



JEPPIAAR INSTITUTE OF TECHNOLOGY

(An Autonomous Institution)

“Self-Belief | Self-Discipline | Self-Respect”

Kunnam, Sunguvarchatram, Sriperumbudur – 631 604.



Research Equipments & Facilities

SL.NO	DESCRIPTION	DEPARTMENT/FACILITY	QUANTITY
1	CNC Router	Idea Lab	1
2	Co2 Laser Cutting Machine	Idea Lab	1
3	Oculus Quest 2	AR/VR Center for Excellence	2
4	HP Z2G9 TWR workstation -CPU	AR/VR Center for Excellence	2
5	HP M24F-23.8 /IPS/FHD/VGA/DMI	AR/VR Center for Excellence	3
6	APPLE MAC MINI	AR/VR Center for Excellence	1
7	APPLE IPAD PRO 11	AR/VR Center for Excellence	1
8	5 th Generation Intel® Xeon 9® Scalable Processor	INTEL UNNATI Center for Excellence	1
9	Think Line PC	INTEL UNNATI Center for Excellence	30
10	Azhimuth-Elevation Ham Radio Outlet	Nano Satellite Research Lab	1
11	VHF/UHF Antenna	Nano Satellite Research Lab	1
12	Rotator	Nano Satellite Research Lab	1
13	Software Defind Radio Link	Nano Satellite Research Lab	1
14	Satellite Tracking Software - Orbitron	Nano Satellite Research Lab	1
15	Soldering helping Hands Station with Magnifying Glass	Nano Satellite Research Lab	1
16	Radial drilling machine	Mechanical Engineering	1
17	Centre lathe	Mechanical Engineering	1
18	Arc welding transformer with cables and holders	Mechanical Engineering	1
19	Venturimeter setup	Mechanical Engineering	1
20	Orifice meter setup	Mechanical Engineering	1
21	Rotometer setup	Mechanical Engineering	1
22	Friction apparatus setup	Mechanical Engineering	1
23	Centrifugal / submergible pump setup	Mechanical Engineering	1
24	Reciprocating pump setup	Mechanical Engineering	1
25	Gear oil pump setup	Mechanical Engineering	1
26	Pelton wheel turbine setup	Mechanical Engineering	1
27	Kaplan turbine setup	Mechanical Engineering	1
28	Francis turbine setup	Mechanical Engineering	1
29	Stopwatch	Mechanical Engineering	1
30	Tachometer	Mechanical Engineering	1
31	Centre Lathes	Mechanical Engineering	7
32	Horizontal Milling Machine	Mechanical Engineering	1
33	Vertical Milling Machine	Mechanical Engineering	1
34	Surface Grinding Machine	Mechanical Engineering	1
35	Cylindrical Grinding Machine	Mechanical Engineering	1
36	Centerless Grinding Machine	Mechanical Engineering	1
37	Lathe tool dynamometer	Mechanical Engineering	1
38	Milling tool dynamometer	Mechanical Engineering	1

39	Gear hobbing machine	Mechanical Engineering	1
40	Gear shaping machine	Mechanical Engineering	1
41	Tool and cutter grinder	Mechanical Engineering	1
42	Universal testing machine	Mechanical Engineering	1
43	Torsion testing machine	Mechanical Engineering	1
44	Brinnell hardness testing equipment	Mechanical Engineering	1
45	Rockwell hardness testing equipment	Mechanical Engineering	1
46	Impact test equipment	Mechanical Engineering	1
47	Deflection of beam test equipment	Mechanical Engineering	1
48	Spring test equipment	Mechanical Engineering	1
49	Metallurgy microscope	Mechanical Engineering	1
50	Muffle furnace	Mechanical Engineering	1
51	Computer nodes or systems	Mechanical Engineering	1
52	A3 size plotter	Mechanical Engineering	1
53	Laser printer	Mechanical Engineering	1
54	CNC Lathe	Mechanical Engineering	1
55	CNC Milling Machine	Mechanical Engineering	1
56	Any high end integrated modeling and manufacturing CAD/CAM software	Mechanical Engineering	1
57	CAM software for machining centre and turning centre	Mechanical Engineering	1
58	(CNC programming and tool path simulation for FANUC / Sinumeric and Heidenhain controller)	Mechanical Engineering	1
59	Profile Projector / Tool Makers Microscope	Mechanical Engineering	1
60	Mechanical / Electrical / Pneumatic Comparator	Mechanical Engineering	1
61	Coordinate Measuring Machine	Mechanical Engineering	1
62	Surface Finish Measuring Equipment	Mechanical Engineering	1
63	Governor apparatus – Watt, Porter, Proell and Hartnell governors	Mechanical Engineering	1
64	Whirling of shaft apparatus	Mechanical Engineering	1
65	Dynamic balancing machine	Mechanical Engineering	1
66	Two rotor vibration setup	Mechanical Engineering	1
67	Spring mass vibration system	Mechanical Engineering	1
68	Torsional vibration of single rotor system setup	Mechanical Engineering	1
69	4 stroke diesel engine	Mechanical Engineering	1
70	Morse test multi-cylinder petrol engine	Mechanical Engineering	1
71	Steam generator & Turbine	Mechanical Engineering	1
72	2 stroke diesel engine	Mechanical Engineering	1
73	B-H Curve Apparatus	Science and Humanities	5
74	Bandgap Heater	Science and Humanities	3
75	Carey Foster Bridge	Science and Humanities	5
76	Diode Laser Source (670 nm)	Science and Humanities	5
77	Diode Laser Source (2 mw)	Science and Humanities	3
78	D.C.Power Supply (1.5 V)	Science and Humanities	5
79	Energy Band Gap Power Supply	Science and Humanities	6
80	Galvano Meter	Science and Humanities	5
81	High Resistance (0.1k,10k)	Science and Humanities	5
82	Hot Plate with Regulator	Science and Humanities	6
83	Knife Edge	Science and Humanities	12 [pair]
84	Lees Apparatus	Science and Humanities	5
85	Lees Disc Steam Chamber Set	Science and Humanities	3
86	Numerical Aperture and Acceptance Angle [complete kit]	Science and Humanities	4
87	Numerical Aperture Cable Kit	Science and Humanities	1
88	Airwedge Wood Glass Stand	Science and Humanities	6
89	Optical Bench Slide Holder, Particle Deposited Slide Screen	Science and Humanities	4

90	Optical Bench Slide Holder	Science and Humanitics	5
91	Optical Fibre N.A - Acceptance Angle	Science and Humanitics	2
92	Wooden Optical Bench Slide Holder, Slide & Screen	Science and Humanitics	2
93	Particle Deposited Slide	Science and Humanitics	14
94	Pinch Cork	Science and Humanitics	4
95	Retort Stand with Clamps	Science and Humanitics	12
96	Rough Balance	Science and Humanitics	5
97	Resistance 1 Ω & 5 Ω	Science and Humanitics	5
98	Screen Holder For Wavelength	Science and Humanitics	10
99	Scale 150-0-150 & Holder for wavelength	Science and Humanitics	2
100	Spectrometer	Science and Humanitics	10
101	Steam Boiler [1 Ltr]	Science and Humanitics	8
102	Steam Boiler Cork	Science and Humanitics	8
103	Semi-Conductor Diode	Science and Humanitics	5
104	Stop Clock	Science and Humanitics	14
105	Screw Gauge [25 mm]	Science and Humanitics	19
106	Standard C.R.O	Science and Humanitics	2
107	Slotted Weight [5×50 gm]	Science and Humanitics	24
108	Stop Watch Digital	Science and Humanitics	14
109	Transformer	Science and Humanitics	18
110	Travelling Microscope	Science and Humanitics	15
111	Two Dial Resistance Box [0.1 Ω & 1 Ω]	Science and Humanitics	5
112	Torsional Pendulum	Science and Humanitics	10
113	Two Equal Cylindrical Masses (100gm)	Science and Humanitics	14
114	Tools - Cutting Player	Science and Humanitics	1
115	Tools - Screw Driver	Science and Humanitics	1
116	Unknown Resistance	Science and Humanitics	5
117	Ultrasonic Interferometer (2 MHZ)	Science and Humanitics	6
118	Vernier Calipers	Science and Humanitics	15
119	Wooden Box	Science and Humanitics	20
120	Wooden Meter Scale	Science and Humanitics	28
121	Computers	Science and Humanitics	120
122	Computers	Artificial Intelligence and Data Science	60
123	Computers	Computer Science and Business Systems	30
124	Computers	Computer Science and Technology	120
125	Computers	Information Technology	120
126	Computers	Master of Business Administrative	30
127	Turbo C	Common to CSE, IT, AI & DS, CSBS	30
128	Java	Common to CSE, IT, AI & DS, CSBS	30
129	Python (Idle Python & Jupyter Python)	Common to CSE, IT, AI & DS, CSBS	30
130	Oracle	Common to CSE, IT, AI & DS, CSBS	30
131	Network Simulater - CISCO	Common to CSE, IT, AI & DS, CSBS	30
132	Inkskape	Common to CSE, IT, AI & DS, CSBS	30
133	Ubuntu	Common to CSE, IT, AI & DS, CSBS	30
134	SQL	Common to CSE, IT, AI & DS, CSBS	30
135	CRO (0 to 30 MHz)	Electronics and Communication Engineering	12
136	Signal Generators / Function Generators (0 to 3 MHz)	Electronics and Communication Engineering	10
137	SPICE Simulator	Electronics and Communication Engineering	15
138	Standalone desktops PC	Electronics and Communication Engineering	33
139	Digital Trainer kit	Electronics and Communication Engineering	15

140	MASM Software	Electronics and Communication Engineering	15
141	8051 Microcontrollers/ any other CISC 8-bit microcontroller with peripherals; IDE, Board Support Software Tools, Assembler, C Compiler/suitable open source software	Electronics and Communication Engineering	10
142	8086 Microprocessor Kit	Electronics and Communication Engineering	15
143	8 Bit CISC/RISC microcontroller Compatible ADC interface Unit	Electronics and Communication Engineering	3
144	8 Bit CISC/RISC microcontroller Compatible DAC interface Unit	Electronics and Communication Engineering	3
145	LED, Sensor, Stepper Motor & Interfacing	Electronics and Communication Engineering	3 Sets
146	Traffic light controller	Electronics and Communication Engineering	2
147	Trainer Kits for AM, FM, Signal Sampling, TDM, PCM, PAM, PPM, PWM, DM and Line Coding Schemes	Electronics and Communication Engineering	Each 2
148	Trainer Kits for ASK, FSK and PSK	Electronics and Communication Engineering	Each 2
149	DSO (0 to 100 MHz)	Electronics and Communication Engineering	15
150	Signal Generators / Function Generators (0 to 3 MHz)	Electronics and Communication Engineering	15
151	MATLAB	Electronics and Communication Engineering	15
152	Keil μ vision-ARM Processor	Electronics and Communication Engineering	15
153	8051 Microcontrollers/ any other CISC 8 bit microcontroller with peripherals; IDE, Board Support Software Tools, Assembler, C Compiler/suitable open source software	Electronics and Communication Engineering	10
154	Flash Magic	Electronics and Communication Engineering	15
155	TMS320C5x DSP Processors	Electronics and Communication Engineering	5
156	IC Tester	Electronics and Communication Engineering	1
157	Xilinx ISE/Altera Quartus/ equivalent EDA Tools	Electronics and Communication Engineering	15
158	Xilinx/Altera/equivalent FPGA Boards	Electronics and Communication Engineering	15
159	Cadence/ Mentor Graphics/Open-Source equivalent CAD VLSI design tool	Electronics and Communication Engineering	5