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**Annex 1**

**TRAINING OUTLINE**

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| ITU Asia-Pacific Centre of Excellence Programme  **“Wireless Broadband Roadmap Development”**  06-09 August 2016  Tehran, Islamic Republic of Iran |

**COURSE DESCRIPTION**

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| Title | **Wireless Broadband Roadmap Development** |
| Method of delivery | Face-to-face |
| Objectives | * To build knowledge of policy makers, regulators and telecom operators in the areas of wireless broadband ecosystem. * To provide information on wireless broadband policy & regulation, standards and technology. * To build skills on how to develop a roadmap for wireless broadband. |
| Dates | 06 – 09 August 2016 |
| Duration | Four days |
| Registration deadline | 1 July 2016 |
| Training fees | Free with support from Ministry of ICT (Iran) and ALTTC |
| Course code | **16DL17098ASP-E** |

**LEARNING OUTCOMES**

Upon completion of this training, participants will be able to

* Understand what are the key policies, regulations, spectrum, technologies and standards driving wireless broadband.
* Acquire skills for developing wireless broadband roadmap in the country.

**TARGET POPULATION**

Staff from policy makers, regulators, telecom operators, and academia responsible for wireless broadband.

**FACILITATOR/EXPERTS**

The experts for the training include experts invited by ITU, ALTTC and MICT (Iran). The details will be available at the course website.

**EVALUATION**

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

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| 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**](http://www.itu.int/itu-d/asp)**)**

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| DRAFT AGENDA |
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| **06 August 2016 (Day-1)** |

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| 0800-0900 | **REGISTRATION** |
| 0900-1030 | **Opening Session:**  Welcome Address   * ITU * ALTTC   Opening Address   * MICT (I.R. Iran)   Group Photo |
| 1030 – 1115 | **Session 1: Where are we now: Wireless Broadband Ecosystem**  Objective: To provide an overview of wireless broadband ecosystem including drivers, policy, regulations, business, technology others. |
| 1115-1145 | **Coffee Break** |
| 1145 – 1230 | **Session 2:  Wireless Broadband – Technology and Standards**  Objective: To provide an overview of various technologies and standards driving wireless broadband including 3G, 4G and 5G (IMT 2000 and IMT 2020) |
| 1230-14:00 | **LUNCH** |
| 14:00-15:00 | **Session 3: WRC-15 Outcome and update**  Objective: To provide an understanding of WRC-15 outcome and update with special relevance to wireless broadband. |
| 1500-1530 | **Coffee Break** |
| 1530-1700 | **Session 4: Working Group Exercise**  Objective: To develop a national broadband wireless roadmap based on study undertaken by the ITU. |

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| 07 August 2016 (Day-2) |

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| 0930-1030 | **Session 6: Spectrum Planning for Wireless Broadband**  Objective: To recap fundamental technical information about spectrum engineering, spectrum forecasting and spectrum planning. |
| 1030-1100 | COFEE BREAK |
| 1100-1230 | **Session 7: Spectrum forecasting – hands on exercise**  Objective: To understand the technique for forecasting spectrum requirements using a working group exercise. |
| 1230-1400 | LUNCH BREAK |
| 1400-1530 | **Session 8: Wireless Broadband Policy Case Studies**  Objective: To share experiences on wireless broadband. |
| 1530-1600 | COFEE BREAK |
| 1600-1700 | **Session 9: Wireless broadband – Network migration strategies**  Objective: An overview of network migration strategies for wireless broadband services. |
| 1700-1730 | **QUIZ 1** |
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| 08 August 2016 (Day-3) |

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| 0900-1030 | **Session 10: Developing e-application strategies**  Objective: To understand how countries can develop e-application strategies e.g. e-health, e-agriculture, which is critical for wireless broadband demand with case study? |
| 1030-1100 | COFEE BREAK |
| 1100-1230 | **Session 11: Conformance and Interoperability of technologies**  Objective: To look at some of the challenges that relate to conformation and interoperability of networks in broadband environment and how can the challenges be addressed. |
| 1230-1400 | LUNCH BREAK |
| 1400-1530 | **Session 12: Working group exercise: Developing Wireless Broadband Roadmap**  Objective: To develop a wireless broadband roadmap based as part of working group exercise. |
| 1530-1600 | COFEE BREAK |
| 1600-1700 | **Session 13: Working group exercise: Developing Wireless Broadband Roadmap**  Objective: To develop a wireless broadband roadmap based as part of working group exercise |
| 1700-1730 | **QUIZ 2** |
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| 09 August 2016 (Day-4) |

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| 0900-1130 | **Session 14: Wireless Broadband roadmap – Working Group Presentations**  Objective: To present the wireless broadband roadmap developed by working groups in Session 12 and Session 13. |
| 1130-1200 | CLOSING |
| 1200-1300 | LUNCH |
| 1300-1800 | FIELD VISIT |
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**METHODOLOGY**

The face-to-face programs will include

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

**TRAINING COORDINATION**

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| **ITU coordinator:**  Mr. Ashish Narayan,  Program Co-ordinator, ITU Regional Office for Asia & the Pacific, 5th Floor, Thailand Post Training Centre,111Moo3 Chaengwattana Road, Laksi, Bangkok 10210,Thailand  Tel: +66 257 500 55, FAX: +66 257 535 07  Email: [ashish.narayan@itu.int](mailto:ashish.narayan@itu.int)  **Faculty of ICT-Ministry of ICT, I.R. Iran coordinator:**  Mr. Hassan Pashaeizad  Fax: +98 21 44658745  E-mail: [pashaey@gmail.com](mailto:pashaey@gmail.com); [pashaei@ictfaculty.ir](mailto:pashaei@ictfaculty.ir) |

**REGISTRATION**

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