + 911202755121
2.	Sh. Mohan Singh	General Manager (Technical) ALTTC, BSNL, Ghaziabad, India	mohanbagrana2872@bsnl.co.in + 911202704638
3.	Mr A K Jha	DGM (EB), ALTTC, BSNL Ghaziabad, India	sdebd2010@gmail.com +919412739258
4.	Mr. Ashok Kumar Sharma	DGM (CFA & BB), ALTTC, BSNL Ghaziabad, India	ashok1963sharma@gmail.com +91 9412220075
5.	Mr. Amit Garg	Sub Divisional Engineer, ALTTC, Ghaziabad, India	amitgarg@bsnl.co.in +91-941700021
6.	Mr. Krishan Kumar Singh Yadav	Junior Telecom Officer, ALTTC, Ghaziabad, India	kksy@bsnl.co.in +91-9411892744
7.	Mr. Neeraj Gupta	Junior Telecom Officer, ALTTC, Ghaziabad, India	neeraj_gupta@bsnl.co.in +91-9412770110
8.	Mr. Matam Naga Naveen Kumar	Junior Telecom Officer, BSNL, India	mr.naveennaga@gmail.com +91-9493273057

9.	Mr. Kartikeya kandukuri	Junior Telecom Officer, BSNL, India	karthikeya.kandukuri@gmail.com +91-9490341761
10	Ms. Nilufar Yasmin,	Assistant Professor (Electronic Science), AKT University, India	Nilufar.yasmin22@gmail.com +919876895174

EVALUATION AND GRADING

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

Evaluation Parameter	Weightage
Quizzes	60%
Assignment	20%
Learning Participation	20%

The minimum passing requirement for certificate is 60%

TRAINING COURSE SCHEDULE / AGENDA

Week / Session	Topic	Exercises and interactions
Week 1	Trends In Cyber Security	<p>This week, each participant has to:</p> <ul style="list-style-type: none"> ➤ To understand and appreciate Cyber Security & Market Scenario along with Understanding Cyberspace in 2025. ➤ To understand Cyberspace ecosystem, networks & various security threats. ➤ To understand in global Trends in Social Engineering ➤ Cryptography Essentials
Week 2	Trends in Blockchain Technology,	<p>This week, each participant has to:</p> <ul style="list-style-type: none"> ➤ To understand Blockchain Platforms and consensus algorithms ➤ Impact of Blockchain in Major Sectors (Financial Services, Healthcare, Governance and IPR) ➤ India's Adoption of Blockchain ➤ To understand Crypto-currencies and Digital Ledgers

METHODOLOGY (Didactic Approach)

The Online program will include

- Instructor-led presentations by Industry experts and eminent speakers.
- Case studies,
- Online Group exercises/presentation
- Assignments
- Demos of Use-cases & Virtual Lab visits

TRAINING COURSE COORDINATION

<p>Institute Head: Sh. Arun Kumar Sharma Chief General Manager ALTTC, Raj Nagar, Ghaziabad, UP, INDIA - 201002 cgm_alttc@bsnl.co.in (Email) +91-120-2755121 (Works) +91-120-2710494 (Works) +91-120-2756985 (Fax)</p> <p>Institute Coordinator: Sh. Mohan Singh General Manager (Technical) ALTTC, Raj Nagar, Ghaziabad, UP, INDIA -201002 mohanbagrana2872@bsnl.co.in (Email) +91-120-2704638 (Works) +91-120-2756985 (Fax)</p>	<p>Training coordinators: Mr. Ashok Kumar Sharma DGM (IT) ALTTC, Raj Nagar, Ghaziabad, UP, INDIA ashok1963sharma@gmail.com (Email) +91 9412220075(Mobile)</p> <p>Mr. Nitin Garg Assistant General Manager (IT) ALTTC, Raj Nagar, Ghaziabad, UP, INDIA mail.garg77@gmail.com (Email) +91 941000810 (Mobile)</p> <p>Mr Amit Garg Sub Divisional Engineer ALTTC, Raj Nagar, Ghaziabad, UP, INDIA -201002</p> <p>Mr. Krishan Kumar Singh Yadav Junior Telecom Officer, ALTTC, Raj Nagar, Ghaziabad, UP, INDIA - 201002 Krishnadev25@rediffmail.com +91 120 2755164 (Works) +91 9411892744 (Mobile)</p>	<p>ITU coordinator: Mr. Sean S. Doral Program Officer-ITU, ITU Regional Office for Asia- Pacific 5th Floor, Thailand Post Training Centre, 111 Moo3 ChaengwattanaRoad,LaksiBa nkok 10210,Thailand sean.doral@itu.int (Email) +66 806650213 (Works) +66 257 535 07 (Fax)</p>
--	--	--

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/user/register>

Training course 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/training-courses/full-catalogue/trends-cyber-security-blockchain-technology>

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

Payment

1. On-line payment

A training fee of USD 100 per participant is applied for this training. Payment should be made via the online system using the link mentioned above for training registration at <https://academy.itu.int/training-courses/full-catalogue/trends-cyber-security-blockchain-technology>

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-21OI26663ASP-E-P.40593.1.04

4. Other method of payment

If due to national regulations, there are restrictions that do not allow for payment to be made using options 1 & 2 above, please contact the ITU coordinator for further assistance.