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# ITU Spectrum Management Training Program (SMTP)

# Addressed problem

- Efficient running of Spectrum Management (SM) requires well educated professionals;
- Today there are no formal holistic 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.

# The solution: Smtp

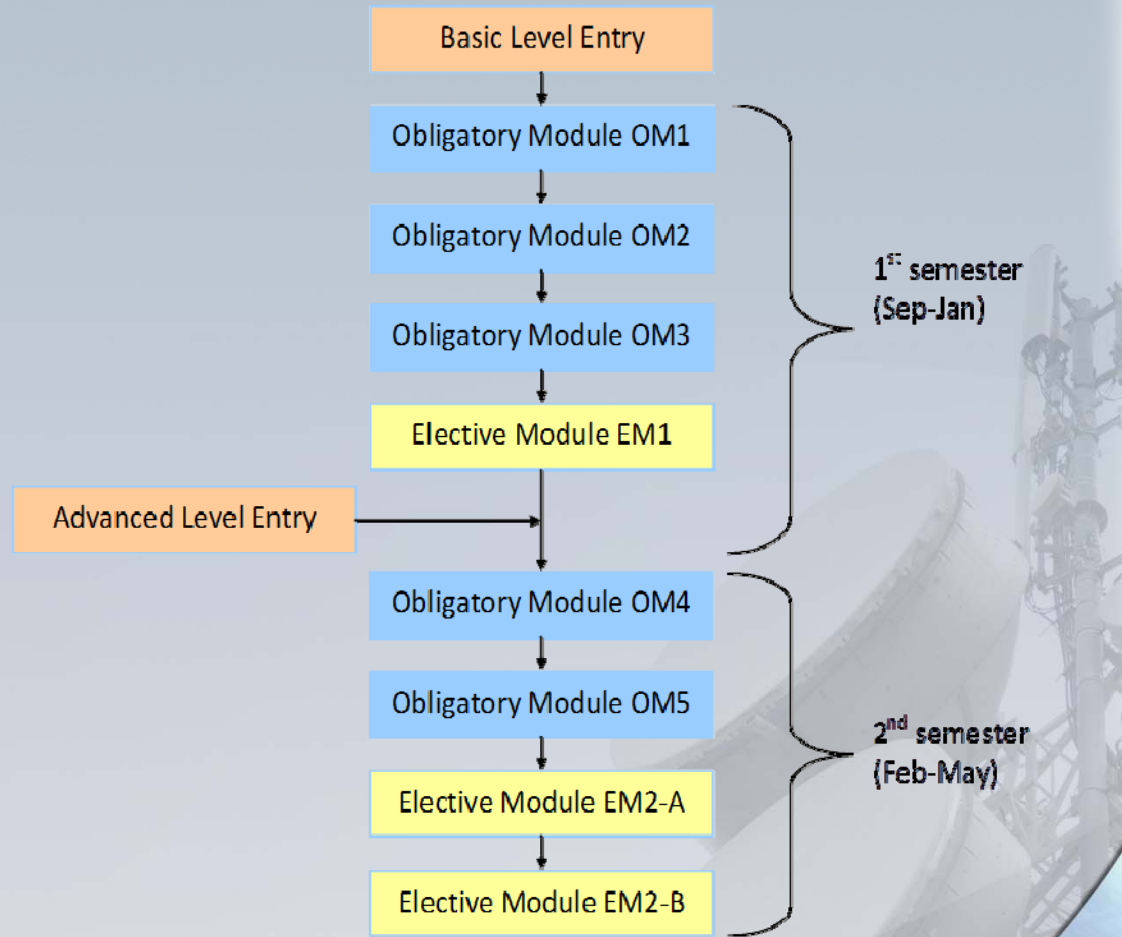
- First in a series of ITU training programmes
- It offers access to SM training and forward-looking professional vision
- Full set of high level materials prepared by high caliber subject-matter experts
- Materials sanitized through Quality Assurance Mechanism
- Designed for anyone either a beginner or a specialist
- Provision of certain level of knowledge
- Different certification options
- International recognition, with possible option of university credits/diploma

# Programme objectives

- Provide ITU membership with capacity building solutions in SM
- Provide access to the latest learning tools
- Build human and institutional capacity by designing and making available high quality training materials

# The vision

- 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):

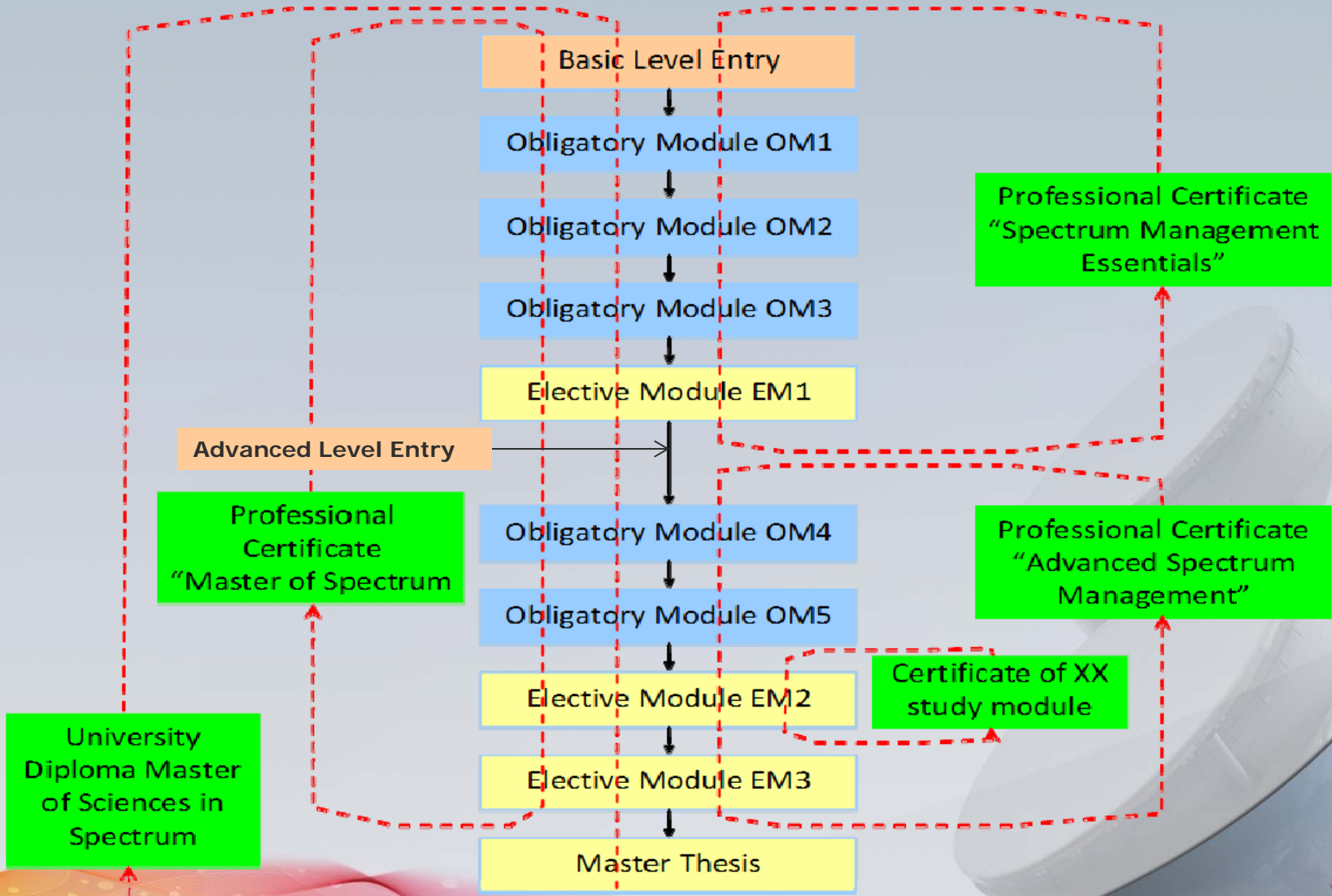
#### *Legal Specialization:*

- **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”

# Flexible certification routes





# Conclusions

- The SMTP is a first high quality training solution in the domain of SM
- SMTP will be a part of the ITU Academy library
- SMTP will help to bridge the SM gap and will provide necessary tools and skills

<http://academy.itu.int/news/item/1077/>

- Pilot test: end of 2014

<https://academy.itu.int/news/item/1593/>

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# *Thank you!*

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*Committed to connecting the world*