Index for Labs under

Information & Communication Technology and

Computer Science & Engineering Department

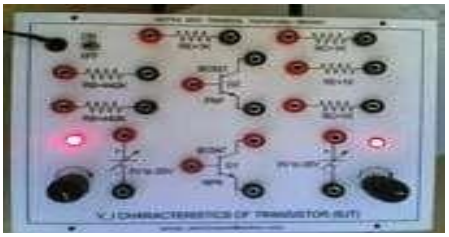
Sr.No.	Laboratory Name
1	ICT Project Lab
2	Data Structure and Algorithm LAB
3	Computer Network & Sensors Lab
4	Web Technology LAB
5	VLSI and Embedded Computing
6	Wireless Communication & Computing

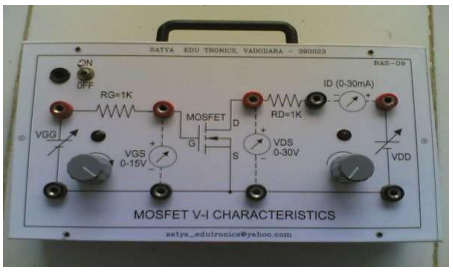
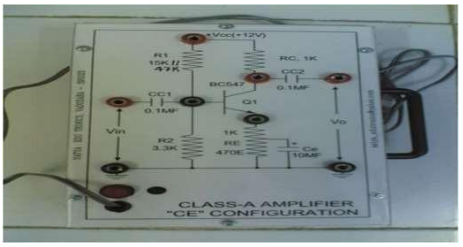
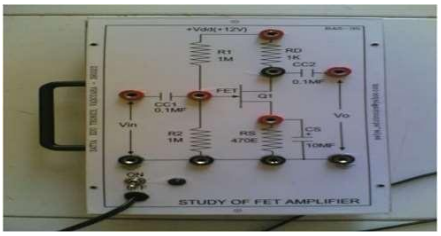
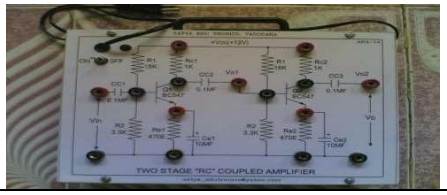
1. ICT Project Lab

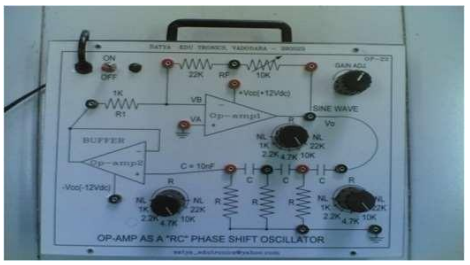
ANALOG AND DIGITAL ELECTRONICS LABORATORY

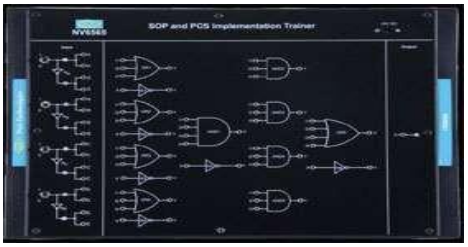
Detailed list of instruments:

Sr. No.	Name of Equipment or Instrument	Qty.	Asset No/ Dead Stock No	Image
1	Analog Oscilloscope (30 MHZ)	5	PDPU/SOT/ICT/ADE/ 2017-18/78/INT/01 TO 05	
2	Function Generators(1HZ TO 10 MHZ)	5	PDPU/SOT/ICT/ADE/ 2017-18/78/INT/06 TO 10	
3	DC Dual Tracking Power Supply (0 TO30 V)	3	PDPU/SOT/ICT/ADE/ 2017-18/78/INT/11 TO 13	
4	Digital Multimeters	10	PDPU/SOT/ICT/ADE/ 2017-18/78/INT/14 TO 23	
5	Soldering and Desoldering Stations	2	PDPU/SOT/ICT/ADE/ 2017-18/78/AUX/01 TO 02	

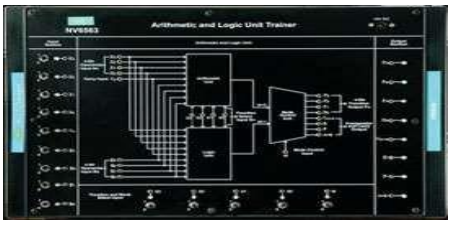
6	Analog Circuit Development Platform	2	PDPU/SOT/ICT/ADE/ 2017-18/78/INT/24 TO 25	
7	PN junction diode characteristics Trainer ZenerDiodeCharcateristics Trainer	4	PDPU/SOT/ICT/ADE/ 2017-18/78/KIT/01 TO 04	
8	Rectifier and Filter Trainer	2	PDPU/SOT/ICT/ADE/ 2017-18/78/KIT/05 TO 06	
9	Zener Diode Voltage Regulator Trainer	2	PDPU/SOT/ICT/ADE/ 2017-18/78/KIT/07 TO 08	
10	BJT characteristics and Analyzer Trainer	2	PDPU/SOT/ICT/ADE/ 2017-18/78/KIT/09 TO 10	
11	FET Characteristics Trainer	2	PDPU/SOT/ICT/ADE/ 2017-18/78/KIT/11 TO 12	

12	**MOSFET Characteristics Trainer**	**2**	**PDPU/SOT/ICT/ADE/ 2017-18/78/KIT/13 TO 14**	
13	**BJT Biasing Techniques Trainer**	**2**	**PDPU/SOT/ICT/ADE/ 2017-18/78/KIT/15 TO 16**	
14	**BJT CE Amplifier and its Frequency Response Trainer**	**2**	**PDPU/SOT/ICT/ADE/ 2017-18/78/KIT/17 TO 18**	
15	**FET Amplifier Trainer**	**2**	**PDPU/SOT/ICT/ADE/ 2017-18/78/KIT/19 TO 20**	
16	**BJT Feedback Amplifier Trainer**	**2**	**PDPU/SOT/ICT/ADE/ 2017-18/78/KIT/21 TO 22**	
17	**BJT Multistage Amplifier Trainer**	**2**	**PDPU/SOT/ICT/ADE/ 2017-18/78/KIT/23 TO 24**	

18	**OPAMP Applications Trainer**	**2**	**PDPU/SOT/ICT/ADE/ 2017-18/78/KIT/25 TO 26**	
19	**OPAMP Oscillators Trainer**	**2**	**PDPU/SOT/ICT/ADE/ 2017-18/78/KIT/27 TO 28**	
20	**OPAMP Active Filter Trainer**	**2**	**PDPU/SOT/ICT/ADE/ 2017-18/78/KIT/29 TO 30**	
21	**Astable and MonostableMultivibrator Trainer**	**2**	**PDPU/SOT/ICT/ADE/ 2017-18/78/KIT/31 TO 32**	
22	**Decade Resistance Box**	**2**	**PDPU/SOT/ICT/ADE/ 2017-18/78/INT/26 TO 27**	
23	**Decade Capacitance Box**	**2**	**PDPU/SOT/ICT/ADE/ 2017-18/78/INT/28 TO 29**	

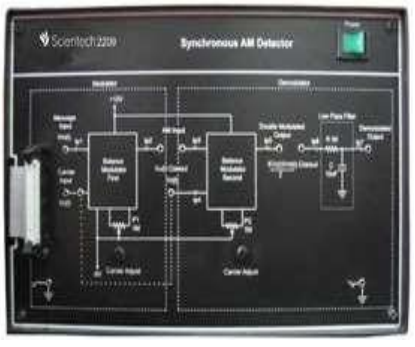
24	**Digital Circuits Development Platform**	**2**	**PDPU/SOT/ICT/ADE/ 2017-18/78/INT/30 TO 31**	
25	**Logic Gates Trainer**	**2**	**PDPU/SOT/ICT/ADE/ 2017-18/78/KIT/33 TO 34**	
26	**Universal Gates Trainer**	**2**	**PDPU/SOT/ICT/ADE/ 2017-18/78/KIT/35 TO 36**	
27	**De Morgan's Theorem Trainer**	**2**	**PDPU/SOT/ICT/ADE/ 2017-18/78/KIT/37 TO 38**	
28	**POS and SOP implementation Trainer**	**2**	**PDPU/SOT/ICT/ADE/ 2017-18/78/KIT/39 TO 40**	

29	**Adders and Subtractors Trainer**	**2**	**PDPU/SOT/ICT/ADE/ 2017-18/78/KIT/41 TO 42**	
30	**Parallel Adder and Subtractor Trainer**	**2**	**PDPU/SOT/ICT/ADE/ 2017-18/78/KIT/43 TO 44**	
31	**BCD addrer and Subtractor Trainer**	**2**	**PDPU/SOT/ICT/ADE/ 2017-18/78/KIT/45 TO 46**	
32	**Encoders and Decoders Trainer**	**2**	**PDPU/SOT/ICT/ADE/ 2017-18/78/KIT/47 TO 48**	
33	**Multiplexer and Demultiplexer Trainer**	**2**	**PDPU/SOT/ICT/ADE/ 2017-18/78/KIT/49 TO 50**	

34	**Flip Flop Trainer**	**2**	**PDPU/SOT/ICT/ADE/ 2017-18/78/KIT/51 TO 52**	
35	**Counters Trainer**	**2**	**PDPU/SOT/ICT/ADE/ 2017-18/78/KIT/53 TO 54**	
36	**Shift Register Trainer**	**2**	**PDPU/SOT/ICT/ADE/ 2017-18/78/KIT/55 TO 56**	
37	**Arithmatic and Logic Unit Trainer**	**2**	**PDPU/SOT/ICT/ADE/ 2017-18/78/KIT/57 TO 58**	
38	**A to D converter Trainer**	**2**	**PDPU/SOT/ICT/ADE/ 2017-18/78/KIT/59 TO 60**	

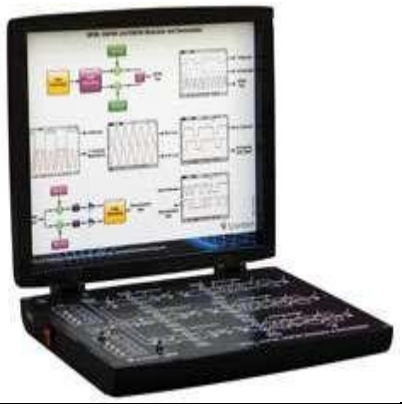
39	D to A converter Trainer	2	PDPU/SOT/ICT/ADE/ 2017-18/78/KIT/61 TO 62	
40	Characteristics of TTL and CMOS Gates Trainer	2	PDPU/SOT/ICT/ADE/ 2017-18/78/KIT/63 TO 64	
41	Analog and Digital IC Tester UICTS	1	PDPU/SOT/ICT/COM/ 2017-18/61/INT/02	

COMMUNICATION SYSTEMS LABORATORY

Sr. No	Name of Equipment or Instrument	Qty.	Asset No/ Dead Stock No	Image
42	DSB AM & SSB AM Transmitter Trainer	4	PDPU/SOT/ICT/COM/ 2017-18/78/KIT/01 TO 04	
43	SSB AM & DSB AM Receiver Trainer	4	PDPU/SOT/ICT/COM/ 2017-18/78/KIT/05 TO 08	
44	Synchronous AM detector Trainer	2	PDPU/SOT/ICT/COM/ 2017-18/78/KIT/09 TO 10	

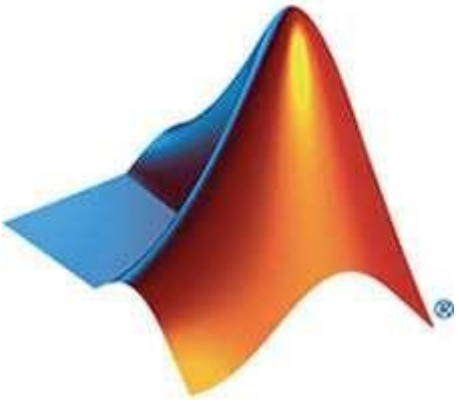
45	**FM Modulation and Demodulation Trainer**	**2**	**PDPU/SOT/ICT/COM/ 2017-18/78/KIT/11 TO 12**	
46	**FDM Multiplexer and Demultiplexer Trainer**	**2**	**PDPU/SOT/ICT/COM/ 2017-18/78/KIT/13 TO 14**	
47	**Sampling and Reconstruction Trainer**	**2**	**PDPU/SOT/ICT/COM/ 2017-18/78/KIT/15 TO 16**	
48	**PAM Modulation and Demodulation Trainer**	**2**	**PDPU/SOT/ICT/COM/ 2017-18/78/KIT/17 TO 18**	

49	**PPM Modulation and Demodulation Trainer**	**2**	**PDPU/SOT/ICT/COM/ 2017-18/78/KIT/19 TO 20**	
50	**PWM Modulation and Demodulation Trainer**	**2**	**PDPU/SOT/ICT/COM/ 2017-18/78/KIT/21 TO 22**	
51	**PCM, DPCM, CVSD Modulation and Demodulation Trainer**	**2**	**PDPU/SOT/ICT/COM/ 2017-18/78/KIT/23 TO 24**	
52	**TDM PCM Receiver Trainer**	**2**	**PDPU/SOT/ICT/COM/ 2017-18/78/KIT/25 TO 26**	

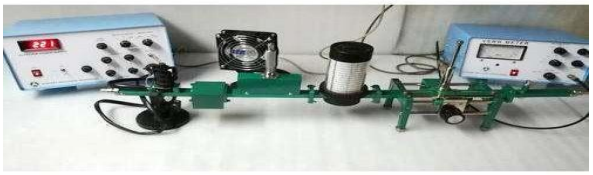
53	**TDM PCM Transmitter Trainer**	**2**	**PDPU/SOT/ICT/COM/ 2017-18/78/KIT/27 TO 28**	
54	**Delta, Adaptive Delta and Sigma Delta Modulation and Demodulation Trainer**	**2**	**PDPU/SOT/ICT/COM/ 2017-18/78/KIT/29 TO 30**	
55	**ASK, FSK, BPSK, DBPSK Modulation and Demodulation Trainer**	**2**	**PDPU/SOT/ICT/COM/ 2017-18/78/KIT/31 TO 32**	
56	**QPSK, OQPSK, DQPSK Modulation and Demodulation Trainer**	**2**	**PDPU/SOT/ICT/COM/ 2017-18/78/KIT/33 TO 34**	

57	**MSK, GMSK, FSK, GFSK Modulator and Demodulator Trainer**	**2**	**PDPU/SOT/ICT/COM/ 2017-18/78/KIT/35 TO 36**	
58	**QAM Transmitter and Receiver Trainer**	**2**	**PDPU/SOT/ICT/COM/ 2017-18/78/KIT/37 TO 38**	
59	**Companding A and mu law Trainer**	**2**	**PDPU/SOT/ICT/COM/ 2017-18/78/KIT/39 TO 40**	
60	**Spectrum Analyzer GSP-9300B**	**1**	**PDPU/SOT/ICT/COM/ 2017-18/61/INT/01**	

61	**Digital Storage Oscilloscope DS 1204B**	5	PDPU/SOT/ICT/COM/ 2017-18/61/INT/3 TO 7	
62	**Mixed Signal Oscilloscope MSO1104Z-S**	2	PDPU/SOT/ICT/COM/ 2017-18/61/INT/8 TO 9	
63	**Arbitary Waveform Generator scientech 416**	1	PDPU/SOT/ICT/COM/ 2017-18/61/INT/10	
64	**Computer Desktop 1 TB HDD ,16 GB INSTALL RAM ,INTEL(R) CORE (TM)i5-6400 CPU @ 2.70 GHZ 2.71GHZ**	9	PDPU/SOT/ICT/ICTLAB1/COMP1 TO COMP9	

65	**MATLAB R2017a, SIMULINK, Toolboxes: Communication System, Control system, DSP system, Fixed Point Designer, MATLAB coder, Optimization, Simscape, Simscape Electronics, SIMULINK coder**	**1NETWORK LIECENCE 9**		

RADIO FREQUENCY ENGINEERING LABORATORY

Sr. No	Name of Equipment or Instrument	Qty.	Asset No/ Dead Stock No	Image
66	Microwave work bench (Klystron Based)	1	PDPU/SOT/ICT/RF/2018-19/21/MWBK/1	
67	Microwave work bench (Gunn Based)	1	PDPU/SOT/ICT/RF/2018-19/21/MWBG/1	
68	Antenna Trainer kit	2	PDPU/SOT/ICT/RF/2018-19/21/ATK/1 TO 2	

69	**RADAR Trainer kit**	**1**	**PDPU/SOT/ICT/RF/2018-19/21/RTK/1**	
70	**MIC Trainer kits**	**3**	**PDPU/SOT/ICT/RF/2018-19/21/MIC/1 TO 3**	
71	**CST Studio 2019**		**5 Network User**	

2. Data Structure and Algorithm LAB

Detailed list of instruments

. No.	Name of Equipment or Instrument	Qty.	Asset No/ Dead Stock No	Image
1	Computer Desktop Processor:intel® core™i5-7500CPU@3.40GHz 3.41GHz RAM:16.0GB System Type : 64 bit Operating System,x64-based processor Hard Disk 1TB	41	PDPU/SOT/CE/CPLAB1/COMP01 TO 41	

3. COMPUTER NETWORK & SENSORS LABORATORY

Detailed list of instruments

. No.	Name of Equipment or Instrument	Qty.	Asset No/ Dead Stock No	Image
1	CISCO 8 PORT SWITCHES	16	PDPU/SOT/CE/CNSLAB/INT/ 01 TO 16	
2	CRIMPING TOOLS	15	PDPU/SOT/CE/CNSLAB/INT/ 17 TO 31	
3	LAN TESTER	10	PDPU/SOT/CE/CNSLAB/INT/ 32 TO 41	
4	INTEL LAN CARD	10	PDPU/SOT/CE/CNSLAB/INT/ 42 TO 51	

5	**USB LAN CARD**	**10**	**PDPU/SOT/CE/CNSLAB/INT/ 52 TO 61**	
6	**Computer Desktop Processor:intel® core™i5-7500CPU@3.40GHz 3.41GHz RAM:16.0GB System Type : 64 bit Operating System,x64-based processor Hard Disk 1TB**	**15**	**PDPU/SOT/CE/CNSLAB/ COMP01 TO 15**	

4. Web Technology Lab

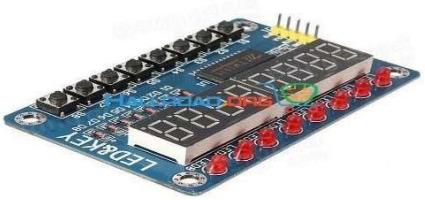
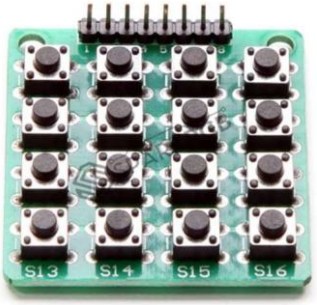
. No.	Name of Equipment or Instrument	Qty.	Asset No/ Dead Stock No	Image
1	Computer Desktop Processor:intel® core™i5-7500CPU@3.40GHz 3.41GHz RAM:16.0GB System Type : 64 bit Operating System,x64-based processor Hard Disk 1TB	34	PDPU/SOT/CE/CPLAB2/COMP01 TO 34	

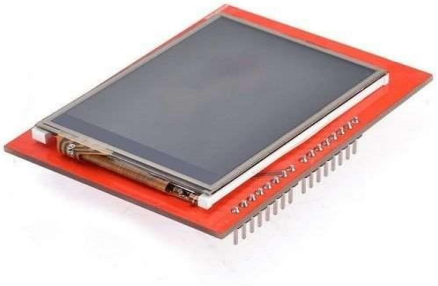
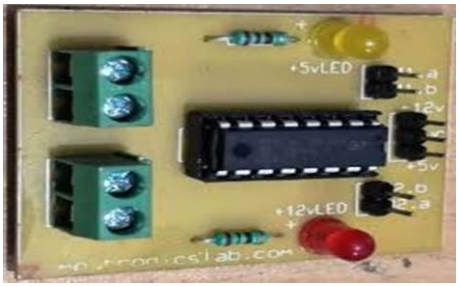
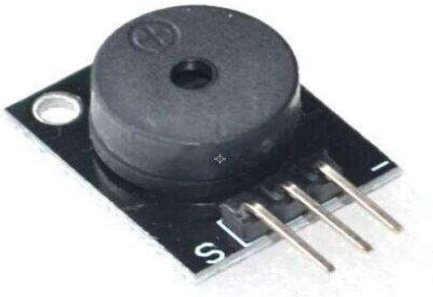
Tinkering equipment's details

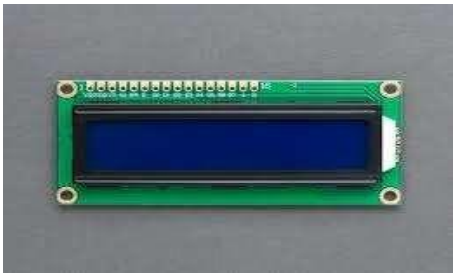
. No.	Name of Equipment or Instrument	Qty.	Asset No/ Dead Stock No	Image
1	Fan Control System	1		
2	Dimmer Wi-Fi Light	5		
3	Door Lock Wi-Fi	3		
4	Person in Range sensor with Wi-Fi	7		

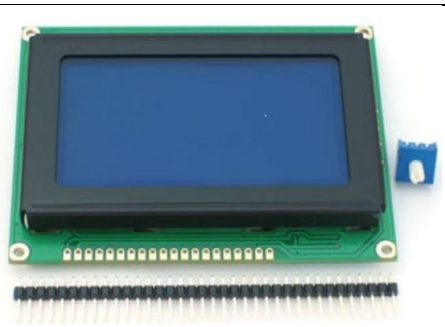
5. VLSI and Embedded Computing

Sr. No.	Name of Equipment or Instrument	Qty.	Asset No/ Dead Stock No	Image
1	Digital Multimeter	1	PDPU/SOT/ICT/EMBEDDED/18-19/78/INT/1	
2	Arduino Mega Boards	15	PDPU/SOT/ICT/EMBEDDED/18-19/78/KIT/1 -15	
3	Raspberry Pi 3 Model B Board with Micro SDHC Card	10	PDPU/SOT/ICT/EMBEDDED/18-19/78/KIT/16 -25	
4	Embedded system development board	10	PDPU/SOT/ICT/EMBEDDED/18-19/78/KIT/26 -35	

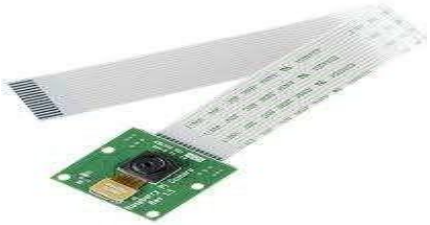
5	DSP Trainer	2	PDPU/SOT/ICT/DSP/18-19/78/KIT/1-2	
6	8 Switches, 8 LED and 4 digit 7 segment LED display	2	PDPU/SOT/ICT/EMBEDDED/18-19/78/MODULE/1-2	
7	4X4 Matrix Keypad	2	PDPU/SOT/ICT/EMBEDDED/18-19/78/MODULE/3-4	
8	LCD Keypad Interfacing Board	2	PDPU/SOT/ICT/EMBEDDED/18-19/78/MODULE/5-6	

9	2.4 Inch Touch LCD	2	PDPU/SOT/ICT/EMBEDDED/18-19/78/MODULE/7-8	
10	5V Relay Module Expansion Board	2	PDPU/SOT/ICT/EMBEDDED/18-19/78/MODULE/9-10	
11	ULN2003 Stepper Motor Driver Board	2	PDPU/SOT/ICT/EMBEDDED/18-19/78/MODULE/11-12	
12	L293D Based DC Motor Driver Board	2	PDPU/SOT/ICT/EMBEDDED/18-19/78/MODULE/13-14	
13	Passive Buzzer Module	2	PDPU/SOT/ICT/EMBEDDED/18-19/78/MODULE/15-16	

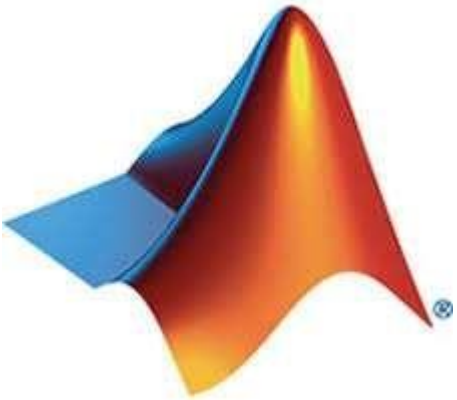
14	**5V Stepper Motor Unipolar**	**2**	**PDPU/SOT/ICT/EMBEDDED/18-19/78/MODULE/17-18**	
15	**DC Motor 3-6 V, 2000 RPM**	**2**	**PDPU/SOT/ICT/EMBEDDED/18-19/78/MODULE/19-20**	
16	**Shaft encoder (optical) with mounting for DC, servo and stepper motors**	**2**	**PDPU/SOT/ICT/EMBEDDED/18-19/78/MODULE/21-22**	
17	**16 X 2 LCD**	**2**	**PDPU/SOT/ICT/EMBEDDED/18-19/78/MODULE/23-24**	

18	**Graphic LCD128*64**	**2**	**PDPU/SOT/ICT/EMBEDDED/18-19/78/MODULE/25-26**	
19	**Ethernet module**	**2**	**PDPU/SOT/ICT/EMBEDDED/18-19/78/MODULE/27-28**	
20	**Bluetooth module, RFID, WiFi module**	**2**	**PDPU/SOT/ICT/EMBEDDED/18-19/78/MODULE/29-30**	
21	**Zigbee module**	**2**	**PDPU/SOT/ICT/EMBEDDED/18-19/78/MODULE/31-32**	

22	3axis Gyro, Acceleration, Magnetometer & AirPressure Sensors	2	PDPU/SOT/ICT/EMBEDDED/18-19/78/MODULE/33-34	
23	IR High Range Optical Proximity Switch	2	PDPU/SOT/ICT/EMBEDDED/18-19/78/MODULE/35-36	
24	Temperature And Humidity Sensor Module	2	PDPU/SOT/ICT/EMBEDDED/18-19/78/MODULE/37-38	
25	Temperature Sensor Probe Waterproof	2	PDPU/SOT/ICT/EMBEDDED/18-19/78/MODULE/39-40	
26	Inductive Proximity Sensor - Magnetic Switch	2	PDPU/SOT/ICT/EMBEDDED/18-19/78/MODULE/41-42	

27	**Heart Beat Sensor**	**2**	**PDPU/SOT/ICT/EMBEDDED/18-19/78/MODULE/43-44**	
28	**Water Level Sensor Module**	**2**	**PDPU/SOT/ICT/EMBEDDED/18-19/78/MODULE/45-46**	
29	**Ultrasonic Sensor Distance Measuring Module**	**2**	**PDPU/SOT/ICT/EMBEDDED/18-19/78/MODULE/47-48**	
30	**PIR Motion Detection Sensor Module**	**2**	**PDPU/SOT/ICT/EMBEDDED/18-19/78/MODULE/49-50**	
31	**Raspberry Pi Camera Module With Cable**	**2**	**PDPU/SOT/ICT/EMBEDDED/18-19/78/MODULE/51-52**	

32	**Raspberry Pi Mini USB Camera**	**2**	**PDPU/SOT/ICT/EMBEDED/18-19/78/MODULE/53-54**	
33	**Speech And Voice Recognition Module (Ready interface)**	**2**	**PDPU/SOT/ICT/EMBEDDED/18-19/78/MODULE/55-56**	
34	**JTAG Emulator**	**2**	**PDPU/SOT/ICT/DSP/18-19/78/MODULE/1-2**	
35	**Color CCD Camera**	**2**	**PDPU/SOT/ICT/DSP/18-19/78/MODULE/3-4**	
36	**Fingerprint Sensor and Code**	**2**	**PDPU/SOT/ICT/DSP/18-19/78/MODULE/5-6**	

37	**Input voltage pro.kit**	**2**	**PDPU/SOT/ICT/DSP/18-19/78/MODULE/7-8**	
38	**Computer Desktop Processor:intel® core™i5-7500CPU@3.40GHz 3.41GHz RAM:16.0GB System Type : 64 bit Operating System,x64-based processor Hard Disk 1TB**	**31**	**PDPU/SOT/ICT/ICTLAB2/COMP01 TO 31**	
39	**MATLAB R2018a, SIMULINK, Toolboxes: Communication System, Control system, DSP system, Fixed Point Designer, MATLAB coder, Optimization, Simscape, Simscape Electronics, SIMULINK coder**	**1NETWORK LIECENCE 25(clients)**		

6. WIRELESS COMMUNICATION & COMPUTING

Detailed list of instruments

Sr. No.	Name of Equipment or Instrument	Qty.	Asset No/ Dead Stock No	Image
1	**Computer Desktop Processor: intel® core™i7-8700 8 th generation CPU@3.40GHz 3.41GHz RAM:16.0GB DDR4 RAM 2666 MHZ, 1 TB SATA 7200 RPM Hard Dirk.10 100/1000 Ethernet, NVIDA@GEFORCE @ GT 730 2GB System Type : 64 bit Operating System,x64-based processor**	81	**PDPU/SOT/ICT/WCC/COMP01 TO 81**	
2	**Vector Network Analyzer**	**1**	**PDPU/SOT/ICT/RF/2019-20/84/INST/01**	
3	**Soldering and Desoldering Stations**	**2**	**PDPU/SOT/ICT/RF/ 2019-20/84/AUX/01 TO 02**