

**Course Title: Summer Training**

**Duration: 4 weeks (20 Days)**

## **Contents:**

### **1- Exchanges ( 6 days Theoretical / Practical )**

- a. Overview EWSD + PCM
- b. CCS7 – Protocol
- c. Features
- d. Access Integrator & HIX
- e. HIE 9200
- f. HIG 1200 / 1600

### **2- Transmission ( 7 days Theoretical / Practical )**

- a. Why SDH Network?
- b. Overview about SDH Principles
- c. Structure of the synchronous digital hierarchy (SDH)
- d. OVERVIEW OF INTERNATIONAL TRANSMISSION SMW3
- e. From STM-1 how to obtain STM-16 & STM-64
- f. WDM TRANSMISSION EQUIPMENT
- g. HOW TO DETECT THE FAULT LOCATIONS?

- h. HOW TO CREATE THE E1'S AND STM-1 ON THE MANAGEMENT SUPERVISION FOR ALCATEL AND SIEMENS?
- i. VISIT O&M TRANSMISSION MANAGEMENT CENTER
- j. OVERVIEW OF INTERNATIONAL TRANSMISSION FLAG-VPOP
- k. OVERVIEW OF INTERNATIONAL TRANSMISSION SMW4
- l. A BRIEF EXPLANATION ON OTDR APPLICATIONS

### **3- Satellite Communications ( 7 days Theoretical / Practical )**

- a. Satellite Communication
- b. Earth Station Technology
- c. Digital Communication  
(IDR – DCME – LRE – DTV)
- d. VSAT  
( Topology & Application )