



## ITU Centres of Excellence Network for Asia-Pacific Region

### Advanced Level Telecom Training Centre Online Training Course on Cyber Security and Critical Infrastructure Protection

23 November - 05 December 2020

#### COURSE OUTLINE

#### COURSE DESCRIPTION

<b>Title</b>	<b>Online training course on “Cyber Security And Critical Infrastructure Protection”</b>
<b>Objectives</b>	<ul style="list-style-type: none"><li>• To understand and appreciate the Cyber space, virtual Identity and new paradigms related to it.</li><li>• To understand Cyber space ecosystem, underlined network, various security threats.</li><li>• To understand the deployment models, strategies to provide prevention and protection to data, network, devices and technologies as a whole.</li><li>• To understand concepts and underlying framework of critical infrastructure.</li><li>• To understand the security, privacy and regulatory issues/Frame work pertaining to Critical Infrastructure to Cyber World.</li></ul>
<b>Dates</b>	23 November to 05 December 2020
<b>Duration</b>	2 Weeks
<b>Registration deadline</b>	22 November 2020
<b>Training fees</b>	USD 100
<b>Course code</b>	200I24876ASP-E

#### LEARNING OUTCOMES

Upon completion of this training, participants will be able to understand:

- To understand the ecosystem of Cyber World.

- To understand deployment strategies, process and protocols for prevention and protection of data, network and devices employed or connected to cyber world.
- To understand Role of critical infrastructure and its need in Today's Technological Ecosystem
- Statutory safeguards available world-wide.
- To learn about the IT/ITES security models.

## TARGET POPULATION

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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

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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 +91-9401844444
2.	Mr. Subhash Chand	PGM, ALTTC, BSNL Ghaziabad, India	subhash.iitr83@gmail.com +91-9868202123
3.	Mrs. Suresh Devi	DGM(IT), ALTTC, BSNL Ghaziabad, India	sureshdevi7009@gmail.com +91-9412739242
4.	Mr Sameer Sharma	Senior Advisor, ITU Regional Office for Asia and the Pacific	sameer.sharma@itu.int
5.	Mr. Nitin Kumar Garg	Assistant General Manager, ALTTC, Ghaziabad, India	nitinkumargarg@yahoo.com +91-9412000810
6.	Mr. K K S Yadav	Assistant Director (IT), ALTTC, Ghaziabad, India	krishnadev25@rediffmail.com +91-9411892744
7.	Mr Neeraj Gupta	Assistant Director (IT), ALTTC, Ghaziabad, India	neeraj_gupta@bsnl.co.in +91-9412770110

## EVALUATION

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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%
<b>Total Evaluation:</b>	<b>100%</b>

**Important:** A passing mark of 60% is required for obtaining a completion certificate.

## TRAINING SCHEDULE AND CONTENTS / AGENDA

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### Agenda

Week	Module Title	Topics
1	<b>Module 1: Cyber Security</b>	<ul style="list-style-type: none"> <li>• Need of Security in Cyber World</li> <li>• Data protection aspects : Cyber World</li> <li>• Importance Of Cyber Security In Covid 19</li> <li>• Implementation of Cyber Security: Cryptography and Steganography</li> <li>• Role of Block Chain In Cyber Security</li> </ul>
		Discussion / Forum
		Chat Session
		Quiz1
2	<b>Module 2: Critical Infrastructure</b>	<ul style="list-style-type: none"> <li>• National Cybersecurity Framework</li> <li>• Critical Infrastructures : An Overview</li> <li>• Identification Of Critical Infrastructure</li> <li>• Building Resilience Against Cyber Attacks During Covid-19 Crisis</li> <li>• Guidelines For The Protection Of National Critical Information Infrastructure</li> <li>• Roles And Responsibilities In Context Of Critical Infrastructure</li> </ul>
		Discussion / Forum
		Chat Session
		Quiz2

## METHODOLOGY

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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. (GMT+5:30). 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

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<p><b>Institute Head:</b> <b>Mr. MK Seth</b> Chief General Manager ALTTC, Raj Nagar, Ghaziabad, UP, INDIA -201002</p> <p>cgm_alttc@bsnl.co.in (Email) +91 120 2755121 (Works)</p> <p><b>Institute Coordinator:</b> <b>Mr. Subhash Chand</b> Principal General Manager ALTTC, Raj Nagar, Ghaziabad, UP, INDIA -201002</p> <p>subhash.iitr83@gmail.com (Email) +91 120 2755122 (Works) +91 9868202123 (Mobile)</p>	<p><b>Training coordinators:</b> <b>Ms. Suresh Devi</b> DGM (IT) ALTTC, Raj Nagar, Ghaziabad, UP, INDIA -201002</p> <p>sureshdevi7009@gmail.com (Email) +91 9412739242(Mobile)</p> <p><b>Mr. Nitin Garg</b> AGM (IT) ALTTC, Raj Nagar, Ghaziabad, UP, INDIA -201002</p> <p>mail.garg77@gmail.com +91 120 2755625 (Works) +91 9412000810 (Mobile)</p>	<p><b>ITU Coordinator:</b> <b>Mr. Sean Doral</b> Program Officer, ITU Regional Office for Asia- Pacific 5th Floor, Thailand Post Training Centre, 111 Moo3 Chaengwattana Road,Laksi Bankok 10210,Thailand</p> <p><a href="mailto:sean.doral@itu.int">sean.doral@itu.int</a> (Email) +41 2273 05438 (Works) +66 257 535 07 (Fax)</p>
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## REGISTRATION AND PAYMENT

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### **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/cyber-security-and-critical-infrastructure-protection>

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/cyber-security-and-critical-infrastructure-protection>

### 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](mailto: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** users are 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- 24876-E-P.40593.1.04