



**Annex 1  
TRAINING OUTLINE**

**ITU CENTRES OF EXCELLENCE NETWORK FOR ASIA PACIFIC REGION**

***Internet of Things: Technology, Standards and Planning***

**8-11 July 2017, Tehran, Islamic Republic of Iran**

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**COURSE DESCRIPTION**

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Title	<b>Internet-of-Things: Technology, Standards and Planning</b>
Method of delivery	Face-to-face
Objectives	<ul style="list-style-type: none"><li>• To provide an overview on the ICT ecosystem and enabling environment to foster Internet of Things (including technology, standards, cross-sectoral policy and regulatory frameworks, and applications) deployments</li><li>• To provide an understanding of the technologies and the standards relating to the Internet of Things</li><li>• To develop skills on IoT technical planning.</li></ul>
Dates	8-11 July 2017
Duration	Four days
Registration deadline	9 June 2017
Training fees	Free with support from the Faculty of ICT, Ministry of ICT (Islamic Republic of Iran) and the China Academy of ICT (Peoples' Republic of China)

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## LEARNING OUTCOMES

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Upon completion of this training, participants will be able to

- Understand the technology and standards relating to IoTs;
- Understand the critical parts of the ICT ecosystem required to mainstream IoTs;
- Acquire skills on developing their own national and enterprise level technical strategies;

## TARGET POPULATION

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Policy makers, regulators, service providers and academia involved in Internet of Things.

## FACILITATOR/EXPERTS

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The experts for the training include CAICT, Iran, ITU and other invited experts (Details to be available at course webpage).

## EVALUATION

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

Evaluation Parameter	Weightage ( in %)
Quizzes and presentations	60 %
Attendance	10 %
Participation	30 %

The minimum passing requirement for certificate is 60%.

## DRAFT TRAINING SCHEDULE AND CONTENTS / AGENDA

(Updated information will be available at <http://www.itu.int/itu-d/asp>)

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Saturday 8 <sup>th</sup> July (Day-1)	
08:30–09:00	Registration
09:30 – 10:00	OPENING SESSION
10:00–10:45	SESSION 1: Internet of Things (IoT) – An overview of the ecosystem Objective: To develop an overview of the trends, technology, standards and the institutional framework relating to the IoTs at international and national level.
10:45–11:15	COFFEE BREAK
11:15–12:30	SESSION 2: Internet of Things – Policy and regulatory enablers Objective: To understand the policy and regulatory enablers for fostering the deployment of IoTs and machine-to-machine (M2M) within the ICT sector and the need for cross-sectoral collaboration.
12:30–14:00	LUNCH BREAK

14:00–15:00	<b>SESSION 3: IOT technologies, applications and ITU-T standards</b> Objective: To understand the IOT technologies and the standardization activities in the ITU-T
<b>15:00–15:15</b>	<b>COFFEE BREAK</b>
15:15–16:00	<b>SESSION 4: Estimation of spectrum for IOT</b>
16:00–17:15	<b>SESSION 5: Working group exercise</b> Objective: To learn about IoT Strategic planning through a mock exercise.

### Sunday 9<sup>th</sup> July (Day-2)

09:00-10:30	<b>SESSION 6: IOT Technical planning: Network planning, big data and analytics</b> Objective: To understand how enterprises plan for IoT deployment in networks
<b>10:30–11:00</b>	<b>COFFEE BREAK</b>
11:00–12:30	<b>SESSION 7: IOT Technical planning: Network planning, big data and analytics</b> Objective: To understand how enterprises plan for IoT deployment in networks
<b>12:30–14:00</b>	<b>LUNCH BREAK</b>
14:00–15:30	<b>SESSION 8: Working group exercise (continued)</b>
<b>15:30–15:45</b>	<b>COFFEE BREAK</b>
15:45–16:30	<b>SESSION 7: Working group exercise (continued)</b>
16:30-17:00	<b>Quiz 1</b>

### Monday 10<sup>th</sup> July (Day-3)

09:00–10:30	<b>SESSION 8: IOT: Solutions and deployment experiences</b> Objective: To develop an understanding of practical solution and deployment experiences.
<b>10:30–11:00</b>	<b>COFFEE BREAK</b>
11:00-12:30	<b>SESSION 9: IOT and Smart Cities</b> Objective: To provide an understanding of IoTs and Smart Sustainable Cities.
<b>12:30–14:00</b>	<b>LUNCH BREAK</b>
14:00-16:00	<b>SESSION 10: Working group exercise presentation</b>
<b>16:00–16:30</b>	<b>COFFEE BREAK</b>
16:30-17:00	<b>Quiz 2</b>
17:00-17:15	<b>Closing Ceremony</b>

### Tuesday 11<sup>th</sup> July (Day-4)

09:00 – 18:00	<b>FIELD TRIP</b>
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## METHODOLOGY

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The face-to-face programs will include

- Instructor-led presentations,
- Case studies,
- Group exercises

## TRAINING COORDINATION

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**ITU coordinator:**

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## REGISTRATION

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Registration for this program should be made by completing the attached registration form (Annex 2)