







VSAT

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I- Transmission

1		Principles of optical fibers	
2		Principles of optical fibers (intensive)	
2 3 4 5		Principles of digital telecommunications (Basic)	
4		Preparation of optical fiber cables for splicing	
5		Principles of synchronous digital hierarchy (SDH)	
6		SDH system SMA units operation, maintenance and	
		management	
7		Measuring and locating faults in optical fiber cables	
8		Principles of digital telecommunications (Advanced)	
9		Link systems between exchanges	
10		Pulse code modulation (PCM)	
11		Optical fiber technology	
12		Operation and maintenance of microwave equipment.	
13		SDH microwave joints	
14		Synchronous digital hierarchy (SDH) equipments	
15		Synchronous digital hierarchy (SDH)	
16		Terminal equipments of optical fibers (M90)	
17		Microwave equipments	
18		Digital microwave principles	
19		Operation and maintenance of alcatel SDH equipment	
20		Principles of digital telecommunication	
21		Preparation and splicing of optical fiber cables	
22		Splices of optical fiber cables	
23		Basic course for telecommunication engineers	
24		Test of the printed circuits electronic components	
25		Basic course for telecommunication engineers	
26		SDH (SL16-SL64) equipments	
27		Radio communication principles	
28		PCM (FMX) equipments	
29		Fault location of optical fiber cables using mini OTDR	
	e	equipments	
30		Splices of optical fiber cables	





II- Networks

1	Underground cable fault location using DYNATEL 957 set
2	Frame connections & maintenance
3	Cabinet connections
4	WLL network installations
5	Acceptance, operation & maintenance tests for WLL
	network
6	Cable laying from equipment room to frame
7	Subscriber telephone installation
8	Underground cable fault location
9	Jelly-filled cables splicing
10	Alcatel telephone set maintenance
11	Overhead line maintenance
12	Subscriber line maintenance (Fault centers)
13	Subscriber line maintenance (Fault centers- intensive)
14	Installation, operation & maintenance of modern Japanese
	FX-4100 payphone set
15	Maintenance of modern telephone sets
16	Coin box periodic maintenance
17	Principles of digital line concentrators (MX4)
18	Subscriber telephone installations (Field course)
19	Installation, operation & maintenance of PLURIMA 4
••	Italian payphone set
20	Cable connections & optical telecommunication techniques
21	Switching test rooms
22	ISDN units & terminal equipment connections
23	Telephone network planning
24	Cable fault location using DYNATEL 865 set
25	Underground cable fault location sets
26	Underground cable fault location using modern sets
27	(intensive)
27	Digital pair gain system





III-Switching

1	Operation & maintenance of the ONU1000 system
	(intensive course)
2	Principles of CCS7 system
3	Knowledge step program
4	Principles of 5ESS exchanges operation
5	Infrastructure & value-added telecommunication services
	for customer sales
6	Microprocessor equipments
7	EWSD exchanges node commander
8	Subscribing new subscribers in the service using (Cilmage)
	program
9	Integrated services digital network (ISDN)
10	Operation & maintenance of OCB 283 exchange
11	An introduction to EWSD exchanges
12	Ways of earth fault protection
13	Operation & maintenance of ACE10 subscribers stage
14	Intelligent network
15	Using computers in dealing with new subscribers operating
	particulars
16	Digital telecommunications principles (Advanced)
17	Link methods between exchanges
18	Principles of electrical engineering for personnel working
	at fault centers
19	Logic circuits
20	Principles of OCB283 exchanges
21	Data network services
22	Net manager center
23	ISDN services
24	EWSD exchanges operation & maintenance (advanced
	course)
25	TELIC exchanges operation & maintenance (private
	exchanges)
26	5ESS exchange traffic analysis





27	VER.11EWSD operation & maintenance
28	Principles of digital exchanges
29	EWSD exchanges operation & maintenance
30	Fault alarms of EWSD exchanges equipment
31	An introduction to digital exchanges systems
32	X.25 protocol operation & maintenance
33	Link signal No. 7
34	Principles of NEAX 61-E exchanges
35	Data networks execution & maintenance
36	Operation of protocol analyzer equipment
37	
	maintenance (1 st level)
38	Basic course for German exchanges operation &
3-36 6	maintenance (2 nd level)
39	German exchanges power node
40	AXE10 electronic exchange GSS (Group Switch Stage)
	operation & maintenance
41	Exchange Air Conditioning
42	Maintenance & Elimination of Diesel Faults for Exchange







