



Estd.1995

VALLURUPALLI NAGESWARA RAO VIGNANA JYOTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY

An Autonomous Institute, NAAC Accredited with 'A' Grade
NBA Accredited for CE, EEE, ME, ECE, CSE, EIE, IT B.Tech Courses
Approved by AICTE, New Delhi, Affiliated to JNTUH

Recognized as "College with Potential for Excellence" by UGC

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List of Research Equipment

SI NO	Department	Name of the Equipment	LAB/ Room Number	Quantity	Year of Purchase	Amount	Usage Charges (Which can be shown as consultancy)
1.	IT	Intel i7-processor -3.0GHz -2TB HDD-16GB RAM-with integrated NVIDIAGeForce 8GB GPU and with External NVIDIA GeForce 8 GB RTX 2080 super External GPU	A006	01	2020	Rs.1,17,600/-	Rs 2000/-
2.	IT	Intel i7-processor -3.0GHz -2TB HDD-16GB RAM-with integrated NVIDIAGeForce 8GB GPU and with External NVIDIA GeForce 8 GB RTX 2080 super External GPU	A007/1	01	2020	Rs.1,17,600/-	Rs 2000/-
3.	ME	Computerised Multifuel Engine	THERMAL ENGINEERING LABORATORY/ S 3-3	1	21/01/2013	785250	2000 Per hour
4.	ME	CNC MACHINE	CNC LAB / S 1-1	1	30/12/2011	1764789	200 Per hour
5.	ME	FDM 3D Printers (For Making Prototypes)	ADDITIVE MANUFACTURING LAB D-320	10	18/03/2021	1139880	Rs 200/- Per Hour Material Cost- Rs 5/- Per gram
6.	ME	Friction Stir Welding Machine	COEJT - LAB / S 1-1	1	12/03/2022	13,60,000	Rs. 500/- Per Joint
7.	AE	Exhaust Gas Analyser	Vehicle Maintenance and Testing Laboratory/D-003/2	1	2013	Rs.3,29,625	Rs. 1000/ hr
8.	AE	Smoke Meter	Vehicle Maintenance and Testing Laboratory/D-003/2	1	2013	Rs.2,36,250	Rs. 1000/ hr
9.	AE	Creo parametric 2.0	D-412	50 users	2013	Rs. 4,91,136	Rs. 2000/day/user

10.	AE	Hypher works	D-412	40 users	2016	Rs. 13,73,162	Rs. 2000/day/user
11.	AE	3D - Printer	D-412	1	2021	Rs. 3,11,595	Rs. 1600/printing of 100 grams part
12.	AE	Surface Roughness tester	D-412	1	2017	Rs. 4,20,000	Rs. 500 per measurement
13.	AE	Computerised single cylinder 4-stroke diesel engine test rig	S3-3	1	2013	Rs. 5,73,750	Rs. 1500/ hr
14.	AE	Pillar Drilling M/C	S1-2	1	2018	Rs. 59,000	Rs. 500/hr
15.	EEE	Solar photo voltaic training & research system	PC Lab/ P-208	01	2016	Rs. 1,96,525/-	Rs. 1500/hr
16.	EEE	Three Phase IGBT Based Inverter Module	PC Lab/ P-208	01	2020	Rs. 1,06,200/-	Rs. 2200/hr
17.	EEE	PV Emulator	Centre for Renewable Energy Systems	01	1-7-2016	Rs. 3,38,362/-	Rs. 2000/hr
18.	EEE	Solar PV Training KIT	PC Lab/ P-208	01	1-7-2016	Rs. 1,47,394/-	Rs. 2500/hr
19.	EEE	High Speed Data Acquisition and control System based on Labview	EM Lab/ S1-3	01	4-7-2019	Rs. 1,97,532/-	Rs. 3000/hr
20.	EEE	Digital storage oscilloscope (100MHz 1Gs/s)	Centre for Renewable Energy Systems	01	24-12-2019	Rs. 35,990/-	Rs. 1200/hr
21.	EEE	LCR Meter (10-100kHz)	Centre for Renewable Energy Systems	01	06-01-2020	Rs. 35,400/-	Rs. 300/hr
22.	EEE	1-Phase Controlled rectifier	Centre for Renewable Energy Systems	01	23-04-2021	Rs. 23,100/-	Rs. 1800/hr
23.	EEE	30A, 48V Li-Polymer battery	Centre for Renewable Energy Systems	01	30-11-2019	Rs. 38,350/-	Rs. 2500/day
24.	ECE	Logic Analyzer (Model: LA45)	MPMC LAB/A-206	1	23-03-2013	23528	Per month 2000/-
25.	ECE	Universal ISP cable programmer & Embedded trainer kit(VPUT-01)	MPMC LAB/A-206	1	15-02-2013	68225	Per controller use 20/-
26.	ECE	Spectrum Analyzer 9KHz to 1.5GHz	ADC LAB /A-207	1	29-05-2001	3,29,520	Per month 3000/-
27.	ECE	RF Signal Generator 9KHz to 3GHz.	ADC LAB /A-207	1	31-05-2016	590433	Per month 3000/-
28.	ECE	Hand heald Spectrum Analyzer	ADC LAB /A-207	1	29-05-2019	1885640	Per month 5000/-
29.	ECE	Zynq-Evaluation kit	VLSI LAB/P-109	1	29-03-2014	121800	Per month 2000/-

30.	ECE	Zynq-video & Image processing kit	VLSI LAB/P-109	1	18-03-2015	2,20,500	Per month 2000/-
31.	ECE	Zed board(Zynq Z-development kit)	VLSI LAB/P-109	1	23-08-2016	42000	Per month 2000/-
32.	ECE	Anvyl-spartan 6 FPGA Board	VLSI LAB/P-109	1	29-03-2014	44100	Per month 2000/-
33.	ECE	Spartan 605 FPGA Board	VLSI LAB/P-109	1	29-03-2014	80325	Per month 2000/-
34.	ECE	virtex-5 FPGA Board	VLSI LAB/P-109	1	29-03-2014	92,800	Per month 2000/-
35.	ECE	Atlys,Spartan-6 FPGA Board	VLSI LAB/P-109& VLSI DESIGN LAB/A-208	5	29-03-2014	127250	Per month 2000/-
36.	ECE	Spartan 3E FPGA Kits	VLSI DESIGN LAB/A-208	1	29-03-2014	30600	Per month 2000/-
37.	ECE	Artix,nexys-4 DDR FPGA Board	VLSI LAB/P-109	2	23-08-2016	40000	Per month 2000/-
38.	ECE	Artix,nexys-4 DDR FPGA Board	VLSI LAB/P-109	1	23-08-2016	22300	Per month 2000/-
39.	ECE	Synopsys Product code -3900-0 Asia Pac Back end University bundle 3 years TSL License, Customized support for tools	VLSI LAB/P-109	5	5-11-2020	156555	Per month 2000/-
40.	ECE	Ku Bench setup (Ku Gunn Oscillator, Isolator,PIN Modulator, Variable Attenuator,Frequency meter, Detector Mount, waveguide stands,circulator)	MWE LAB/C-207	1	29-02-2008	66632	Per month 2000/-
41.	ECE	Microwave Bench Setup(klystron power supply)	MWE LAB/C-207	2	14-12-2016	146802	Per month 2000/-
42.	ECE	Microwave Bench Setup(Gunn power supply)	MWE LAB/C-207	1	14-12-2016	68503	Per month 1000/-
43.	ECE	Dsp Processor Kits	DSP LAB/C-208	6	28-09-2013	1,80,000	Per month 1000/-
44.	ECE	ARM CORTEX M3 Development Board (ESA KEIL MCB1760)	ES LAB/P-103	4	18-02-2019	143276	Per month 2000/-
45.	ECE	Beagle bone black	ES LAB/P-103	1	12-11-2019	4950	Per month 500/-
46.	ECE	FPGA basedHeterogeneous Embedded development Kit(PYNQ-Z2 BASIC KIT) with Raspberry pi 3	ES LAB/P-103	2	11-12-2020	27844	Per one Prototype 2000/-
47.	ECE	GPU basedHeterogeneous Embedded development Kit(Nvidia Jetson Nano)	ES LAB/P-103	2	15-12-2020	21739	Per month 2000/-
48.	ECE	IoT Learning Box and IoT car	ES LAB/P-103	4	12-12-2020	102000	Per month 2000/-
49.	ECE	GPU Accelerated Desktop Computer	ES LAB/P-103	1	12-03-2019	117600	Per day 2000/- (High end computing platform used in ML-DL Models)
50.	ECE	Kinect Xbox 360 Sensor	ES LAB/P-103	1	13-03-2021	5200	Per usage 1000/-
51.	ECE	Embedded Development Boards under TI university Program	ES LAB/P-103	20	16-11-2017	318600	Per proto typing 1000/-
52.	ECE	Mentor Graphics a) mentor HEP1 -back End c) Analog Discovery Kit (ADK)	VLSI DESIGN LAB/A-208	40Users	8-4-2021	321365	Per month 5000/- (Investment of tool is approximately 5,00,000 for 40 licenses.)
53.	ECE	Xilinx vivado system edition software	VLSI LAB/P-109& VLSI DESIGN	25Users	18-03-2015	124950	Per month 2000/-

			LAB/A-208				
54.	ECE	Synopsys Product code -3901-0 Asia Pac Front end University bundle 3 years TSL License	VLSI LAB/P-109	5	5-11-2020	870188	Per month 8000/- (Investment of tool is approximately 10,00,000 for 5 licenses.)
55.	ECE	Matlab21a (full suit) Standard 18, all tool boxes (Campus wide License)for one year license NO:40641812	DSP LAB/C-208	Unli mited	31-5-2021	123500 0	Per month 10000/- (Investment of tool is approximately 1300000
56.	ECE	IF-ESA KEIL MCB1760	ES LAB/P-103	4	03-02-2019	143276	Per proto typing 2000/-
57.	ECE	Network Simulator(NetSim Standard Version)	ES LAB/P-103	2	02-03-2020	524375	5000/-per 3 day
58.	ECE	IoT Development Boards (Thunderboard Sense 2 Sensor-to-Cloud Advanced IoT Kit) , Sensor Node Devices and Connecting Shields with Software tools	ES LAB/P-103	25	17-09-2020	7,62,71 1.86	1000/- per day
59.	ECE	PCB Prototype Making & Antenna Design m/c	ES LAB/P-103	1	14-04-2021	493500	10000/- per PCB print
60.	CE	Ultra-Sonic Pulse Velocity Apparatus	Concrete Lab/D-008	1	16.6.2021	568170	1000 Rupees per 1 RC Member
61.	CE	Rebound Hammer	Concrete Lab/D-008	1	19.3.2021	106200	800 Rupees per 1 RC Member
62.	CE	RCPT and ACPT Apparatus	Concrete Lab/D-008	1	24.6.2014	226023	7500 Rupees per 1 Sample
63.	CE	Abrasion Test Apparatus of Concrete	Concrete Lab/D-008	1	15.3.2012	129770	7500 Rupees per 1 Sample
64.	CE	Concrete Permeability Apparatus	Concrete Lab/D-008	1	15.3.2012	58826	7500 Rupees per 1 Sample
65.	CE	100 T Loading frame test Setup	Structure Engineering Lab /S-5	1	5.2.2020	280000 0	5000 Rupees per 1 RC Member
66.	CE	Shrinkage moulds and length comparator	Concrete Lab/D-008	1	22.6.2021	44414	5500 Rupees
67.	CE	Atomic absorbtion spectro photometer	Environmental Engineering Lab/ D-010	1	2014	600000	500 for each metal
68.	CE	Laminar Air Flow	Environmental Engineering Lab/ D-010	1	2021	55650	500
69.	CE	Water and Soil Analyzing Kit	Environmental Engineering Lab/ D-010	1	2021	45266	2500
70.	CE	Autoclave	Environmental Engineering Lab/ D-010	1	2020	5999	300
71.	CE	Photo Colorimeter	Environmental Engineering Lab/D-010	1	2021	12744	500 for each compound
72.	CE	Direct shear test	Geotechnical Engineering Lab/ D-004	1	2.1.2004	27531	6000/Sample
73.	CE	Unconfined compressive test	Geotechnical Engineering Lab/ D-004	1	2.1.2004	25935	1500/Sample
74.	CE	CBR test	Geotechnical	1	24.2.2004	45738	1200/Sample

			Engineering Lab/ D-004				
75.	CE	Swell Pressure test	Geotechnical Engineering Lab/ D-004	1	22.2.2016	48563	3000/ Sample
76.	CE	Triaxial test	Geotechnical Engineering Lab/ D-004	1	1.2.2004	121000	10000/ Sample
77.	CE	Flex wall permeameter	Geotechnical Engineering Lab/ D-004	1	8.2.2016	155875 0	10000/ Sample
78.	CE	Marshall Stability Apparatus and IDT	Transportation Lab/ D-011	1	11.9.2006	49500	Rs. 7000 Per Mix Design
79.	CE	Brookfield Rotational Viscometer	Transportation Lab/ D-011	1	30.10.2006	293625	Rs. 2000 Per Sample
80.	CE	Plate Bearing Apparatus & its Accessories	Transportation Lab/ D-011	1	15.6.2007	214908	As Per Site Condition
81.	CE	Accelerated Polishing Apparatus & its Accessories	Transportation Lab/ D-011	1	16.7.2007	135000 4	Rs. 12000 Per Sample
82.	CE	Rolling Thin Film Oven & its Accessories	Transportation Lab/ D-011	1	16.7.2007	816106	Rs. 10000
83.	CE	Loss on Heating & its Accessories	Transportation Lab/ D-011	1	16.7.2007	373900	Rs. 10000
84.	CE	Indirect Tensile test Apparatus with LVDT & Data Acquisition Software	Transportation Lab/ D-011	1	17.1.2012	130900	Rs. 5000 Per Mix
85.	CE	Compression Testing Machine & Bitumen Pentrometer & its Accessories	Transportation Lab/ D-011	1	2.3.2011	126941	Rs. 1000 Per Sample
86.	CE	Repeated Load Test Setup for Resilient Modulus	Transportation Lab/ D-011	1	1.12.2011	947002	Rs. 25000 Per (Mix) Sample
87.	CE	Marshall mixes Density – Theoretical Sp. Gravity	Transportation Lab/ D-011	1	20.9.2017	76700	Rs. 1000 Per Sample
88.	CE	Viscosity Testing Equipment	Transportation Lab/ D-011	1	25.3.2013	134662	Rs. 1000
89.	CE	VISSIM & VISUM Software	Transportation Lab/ D-011	1	1.5.2013	420002	As Per Client Requirement
90.	CE	Pavement Core Drilling	Transportation Lab/ D-011	1	31.3.2014	221217	Rs. 1000 Per Sample
91.	CE	Immersion type Wheel Rutting Equipment and Roller Compactor	Transportation Lab/ D-011	1	3.6.2015	722912	Rs. 20000 Per Mixture
92.	CE	Deflection studies and MERLIN studies	Transportation Lab/ D-011	1	-	-	As Per Client Requirement
93.	CE	Asphalt Binder composition	Transportation Lab/ D-011	1	2019	18000	Rs. 5000 Per Sample
94.	CE	5 In CH Data Logger, Frequency And Load Controller for fatigue test	Transportation Lab/ D-011	1	20.2.2018	400421	-
95.	CE	HDM IV 10 Licences	Transportation Lab/ D-011	1	18.12.2018	90548	As Per Client Requirement
96.	CE	Servo Controlled Testing Digital frame – Semi Circular Bending Test for fracture properties at different strain.	Transportation Lab/ D-011	1	18.7.2020	452353	Rs. 15000 Per Mix
97.	CE	Skid Resister	Transportation Lab/ D-011	1	21.3.2013	73645	Rs. 1500 Per Point
98.	CE	Indigenous Low-Cost /Light Weight Deflectometer for	Transportation Lab/ D-011	1	2019	300000 Develo	As Per Client Requirement

		Structural Evaluation of Pavement				ped Under GST	
99.	CE	Computerised UTM (100T) M/s. Fine Spavy Associates & Engineers Pvt Ltd.	Strength of Materials Lab/ D-002	1	21.7.2011	877661	Torsion Test on Steel 1500
100.	CE	Universal Testing Machine (20 T) M/s. HEICO Ltd.	Strength of Materials Lab/ D-002	1	29.3.1997	169295	Torsion Test on Steel 1500
101.	CE	Torsion Testing Machine (FIT 20) Fine Spavy Associates & Engineers Pvt. Ltd.	Strength of Materials Lab/ D-002	1	15.4.1997	79420	Torsion Test 600
102.	CE	Compression Testing Machine (200 T) Techno Instruments	Strength of Materials Lab/ D-002	1	15.4.1997	103825	Compression test on cubes 600
103.	CE	Hardness Testing Machine KB 3000 (1 No.) –Brinell, KAS (1 No.) – Rockwell Krystal Elmec. RAB 250 (2 No's) Brinell cum Rockwell, Saroj Engineering UdyogPvt.Ltd.	Strength of Materials Lab/ D-002	1	30.1.1997	39680	Hardness Test Rockwell 600 Brinell 1000
104.	CE	Impact Testing Machine (FIT 300) Fine Spavy Associates & Engineers Pvt. Ltd.	Strength of Materials Lab/ D-002	1	13.2.1997	41153	Impact test Charpy /Izod 600
105.	CE	Spring Testing Machine (2 No's) M/s HEICO Ltd. Shanta Engineering	Strength of Materials Lab/ D-002	1	29.3.1997	36388	Spring Test 600
106.	E.I.E	Lab VIEW department license	P 302	1	1-1-2008	468,000	50,000/ Complete project
107.	E.I.E	General data Acquisition System	P 302	1	1-1-2008	75,431	10000
108.	E.I.E	Embedded DSP Application Kit	P 302	1	1-1-2008	70,875	10000
109.	E.I.E	PCI-Based real time Image acquisition Bundle for Instrumentation Application	P 302	1	1-1-2008	151,875	20000
110.	E.I.E	Instrumentation Bundle	P 302	1	1-1-2008	182,250	20000
111.	E.I.E	Compact Field point hardware bundle	P 302	1	1-1-2008	234,449	20000
112.	E.I.E	HEART BEAT Sensor Module	C 205	1	20-09-2016	5,000	1000
113.	E.I.E	BLOOD PRESSURE Analyzer	C 205	1	20-09-2016	9,600	2000
114.	E.I.E	ECG Analyzer	C 205	1	20-09-2016	10,400	2000
115.	E.I.E	LUNGS ANALYZER	C 205	1	20-09-2016	8,800	2000
116.	E.I.E	Level Process Station	A 213	1	12-11-2006	202794	5000
117.	E.I.E	Flow Process Station	A 213	1	12-11-2006	239914	5000
118.	E.I.E	Pressure Process Station	A 213	1	19-10-2019	168087	5000
119.	E.I.E	PLC Software (Simatic Step 7 Basic V15 License) 5 User	B 207	5	21-6-2018	22145	5000/ Full course
120.	E.I.E	Simatic Winn CC Advanced V15 Software (SCADA)	B 207	1	21-6-2018	102061	10000/Full course
121.	E.I.E	RS LOGIX MICRO SOFTWARE for PLC	B 207	2	7-2-2017	8484	5000/ Full course
122.	E.I.E	Simatic Winn CC Advanced Runtime V15 Software (SCADA)	B 207	4	21-6-2018	24878	10000/Full course
123.	E.I.E	Pressure Process Analyzer	A 213	1	25-02-2014	29,967	5000
124.	E.I.E	Process Control Simulator	A 213	1	25-02-2014	28,297	5000
125.	E.I.E	Nonlinear pH measurement and	A 213	1	23-9-2009	2,81,13	10000

		control station				7	
126.	E.I.E	FTIR Spectrophotometer	B 208	1	10-05-2012	9,27,000	10,000/Sample
127.	E.I.E	Conductivity Meter	B 208	1	10-05-2012	6,840	1,500
128.	E.I.E	Turbidity Meter	B 208	1	10-05-2012	9,676	1,500
129.	E.I.E	Water Quality Meter	B 208	1	23-9-2009	43,092	2,000
130.	E.I.E	pH Analyzer	B 208	1	20-7-2015	24,680	500/Sample
131.	E.I.E	UV – VIS Spectrophoto Meter (Double Beam)	B 208	1	23-3-2016	279,070	5,000/Sample
132.	E.I.E	Gas Analyzer	B 208	1	23-8-2016	155,000	100/Sample
133.	E.I.E	Milk And Protein Analyzer	B 208	1	29-01-2018	38,940	200/ Sample
134.	E.I.E	High Performance Liquid Chromatography (HPLC)	B 208	1	16-02-2018	7,31,600	10000/Sample
135.	E.I.E	Flame photometer	B 208	1	17-02-2018	41,420	2000/Sample