International Telecommunication Union
Arab Regional Office (ARB)

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‒ Administrations and Regulators in the Arab Region
‒ ITU-D Sector Members in the Arab Region
‒ Associates in the Arab Region
‒ Academia Institutions in the Arab Region
‒ Regional and International Organizations concerned in the Arab Region
‒ Arab Regional chairs and vice chairs of the Advisory Groups and Study Groups

Subject: **ITU Centres of Excellence Face-to-Face Training Course on "Optical Transport Networks: DWDM"**

Dear Madam/Sir,

I am pleased to invite your organization to participate in the <u>F2F training course</u> on **"Optical Transport Networks: DWDM",** organized jointly by the International Telecommunication Union (ITU) and the Smart Tunisian Technoparks (S2T), **from 14 to 18 November 2022 in Tunis-Tunisia**, as part of the Broadband & Wireless Networks program under the auspices of the ITU Centres of Excellence for Arab region. The training will be delivered in French only with no interpretation.

This training aims to focus on the best practices and methodology in optical network design, including customer requirements analysis, physical and logical topology, the placement of amplifiers and dispersion compensation components and evaluation of system performance and different key topics related to this field.

By the end of this training, participants should be able to have:

- Describe the function module and network structure of WDM system.
- Characterize the typical building blocks of a WDM network (amplifier, DCM, OADM, OXC, transponder).
- Illustrate the main factors involved in WDM network planning, such as power budget, dispersion compensation, OSNR calculation and nonlinearity.
- Outline the design process of WDM network.

This training course targets network engineers, network designers, and network planning personnel needing to learn the fundamental principles and practices for designing a basic optical network. Other institutions and individuals who are interested in building their capacity in designing a basic optical network.

Detailed information on this training course is described in the course outline, which can be downloaded from the ITU Academy portal at the following link (Click here)[1]. Registration and Payment should be made online at the aforementioned link no later than **11 November 2022**. Payment instructions details are also available on the same link.

Should you require any further information, Mr. Ahmed El Raghy, Senior Advisor, at ITU Arab Regional Office, E-mail: (ahmed.elraghy@itu.int) and Mrs. Houda Jarraya, Focal point at S2T, (houda.jarraya@gmail.com; houda.jarraya@s2t.tn) are at your full disposal.

Looking forward to your active participation in this training course.

Yours faithfully,

[Original signed]

Adel M. Darwish
Regional Director
Arab Regional Office

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[1] https://academy.itu.int/training-courses/full-catalogue/optical-transport-networks-dwdm