



## VALLURUPALLI NAGESWARA RAO VIGNANA JYOTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

An Autonomous, ISO 9001:2015 & QS I-Gauge Diamond Rated Institute, Accredited by NAAC with 'A++' Grade.  
NBA Accreditation for B.Tech. CE, EEE, ME, ECE, CSE, EIE, IT, AME, M.Tech. STRE, PE, AMS, SWE Programmes  
Approved by AICTE, New Delhi, Affiliated to JNTUH, NIRF (2023) Rank band:101-150 in Engineering Category  
College with Potential for Excellence by UGC, JNTUH-Recognized Research Centers: CE, EEE, ME, ECE, CSE Vignana Jyothi  
Nagar, Pragathi Nagar, Nizampet (S.O.), Hyderabad – 500 090, TS, India.  
Telephone No: 040-2304 2758/59/60, Fax: 040-23042761  
E-mail: postbox@vnrnjiet.ac.in, Website: www.vnrnjiet.ac.in

# LIST OF RESEARCH EQUIPMENT

S. No	EQUIPMENT TYPE	NAME OF PARTICULARS	Year of Purchase	Cost of Equipment (Rs in Lakhs)
1	HARDWARE	SURFACE ROUGHNESS TESTER	2017	4.2
2	HARDWARE & SOFTWARE	COMPUTERIZED IC ENGINES TEST RIG	2013	5.73
3	HARDWARE	DELL VOSTRO 3888 DESKTOP	2022	12.76
4	HARDWARE	ESA MCB1760 SINGLE BOARD COMPUTER	2022	3.87
5	HARDWARE	IF-ESA MCB1760 INTERFACE BOARD FOR ESA MCB1760	2022	0.82
6	HARDWARE	ESP32-STK	2022	1.46
7	HARDWARE	RASPBERRY PI	2022	0.66
8	HARDWARE	TEMPERATURE SENSORS TO HUMIDIFIER	2022	2.39
9	HARDWARE	EPSON EB01 PROJECTOR	2022	0.39
10	HARDWARE	HP PRO TOWER 280G9 RCTO PC1	2023	67.86
11	HARDWARE	NVIDIA JETSON NANO DEVELOPER KIT-B01	2023	3.89
12	HARDWARE	LENOVO ST550 SERVER	2022	5.61
13	HARDWARE	LENOVO P720 WORKSTATION	2021	1.66
14	HARDWARE	INTEL CORE I7-9700 PROCESSOR	2020	1.17
15	HARDWARE	INTEL CORE I7-9700 PROCESSOR	2020	1.17
16	HARDWARE	DIGITAL LOAD FRAME	2020	4.52
17	HARDWARE	DENSITY TESTER	2020	1.58
18	HARDWARE	SEMI CIRCULAR BENDING TEST SETUP	2020	0.25
19	HARDWARE	LIGHT WEIGHT DEFLECTOMETER	2022	3
20	HARDWARE	TOTAL STATION	2021	3.8
21	HARDWARE	DGPS	2022	7.75
22	HARDWARE	PLAXIS 2D	2020	8.06
23	HARDWARE	MOTORISED MACHINE	2021	0.41
24	SOFTWARE	UTM SOFTWARE	2022	0.44
25	HARDWARE	ULTRASONIC PULSE VELOCITY	2021	5.68
26	HARDWARE	JAW CRUSHER	2022	2.54
27	HARDWARE	LATERAL EXTENSOMETER AND LONGITUDINAL COMPRESSOMETER	2022	0.38
28	HARDWARE	SONICATOR	2021	0.14
29	HARDWARE	REBOUND HAMMER	2020	1.06
30	HARDWARE	SHRINKAGE BAR MOULDS AND LENGTH COMPARATOR	2021	0.44
31	HARDWARE	WEIGHING BALANCE	2021	0.1
32	HARDWARE	MORTAR MIXER	2022	0.95
33	HARDWARE	OVEN	2022	0.92
34	HARDWARE	FLOW TABLE	2022	0.52
35	HARDWARE	COLORIMETER	2021	1.27
36	HARDWARE	LAMINAR AIR FLOW	2021	0.55
37	HARDWARE	DIGITAL BALANCE	2021	0.09

38	HARDWARE	MAGNETIC STIRRER	2021	0.15
39	HARDWARE	FILTRATION ASSEMBLY	2021	0.16
40	HARDWARE	HEATING MANTLE	2021	0.02
41	HARDWARE	HANDHELD SPECTRUMANALYZER	2019	18.85
42	HARDWARE	AM/FM SIGNAL GENERATOR	1998	1.14
43	HARDWARE	SPECTRUM ANALYZER	2001	3.29
44	HARDWARE	RF SIGNAL GENERATOR	2016	5.9
45	HARDWARE	SPECTRUM ANALYZER	2001	3.29
46	HARDWARE	DSP PROCESSOR KITS	2004	0.76
47	HARDWARE	DSP PROCESSOR KITS	2008	1.37
48	HARDWARE	DSP PROCESSOR KITS	2013	1.8
49	HARDWARE	FPGA KITS	2014	0.3
50	HARDWARE	FPGA KITS	2014	0.76
51	HARDWARE	AV ARTIX-7 FPGA KIT WITH ACCESSORIES	2021	0.23
52	HARDWARE	TIVA STARTER KIT	2015	0.39
53	HARDWARE	TIVAC SERIES DEVELOPMENT KIT	2015	0.19
54	HARDWARE	3D PRINTER	2015	2.65
55	HARDWARE	MICROWAVE BENCH SETUP (KLYSTRON POWER SUPPLY)	2017	1.46
56	HARDWARE	MICROWAVE BENCH SETUP (GUNN POWER SUPPLY)	2017	0.68
57	HARDWARE	5.8GHZ C&S BAND SATELLITE COMMUNICATION LAB	2015	4.7
58	HARDWARE	8086 MICROPROCESSOR KITS (WITH POWER SUPPLY UNIT)	2006	0.93
59	HARDWARE	LOGIC ANALYZER (MODEL: LA45)	2013	0.23
60	HARDWARE	LOGIC ANALYZER CARD FOR IBM PC	1998	0.31
61	HARDWARE	ARM-9 DEVELOPMENT KIT BASED ON SAM9G45	2013	0.31
62	HARDWARE	EMBEST TEACHING KIT	2013	0.49
63	HARDWARE	SPARTAN 3E FPGA KIT, ANVYL, SPARTAN 605	2014	1.6
64	HARDWARE	XUP V5 FPGA KIT	2014	0.92
65	HARDWARE	ATLYS SPARTAN6 FPGA KIT	2014	1.27
66	HARDWARE	ZYNQ VIDEO AND IMAGE KIT(HARDWARE)	2015	2.2
67	HARDWARE	XILINX VIVADO SYSTEM EDITION SOFTWARE	2015	1.24
68	HARDWARE	FPGA KIT (AITEK-7 FPGA KIT NEXYS 4DDR),ZED BOARD(ZYNQ ZED DEVELOPMENT KIT	2016	0.62
69	HARDWARE	FTIR SPECTROPHOTOMETER	2009	9.27
70	HARDWARE	CONDUCTIVITY METER	2012	.07
71	HARDWARE	TURBIDITY METER	2012	.10
72	HARDWARE	WATER QUALITY METER	2012	.43
73	HARDWARE	USB BASED DATA ACQUISITION SYSTEM	2015	.25
74	HARDWARE	PH ANALYZER	2015	.25
75	HARDWARE	UV – VIS SPECTROPHOTO METER (DOUBLE BEAM)	2016	2.79
76	HARDWARE	GAS ANALYZER	2016	1.55
77	HARDWARE	BOMB CALORIMETER	2016	1.09
78	HARDWARE	GM COUNTER	2017	1.03
79	HARDWARE	HPLC	2018	7.32
80	HARDWARE	FLAME PHOTO METER	2018	.41
81	HARDWARE	MILK AND PROTIEN ANALYZER	2018	.39
82	HARDWARE	COMPUTERS I5 PROCESSOR 7TH GEN	2018	2.44
83	HARDWARE	DIGITAL CALORIMETER (MICROPROCESOR TYPE)	2021	.17

84	HARDWARE	ARM7 TRAINER KIT	2016	1.86
85	HARDWARE	MULTILEVEL PARKING MODEL	2016	.27
86	HARDWARE	TRAFFIC LIGHT	2016	.07
87	HARDWARE	HEARTBEAT	2016	.05
88	HARDWARE	BLOOD PRESSURE	2016	.10
89	HARDWARE	ECG	2016	.10
90	HARDWARE	LUNGS ANALYZER	2016	.09
91	HARDWARE	PIC MICRO CONTROLLER	2016	.13
92	HARDWARE	LINE FOLLWER ROBOT	2016	.18
93	HARDWARE	PERSONAL COMPUTERS	2014	12.17
94	HARDWARE	8086 KITS	2014	.35
95	HARDWARE	8051 KITS	2014	1.04
96	HARDWARE	STEPPER MOTOR KITS	2014	.07
97	HARDWARE	TEMPRATURE CONTOROLLER	2014	.11
98	SOFTWARE	NI SOFTWARE WITH ANALOG KITS	2016	7.50
99	HARDWARE	ADDITIONAL NI CIRCUIT SUITEVERSION	2016	
100	HARDWARE	IOT LAB EQUIPMENTS (SENSOR MODULES AND KITS)		.07
101	SOFTWARE	NI LAB VIEW SOFTWARE	2017	6.33
102	HARDWARE	NI ELVIS II HARDWARE KIT+ POWER CARD-HARDWARE	2013	2.26
103	HARDWARE	NI USB-6210 BUS POWERED M SERIES MULTIFUNCTION DAQ DEVICE	2013	3.92
104	SOFTWARE	NI_DAQMX DRIVER	2013	.99
105	HARDWARE	NI 9207 8-CH (CURRENT) + 8-CH (VOLTAGE) COMBO MODULE, 24 BITS WITH 50/60HZ REJECTION-HARDWARE	2013	.40
106	HARDWARE	NI 9265 4-CHANNEL 20MZ, 100 KS/S PER CHQANNEL, 16 BIT, CURRENT OUTPUT MODULE-HARDWARE	2013	.28
107	HARDWARE	NI USB 4 SLOT CHASSIS-HARDWARE	2013	.45
108	HARDWARE	COMPUTERS: I5 PROCESSOR; 4GB RAM; 500HDD;	2013	13.52
109	HARDWARE	COMPUTERS: HPRCTO 280 PRO	2020	10.69
110	HARDWARE	HCL INFINITI PENTIUM - IV SYSTEMS	2008	1.28
111	HARDWARE	LENOVO DESKTOP S510 DESKTOP PC'S	2016	3.99
112	HARDWARE	DELL PRECISION 3620 WORKSTATIONS	2016	1.70
113	SOFTWARE	DESIGN AND SIMULATION SOFTWARE (MULTISIM)	2002	.84
114	SOFTWARE	DESIGN & SIMULATION SOFTWARE (MULTISIM10.1)	2009	1.75
115	SOFTWARE	DESIGN OF PCB SOFTWARE (ULTIBOARD)	2002	.84
116	SOFTWARE	ALLEN BRADLEY MICROLOGIX 1400 PLC	2016	.93
117	HARDWARE	SIMATIC HMI KTP 600 BASIC (6" TFT DISPLAY)	2016	.32
118	HARDWARE	SINAMICS G120C PN DRIVE WITH 3 PHASE MOTOR	2016	.32
119	HARDWARE	SIMATIC S7-1200 PLC WITH REMOTE TERMINAL UNIT	2016	1.58
120	HARDWARE	SIMULATION PANEL WITH SIMATIC S7-1200 PLC	2017	.58
121	SOFTWARE	SIMATIC WINCC V7.3 SCADA	2016	1.62
122	SOFTWARE	SIMATIC STEP 7 BASIC V13 SP1	2016	.20
123	HARDWARE	LEVEL PROCESS STATION	2016	2.03
124	HARDWARE	FLOW PROCESS STATION	2016	2.40
125	HARDWARE	PRESSURE PROCESS STATION	2016	1.68
126	HARDWARE	PLC TRAINER KIT (GE FANUE VERSA MAX PLC)	2002	1.13

127	HARDWARE	I TO P AND P TO I CONVERTER	2016	.49
128	HARDWARE	DISPLACEMENT MEASUREMENT USING CAPACITIVE PICKUP	2002	.11
129	HARDWARE	RPM MEASUREMENT USING STROBOSCOPE	2002	.21
130	HARDWARE	PRECISION ANGULAR VELOCITY MEASUREMENT USING GYROSCOPE	2002	.29
131	HARDWARE	MEASUREMENT OF VELOCITY OF LIQUID FLOW USING ULTRASONIC DOPPLER EFFECT	2003	1.77
132	HARDWARE	HUMIDITY MEASUREMENT SYSTEM	2004	.19
133	HARDWARE	SOUND LEVEL MEASURING EQUIPMENT	2004	.12
134	HARDWARE	VELOCITY, ACCELERATION AND VIBRATION MEASUREMENT USING PIEZO ELECTRIC TRANSDUCER	2016	.50
135	HARDWARE	LIGHT INTENSITY MEASUREMENT	2004	.13
136	HARDWARE	REDWOOD VISCOMETER	2014	.13
137	HARDWARE	SAY BOLT VISCOMETER	2014	.14
138	HARDWARE	SPLIT RANGE CONRTOLLER	2014	1.22
139	HARDWARE	PLC SOFTWARE (SIMATIC STEP 7 BASIC V14 LICENSE) 4 USER	2017	.81
140	HARDWARE	PLC S1200 WITHOUT AO	2018	.85
141	HARDWARE	PLC S1200 WITH AO	2018	1.06
142	HARDWARE	PLC SOFTWARE (SIMATIC STEP 7 BASIC V15 LICENSE) 5 USER	2018	1.11
143	SOFTWARE	SIMATIC WINNCC ADVANCED V15	2018	1.02
144	SOFTWARE	RS LOGIX MICRO SOFTWARE	2017	.17
145	SOFTWARE	SIMATIC WINNCC ADVANCED RUNTIME V15	2018	1.00
146	HARDWARE	FLOW, CASCADE & RATIO PROCESS ANALYZER	2014	.76
147	HARDWARE	LEVEL PROCESS ANALYZER	2014	.39
148	HARDWARE	TEMPERATURE CONTROL SETUP	2014	.32
149	HARDWARE	DC SERVO REGULATOR SETUP	2014	.38
150	HARDWARE	PRESSURE PROCESS ANALYZER	2014	.30
151	HARDWARE	PROCESS CONTROL SIMULATOR	2014	.57
152	HARDWARE	INTERACTING AND NON-INTERACTING SETUP	2008	.36
153	HARDWARE	PH CONTROLLER	2014	2.81
154	HARDWARE	CONTROL VALVE CHARACTERISTICS	2001	.90
155	HARDWARE	LEVEL TRANSMITTER	2002	.13
156	HARDWARE	PNEUMATIC CONTROLLER SETUP	2005	.72
157	HARDWARE	HYDRAULIC CONTROLLER SETUP	2005	1.02
158	HARDWARE	HCL INFINITI PIV DC PC'S	2004	1.60
159	HARDWARE	FEED FORWARD CONTROL	2008	2.80
160	HARDWARE	AIR COMPRESSOR	2016	.32
161	HARDWARE	DIGITAL STORAGE OSCILLOSCOPE	2013	.20
162	HARDWARE	SINGLE BOARD HEATER SYSTEM	2022	.12
163	HARDWARE	DELL PRECISION WORKSTATIONS	2016	4.20
164	HARDWARE	DELL LAPTOPS	2016	1.78
165	HARDWARE	NETWORKING NODES (20)	2016	1.55
166	HARDWARE	DJI PHANTOM - 3 DRONE	2016	1.37
167	SOFTWARE	LAB VIEW DEPARTMENT LICENSE	2008	4.68
168	HARDWARE	NI EL VIS	2008	1.88
169	HARDWARE	GENERAL DATA ACQUISITION	2008	.75
170	HARDWARE	EMBEDDED DSP APPLICATION KIT	2008	.71
171	HARDWARE	PCI-BASED REAL TIME IMAGE ACQUISITION BUNDLE FOR INSTRUMENTATION APPLICATION	2008	1.52

172	HARDWARE	INSTRUMENTATION BUNDLE	2008	1.82
173	HARDWARE	COMPACT FIELD POINT HARDWARE BUNDLE	2008	2.34
174	HARDWARE	CFP-A10-610, 12 BIT ANALOG INPUT/OUTPUT MODULE (V.MA N) 4 CHANNEL, 12 BIT, A1.V AND MA, 4 CHANNEL 12 BIT AO, V	2008	.58
175	HARDWARE	CFP-TC-120.16 BIT THERMOCOUPLE INPUT MODULE (TC.MV) .8 CHANNEL	2008	.48
176	HARDWARE	CFP-CB-1, CONNECTOR BLOCK	2008	.16
177	HARDWARE	PENTIUM P-IV SYSTEMS	2008	2.10
178	HARDWARE	NETWORKING EQUIPMENT	2008	.39
179	HARDWARE	VOLTAS AIR CONDITIONERS	2008	1.20
180	HARDWARE	ANLONG I/P MODEL (NI - 9203)	2009	.30
181	HARDWARE	ANLONG O/P MODEL (NI - 9265)	2009	.40
182	HARDWARE	SENSORY MEASUREMENT UNIT	2014	6.30
183	HARDWARE	LENOVO DESKTOP PC'S I5	2018	3.54
184	SOFTWARE	NI ELVIS - III	2020	4.48
185	HARDWARE	Q-METER	2001	.14
186	HARDWARE	TEMP.TRAINER J-TYPE THERMOCOUPLE, THERMISTOR KITS	2016	.44
187	HARDWARE	TEMP.TRAINER RTD MODULES	2016	.22
188	HARDWARE	LDR, PHOTO DIODE & PHOTO TRANSISTOR	2015	.06
189	HARDWARE	LDR, PHOTO DIODE & PHOTO TRANSISTOR	2015	.09
190	HARDWARE	LVDT KITS	2015	.31
191	HARDWARE	TEMP CONTROLLER (OIL BATH)	2002	.40
192	HARDWARE	KELVIN BRIDGE	2015	.11
193	HARDWARE	WHEATSTONE BRIDGE	2015	.11
194	HARDWARE	SCHERING BRIDGE	2015	.11
195	HARDWARE	MAXWELL'S BRIDGE	2015	.11
196	HARDWARE	PH METER WITH ATC AND GENERAL-PURPOSE ELECTRODE	2017	.14
197	HARDWARE	CONDUCTIVITY METER – LMCM – 20	2017	.15
198	HARDWARE	BOURDON TUBE	2016	.61
199	HARDWARE	DISSOLVED OXYGEN ANALYZER	2017	.16
200	HARDWARE	LVDT KITS	2023	.32
201	HARDWARE	NI DATA ACQUISITION SYSTEM NI USB-6281	2015	1.82
202	HARDWARE	BIO- INSTRUMENTATION SENSOR KIT (EKG, BP, HEART RATE TEMPERATURE, , OXYGEN SENSOR AND SPIROMETER	2015	1.05
203	HARDWARE	E-HEALTH SENSOR SHIELD V 2.0 FOR ARDUINO WITH BIO SENSORS	2016	.42
204	HARDWARE	COMPUTERS	2015	.73
205	HARDWARE	DEVKIT 8500 TI DM 3730	2015	.85
206	HARDWARE	OPHTHALMOSCOPE	2015	.42
207	HARDWARE	MODULARIZED ELECTRICAL POWER SYSTEM DYNAMIC NONLINEAR HEATING PROCESS SYSTEM	2020	.45
208	HARDWARE	PROCESS TANK WITH COILS	2020	.35
209	HARDWARE	DIGITAL STORAGE OSCILLOSCOPE	2013	2.93
210	HARDWARE	FUNCTION GENERATOR	2013	.50
211	HARDWARE	TRAINER KIT	2013	.63
212	HARDWARE	IC TESTER	2011	.26
213	HARDWARE	FT-1301 BREAD BOARD TRAINERS	2011	.50
214	HARDWARE	REGULATED POWER SUPPLIES	2016	.68
215	HARDWARE	DIGITAL STORAGE OSCILLOSCOPE	2016	2.90

216	HARDWARE	3D PRINTERS	2021	3.96
217	HARDWARE	3D PRINTERS	2021	5.7
218	HARDWARE	3D PRINTERS	2021	4.9
219	HARDWARE	DRILLING MACHINE	2021	0.25
220	HARDWARE	WELDING MACHINE	2019	0.75
221	HARDWARE	FSW	2022	13.6
222	HARDWARE	ROBOT	2022	25.51
223	HARDWARE	3D PRINTERS	2014	1.8
224	HARDWARE	3D PRINTERS	2014	7
225	HARDWARE	3D SCANNER	2016	18
226	HARDWARE	CNC MACHINE	2011	7.65
227	HARDWARE	ULTRA SONIC FLAW DETECTOR	2014	2.19
228	HARDWARE	TIG WELDING	2007	6.57
229	HARDWARE	METALLURGICAL MICROSCOPE WITH IMAGE ANALYZER	2013	3.84
230	HARDWARE	COMPUTERIZED DIESEL ENGINE TEST RIG	2013	7.85
231	HARDWARE	UTM	2010	18
232	HARDWARE	VICKER'S MICRO HARDNESS TESTER	2009	5.4
233	HARDWARE	MICROSCOPE WITH IMAGE ANALYZER	2016	2.21
234	HARDWARE	PHOTO BIOREACTOR	2016	3
235	HARDWARE	SURFACE ROUGHNESS TESTER	2016	2.43
236	HARDWARE	TWO PHASE FLOW TEST BED	2017	1
237	HARDWARE	FDM 3D PRINTERS	2021	11.39
238	SOFTWARE	HYPERWORKS	2016	13.73
239	SOFTWARE	SYNOPSIS LICENSE	2020	8.7
240	SOFTWARE	MAT LAB 21A	2021	12.35
241	HARDWARE	IOT DEVELOPMENT BOARDS	2020	7.62
242	HARDWARE	PCB PROTOTYPE MAKING & ANTENNA DESIGN M/C	2021	4.93
243	HARDWARE	100 TON LOADING FRAME TEST SETUP	2020	28
244	HARDWARE	ATOMIC ABSORPTION SPECTROPHOTOMETER	2014	6
245	HARDWARE	FLEX WALL PERMEAMETER	2016	15.58
246	HARDWARE	ROLLING THIN FILM OVEN & ITS ACCESSORIES	2007	8.16
247	HARDWARE	COMPUTERISED UTM (100T)	2011	8.77
248	HARDWARE	NAVITAR ZOOM 7000 LENSES	2023	3.06
249	HARDWARE	LASER LINE FILTER	2022	0.49
250	HARDWARE	3D LIDAR SENSOR	2022	4.13
251	HARDWARE	LIDAR TELESCOPE	2022	4.2
252	HARDWARE	LASER POWER SENSOR & POWER METER	2022	2.67
253	HARDWARE	HONEYCOMB TABLETOP & RIGID TABLETOP SUPPORT	2022	2.56
254	HARDWARE	KEYSIGHT 34461A DIGITAL MULTIMETER	2021	0.82
255	HARDWARE	MICROSOFT SURFACE PRO 7	2021	0.99
256	HARDWARE	INTEL REAL SENSE LIDAR-L 515	2021	0.36
257	HARDWARE	SAMSUNG GALAXY M31	2021	0.19
259	HARDWARE	WESVOX STEREO MICROSCOPE TRINOCULAR MODEL WITH CAMERA	2021	0.66
260	HARDWARE	Q-SWITCHED ND: YAG LASER	2023	13.99
261	HARDWARE	ELECTROCHEMICAL WORKSTATION	2023	9

**Total Cost of Equipment 725.53 Lakhs**