

ITU ACADEMY

ITU Arab Regional Office

Committed to connecting the world



OUTLINE

- ITU Academy
- Development of training under the ITU Academy
- Spectrum Management Training Programme
- Quality of Service Training Programme
- Conclusions



ITU Academy: Official Launch

**Global ICT Forum on Human Capacity Development
October 2012, Cape Town, South Africa**



THE VISION

The ITU Academy aims to become **the leading supplier** and the **repository of reference materials** for all training and professional development programmes relating to the ICT sector





Provide single visibility on all ITU-D
capacity building activities

THE CONCEPT



- The ITU Academy has been established as the lead agent for all ITU human capacity-building activities
- ITU Academy responds to demands for knowledge and skills in ICT training, teaching and research.
- ITU Academy offers a wide and growing range of general and specialized courses on all aspects of telecommunications.

TARGET AUDIENCE

Principally, the programmes serve a varied audience:

- Policy-makers
- Telecommunications/ICT business managers and practitioners
- Government officials from Ministries of ICT and regulatory authorities
- Diplomats and representatives
- Students and teachers of telecommunications/ICT
- Civil Society





Content repository
Delivery of training
Development of training

ITU-D

ITU-T

ITU-R

ITU Member States and Sector Members



PORTAL FUNCTIONALITIES

- The cornerstone of the ITU Academy portal is the delivery of capacity-building related training and educational opportunities.
- In order to adequately deliver these training interventions, the portal utilizes:
 - ✓ Learning Management System (LMS – **Moodle**), and
 - ✓ Content Management System (CMS – **Joomla**).



MOODLE and JOOMLA together

The LMS Moodle and CMS Joomla work together to facilitate an enhanced learning environment which allows for:

- **Distance Learning** (i.e., eLearning) modules,
- knowledge transfer regarding **face-to-face** training offerings (through the provision of presentations from workshops, summary reports of proceedings, etc.),
- multiple language postings, social networking and collaboration tools.



ITU Academy - Training & Events

Training & Events

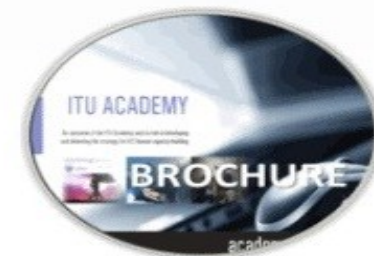
[UPCOMING TRAINING & EVENTS](#)
[WORKSHOP](#)
[DISTANCE LEARNING](#)
[PAST TRAINING & EVENTS](#)

Code	Title	Region	Country	Start Date
14WS13341AFE-E	Wireless Networking for Developing World(WNDW)	AFR	Kenya	27.10.14
14WS13346AFE-E	ICT Application Products and Services	AFR	South Africa	21.10.14
14WS13353AFR-F	Atelier de formation sur les communications par satellites pour les pays d'Afrique	AFR	Togo	08.09.14
14WS13802AFE-E	Workshop on satellites communication	AFR	Rwanda (Republic of)	01.09.14
14DL13347AFE-E	Broadband Ecosystem	AFR	South Africa	04.08.14
14WS13837ASP-E	Strategic Costing and Quad Play Planning	ASP	Thailand	28.07.14
14DL13786AMS-S	IPTV-OTT: fundamentos y panorama actual	MUL	ITU Academy	21.07.14
14WS13820ARB-E	Fundamentals of Cloud Computing	ARB	Morocco	16.07.14
14WS13652AFR-E	IPV6	AFR	Rwanda (Republic of)	14.07.14
14WS13836ASP-E	IPV6 Infrastructure Security (2014)	ASP	Thailand	30.06.14

SELECT LANGUAGE

Select Language ▼

HIGHLIGHTS



MULTIPLE DELIVERY CHANNELS



Self-paced learning

High-quality on-line content

Learning discussion forums or groups

Trainer-led lectures or reading materials

Online attainment testing (e.g., quizzes)

Web-based reading materials (e.g., in .pdf)

ITU CENTRES OF EXCELLENCE AND ITU ACADEMY

A network of over 32 training Centres of Excellence operating across 8 global regions.

- They provide advanced-level technical and managerial programmes.

The benefits of ITU training delivery through Centres of Excellence include:

- Tutor-led courses via the ITU Academy;
- Access to ITU Academy training materials;
- ITU Academy as a medium for capacity-building of managers and engineers, but also other with interdisciplinary interests in telecommunications/ICT

DEVELOPMENT OF STANDARDISED TRAINING MATERIALS UNDER THE ITU ACADEMY

- Spectrum Management Training Programme (SMTP)
- Quality of Service Training Programme (QoSSTP)

ITU SPECTRUM MANAGEMENT TRAINING PROGRAMME (SMTP)

ADDRESSED PROBLEM

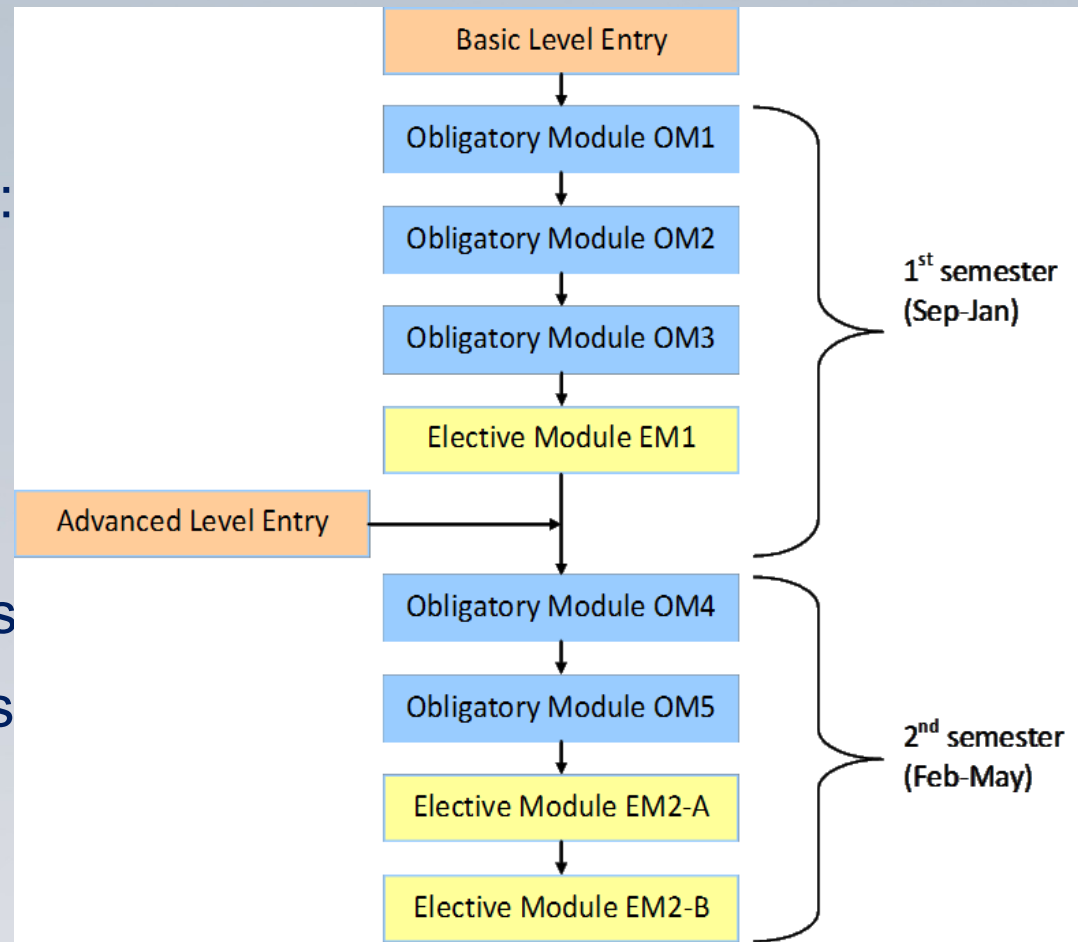
- Need for (SM) requires well educated professionals in Spectrum Management;
- No formal complete SM education programmes;
- Spectrum managers must also have a clear understanding of legal and economic issues;
- Large institutions train SM staff by seconding them to experienced workers, but this offers narrowed vision and no formal quality check. This is not possible in smaller institutions.

PROGRAMME DURATION

- 4-5 weeks module duration
- All modules can be completed in no more than 1 year
- Approximately 125 hours per module, 40 hours of classroom training

SMTTP STRUCTURE

- Two entry levels
- Specialisation possibility:
 - Technical
 - Legal/economic
- Accordingly structured set of obligatory modules and specialised electives



COMPOSITION OF THE PROGRAMME

BASIC LEVEL

Obligatory Modules (OM):

- **OM1** “Legal Basis and Regulatory Framework of SM”
- **OM2** “Spectrum Engineering Fundamentals”
- **OM3** “Wireless Telecommunications Technologies”

Elective Module 1 (EM 1) includes 6 options:

- **EM1-1** “Spectrum Monitoring”
- **EM1-2** “Enforcement and Type Approval of Equipment”
- **EM1-3** “SM for Satellite Systems”
- **EM1-4** “SM for HF Systems, Science, Maritime and Amateur Services”
- **EM1-5** “SM for Aeronautical and Radio Determination Services and Military Systems”
- **EM1-6** “Computer-aided Spectrum Management”

COMPOSITION OF THE PROGRAMME

ADVANCED LEVEL

Obligatory Modules (OM):

- **OM4** “Economic and Market Tools of Spectrum Management”
- **OM5** “Strategic Planning and Policies for Wireless Innovation”

Elective Module 2 (EM2):

Legal Specialization:

- **EM 2-1** “Advanced Spectrum Authorization Regimes”
- **EM 2-2** “Socio-Economic Impact of Spectrum Regulation; Competition and Consumer Protection”

Technical Specialization:

- **EM 2-3** “Terrestrial TV Broadcasting Planning and Digital Transition”
- **EM 2-4** “Opportunistic Spectrum Access and Cognitive Radio”

QUALITY OF SERVICE TRAINING PROGRAMME (QoSTP)

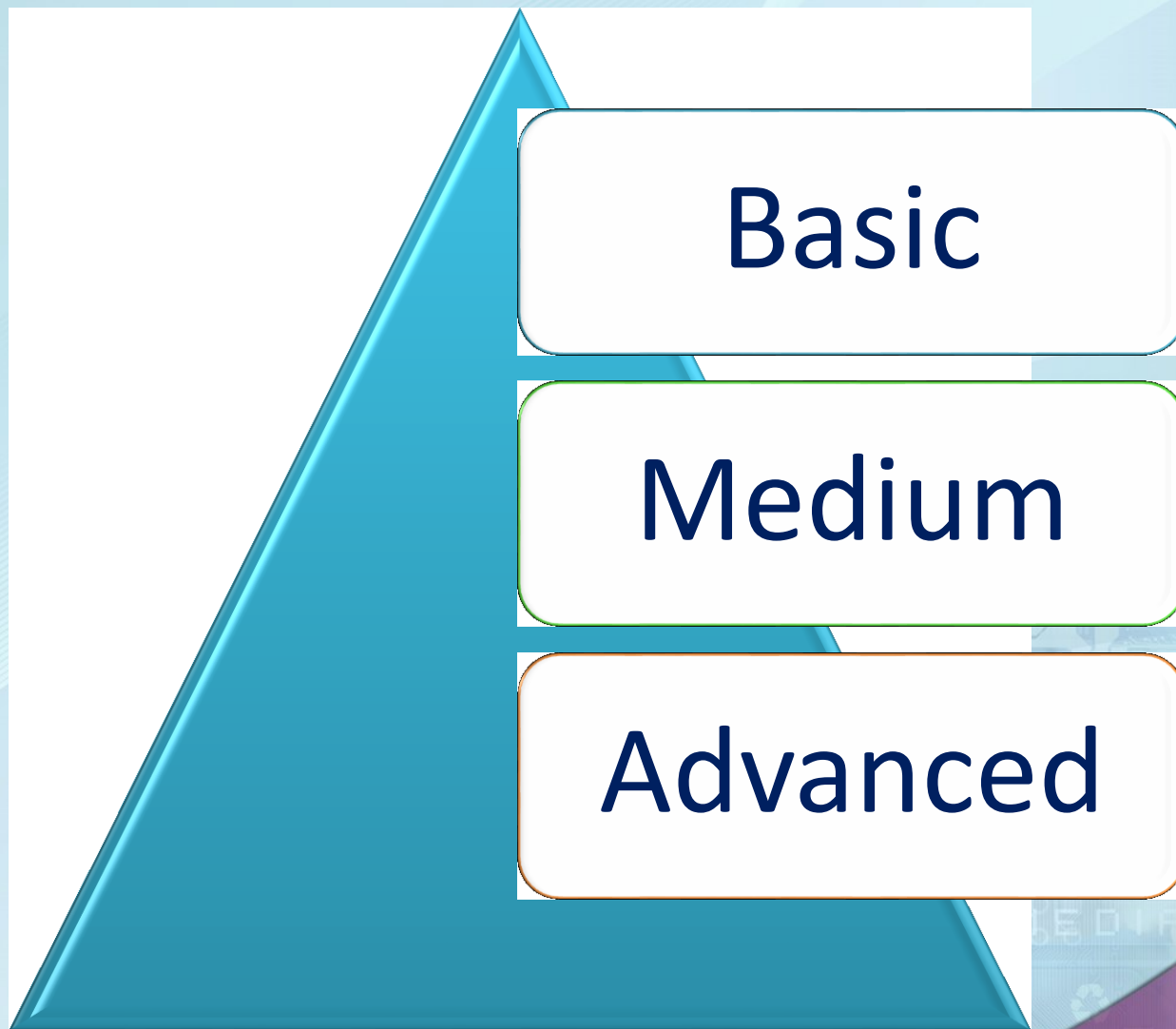
PROBLEM STATEMENT

- QoS is increasingly becoming an important Regulatory issue;
- It is closely linked to the issue of consumer rights and consumer protection;
- There is an need to disseminate firm and solid QoS understanding for all stakeholders, such as operators, equipment manufacturers, administrations, regulatory bodies, end-users and their representatives;
- Availability of service is no longer a primary issue;
- Today there are no formal complete QoS training programmes.

PROGRAMME ORGANIZATION:

- 4 Obligatory Modules
- 3 Elective Modules
- 2 options per each Elective Module
- Assessment questions
- Laboratory & practical Exercises and Demonstrations (Depending on Selected Delivery Option)

QoS_{STP} ORGANIZATION: LEVELS



PROPOSED ORGANIZATION OF MODULES

The definition of the modules and their organization into study tracks based on the required specialization and level (basic, medium or advanced) of immersion is proposed below. Obligatory modules (OM) contain essential and overview knowledge relevant to the given study track, while elective modules (EM) are options designed to deepen the student's knowledge in specific areas of QoS.

The QoS modules are as follows:

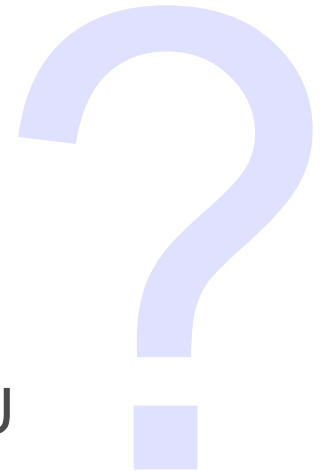
OM1:	Introduction - QoS and quality of experience (QoE)	EM1:	EM1.1: Telephony
OM2:	Subjective assessment of voice quality	EM1:	EM1.2: Network performance and operation, administration and maintenance (OAM) for performance measurement
OM3:	Objective assessment of voice quality	EM2:	EM2.1: Hands-free communication and user interfaces in vehicles
OM4:	QoS and QoE for multimedia and assessment methods	EM2:	EM2.2: Traffic management
		EM3:	EM3.1: QoS for mobile services
		EM3:	EM3.2: Bit-rate measurement of Internet connections

ITU Academy...



What's next...

What's next...

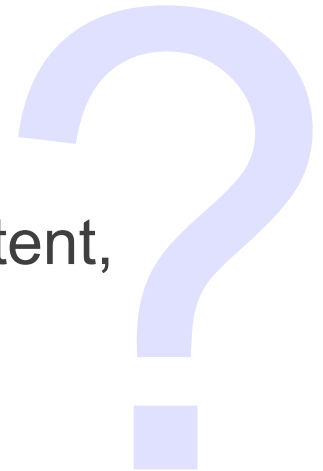


Enhancing the capabilities of the ITU Academy

- Upgrading the main applications used on the ITU Academy (Joomla, Moodle, Joomla)
- Implementation of the new features, new functionalities and introduction of semi-automated quality assurance processes
- The database migration from the old platform to the new one

What else?...

- Aggregating & tagging resources, uploading content, courseware, training & events
- Strengthening partnerships with policy makers, regulators, industry and academia to develop high quality learning/training resources
- Multi-media high quality e-learning content



CONCLUSION

- The ITU Academy is more than just about training
- It is a platform for sharing all capacity building activities within the Union
- It is about creating partnerships for capacity building
- It is about creating seamless opportunities for learning
- It is about preparing people for a knowledge society.

What is the ITU Academy?

What looks small...



...can be big and powerful

THANK YOU!

<http://academy.itu.int>

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