



Prayas Centre Name: Krishna Path Incubation Society - TBI KIET

City: Ghaziabad

State: Uttar Pradesh

FabLab Page Link : NA

Equipment available at DST PRAYAS-SHALA

Section		Electronic/Prototyping Facility
Sr. No.	Equipment Name	Equipment detail
1	3D Scanner	Brand –EinScan Pro2X Model –EinscanPEE-2XBX005M23 Specification –Scan Speed 20 fps; Point Distance – 0.2 mm – 2 mm; Working Center Distance 400mm Operational area – Reverse Engineering i.e. 3D scanning of the components to get point cloud data which can be converted to part file after further processing on 3D modelling software. Link of the user manual - https://drive.google.com/file/d/15cGpIIDMTM286BHHaDdAp0-cU4LaM7J1/view?usp=sharing
2	Powder Bed 3D Printing Machine	Brand –Sinterit Model - LISA Specification –SLS IR Laser Diode 5W Operational area – 3D Printing Link of the user manual - https://drive.google.com/file/d/1DGme-lthVntmUh9lofBlhp67KkideouK/view?usp=sharing
3	Vinyl Plotter	Brand - RISHABH Model –GOLD CUT X 1 Specification –Single Blade Cutter, Cutting Width 1500 mm, Cutting Speed 800 mm/s Operational area – Used for aesthetics of the packaging Link of the user manual – https://drive.google.com/file/d/1QYVTqLGEFbEjm9L74JqjMKLz8D4N_RtZ/view?usp=sharing
4	Transient Thermal Tester, measurement & Characterization of ICs, LEDs	Brand –Sapro Model - Customized Specification – Operational area –Used for creating virtual environment for testing of electric components at higher temperatures Link of the user manual -
5	E Vehicle test and prototyping bench	Brand - Customized Model - Customized Specification -

		Operational area – for testing of EVehicle components Link of the user manual -
6	Semi Automatic Winding Machine	Brand - Sapro Model - Customized Specification - Operational area – Used for motor winding operations Link of the user manual -
7	8 bit & 16 bit Microcontrollers and microprocessor development kits with programmers	Brand –Arduino/ AVR Model –8051, 8085, 8086, LPC 2148 Development Kit Specification –8 bit and 16 bit Operational area – Microcontrollers kits Link of the user manual -

Section		Metalworking Facility
Sr. No.	Equipment Name	Equipment detail
8	CNC Lathe Machine	Brand - Jyoti Model –PX 40 Specification –Automatic Tool Changer, 0-6000 rpm Operational area – Metal Processing Link of the user manual - https://drive.google.com/file/d/1AfbAYYm2fYh6rSkVf5ek1ArAQoNjfTW6/view?usp=sharing
9	CNC Wood Router	Brand –Mehta CNC Model –EX Series 1325 Specification –Bed Size 8X4, Spindle: 3KW, Repeat Location: 0.025 mm Operational area – Fabrication Work i.e. Can be used for fabrication work with wood, plastic and polylactic materials. Link of the user manual - https://drive.google.com/file/d/1XL5QXF-Y3RdzC_5u8HkJ037M3OBLu5Oq/view?usp=sharing
10	Plasma Cutting Machine	Brand –Tech Pro Engineering Co. Model –BEN 1530 Specification –Bed Size 8X4, Operational area –Sheet Cutting for fabrication work Link of the user manual -
11	Laser Engraving Machine	Brand - Grafcut Model –GC-20FB Specification –Laser Power 20 W, Wavelength 1060 nm Operational area –Metal Marking and Engraving Link of the user manual - https://drive.google.com/file/d/1w3wNo40YjphvUGwTaKYe7ua1SMz7UUde/view?usp=sharing
12	Plastic Molding Machine	Brand - JSI Model –NO-JSI-150 Specification –Semi Automatic Operational area – Mass Production of smaller plastic parts. Link of the user manual - https://drive.google.com/file/d/1BFE8oj95B8lcnnnWZf4JoS0nXxLJvd5W/view?usp=sharing

Section		Power Tool
Sr. No.	Equipment Name	Equipment detail

Section		Supply & measuring equipment	
Sr. No.	Equipment Name	Equipment detail	
13	Pulse Generator & Digital Pattern Generator	Brand - Digilent Model - Discovery Specification –2X6 & 2X16 Flywire Assembly Operational area – Development Board, logic Analyser & Patter Generator Link of the user manual - https://drive.google.com/file/d/1N598wYwFQTE1uKBg8JKgXXdBFFdVzDQH/view?usp=sharing	
14	Function Generator	Brand –Scientech Model - 4061 Specification – 3MHz Operational area – Modulation, attenuation and Frequency Counter Link of the user manual - https://drive.google.com/file/d/1UUU67M5rZtjuNwe1WL1gyV0rgqJyI4f2/view?usp=sharing	
15	Variable Power Supply 0-30 V, 5 Amp	-	

Section		Hand tools	
Sr. No.	Equipment Name	Sr. No.	Equipment Name
16	Vice Bench (150 MM)	20	Centre punch (3735-4-120 100 mm Bahco)
17	Screw Driver, flat 200 mm, 4mm Dia 4*6	21	File (Card)
18	Chisel Cold (Octagonal) 200 mm, Taparia	22	Machine vice (100m)
19	Machine Vice (150 m)	23	Micrometer outside 25-50 mm

Section		Measuring Instruments	
Sr. No.	Equipment Name		
24	Bench Top Digital Multimeter Brand –KEYSIGHT 5.5 Model –34450A, S.No. MY59470004 Specification –Measurement speed 190 readings/ s, Accuracy 0.015% for DCV Operational area –Data Analysis and measurement of functions like DC voltage and current, true RMS AC voltage and current, frequency, continuity, diode test, capacitance and temperature. Link of the user manual - https://drive.google.com/file/d/1sID69ZHbscPeGuFMKOlismU5XbuN5ycd/view?usp=sharing		
25	Digital Storage Oscilloscope Brand - RIGOL Model –DS1204B Specification –200 MHz, 4 Channel DSO Operational area – Digital Oscilloscope, intended to be used for measurement performed on circuits not directly connected to MAINS. Link of the user manual - https://drive.google.com/file/d/1Se5q0mvyTmxYZqwi0C1QVHIkbb5rUGu1/view?usp=sharing		

26	<p>Data Logger Brand - RISHABH Model –SI232 Specification –128 kb CMOS with battery backup Operational area – Data Logging, Data Processing, Data Analysis, Data Recording Link of the user manual – https://drive.google.com/file/d/1KRtUAhK7_32aEIFIUxo3wv5SxDhaYxdW/view?usp=sharing</p>
27	<p>Current Probe Brand -METRAVI Model –CA 01 Specification –Range 0-200 A, Output 1A/mV AC Operational area – 200A AC clamp on Adaptor with voltage output via a standard banana plugs to be connected to Multimeter, Power Harmonic Analyzer, Oscilloscopes or other voltage measurement devices. Link of the user manual - https://drive.google.com/file/d/1rJjNY_XvaAiGo9avUiUfD3MRrDSgKL86/view?usp=sharing</p>
28	<p>Analog Discovery 2 Portable Testing Kit Brand - DIGILENT Model –Analog Discovery 2 Specification –Network Analyzer range 1Hz to 10 Mhz Operational area – Multi function instrument that allows users to measure, visualize, generate, record and control mixed signal circuits of all kinds. Link of the user manual - https://drive.google.com/file/d/16vnWA5v70xLLyQ6wkTn_Bw7Ivdv3u6xq/view?usp=sharing</p>

Section			BioLab Facility		
Sr. No.	Equipment Name	Equipment detail			