

SCHEDULE OF 'BSNL CERTIFIED OPTICAL FIBRE COMMUNICATION ENGINEER' COURSE

Date	Session	Particulars
Week - 1		
Week-1 Day-1	1 st Session	Registration, Introduction to RTTC and the Course briefing
	2 nd Sessions	Fundamentals of Communications
	3 rd Session	Fundamentals of Optical fibre Communications
Week-1 Day-2	1 st Session	Construction and types of O.F Cables
	2 nd Sessions	OF Components like pig tail, Patch cord, FDF
	3 rd Session	Practical - Cable identification, colour coding, connectors, attenuators, FDF etc.
Week-1 Day-3	1 st Session	Route planning and cable laying
	2 nd Sessions	Optical sources and detectors
	3 rd Session	Practical - OF cable preparation and splicing
Week-1 Day-4	1 st Session	OTDR and Testing instruments
	2 nd Sessions	Non linearities in OF cable and ITU-T Rec. of OF Cables
	3 rd Session	Practical – OF Cable preparation, Pig tail preparation and splicing
Week-1 Day-5	1 st Session	Practical - Ribbon splicing & OTDR and Testing instruments
	2 nd Sessions	Practical - Ribbon splicing & OTDR and Testing instruments
	3 rd Session	Practical - Ribbon splicing & OTDR and Testing instruments
Week - 2		
Week-2 Day-1	1 st Session	Criterion Test-1 on OFC
	2 nd Sessions	PCM Principles
	3 rd Session	Line coding
Week-2 Day-2	1 st Session	FOTS, different PDH standards and Frame structures of 8,34 & 140 Mb systems
	2 nd Sessions	FOTS, different PDH standards and Frame structures of 8,34 & 140 Mb systems
	3 rd Session	8 Mb PDH Systems
Week-2 Day-3	1 st Session	34 Mb & 140 Mb PDH Systems
	2 nd Sessions	Practical - 8/34/140 Mb PDH Systems
	3 rd Session	Practical - 8/34/140 Mb PDH System performance analysis
Week-2 Day-4	1 st Session	Mastery test on OFC & PDH
	2 nd Sessions	Mastery test on OFC & PDH
	3 rd Session	Introduction to SDH
Week-2 Day-5	1 st Session	SDH Network Elements, Topology and protection
	2 nd Sessions	SDH Mapping and Multiplexing
	3 rd Session	SDH Mapping and Multiplexing

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Date	Session	Particulars
Week - 3		
Week-3 Day-1	1 st Session	Criterion Test-2 on PDH
	2 nd Sessions	SDH alarms & Synchronization
	3 rd Session	ITI FIBCOM SDH Equipment (AC 1 & AC 4 Family)
Week-3 Day-2	1 st Session	SDH Optical interfaces & LASER safety
	2 nd Sessions	Introduction to NGSDH
	3 rd Session	Practical – ITI FIBCOM STM-1 Equipment
Week-3 Day-3	1 st Session	TEJAS STM-4 & STM-16 SDH Systems
	2 nd Sessions	TEJAS STM-4 & STM-16 SDH Systems
	3 rd Session	Practical – TEJAS STM-4 Equipment
Week-3 Day-4	1 st Session	SDH Measurements and Testing of SDH equipments
	2 nd Sessions	SDH Measurements and Testing of SDH equipments
	3 rd Session	Practical – TEJAS STM-4 Equipment
Week-3 Day-5	1 st Session	DWDM – An Overview
	2 nd Sessions	DWDM System (32 Channel ITI System)
	3 rd Session	Practical – TEJAS STM-16 Equipment
Week - 4		
Week-4 Day-1	1 st Session	Criterion Test 3 on SDH
	2 nd Sessions	Practical – TEJAS STM-16 Equipment
	3 rd Session	Practical – DWDM System (32 Channel ITI System)
Week-4 Day-2	1 st Session	Optical Fibre access network (FTTH)
	2 nd Sessions	GPON & AOLT
	3 rd Session	Practical – Mastery Test 2 on SDH
Week-4 Day-3	1 st Session	Field Visit – SDH Systems
	2 nd Sessions	Field Visit – SDH Systems
	3 rd Session	Field Visit – SDH Systems
Week-4 Day-4	1 st Session	Field Visit – DWDM Systems
	2 nd Sessions	Field Visit – DWDM Systems
	3 rd Session	Field Visit – DWDM Systems
Week-4 Day-5	1 st Session	Field Visit – AOLT (GPON) Systems
	2 nd Sessions	Field Visit – AOLT (GPON) Systems
	3 rd Session	Discussion and Evaluation Session

Timings

Daily (For 5 days)	Time	Particulars	Time	Particulars
	09-30 to 11.00	1 st Session	11.00 to 11.15	Tea Break
	11.30 to 12.45	2 nd Session	12.45 to 13.45	Lunch Break
	13.45 to 15.15	3 rd Session		