ITU SPECTRUM MANAGEMENT TRAINING PROGRAMME (SMTP)

An HCB Presentation presented by:

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- **Addressed Problem, Solution and Development Process**

- **SMTP Structure, Composition and Certification Routes**

- **Delivery Options**

- **Pilot Test**

- **Next Steps**

Addressed problem

- No formal holistic SM education programmes;

- Current training in SM achieved through secondments in large administrations;

- Small administrations who cannot use secondments are not able to train.

The Solution

The ITU establishes the **SMTP**:

Access to state-of-the-art holistic SM training and forward-looking professional vision;

Formalized assessment;

Certification to give international recognition, with possible option of university credits/diploma.

SMTP

SPECTRUM MANAGEMENT TRAINING PROGRAMME

AN ITU ACADEMY INITIATIVE

http://academy.itu.int

DEVELOPMENT PROCESS

- In-depth review of subject area and development of a scope

- Development of individual modules by subject matter experts

- Peer-review of materials

- Editing of the training modules

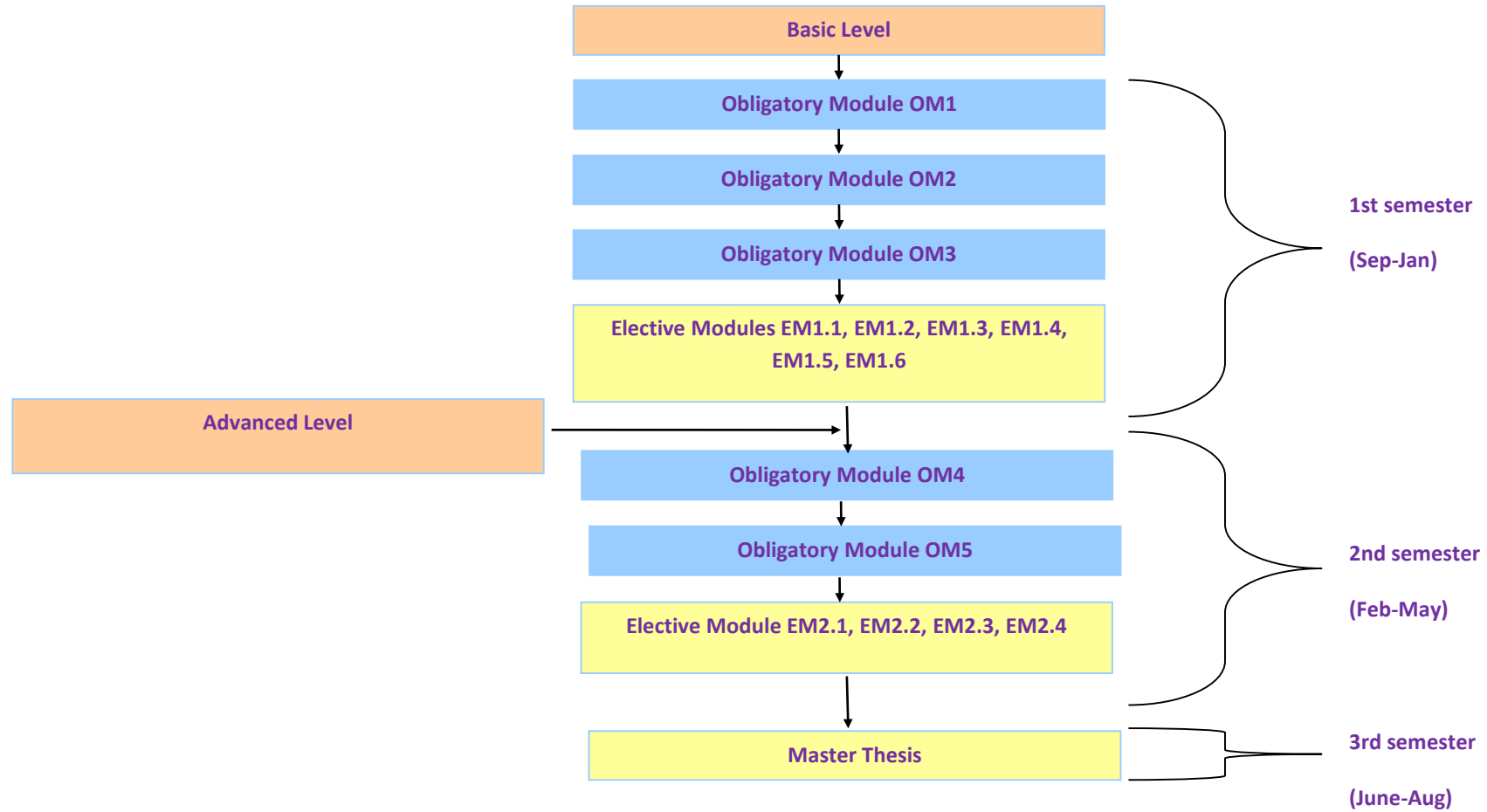- Delivery of the training programme

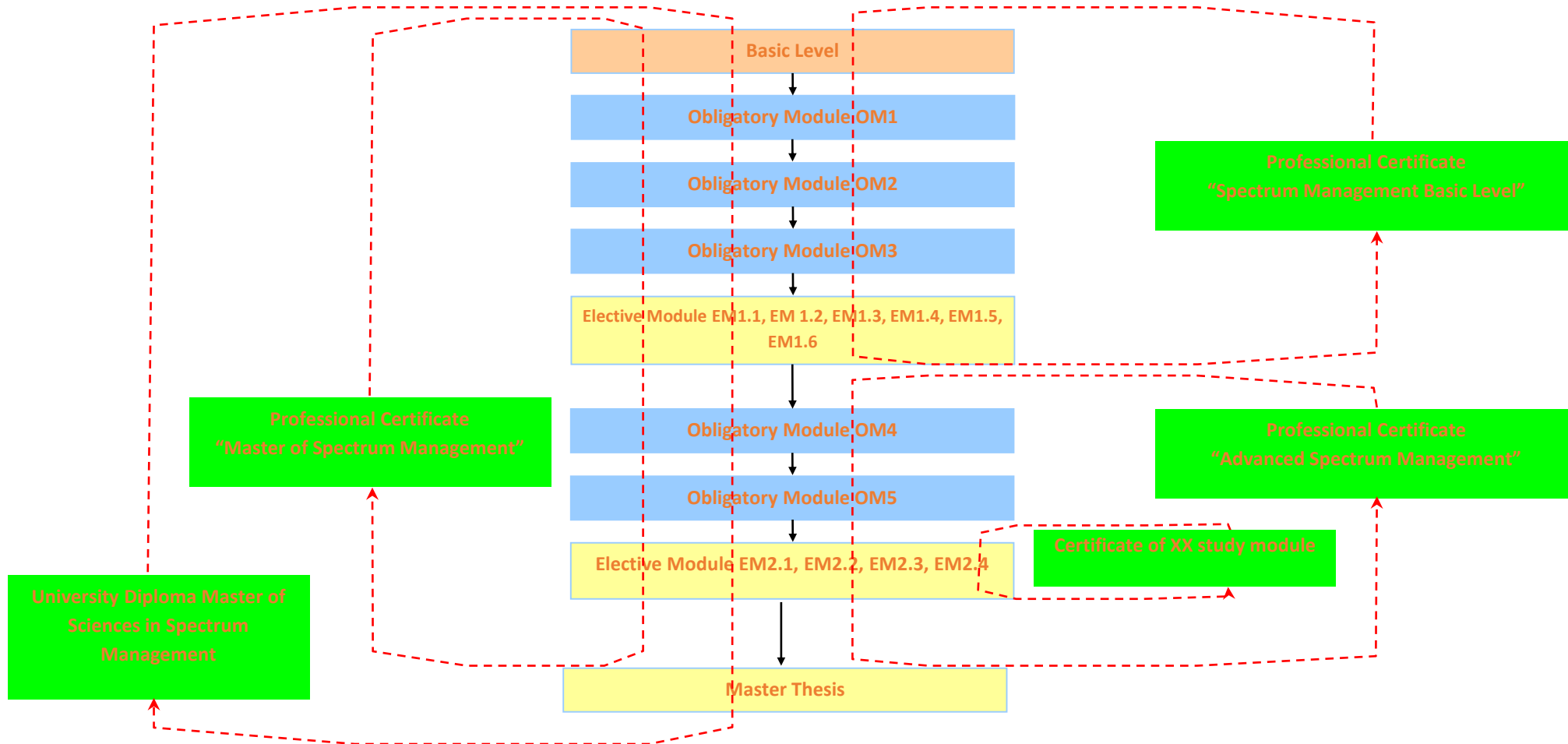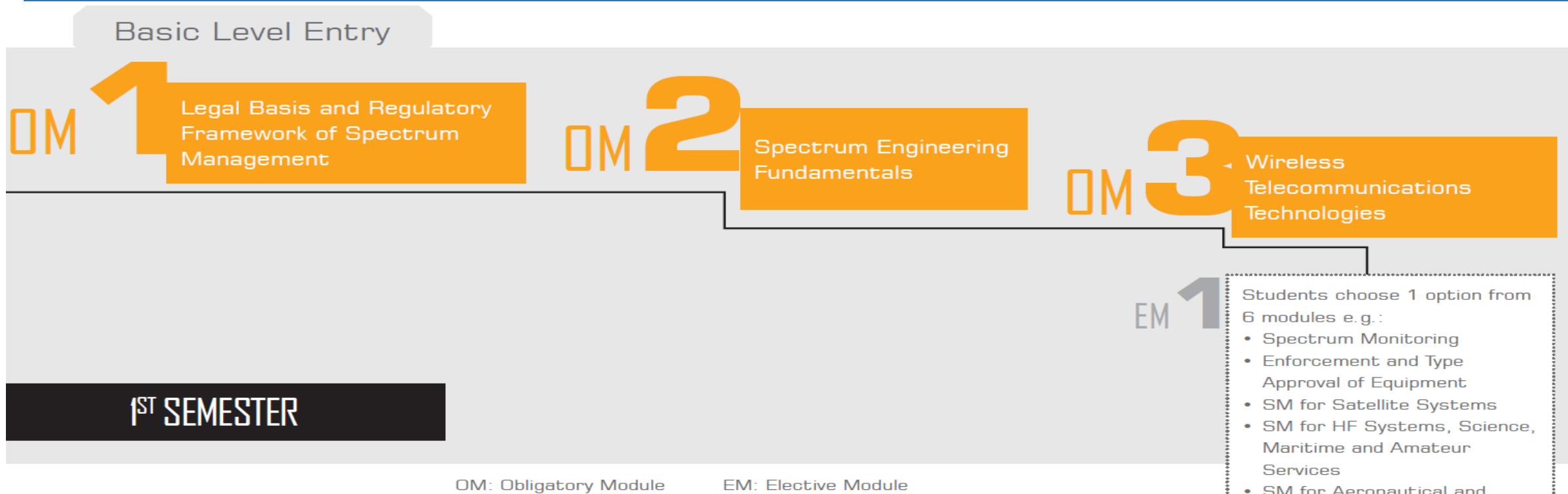**Figure 1. Proposed composition and duration of the SMTP**

CERTIFICATION ROUTES

Figure 2. Possible derivative options for university or professional, full or partial certification levels

COMPOSITION OF THE PROGRAMME

Basic Level Entry

OM **1** Legal Basis and Regulatory Framework of Spectrum Management

OM **2** Spectrum Engineering Fundamentals

OM **3** Wireless Telecommunications Technologies

EM **1**

Students choose 1 option from 6 modules e.g.:
- Spectrum Monitoring
- Enforcement and Type Approval of Equipment
- SM for Satellite Systems
- SM for HF Systems, Science, Maritime and Amateur Services
- SM for Aeronautical and Radio Determination Services and Military Systems
- Computer-aided Spectrum Management

More options might be offered in the future

1ˢᵀ SEMESTER

OM: Obligatory Module   EM: Elective Module

OUTLINE OF THE SMTP

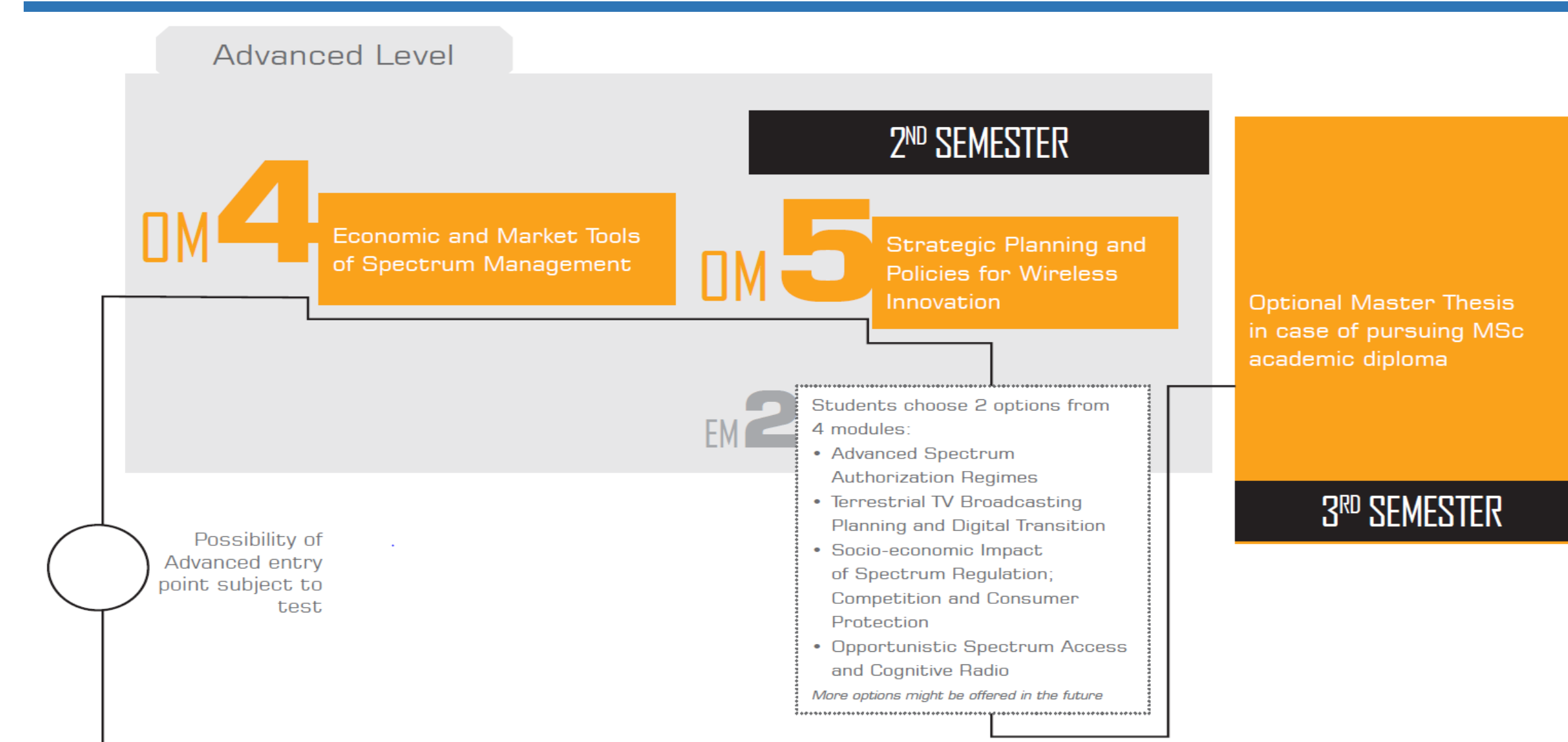*The figure illustrates the proposed outline and modular structure of the SMTP, with tentative subject indication.*

COMPOSITION OF THE PROGRAMME

Advanced Level

OM **4** Economic and Market Tools of Spectrum Management

2ND SEMESTER

OM **5** Strategic Planning and Policies for Wireless Innovation

EM **2**

Students choose 2 options from 4 modules:
- Advanced Spectrum Authorization Regimes
- Terrestrial TV Broadcasting Planning and Digital Transition
- Socio-economic Impact of Spectrum Regulation; Competition and Consumer Protection
- Opportunistic Spectrum Access and Cognitive Radio

More options might be offered in the future

Optional Master Thesis in case of pursuing MSc academic diploma

3RD SEMESTER

Possibility of Advanced entry point subject to test

PROGRAMME DURATION

GUIDELINES FOR TEACHERS:

Power Point slides to fill 30 hours of lecturing per module

20 slides per lecture with a total of 600 slides per module

10 hours of tasks for practical exercises / lab (where applicable) per module

Exam questions for testing (50-100 questions)

GUIDELINES FOR STUDENTS:

125 hours per module, 40 hours of classroom training

4-5 weeks – module duration

All modules can be completed in no more than 1 year

60-90 European Credit Transfer and accumulation System (ECTS) credits for the whole SMTP

Combination of face-to-face sessions, remote teaching and self-studies
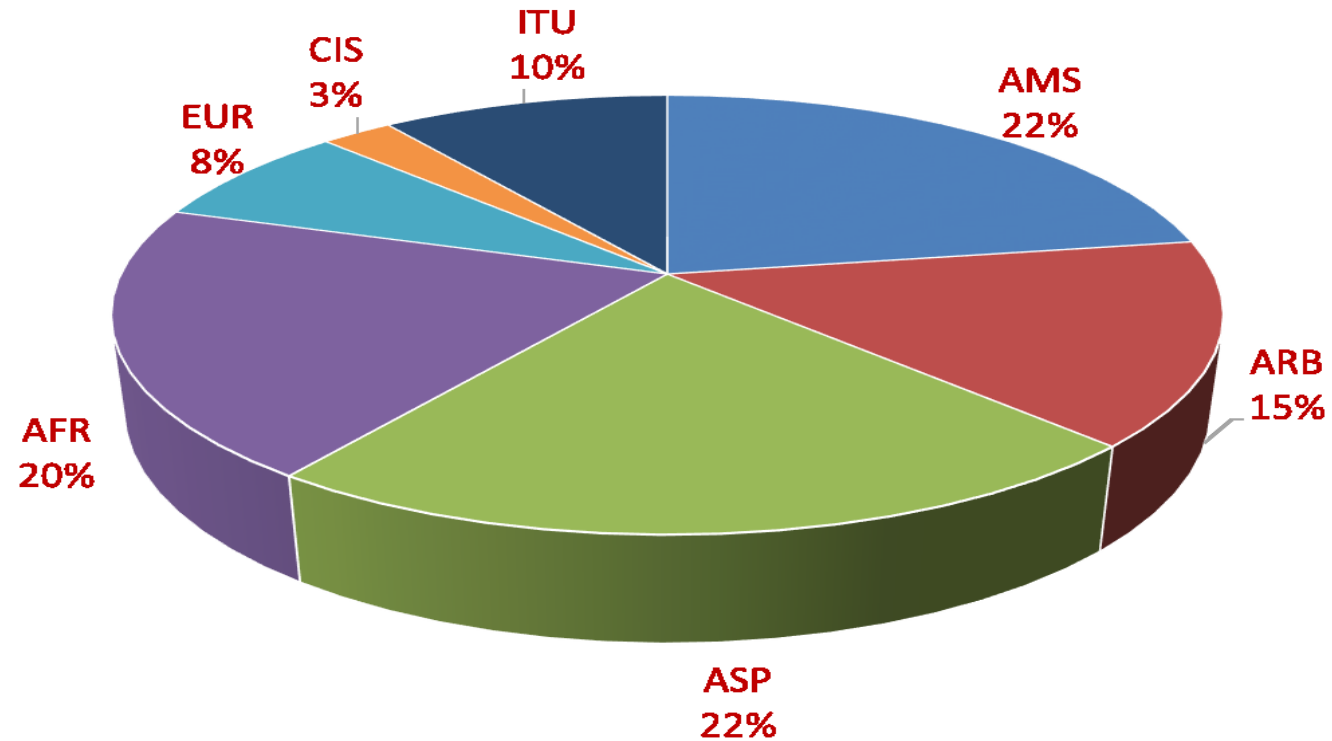
Formal assessment at the end of each module

PILOT TEST

SMTP Pilot Training conducted (OM1)

- 40 participants from across the world attended the training
- Pilot was completed with 70% pass rate

Regional distribution of participants

DELIVERY OPTIONS

SMTP

QUALITY CoEs GUARANTEED

ITU CENTRES
OF EXCELLENCE

OR

UNIVERSITY

ACADEMIA

+

ITU ACADEMY
academy.itu.int

ITU ACADEMY

MEMBER STATES AND SECTOR MEMBERS
(OPERATORS, REGULATORS AND POLICYMAKERS)

STUDENTS

DELIVERY PARTNERS

- Czech Technical University
- AFRALTI

Expression of Interest
- Strathmore University in partnership with AFRALTI in Kenya
- ICESI University in Colombia
- COMTELCA (regional body of regulators, Central America)

NEXT STEPS

1. Conversion of the training materials to multimedia

2. Continuing discussions with private sector and academic institutions for SMTP delivery options

3. Translation of the SMTP to other UN languages

THANK YOU

SPMTP Promotional Video

For more information please contact

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or visit

https://academy.itu.int/