



ITU-CITET Regional Training Workshop on ICT and Climate Change Mitigation and Adaptation in Arab Region

Tunis, Tunisia 12-13 July 2017

ICT & CLIMATE CHANGE TRAINING PROGRAMME (ICT&CCTP)

Presented by:
Eng Mustafa Al Mahdi
ITU Arab Regional Office





ICT& Climate change TRAINING PROGRAMME (ICT& CCTP)

Presentation Outline

- **Problem Statement, Solution and Implementation Process**
- **ICT&CCTP Structure, Composition and Certification Routes**
- **Next Steps**





PROBLEM STATEMENT

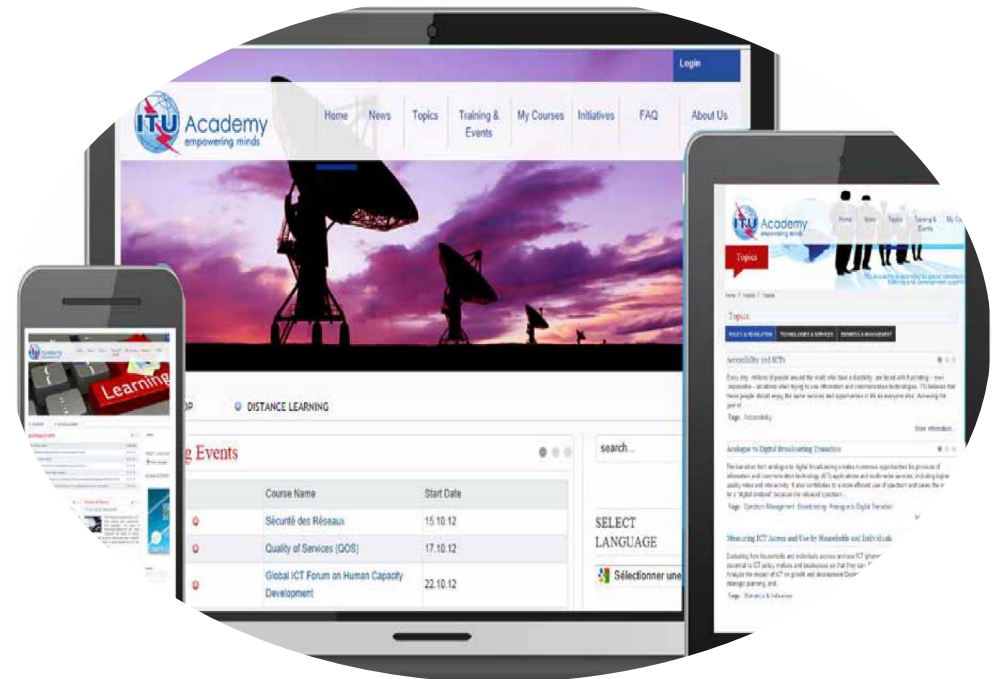
- Recognition of the importance of ICTs in combating climate change is growing ;
- ICT stakeholders play a pivotal role in the response to climate change;
- There is a need to disseminate firm and solid understanding of the role of ICT's in climate change to all stakeholders, such as operators, equipment manufacturers, administrations, regulatory bodies, end-users and their representatives;
- Today there are no formal complete ICT & Climate Change training programmes.





SOLUTION: ICT& CCTP

- ITU developed a standardized training programme in ICT & Climate Change (ICT&CCTP)
- ICT&CCTP is the third in a series of high-level training programmes developed under the auspices of the ITU Academy





SOLUTION: ICT & CCTP

Objective

To develop a full set of high-level training materials prepared by high caliber subject-matter experts, designed for anyone either a beginner or a specialist, which will:

- Provide ITU membership with capacity building solutions in all areas of ICT & Climate Change;
- Offer access to ICT & Climate Change training and forward-looking professional vision;
- Provide possibility for different certification options;
- Provide international recognition, with possible options of university credits/diploma





IMPLEMENTATION PROCESS

1. Collaboration of efforts between ITU-T and ITU-D (task force to coordinate development process)
2. Identification of subject-matter experts within the global ICT& Climate Change community
3. Conceptualization and development of the programme scope
4. Preparation of high-level training materials by experts;
5. Quality Assurance Process (peer-review); and Editing;
6. Establishment of partnership with universities and other partner institutions/centers in order to deliver the ICT&CCTP and provide accreditation/certification





IMPLEMENTATION PROCESS



Quality Assurance

Course Coordinator

- Consistency across modules
- Module linkages
- Elimination of overlaps
- Guidelines and Frameworks to standardize material

Peer review

- Several review rounds through the course development process
- Conducted by minimum 2 top experts in the field per module
- Ensures that materials are technically up to date and of the highest standard

Editorial Review

- Standardization of language and terminology ensuring conformance to the rules, policies, procedures and instruments of the ITU.



ICT&CCTP: STRUCTURE

6 Foundation Modules

- OM0: Overview Module
- FM1: Introduction to ICT & Climate Change
- FM2: Roles of stakeholders in ICT and Climate Change
- FM3: Developing ICT Service Provider Strategies
- FM4: Assessing the Impact of ICT on Climate Change
- FM5: Applying Green ICT Strategies
- FM6: E-waste and the Circular Economy





ICT&CTP: STRUCTURE

15 Elective Modules

☐ EM1:

- Elective Module 1.1: Climate Modelling
- Elective Module 1.2: The role of Satellite & Radio Communication in Environmental Modelling
- Elective Module 1.3: Global/Regional Frameworks for GHG Emissions Reduction

☐ EM2:

- Elective Module 2.1: Policy Makers & Regulators
- Elective Module 2.2: TSPs and IT Service Providers

☐ EM3:

- Elective Module 3.1: Telecom Service Provider (TSP) Strategies
- Elective Module 3.2: IT Service Provider Strategies (including Cloud Services)
- Elective Module 3.3: Adaptation for Infrastructure Providers





ICT&CCTP: STRUCTURE

□ EM4:

- Elective Module 4.1: How to carry out a full LCA
- Elective Module 4.2: How to measure the Carbon Footprints of Sectors, Countries and Regions

□ EM5:

- Elective Module 5.1: Improving the Energy Efficiency of ICT Products and Services
- Elective Module 5.2: GHG reductions in the Power Sector
- Elective Module 5.3: Decarbonising Transport
- Elective Module 5.4: Smart & Sustainable Cities

□ EM6:

- Elective Module 6: The End-of-Life Stage in Life Cycle Assessment





ICT&CTP: COMPOSITION

Each Module Consists of:

Syllabus card and
an abstract

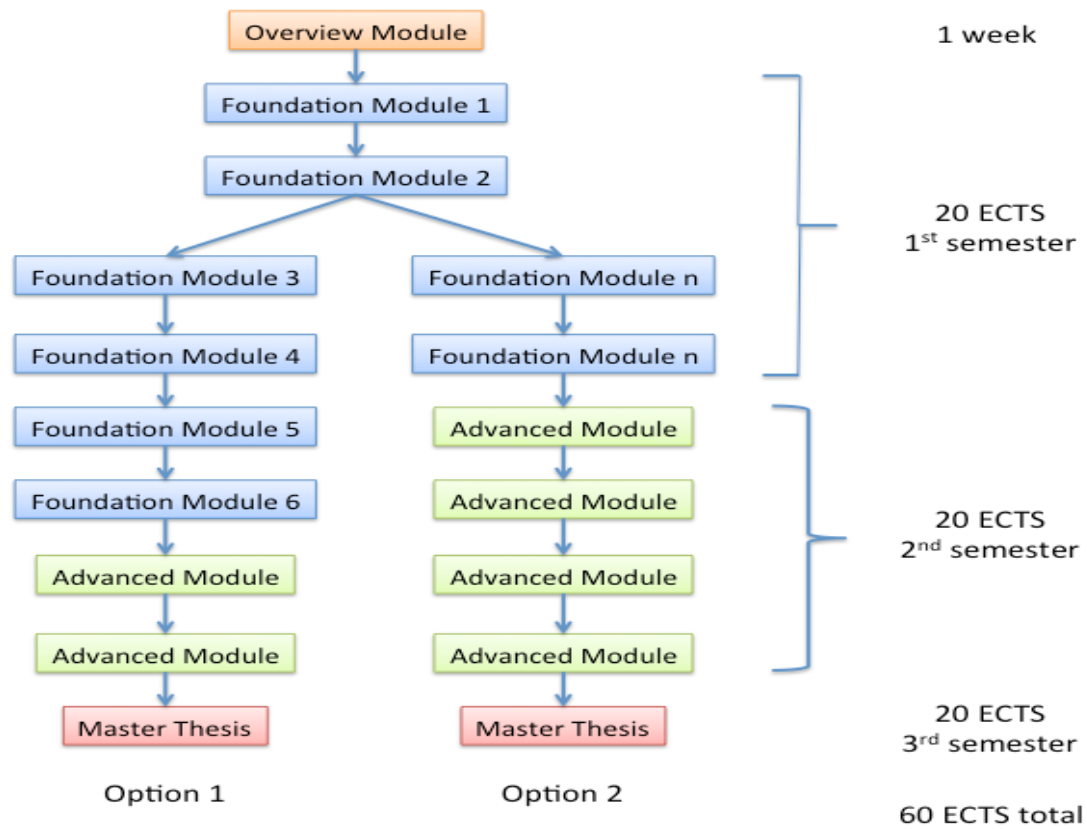
An average of 400
PPT slides to cover
4-5 weeks of
lecture

Tasks for practical
exercises (where
applicable)

Exam questions
and answers for
testing (50-100
questions)



ICT&CTP Certification Routes





Next Steps

- Editorial Review
- Conduct pilot training
- Engage training providers for partnerships in the delivery of the training
- Convert material to multimedia





QUESTIONS?

For more information please contact

hcbmail@itu.int

or visit

<http://academy.itu.int>

