

(Under the aegis of Mahanadi Education Society)
Approved by AICTE, New Delhi, Affiliated to CSVTU, Bhilai



LIST OF EQUIPMENT AND ITEM DETAILS FOR SETUP AICTE IDEA LAB

Sr. No	Equipment's	Specifications	Qty
1	Dual Nozzle Multi Material 3D printer	Dual-nozzle multi-material 3D Printing Optional 10W/40W Laser and Cutting Module 350*320*325 mm³ Print Volume single & dual 5µm Resolution Optical Motion Calibration Closed-loop Servo Extruder 350°C Nozzle & 65°C Active Chamber Heating Voltage Range: 100-120 V Body Build Volume (W*D*H) Total Volume for Two Nozzles: 350*320*325 mm³ Chassis & Shell Aluminum, Steel, Plastic and Glass Laser Safety Windows Air Assist Pump, Tool head Hotend All Metal Extruder Gear Hardened Steel Nozzle Max Nozzle Temperature 350 °C Included Nozzle Diameter 0.4 mm Supported Nozzle Diameter 0.4 mm Supported Nozzle Diameter 0.2 mm, 0.4 mm, 0.6 mm, 0.8 mm Filament Diameter 1.75 mm Extruder Motor, Permanent Magnet Synchronous Motor Heat bed Supported Build Plate Type Textured PEI Plate, Smooth PEI Plate Max Heat bed Temperature 120 °C Speed Max Speed of Toolhead1000 mm/s Max Acceleration of Toolhead20,000 mm/s² Max Flow for Hotend (Standard Flow Hotend) 40 mm³/s (Test parameters: 250 mm round model with a single outer wall; Max Flow for Hotend (Optional High Flow Hotend) 65 mm³/s (Test parameters: 250 mm round model with a single outer wall; Bambu Lab ABS; 280 °C printing temperature) Chamber Temperature Control Active Chamber Heating Supported Max Temperature65 °C Air Purification Pre-filter Grade G3 HEPA Filter Grade Activated Carbon Filter Type Granulated Coconits Fell Cooling Part Cooling Fan Supported Filament Type PLA, PETG, TPU, PVA, BVOH, ABS, ASA, PC, PA, PET, Carbon/Glass Fiber Reinforced PLA, PETG, PA, PET, PC, ABS, ASA, PPA-CF/GF, PPS, PPS-CF/GF Supported Sensor Live View Camera Built-in; 1920*1080 Nozzle Camera Built-in; 1920*1080 Dor Sensor Supported Filament Tangle Sensor Supported Filament Tangle Sensor Supported Filament Run Out Sensor Supported Filament Run Out Sensor Supported Filament Ageuirements Voltage 200-240 VAC, 50/60 Hz Max Power* 2200 W@220 V	1



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Sr. No	Equipment's	Specifications	Qty
2	CO2 Laser Cutting Machine	Working Area: Min1300x900mm Laser Type: CO2 DC Glass Laser Tube/RF Metal Laser Tube Laser Power: 100W Wave Length: Upto 10.6 Micrometer Speed: 500 mm / second Cutting Speed: 200 mm / second XY Axis: LM Guide Rail or equivalent Cooling: Air/Water Cooling Supply Voltage: 230V/415V Accuracy 0.02 mm Accessories: CO2 Focus Lens: 1 No. Mirror 25mm: 3Nos. Acetone: 1 litre Acrylic sheet: 2Nos Usage/Application Non-Metal such as Acrylic, Soft wood, Paper, Cardboard, Cloth, Leather, Plastic, Rubber, Ceramic	1
3	CNC Router	Working Area: Min1300x2500mm * 250 mm (Z Axis Working Area) : 200oraboveResolution: CNCSpindle: 3.5KW Lathe Structure: Welding Steel Structure or equivalent XYZ Structure: Rack Pinion, Ball Screw Linear Rails Cooling System Industrial Water Pump Max Rapid 32 Meter/ Min Spindle Power 4.5 kW Spindle Speed 0-24000rpm Table: T-Slot/Vacuum Bed/Water Bed Repeatability: ±0.03 Lathe structure Welding – steel structure Working Mode: Stepper Motor/Servo Motor Dust Collector: To be included by Vendor Voltage: AC220V/415V,50/60Hz,3Phase Application Material Cardboard, Acrylic, Saag, MDF, Veneer, PVC, Soft Wood, Foam, Plywood, ACP, Marble, Zinc, Lad, Wood	1
4	Bench Top Drill Machine	Continuous rating input: Max.1HP Motor Capacity: Motor 3 Phase induction A.C. 0.55 KW / 1 HPSteel: Min13 mm (1/2")Wood: Min 24mm (15/16") No Load Speed (RPM): 1400 rpm Maximum distance Chuck to Table 340 mm, Spindle Travel 130 mm Additional Accessories: Bench Vise: 1No., Drill Bit Set10 Pcs: 1 No Drilling Capacity (Steel): 20MMNo. of Spindle Speed 86-154-260-460-617-1100-1880-3360	1
5	Portable Welding Machine	Welding Current (at40°C,10min cycle): 120A @100%, 150A @60%, 200A @35% Supply Voltage: 240V+10%,-15%,1Phase,50/60Hz Open Circuit Voltage: 55VDC±5V Welding Current Range: 15–200Amps DC Insulation Class: F Type Ingress Protection: IP21 Dimensions (L×W×H) with Handle: upto 320×120×195mm Weight (Approx.): 4.3 kg orless	1



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Sr. No	Equipment's	Specifications	Qty
6	PCB Milling Machine	Model: PCBMATE 300W PCB Cabinet Desktop, CPU, Mouse and Keyboard Eureka Forbes Vaccum Cleaner Single Side Copper Clad - 10 No's Double Side Copper Clad - 10 No's Drill Bits - 10 No's Engrave Bits - 10 No's Spring Collecting Chuck Tool Bit Holder PCB Washing Tub - 1 No Machine Operating and G-Code Conversion Software Digital Microscope Endoscope Camera - 1 G-Code Converting Software - Copper CAM (1 user) Machine Operating Software - MACH3 Mill (1 user) Surface Levelling Software - Auto Leveler (1 user) Multipurpose Working Table Solder Masking UV Exposure	1
7	Vinyl Cutter	MODEL: JK 721 Specifications: Max. Plotter Width: 630 mm (JK 721) CPU: Windows 7 (32-bit) Drive Motor: Stepping Motor Max. Plotter Speed: 800 mm/s Cutting Force: 50-500 g Mechanical Resolution: 0.0254 mm/step Blade Type: Super Steel (1.2 mm and 2.0 mm) Display Panel: 8-digit x 2-line LCD Interface: USB Port, Serial Port Measurement: 960 x 350 x 430 mm Buffer Capacity: 1-4 M Power Requirement: 220 V Stand: Included	1
8	Mixed Signal Oscilloscope	Model: SDS 814X-E, SDS-800X-HD-16LA, SLA-1016. Mixed Signal Oscilloscope 100 MHZ 4 Channel 2Gsa/s 12 Bit High resolution 7" Touch screen Display: 100 MHz;4 channels; 2 GSa/s; 50 Mpts memory depth; 500,000 wfm/s waveform capture rate; 7" TFT-LCD with capacitive touch screen (1024*600); SPO technology, 2 Mpts FFT Serial bus triggering and decode (Standard), supports IIC, SPI, UART, RS232, CAN, and LIN: Support MSO, USB AWG Bode Plot: USB WIFI: Optional: SDS800X HD-16LA MSO function (SW) SLA1016 MSO function hardware for SDS1000X-E oscilloscope, 16-channel, 500 MSa/s, 14 Mpts	1





Sr. No	Equipment's	Specifications	Qty
9	Digital Storage Oscilloscope	Model: SDS 812X-HD Digital Storage Oscilloscope 100MHZ 2 Channel 2Gsa/s 12-bit high resolution with 7" inch touch screen display: 100 MHz;2 channels; 2 GSa/s; 50 M memory depth; 500,000 wfm/s waveform capture rate; 7" TFT-LCD with capacitive touch screen (1024*600); SPO technology, 2 Mpts FFT Serial bus triggering and decode (Standard), supports IIC, SPI, UART, RS232, CAN, and LIN; Support MSO, USB AWG Bode Plot: USB WIFI	1
10	Signal Generator	Model: SDG 1062X Dual Channel Function/Arbitrary Waveform Generator 60MHZ: 60MHz; 2 channels; 150MSa/s; wave length: 16Kpts; function/arbitrary waveform output amplitude: 4mV ~ 20Vpp (high impedance); modulation function (AM, DSB-AM, FM, PM, ASK, FSK, PWM, Sweep, Burst); frequency counter function, Easy Pulse technology. Standard interfaces: USB Device, USB Host.	1
11	Mini Desktop Lathe Cum Milling	Model: HQ500 Swing Over Bed: 420 Mm Distance Between Center: 500 Mm /800 Mm Max. Longitudinal Travel: 400 Mm/700 Mm Max. Cross Travel: 195 Mm Spindle Hole: 28 Mm Step Of Spindle Speed: 7 Range Of Spindle Speed: 160-1360 Rpm Barrel Travel: 70 Mm Metric Thread Range: 0.2-6mm Longitudinal Range Of Automatic Feeding: 0.05-0.35 Mm/0.002-0.014 Cross Range Of Automatic Feeding: 0.05-0.35 Mm/0.002-0.014 Step Of Spindle Speed: 16 Range Of Spindle Speed: 120-300 Rpm Swivel Degree Of Headstock: 360 Motor Power: 0.55 Kw	1
12	Digital Multi meter	DIGITAL MULTI-METER mains operated DC Voltage $0.1 \text{ mV} - 1000 \text{ V} \pm (0.5\% + 2)$ AC Voltage $0.1 \text{ mV} - 750 \text{ V} \pm (0.6\% + 5)$ DC Current $0.1 \mu\text{A} - 10 \text{A} \pm (0.8\% + 3)$ AC Current $0.1 \mu\text{A} - 10 \text{A} \pm (1.0\% + 5)$ Resistance $0.1 \Omega - 60 \text{ M}\Omega \pm (0.8\% + 5)$ Temperature $-40 ^{\circ}\text{C} - 1000 ^{\circ}\text{C} \pm (2\% + 5)$ Capacitance $0.001 \text{nF} - 6 \text{mF} \pm (2.5\% + 5)$ Inductance $0.1 \mu\text{H} - 100 \text{H} \pm (2.5\% + 5)$ Frequency $0.1 \text{Hz} - 20 \text{MHz} \pm (0.1\% + 10)$ True-RMS Yes Extra functions duty cycle, continuity test, diode test, hFE, thyristor measurement Power AC $100-240 \text{V} + 50 \text{Hz}$ Display 6000counts AC $100-240 \text{V} + 50 \text{C}$ Refresh rate 3Hz Connectivity USB interface	1



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Sr. No	Equipment's	Specifications	Qty
13	Digital Clamp Meter	True RMS Clamp Meter Jaw Opening 30mm AC current (A) 600A \pm (2.5%+5) AC current frequency response $40{\sim}400$ Hz DC current (A) 600A \pm (2.5%+5) AC voltage (V) 750V \pm (1.2%+5) AC voltage frequency response $40{\sim}400$ Hz DC voltage (V) 1000 V \pm (0.8%+1) Resistance (Ω) 60 M Ω \pm (1%+2) Capacitance (F) 60 mF \pm (4%+5) Frequency (Hz) 10 Hz \sim 1MHz \pm (0.1%+4) Temperature -40 °C \sim 1000°C \pm (2%+5), -40 °F \sim 1832°F \pm (2%+10)	1
14	DC Power supply	60 Volt DC, 5 Amp DC, - Regulation: ±0.05% for no load to full load, - Ripple: Less than 1mV - Power Requirement: 230V AC ± 10%. Display Parameters Display Units: 2 separate displays required for Volatage & Current status visualization Display Type: Seven Segment Display	1
15	Digital Microscope	Specification: Magnification: 1600X Light source: 8 LED lights Resolution: 1920×1080,640*480 Pixel: 30W Focal length: 3-40mmmanual adjustment Support Android 4.2 or above/widows/Macsystem	1
16	Hand Drill Machine	Rated Input Power: Approximately 550W or above maximum power consumption. Bit Holder: Standard1/2"-20UNF thread type. No-Load Speed(1st Gear): Adjustable from upto approximately 3,300 rpm. Power Output: Approximately 300W continuous output power. Weight: Approximately 1.7 kg total device weight. Rated Torque: Approximately 1.4 Nm maximum torque output. Drill Spindle Connecting Thread: Standard 1/2"-20UNF thread. Chuck Capacity(Min/Max): Approximately 1.5 mm minimum to 10mm maximum.	1
17	Cordless Drill	Voltage: 20V No-load speed: 0-400/0-1500/min Max. torque: 45NM Chuck capacity: 0.8-10mm Torque settings: 15+1 Mechanical 2-speed gear 20V Lithium-Ion 2.0Ah batteries With 2pcs P20S 2.0Ah battery pack With 1pcs fast intelligent charger Charge volts: 220V-240V~50/60Hz Integrated work light LED battery power indicator	1





Sr. No	Equipment's	Specifications	Qty
18	Jig Saw	Rated Input Power: Approximately 500W maximum power consumption. Voltage, Electrical: Nominal 230V AC supply. Saw Stroke Length: Approximately 20mmstrokelength. Stroke Rateat No Load: Adjustable within approximately 800 to 3,100s pm (strokes per minute). Weight: Approximately 2.08kg total weight. Bevel Angle: Adjustable within approximately -45°to45°range.	1
19	Hot air gun	Rated Input Power: Approximately 1,800W maximum power consumption. Voltage, Electrical: Nominal 230V AC supply. Weight: Approximately 0.75kg. Working Temperature Range: Adjustable within approximately 60°C to 550 °C. Heat-Up Time: Approximately 1 second to reach target temperature. Air flow: Adjustable within approximately 350 to 550 liters per minute. Air flow Control: Threes electable air flow settings.	2
20	Bench Grinder	Grinding wheel diameter: min 150 mm Rated input power: 350 W or more Grinding wheel widths: 20mm or more No-load speed: upto 3,000 rpm Grinding wheel bore: 20mm/2cm Grit24,60 or more Weight: 10kg or less	1
21	Angle Grinder	Voltage: 20V No-load speed: 8500/min Disc diameter: 100mm Spindle thread: M10 With 1pcs abrasive grinding disc with Battery	1
22	Straight Grinder	Rated Input Power: Max 300W power consumption. No-Load Speed: Upto 28,000 rpm. Voltage, Electrical: Nominal230V AC supply. Spindle Collar Diameter: Approximately 41mm. Weight: Around 1.4kg. Maximum Grinding Tool Diameter: Upto 25mm. Maximum Collet Diameter: Upto 8mm. Switch: Lock able switch for enhanced safety.	1
23	Circular Saw	Rated Input Power: Approximately 1,400W maximum consumption. Saw Blade Diameter: Nominal 184 mm diameter. Saw Blade Bore Diameter: About 20mm standard bore size. Guide Rail Compatibility: Not compatible with guiderails. No-Load Speed: Typically5,200rpm.Weight: Around4.1 kg	1
24	Blower	Rated Input Power: Max 650W power consumption. Weight: Approximately 1.7kg. Voltage, Electrical: Nominal 230V AC supply. Sound Pressure Level: Around 103 dB (A). Sound Power Level: Approximately 95 dB (A). Uncertainty (K): Within±3 dB	1





Sr. No	Equipment's	Specifications	Qty
25	Cordless Screw Driver	Battery Capacity: Around 1.5Ah nominal capacity. Torque (Soft/Hard/Max): Approximately 14Nm/30Nm/Maximum not specified. No-Load Speed(1stGear/2ndGear): Rangesfrom0up to400rpm and 0 up to 1,500 rpm respectively. Battery Type: Recharge able Lithium-Ion battery. Chuck Capacity (Min/Max): From approximately 0.8 mm upto10mm. Weight (Excluding Battery): About 0.8kg. Torque Settings: 20 plus1 adjustable settings.	1
26	Cordless Vacuum Cleaner with Starter kit	Battery Voltage: Rate dat approximately 18.0V nominal voltage. Weight Excluding Battery: Around 1.3 kg without battery attached. Container Volume: Approximately 0.7 liters net capacity. Filter Surface Area: Roughly 55cm² filtration surface. Maximum Airflow Rate(Turbine): Upto10liters per second. Maximum Vacuum Pressure(Turbine): Not exceeding 60mbarunder standard conditions. Operating Time (18VBattery): Typically 7 minutes per Ah of battery capacity.	1
27	Rotary Tool Kit	Rated Power Input: Approximately 175W within nominal voltage range. Voltage: Operates within 220 to240V AC supply. Weight: Around0.66kg total mass. Length: Approximately 24cm overall length. Width: About 4.1cm nominal width. Depth: Roughly 4.3cm depth dimension. No-Load Speed: Variable speed ranging from5,000 upto 35,000rpm. Battery Technology: Not applicable(n.a.). Speed Setting: Fully variable speed control as required. Accessory Quick Change System: Equipped with multi chuck for rapid accessory interchange. Vibration Level: Approximately 18m/s²measuredvibration	1
28	Rubber Grip Hacksaw	Depth of Throat: Approximately 98mm(3.85 inches) nominal depth. Blade Length: Around 254 mm(10 inches) standard length.	2
29	TACHOMETER	Digital Laser Photo Rpm Tachometer Non-Contact Measurement Tool Measures The Rpm Of Any Rotational Part Features: Display: Large 5 Digit, 18mm Lcd. Test Select: Automatic. Range: 2. 5 To 99, 999 Rpm Resolution: 0. 1 Rpm (From 2. 5 To 999. 9 Rpm) 1 Rpm (Over 1, 000 Rpm) Accuracy: +/-(0. 05 Percent +1 Digit) Distance: 50 To 500mm/ 2 To 20 Inch Memory: Last Value. Max Value. Min Rpm Powered By 1 X Battery 9v (Including For You) Size: 130x70x29mm Weight: About 160g Package Includes: 1 X Dt2234c+ Professional Digital Tachometer 3 X Approx 20cm Of Reflective Stripes (Make Rotation Measure Data More Accurate) 1 X 9v Battery 1 X Carrying Cover Case 1 X English User Manual	1
30	SMD REWORK STATION	Hot air temperature 100-480°C Input voltage AC230V/50HZ Spray gun power consumption 560W Handle length 19.6cm Console display mode Smart LCD screen Hot air volume 23L/Min Auto protection for heating material, which adopts Pulse Heating for better protection Temperature and airflow volume controlled by handle and station both.	1





Sr. No	Equipment's	Specifications	Qty
31	Soldering Station	TEMP RANGE - 200 DEGC - 450 DEG 60W High temperature stability Short-circuit protection of heating element, protection of sensor abnormality EASY REPLACEABLE BITS	2
32	Hack saw Mini	Blade Length: Approximately 10inches nominal length. Handle Material: Constructed from metal as standard. overall Length: Around11inchestotallength.	2
33	Claw Hammer Steel Shaft	Weight: Approximately 8oz(220grams) nominal weight. Dimensions: Around27.8cm×12.4cm×3.6cm(L×W×H) overall size	2
34	Ball Pein Hammer	Weight: Approximately 110grams nominal weight. Dimensions: Around32.6cm×10cm×2cm(L×W×H)over all measurements.	2
35	Rubber mallet	Weight: Approximately 450grams nominal weight. Dimensions: Around 33.6cm×9.6cm×6.2cm(L×W×H) overall size.	2
36	Ring spanner set 12 Pcs	Weight: 3.08Kg nominal weight. Quantity: 12pcs per set. Size: 6mm to 32mm overall range.	1
37	Open end spanner set 12Pcs	Weight: Approx 1.74Kg nom.wt. Qty: 12pcs/set. Size: 6mm-32mm overall dims.	1
38	Allen key set 10pcs	Hex Key Size: 1.5,2,2.5,3,4,5,5.5,6,8,10mm; Qty: 10pcs/set	2
39	Allenkeyset12pcs	BallKeySize:1/16",5/64",3/32",7/64",1/8",9/64",>5/32",3/16",7/32",1/4",5/1 6",3/8" Qty:12pcs/set	2
40	Combination plier	Weight: Approx 422gnom.wt. Size:8"/200mm nominal	2
41	Long noseplier	Weight: Approx 399g nom.wt. Size:180mm/6"nominal	2
42	Circ lip straight5"	Weight: Approx 399g nom.wt. Size:130mm/5"nominal	2
43	Circ lip bent	"Weight: Approx 399g nom. wt. Size: 130mm/5""nominal"	2
44	Diagonal Cutter	"Weight: Approx 239g nom. wt. Size: 180mm nominal"	2
45	Wire Stripper	Weight: Approx 281g nom. wt. Size: 130mm	2
46	Adjustable spanner	Size: Upto 150mm	2
47	Pipe wrench	Size: Max 300mm	2
48	C-clamp	Size: Upto 75mm	4
49	C-clamp	Size: Upto 150mm	4
50	Snap-off Knife	Size: 18mmm	2
51	16 pcs screw driver set	Pieces Per Set: 16pcs	1





Sr. No	Equipment's	Specifications	Qty
52	6 pcs precision screw driver set	Pieces Per Set: 16pcs	2
53	Max steels nip cutter	Length: 250mm	2
54	PVC Pipe cutter	Length: 42mm	2
55	Hot Glue Gun	Glue Gun 150w With Brass Nozzle. & Temperature Variable From 100 To 220 Degrees with Glue Stick Transparent – 50, Yellow – 50 & white- 50 Nos.	4
56	Small file set	Length: 160mm	2
57	Big file set	Length: 200mm	2
58	Chisel set	Weight: 340gm	2
59	Punch set	Weight: 390gm	2
60	Bench wise	Base Type: Fixed Size: 2–3½"nominalJawWidth: 60mm	2
61	Router Bit Starter Kit	Pieces Per Set: 15pcs	1
62	Drill bit set	WAF(mm): 1,1.5,2,2.5,3,3.5,4,4.5,5,5.5,6,6.5,7, 7.5,8,8.5,9,9.5,10,10.5,11,11.5,12,12.5,13 Wt: ~1.3Kg nom.wtSz(mm): 205×115×55 overall	2
63	Baby wise	Vice Type: Bench Size: 2"nominal Jaw Width: 50mm	2
64	Ratchet Set	Vice Type: Bench Sz: 2"nominal;Jaw: 50mm	2
65	Pegboard		2
66	Digital Vernier Caliper	Product Type: Digital Calliper Meas. Range: 0–150mm/0–6"Resolution: 0.01mm	2
67	Micrometer	Resolution: 0.001mm/0.00005"Meas.Range: 0–25mm/0–1"	1
68	Steel Rule 300mm	Product Type: Steel Rule Scale Size: 12"/300mm Material: Stainless Steel	5
69	Steel Rule 600mm	Product Type: Steel Rule Scale Size: 24"/600mm Material: Stainless Steel	5
70	Engineering Square	Size: 150×80mm nominal Material: Carbon Steel	2
71	Meter Tape 30m	Length: 30m	1





Sr. No	Equipment's	Specifications	
72	MeasuringTape3M	Length: 3m	
73	MeasuringTape5M	Length: 5m	
74	Spirit Level	Vials: 3Accuracy: 0.5mm/mLength: 300mmProductType: Level	3
75	Goggle	Goggle-Industrial Standard Make	5
76	Apron	Apron-Standard Make	5
77	Ear Muff	Earmuff– Industrial Standard Make	5
78	Mask	Mask– Industrial Standard Make	50
79	Fire Extinguisher	Fire Extinguisher–Industrial Standard Make	6
80	First Aid Kit	First Aid Kit– Industrial Standard Make	2
81	Gloves Pair	Gloves- Industrial Standard Make	10
82	AcrylicSheet3m m,4ftx4ft		20
83	Acrylic Sheet 4mm, 4ftx4ft		20
84	Acrylic Sheet 5mm, 4ftx4ft		20
85	Foam Sheet 8mm, 4ftx4ft	Sun board	2
86	Foam Sheet 10mm, 4ftx4ft	Styrofoam	1
87	Foam Sheet 12mm, 4ftx4ft	Depron forex	1
88	Foam Sheet 15mm, 4ftx4ft		1
89	Ply Board 5mm, 2ftx4ft		12
90	Nuts (3mm, 4mm, 5mm, 6mm, 8mm, 10mm,) Pack of 100 8mm 10 mm 50		1
91	Nylon Rod 10mm,1m		5



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Sr. No	Equipment's	Specifications	Qty
92	Bolts(3mm,4mm,5mm,6 mm,8mm,10mm,12mm) dia1"Inch Pack of 100		1
93	Screws(3mm,4mm ,5mm) Packof100		1
94	Washers(3mm,4mm,5 mm,6mm,8mm,10mm, 12mm)Packof100		1
95	Studs(6mm,8mm) 1Meter		2
96	Nails(1",2",3",1.5",5") Packof100	Very Good Quality	1
97	Fevicol 2Kg	Very Good Quality	1
98	2 Way Tape	Very Good Quality	10
99	PVC Pipe .75",10ft	Very Good Quality	10
100	PVC Pipe 1",10ft	Very Good Quality	10
101	PVC Pipe 1.5",10ft	Very Good Quality	10
102	PVC Pipe 2.0",10ft	Very Good Quality	10
103	Aluminium channels (L,C, Box, strip length12ft)	Very Good Quality	2
104	PCB Drill Bit 0.4mm	Very Good Quality	10
105	PCB Drill Bit 0.8mm	Very Good Quality	10
106	PCB Drill Bit 1mm	Very Good Quality	10
107	Drill Bit 4mm	Very Good Quality	5
108	Drill Bit 5mm	Very Good Quality	5
109	Drill Bit 6mm	Very Good Quality	5
110	Drill Bit 8mm	Very Good Quality	2
111	Drill Bit 10mm	Very Good Quality	2





S.No.	ITEM	QTY
112	SENSOR KIT	
	ULTRASONIC SENSOR	2
	PIR SENSOR	2
	MPU6050 SENSOR	2
	LDR SENSOR	2
	DHT11 SENSOR	2
	DHT22 SENSOR	2
	VIBRATION SENSOR	2
	IR SENSOR ARRAY	2
	MQ-2	2
	MQ-3	2
	MQ-135	2
	MQ-7	2
	MQ-4	2
	TOUCH SENSOR	5
	IR SENSOR MODULE	3
	LASER MODULE	3
	SOIL MOISTURE SENSOR	3
	BUZZER MODULE	3
	SOUND SENSOR MODULE	2
	PEIZO ELECTRIC DISC	5
	CURRENT SENSOR MODULE	2
	VOLTAGE SENSOR MODULE	2
	JOY STICK MODULE	2
	RAIN DROP SENSOR MODULE	3
	FORCE SENSOR	1
	FLEX SENSOR 2.2 INCH	1
	RFID SENSOR RC522 MODULE	3
	TEMPERATURE SENSOR DS1820 PROBE	3
	WATER FLOW SENSOR	2
	FLOAT SENSOR	2
	COLOR SENSOR	2
	MATRIX KEY PAD	2
	GSM MODULE - SIM800C WITH BUILT IN REGULATOR	2
	GPS MODULE NEO 6M	2
	BLUETOOTH MODULE HC-05	3
	RELAY MODULE 1 CHANNEL	2
	RELAY MODULE 2 CHANNEL	2
	RELAY MODULE 4 CHANNEL	2
	NEEM MODULE T GIRINNEL	





S.No.	ITEM	
113	BOARDS	
	ARDUINO UNO R3 - DIP VERSION WITH CABLE	5
	ARDUINO UNO R4 WITH CABLE	2
	ARDUINO NANO WITH CABLE	5
	ARDUINO MEGA WITH CABLE	2
	ESP8266 NodeMCU WITH CABLE	3
	ESP32 Development Board WITH CABLE	2
	ESP32 CAM WITH DOCK	2
	RASPBERRY PI 5 - 4GB WITH ALL ACCESSORIES (Memory card, case, cable & power supply)	1
	RASPBERRY PI 5 - 8GB WITH ALL ACCESSORIES (Memory card, case, cable & power supply)	1
	RASPBERRY CAMERA MODULE -3	1
	SOLDER WIRE 40GRM	5
	SOLDER FLUX	5
	SOLDERING IRON 25W WITH STAND	5
	DESOLDER PUMP (With built in Iron & Pump)	1
	830 POINTS SOLDERLESS BREADBOARD	5
	400 POINTS SOLDERLESS BREADBOARD	5
	COPPER CLAD BOARD SINGLE SIDE 4*6	5
	ZERO BOARD SINGLE SIDE 4*6	5
114	WIRE SET - ASSORTED	
	MALE TO MALE BREADBOARD JUMPER	10
	FEMALE TO FEMALE BREADBOARD JUMPER	10
	MALE TO FEMALE BREADBOARD JUMPER	10
	HOOK UP WIRE - PACKET	2
	FLEXIBLE WIRE PACKET	3
115	DISCRETE COMPONENT SET	
115	RESISTOR SET 1/4 W	
	100E, 220E, 330E, 470E,1K, 10K - 50 EACH	1
		1
	2.2K, 4.7K, 5.6K, 22K, 47K, 56K, 100K, 220K, 470K, 1M, 10M - 20 EACH	1
	CAPACITORS	
	PAPER CAPACITOR - PF BOX	2
	ASSORTED ELECTROLYTIC CAPACITOR (1,2.2, 3.3,4.7,10, 47, 100, 220,470, 1000uF)	1
	2200uF & 4700uF - 5 EACH	1
	MIX DIODE SET - IN4007 & ZENER 4148 - 20 EACH	1
	LED - ASSORTED 5MM - 5 COLORS 50 EACH	1
	LED TRI COLOR - 4 PIN	20
116	POWER SUPPPLYS	
110	LI-ON BATTERY SET OF 20 - 18650 2500mAH	1
	LI-ON 11.1V BATTERY PACK	1





S.No.	ITEM	QTY
	LI-ON 7.4V BATTERY PACK	1
	LI-ON BATTERY CHARGER 4 CELL	1
	LI-ON BATTERY CHARGER 2 CELL	1
	SMPS ADAPTER 12V/1A	2
	SMPS ADAPTER 12V/2A	2
	SMPS ADAPTER 5V/1A	2
	SMPS ADAPTER 5V/2A	2
	SMPS ADAPTER 12V/10A	1
	BUCK CONVERTER - LM2596	3
	BOOST CONVERTER - XL6009	3
117	ROBOTICS	
117	ROBOTICS ROBOTIC DIY KIT - 4 WD CHASIS SET	2
	ROBOTIC DIY KIT - 4 WD CHASIS SET	2
	ROBOTIC MOTORS - BO SET OF 20	1
	ROBOTIC WHEELS - BO SET OF 20	1
	STEPPER MOTOR WITH DRIVER BOARD	2
	SERVO MOTOR 360 ROTATION	3
	SERVO MOTOR 180 ROTATION	5
	SERVO MOTOR SG90	10
	SERVO MOTOR MG90	5
	CASTOR WHEEL	5
	GIOTOR WILLED	J
118	DISPLAY MODULE	
	LCD 16*2 WITH I2C	5
	OLED 0.96	5
440	TOOLS	
119	STRIPPER - PYE/EASTMAN/ TAPARIA	2
	NIPPER	3
	NOSE PLIER	2
	2-IN1 SCREW DRIVER	2
	SMOKE ABSORBER	3
	MAGNIFIER - 5X WITH STAND / TABLE CLAMP - Lighting: 22W LED Lens	1
	Diameter: 12.7mm	1
	SILICONE MAT 450 MM X 300 MM	2
	CUTTTING MAT A3 SIZE	2
	ESD WRIST MAT WITH WRIST BAND	2
	PCB HOLDER	2
	ASSORTED SET OF M3 FASTER - HEX NUT & BOLTS	1
	COMPONENT ORGANIZER BOX WITH 39 DRAWERS	2