

Bharat Sanchar Nigam Limited Regional Telecom Training Centre



(ISO 9001:2008 Certified Institution), Gachibowli, Hyderabad –500 032

SCHEDULE OF 'BSNL CERTIFIED OPTICAL FIBRE COMMUNICATION ENGINEER' COURSE

Date	Session	Particulars		
Week-1 Day-1	1st 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	1st 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	1st 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	1st 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	1st Session	Practical - Ribbon splicing & OTDR and Testing instruments		
	2 nd Sessions	Practical - Ribbon splicing & OTDR and Testing instruments		
Duy 0	3 rd Session	Practical - Ribbon splicing & OTDR and Testing instruments		
	1st Session	Criterion Test-1 on OFC		
Week-2 Day-1	2 nd Sessions	PCM Principles		
Duy-1	3 rd Session	Line coding		
	1st Session	FOTS, different PDH standards and Frame structures of 8,34 & 140 Mb systems		
Week-2	2 nd Sessions	FOTS, different PDH standards and Frame structures of 8,34 & 140 Mb systems		
Day-2	3 rd Session	8 Mb PDH Systems		
Week-2 Day-3	1st 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		
	1st Session	Mastery test on OFC & PDH		
Week-2 Day-4	2 nd Sessions	Mastery test on OFC & PDH		
	3 rd Session	Introduction to SDH		
Week-2 Day-5	1st Session	SDH Network Elements, Topology and protection		
	2 nd Sessions	SDH Mapping and Multiplexing		
	3 rd Session	SDH Mapping and Multiplexing		

Date	Session	Particulars Particulars		
Week-3 Day-1	1st 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	1st 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	1st 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	1st Session	SDH Measurements and Testing of SDH equipments		
	2 nd Sessions	SDH Measurements and Testing of SDH equipments		
Duy-4	3 rd Session	Practical – TEJAS STM-4 Equipment		
	1st Session	DWDM – An Overview		
Week-3 Day-5	2 nd Sessions	DWDM System (32 Channel ITI System)		
Day-5	3 rd Session	Practical – TEJAS STM-16 Equipment		
		•		
	1st Session	Criterion Test 3 on SDH		
Week-4 Day-1	2 nd Sessions	Practical – TEJAS STM-16 Equipment		
Day-1	3 rd Session	Practical – DWDM System (32 Channel ITI System)		
	1st Session	Optical Fibre access network (FTTH)		
Week-4 Day-2	2 nd Sessions	GPON & AOLT		
Duy-2	3 rd Session	Practical – Mastery Test 2 on SDH		
	1st Session	Field Visit – SDH Systems		
Week-4 Day-3	2 nd Sessions	Field Visit – SDH Systems		
Duy-0	3 rd Session	Field Visit – SDH Systems		
	1st Session	Field Visit – DWDM Systems		
Week-4 Day-4	2 nd Sessions	Field Visit – DWDM Systems		
	3 rd Session	Field Visit – DWDM Systems		
Week-4 Day-5	1st Session	Field Visit – AOLT (GPON) Systems		
	2 nd Sessions	Field Visit – AOLT (GPON) Systems		
	3 rd Session	Discussion and Evaluation Session		

Timings

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