



Department of Electronics & Telecommunication Engineering

List of Resources 2019-20

Digital Electronics Lab

Sr. No.	Name of Equipment with Specification	Qty
1	Universal IC Tester	1
2	Digital Trainer Kit 20 Pin 6 Zip Socket	6
3	Digital Trainer Kit 20 Pin 6 Zip Socket	20
4	Dual power Supply -30V -3A	2
5	Function generator (10MHz)	2
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Basic Electronics Lab

Sr. No.	Name of Equipment with Specification	Qty
1	Cathode Ray Oscilloscope (30 MHz)	5
2	Digital Trainer Kits	7
3	Digital Multimeter	5
4	D.C. power Supply (Dual) (0-30 Volts)Adriot	4
5	Function Generator(2MHz)	3
6	PCB Prtotype Machine -Nvis 72-	1
7	Tina Design Suit Design Suit (with PCB Design)	1
8	PTH for Double sided-Electroplating System	1
		27

Electronics Circuit Lab

Sr. No.	Name of Equipment with Specification	Qty
1	Cathode Ray Oscilloscope (30 MHz)	5
2	Digital Trainer Kits Hi-tech	7
3	Digital Multimeter Prashant	5
4	D.C. power Supply (Dual)(0-30 Volts	4
5	RF.Function Generator(R.F.) (150 MHz)	2
6	Function Generator(2MHz)	3



7	Digital Storage Oscilloscope 100MHz Tektronics	10
8	Universal IC Tester	1
9	DSO Logsun(Gwinstek)	2
10	Function Generator 10 Mhz	7
11	Digital Multimeter	5
12	Dual Power Supply 0-30 V,2A	5
13	Function generator (10MHz)-Scientech	3
14	Frequency Counter-1.6GHz	1
15	Power Kits V. I Char. of SCR (with inbuilt Power Supply)	2
16	V.I Char. Of MOSFET(with inbuilt Power Supply)	1
17	VI char. of IGBT(with in built Power supply)	1
18	Triggre Ckt. Of SCR(usingUJT or IC-785)	2
19	Single Phase Full Converter with R&RL load	2
20	Single Phase PWM Bridge inverter for R Load	2
21	Step Down DC Chopper using Power MOSFET/IGBT	2
22	Load & Line Regulation of given SMPS	2
23	Single Phase AC. Controller using SCR for R Load	2
24	Speed Control of DC Motor/ Stepper	2
		80

Advance Communication Lab /Optical Communication Lab

Sr. No.	Name of Equipment with Specification	Qty
1	Adaptive Delta Modulation & Demodulation Trainer Kits	2
2	Data Conditioning & Carrier Modulation Tx	2
3	Delta Modulation Demodulation System	2
4	Frequency Modulation Demodulation Trainer	2



5	RF Spectrum Analyzer 9KHz-3GHz	1
6	Fiber Optic Training System	3
7	Optical Power Meter Detector	1
8	Optical Time Domain Reflectometer	1
9	Optical Detector Characteristics	1
10	Electrical & Optical Characteristics of different light sources	1
11	1300nm LED Characteristics kit & 1300nm Optical Power Meter	1
12	TVE Set	7
13	Sampling Theorem Kit	1
14	PCM with uniform Quantization Kit	1
15	PCM with non uniform Quantization(A& μ law) Kit	1
16	Detection of digital baseband signal using matched filter in presence of noise kit	1
17	Generation & detection of DS-SS BPSK Kit	1
18	Generation & reception of FSK Kit	1
19	Generation & reception of QPSK Kit	1
20	Generation & reception of BPSK Kit	1
21	Function Generator	2
22	Dual Power Supply 0-30v,2Amp	2
23	Sampling Theorem	1
24	PCM with uniform Quantization Kit	1
25	PCM with non uniform Quantization(A& μ law) Kit	1
26	Generation & reception of BPSK	1
27	Generation & of reception QPSK Kit	1
28	Digital Base Band Signal	1
29	Generation & of reception DS-SS-BPSK	1
30	Generation & reception of FSK	1
31	Line Codes	1
32	8 Bit PN Sequence	1



33	Delta Modulation	1
34	Adeptive Delta modulation	1
35	CRO -30MHz(Scintech)	4
36	Dual power Supply 30v-3A	4
37	Function generator (10MHz)	5
38	Arbitrary Waveform Generator	1
39	Mixed Signal Oscilloscope	1
40	True RMs Meter Programmable 4-1/2	1
41	Study of Mobile Phone Trainer	1
42	PISTN Switch Configuration(TST)	1
43	Study of CDMA Trainer	1
44	VOIP Trainer Kit	1
45	3G Mobile trainer Kit	1
46	Satellite communication Trainer	1
47	CDMA –DSS	1
48	GSM Trainer	1
49	Sound Level Meter/SPL Meter	1
50	LED Television(2651A)	1
51	DVD/CD player 2662A	1
52	DTH System (2664)	1
53	Function generator 10 Mhz with frequency Counter 40Mhz	2
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Microwave & Measurement Lab

Sr. no	Name of Equipment with Specification	Qty
1	Antenna Training Lab (5MHz2GHz) With Coaxial Sloted Lines	1
2	Antenna System Analyzer 850-1300MHz	1
3	6 ^{1/2} digit multimeter	2
4	(Analog KIT)Class C single tuned ampr	2



5	Ampt .modu with envelope detector	2
6	AM. Transmitter	2
7	Freq.modu DE-modu(FM)	2
8	FM.using Vricap Diode	2
9	FM. Transmitter	2
10	Standard Test on super heterodyne	2
11	DSB Modu&Demodu	2
12	SSB modu&Demodu	2
13	Signal Sampling&reconstruction	2
14	Anteena Training syatem 5 MHz to 2000MHz	2
15	CRO-30MHz-(Scientech)	4
16	Dual power Supply (30v-3A-(Hi-tech)	4
17	Function generator(10MHz) (Hi-tech)	5
Microwave Kit & its accessories		
18	Klystron digital power supply	1
19	Klystron mount	1
20	Klysrron tube	1
21	Ioslator	2
22	Frequency meter direct reading	2
23	Variable Attenuator	2
24	Detector mount	2
25	Wave guide Strands	6
26	VSWR Meter solid state	2
27	Slotted Section	6
28	Tunable probes	2
29	Moveable Short	2
30	Fixed Short	1
31	Matched termination	1
32	Circulator	2
33	Cooling fan	1



34	Gunn power supply-digital MIT-GS	1
35	Gunn Oscillator	1
36	PIN Modulator	1
37	Directional coupler	1
38	E-Plane tee	1
39	H-Plane tee	1
40	E-H-Plane/Magic tee/Hybrid tee	1
41	Microstrip integrated ckt Trainer	1
		1
42	Patch cord	500
43	Speed control Of DC Motor-(E &TC)	
44	Servo Motor D.C. Position Control System -- (E&TC)	2
45	Study Application Data AcquisitionSystem -- (E&TC)	
46	SS03 IR Sensor --(E&TC)	1
47	SS09 Gas Sensor --(E&TC)	1
48	SS10 Alchol Sensor --(E&TC)	1
49	SS11 PIR Sensor --(E&TC)	1
50	SS12 Humidity Sensor --(E&TC)	1
51	SS13 Magnatic Sensor --(E&TC)	1
52	SS32 Fire Sensor --(E&TC)	1
53	SS39 Heart Rate Sensor --(E&TC)	1
54	SS53 Galvanic Skin Response --(E&TC)	1
55	SS64 Current Sensor --(E&TC)	1
56	Arduino Basic Starter Kit UNO R3 Miniwith Programming USB cable Breadboard LED Jumper Wire Button For Arduin	5
57	Coaxial cables with BNC to SMA connecter 2 meter(consumable)	4
58	Raspberry Pi 3 complete kit with accessories	1



Project Lab

Sr. No.	Name of Equipment with Specification	Qty
1	Laser Printer(1007)	1
2	Laser Printer(1007)	1
3	Dot matrix printer LX300DM-II	2
4	Lenevo Computer	10
5	UV Exposer/Irin UV exposer machine	1
6	HM-10 BLE 4.0 Bluetooth CC2540 CC2541 Serial Wireless Module With Reset Button(consumable)	5
7	ADXL335 Triple Axis Accelerometer GY-61 Analog Sensor for Arduino & Other MCU(consumable)	5
8	SDM Soldering station ESD930 Digital auto cut,60 W	1
9	GPS Module (Ublox, Neo 6M) (KIT)	5
10	XBee® and XBee-PRO® ZB ZigBee RF modules utilizing the ZigBee PRO Feature Set(KIT)	5
11	GSM Module,GPRS Modules(KIT)	5
12	RFID Modules(KIT)	2
13	Solder Gun	10
14	Multistrand wire (Black&Red)	4



Computer Lab /VLSI-Lab

Sr.no	Name of Equipment with Specification	Qty
1	Computer(acer)	20
2	U.P.S(7.5KVA)With Battery(SMP12/26AH)	2
3	Software(Multisim10.1)	1
4	Dot matrix Printer(Epson) LX310	4
5	Hp-scanjet5590 digital flatbed Scanner	1
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Computer Lab-1 /System Programming Lab

Sr. No.	Name of Equipment with Specification	Qty
1	Computer(Lenovo)	42
2	U.P.S(2KVA)	2
3	Universal Multivendor Protoboard-VTU	1
4	Spartan-3Trainer	8
5	Embedded System Development EDU ARM7-2148	6
6	Single Board Computer ARM 9	2
7	JTAG Connector for ARM7&ARM9	2
8	PICKIT3 in Circuit Debugger/Programmer	1
9	U.P.S(7.5KVA)WithBattery (SMPS12/AH)	2
10	Microcontroller Kit with on board interface(PIC 18FXX)	10
11	Interface Board for EEPROM-24C128 using SPJ	2
12	DC Motor interfacing Card for PIC18F	2



13	DSP Processor With USB JTAG Emulator	2
14	ARM -7 LPC2148 Trainer Kit	5
15	LPC 1768	5
16	All in one general Purpose Board	5
17	TFT /Touch Screen Interfacing Kit	2
18	GSM Interface	2
19	Computer(Lenovo)	10
20	LCD Projector Sony DX 102	2
21	LCD Projector Sony VPL DX 102	2
22	ASIX FORTE Universal in Circuit USB Programmer(KIT)	2

Computer Lab-IV

Sr. No	Name of Equipment with Specification	Qty
1	PA system Ahuja AWM-520VL	2
2	PA System Ahuja MixerAMX-1412	1
3	BENQ-digital projector (LCD)Technocell multimedia Technoales	1
4	Computer Lenovo	15
5	Projector VPL DX220	2
6	Projector Screen	6
<u>Texas Instruments</u>		
7.	ASLK PRO KIT	5
8.	PMLDOE,PMLK Boost PMLK Buck	3
9.	MSPEXP430G2	5
10.	CC110LRF Booster Packs	5
11.	Educational Booster Packs	3
12.	C2000 Piccolo Launch XL-F28027	5
13.	Booster Packk DRV8301	3
14.	BOOSTXL2KLED	3
15.	Tiva C Series EK-TM4C123 GXL	5
16.	Sensor Hub Booster Pack for TIVA C	2
17.	MSPLXP432P401R	3
18.	CC3100BOOST	5



19	Simple Link Wifi Module CC3200	5
20	Grover Starter Kit TM\$C129E Crypto Connected	5
21	Launch pad for LOT	5

Computer Lab-II/Microcontroller & Embedded System Lab

Sr. No.	Name of Equipment with Specification	Qty
1	Computer(Lenovo)	14
2	Computer(Lenovo)	14
3	LCD.Projector sony Data EX100	02
4	HP Laser printer 1020	02
5	Projector Screen4X6	02
6	LCD Projector VPL DX221	01