

SCHEDULE OF "BSNL CERTIFIED GSM MOBILE RF ENGINEER" COURSE

Week	Day	Session	Particulars	
1st Week	Day-1	1 st Session	Registration & Course Briefing	
		2 nd Session	Introduction to Telecom Networks	
		3 rd Session	Principles of Mobile Communication	
	Day-2	1 st Session	GSM Radio Concept	
		2 nd Session	GSM Cellular Concept	
		3 rd Session	Modulation Techniques	
	Day-3	1 st Session	GSM Network Architecture -Radio Network	
		2 nd Session	GSM Network Architecture -Switching Network	
		3 rd Session	GSM Practical- GSM Architecture arrangement	
	Day-4	1 st Session	GSM RF channels	
		2 nd Session	CCS7 Signalling & Interfaces	
		3 rd Session	Radio Resource Management	
	Day-5	1 st Session	GSM Mobility Management	
		2 nd Session	Call Processing in GSM networks	
		3 rd Session	Exam-1	
2nd Week	Day-1	1 st Session	Discussion on Practice Exercise-1	
		2 nd Session	Nortel BTS Hardware & Comparison with Huawei / Motorola	
		3 rd Session	Practicals on Nortel BTS	
	Day-2	1 st Session	Nortel BSC & TCU hardware features	
		2 nd Session	Practicals on BSC, TCU	
		3 rd Session	Installation of a BTS site (Including Alarms, Software Loading)	
	Day-3	1 st Session	Practicals on Infrastructure & Installation	
		2 nd Session	Overview of OMC_R	
		3 rd Session	Creation of BTS in OMC-R & Analysis of Reports	
	Day-4	1 st Session	RF Planning Overview - Site Survey / Selection, Link Budget	
		2 nd Session	Detailed RF Planning - Frequency / Capacity / Coverage / F	
		3 rd Session	RF Planning - Case Study	
	Day-5	1, 2 & 3 Sessions	RF Planning Tool-Hands On	
	3rd Week	Day-1	1 st Session	Exam & Discussion on Practice Exercise-2
			2 nd Session	GPRS, EDGE & 3G Concepts
3 rd Session			Call and Mobility in GPRS/EDGE	
Day-2		1 st Session	CDMA Concept	
		2 nd Session	CDMA Technologies	
		3 rd Session	Planning a CDMA Network	
Day-3		1 st Session	WCDMA Concept	
		2 nd Session	WCDMA Network Architecture	
		3 rd Session	WCDMA UTRAN Features	
Day-4		1 st Session	WCDMA Channels	
		2 nd Session	Power Control & Hand Over	

	3 rd Session	Protocols & Call Handling in 3G
Day-5	1 st Session	3G-Huawei Node-B Hardware
	2 & 3 Sessions	3G-Huawei Node-B Practicals
Day-1	1 st Session	3G-Huawei RNC Features
	2 & 3 Sessions	Field Visit to RNC
Day-2	1 st Session	Exam & Discussion on Practice Exercise-3
	2 nd Session	RF Optimization Overview - What, Why, How & Parameters
4th Week	3 rd Session	Practical Issues / Challenges of RF Optimization & Drive tes
Day-3	1, 2 & 3 Sessions	Description of AGILANT Drive Test Tool & Pst Processing Tool
Day-4	1, 2 & 3 Sessions	Practical Demo on RF Drive test tool & Post Processing too
Day-5	1 & 2 Sessions	Final Examination
	3 rd Session	Course Evaluation

5th Week

Field Assignment

Time	Particulars
10-00 to 11.30	1st Session
11.45 to 13.15	2nd Session
14.15 to 15.45	3rd Session

Time	Particulars
11.30 to 11.45	Tea Break
13.15 to 14.15	Lunch Break
15.45 to 16.00	Tea Break