



Manipal University Jaipur
School of Electrical, Electronics & Communication (SEEC) Engineering
Department of Electronics & Communication Engineering

COMMUNICATION LAB

Lab and Lab Equipment Details

Name of the Laboratory	COMMUNICATION LAB
Lab Descriptions	This lab provides an overview of the basic Communication based experiments where students would learn how transmitter and receiver system works. The student would have an opportunity to make projects sample as well.
Lab Resources	<ol style="list-style-type: none"> 1. SCIENTECH CDMA TRAINER, ST 2115 2. RIGOL 50 MHz TWO CHANNEL DSO DIGITAL STORAGE OSCILLOSCOPE, 1052 E 3. SCIENTECH DIFFERENTIAL PULSE CODE MODULATION/DEMODULATION TRAINER ST 2113 4. CADDO 5MHz WITH 40 MHz FREQ COUNTER CADDO 4063 A 5. SCIENTECH ISDN TRAINING SYSTEM/B-LINK 4 SIMULATOR 6. SCIENTECH MSK MODULATION /DEMODULATION TRAINER, ST 2116 7. SCIENTECH 16 QAM MODULATION TRAINER, ST 2136 8. SCIENTECH 16 QAM/DQAM MODULATION TRAINER, ST2136 9. RIGOL 1.5 GHz SPECTRUM ANALYZER WITH TRACKING GENERATOR, DSA 815 10. RIGOL -2GHz SPECTRUM ANALYZER, DSA 1020 11. CADDO 30MHz OSCILLOSCOPE, 803 12. APLAB DIGITAL MULTIMETER 3(3/4) DIGIT, VC 97 13. SCIENTECH DSB/SSB AM TRANSMITTER, 2201 14. SCIENTECH DSB/SSB AM RECEIVER, 2202 15. SCIENTECH PCM, DPCM, CVSD MODULATOR & DEMODULATOR, 2802 16. SCIENTECH ASK, FSK, BPSK, DBPSK MODULATOR & DEMODULATOR, 2807 17. SCIENTECH DIGITAL STORAGE OSCILLOSCOPE 70 MHz, 1GS/s, 2.5K RECORD LENGTH 2 CHANNEL, COLOUR DISPLAY, 402 18. SCIENTECH OPTICAL FIBER COMMUNICATION, 2502 19. SCIENTECH OPTICAL POWER METER, 2551 20. SCIENTECH LASER FIBER OPTIC TRAINER TRANSMITTER, 2506 21. SCIENTECH LASER FIBER OPTIC TRAINER RECEIVER, 2506 22. NVIS LED RADIATION PATTERN TRAINER, NV 6014 23. SCIENTECH FREQUENCY MODULATION & DEMODULATION TRAINER, 2203 24. SCIENTECH DIGITAL STORAGE OSCILLOSCOPE 100 MHz, 1GSa/s, 2.5K RECORD LENGTH 2 CHANNEL, COLOUR DISPLAY, 403 25. 1GSa/s, 2.5K RECORD LENGTH 2 CHANNEL, COLOUR DISPLAY, 403

	26. SCIENTECH TRANSMISSION LINE TRAINER, 2266
	27. SALICON ANTENNA TRAINER, ST 8261
	28. CADDO LCR METER (RANGE 100 Hz to 1 KHz), NB 9302
	29. MICROWAVE BENCH (KLYSTRON BASED) - X BAND FREQUENCY
	30. MICROWAVE BENCH (GUNN BASED) - X BAND FREQUENCY
	31. MICROWAVE BENCH (HORN ANTENNA BASED) - X BAND FREQUENCY
	32. REQUIRED MICROWAVE COMPONENTS - X BAND FREQUENCY
	33. HP COMPUTER SYSTEM (Intel core i3-2120, 4 GB RAM)
	34. AMITEC SOFTWARE DEFINED RADIO SDR-04, 0.4 - 4 GHz
	35. LENOVO COMPUTERS (Intel core i5-7400, 3.8 GB RAM & One PC with 16 GB RAM)
	36. X-BAND MICROWAVE POWER METER
	37. RFL-AMS-A, ADVANCED 4 GHz MOTORIZED ANTENNA TRAINER SYSTEM
	38. CST Studio Suite Research Base Pack 2021 (Software)
	39. Wireless InSite (Software)