ITU Centres of Excellence Network for Asia-Pacific
IoT Academy
Online Training Course on
Developing Internet of Things Ecosystem

2 – 13 November 2020

COURSE OUTLINE

COURSE DESCRIPTION

Title	**Developing Internet of Things Ecosystem**
Objectives	Internet of Things will form a key component that will enable the 4th industrial revolution. This online training course aims to introduce participants to Internet of Things ecosystem and its key components including acquisition (Sensors & Actuators, embedded Systems, Gateways), network (Device Connectivity), IoT platform (Analytics, Dashboards & Tools, Services), and business (IoT Applications and Services, IoT Verticals, Marketplaces). The training will take into account policies and regulations related to Internet of Things and the its security aspects. It will specifically focus on some IoT verticals and cover all elements described above for them.
Dates	2 – 13 November 2020
Duration	12 Days
Registration deadline	30 Oct 2020
Training fees	USD 100
Course code	**20OI24887ASP-E**

LEARNING OUTCOMES

Upon completion of this training course, participants will be able to:
- understand the concept of IoT ecosystem;
- familiarize with the key players of IoT ecosystem includes acquisition, network, IoT platform and business and their components;
- understand IoT policies and regulations and their considerations;

- familiarize with security consideration of Internet of Things in IoT ecosystem; and
- present IoT ecosystem for some IoT verticals as use case and describe all elements described above for them.

TARGET POPULATION

The course is targeted at Organizations, Industries, ICT Experts, Policy makers, Regulators, Service & Solution Providers and Academia involved in Internet of Things.

TUTORS/INSTRUCTORS

IoT Academy Experts
International IoT Experts

EVALUATION

Besides the tests 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. The evaluation details and criteria for certificates is as follows.

Quiz #1:	30%
Quiz #2	30%
Individual Assignment:	20%
2 Chat Sessions (5% per session)	10%
2 Discussion Forum (5% per forum)	10%
Total Evaluation:	**100%**

IMPORTANT: A PASSING MARK OF 60% IS REQUIRED FOR OBTAINING A COMPLETION CERTIFICATE.

TRAINING SCHEDULE AND CONTENTS

Week	Day, Date	Schedule and content
Week 1	2nd - 7th November, 2020	- Internet of Things Concept, Trend and Market - Internet of Things Pillars and Architecture - Internet of Things Verticals - Internet of Things Policy- Fundamentals & Dimensions - Internet of Things Policy – case study - IoT Business Development
		Discussion Forum, Chat Session
		Quiz1

Week 2	8th - 13th November, 2020	• IoT Security Considerations • Security Policy for the Internet of Things- Case Study • Regulating the IoT, Impact and considerations • Regulating the Internet of Things –case study • IoT Policy around Data • IoT Policy around Data- Case Study
		Discussion Forum, Chat Session
		Quiz2, Assignment

METHODOLOGY

Course Materials: 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: Online chat sessions with the Tutors will take place Wednesdays from 14:00– 15:00 Hrs. Iran Time (GMT+3.30). All participants are expected to join the chat sessions as they will be graded.
Quizzes: Two mandatory online quiz will be held at the end of each week.
Assignment: There will be a **mandatory assignment** for the course.

COURSE COORDINATION

Mr. Sean Doral (sean.doral@itu.int) from the ITU and Mr. Naghizadeh (edu@iotaci.com) from the IoT Academy are at your full disposal should you require any additional information.

REGISTRATION

Registration 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

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/developing-internet-things-ecosystem

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

*Please note that online registration should be done **before 30 October 2020**.*

Online 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/developing-internet-things-ecosystem
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.

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 19OI24887ASP-E-P.40593.1.08

Other method of payment

For local participants, who would like to pay in local currency, please contact Mr. Naghizadeh (edu@iotaci.com) the IoT Academy coordinator for further assistance.