

SPECIFICATIONS FOR ATL

(A) Robot Accessories & Kits			
SR.NO.	NAME OF THE ITEM	A/U	TOTAL QTY
1	Robotics Advanced Kit	50+ parts including metal parts, motors, wheels, remote control, gears, nuts & bolts, allen key, cables	4
2	Biped Autonomous Robot	Its a 3D printed autonomous Dancing robot, which can be programmed to dance on different music.	4
3	Trashbot	Its a 3D printed Hungary robot, which can be programmed to eat anything which we put in its tray.	4
4	Robotic Arm	3D printed robotic arm which can be programmed to pick and place the things.	1
5	Robotics 2 Wheel Chassis	This is used to make a base of a robotics project	25
6	Castor Wheels	Provides free wheel movement to the Robot	25
7	Double shaft DC Gear Robotic Motors	200 RPM Motors with a in-built feedback mechanism	50
8	Robot Wheels	These wheels double up as pulleys and have in-built tread to provide requisite friction	50
9	4 Wheel Robot Set	This is used to make a robot with 4 motors	5
10	Arduino UNO with USB Cable	It is a microcontroller based Open Source Development Board that can be used to control motors and take inputs from sensors	25
11	Arduino NANO with USB Cable	It is a mini microcontroller based Open Source Development Board	10
12	Nano Expansion Board	Used with arduino nano for making circuit connections	6
13	Mini Breadboards	Solderless Board	30
14	L293D Motor modules	Modules module is used to drive the robot motors	30
15	L298 Motor Module	Modules module is used to drive the robot motors	10

16	IR Sensors	Infra Red Sensors can be used to measure distance and color of an approaching object. Used to make Line follower robots, touch me not and follow me not robot.	50
17	Ultrasonic Sensors	Uses the concepts of SONAR to identify distances from any object. Can be used to detect the object in front of it.	30
18	Bluetooth Sensors	Can be used to control robot with Android phone.	10
19	Light Sensor Modules	Can be used to control robot with the light source	20
20	Sound Sensor Modules	Can be used to control robot with sound source	20
21	Capacitive Touch Switch	A capacitive switch is a type of touch-controlled electrical switch that operates by measuring change in capacitance	15
22	Relay Module	5v Relay module to control devices	10
23	Connecting Wires	Connecting wires to make a connection	100
24	Adaptors	Adaptors for giving a power to the robot	8
25	1.5 V Duracell	For giving a power	40
26	9 V Batteries	For giving a power	100
27	Connecting Wire Roll	Can be used to attach the circuit	2
28	Hot Glue Guns	Electronics	5
29	Glue gun sticks	Electronics	80
30	Rechargeable Cells with charger	Electronics	8
31	Rechargeable Battery with charger 9v	Electronics	8
32	Servo Motors	It is used to achieve the desired angle which is required in robots.	20

(B) 3D PRINTERS			
SR.NO.	NAME OF THE ITEM	A/U	TOTAL QTY
1	3D printer with build volume of 150 mm x 150 mm x 150 mm	3D printer to build various prototypes, various shapes and models as per requirement	1
2	3D printer Filament	PLA filament of various colors	3
3	Scissors	Scissor for cutting purpose	2
4	Mechanical Tools	Mechanical tools required in 3D printer	1

(C) Space Technology			
SR.NO.	NAME OF THE ITEM	A/U	TOTAL QTY
1	Rocketry Kits	Amateur Rocket to have a real time rocket experience	4
2	Launch Equipme	Launcher & Ignition system	1
3	Hydro Rocket	Complete set of hydro rocketry tools to make a real hydrorocket and to understad the concept of the rocket	2
4	Newtonian Reflector Telescope	125mm / 1000mm reflector telescope to study the deep space objects like moon, planets, galaxies etc.	1
5	Telescope Eye pieces	10mm, 25mm Eye piece for telescope	1
6	Barlow	used for magnification	1
7	Astronomy Green Beam Light	Used to indicate space objects	1
8	Satellite kits	Kits for satellite prototyping	3
9	Asteroid Hunting Software	Software to search asteroid with licensed key	5

(D) DRONES			
SR.NO.	NAME OF THE ITEM	AU	TOTAL QTY
1	Drones	Drones under the weight of 1 KG	1
2	RC Plane Material Frames	Different frames of different size and different shapes	10
3	RC Plane Material	Motors to control	5
4	RC Plane Material	Transmitter & Receiver	1
5	RC Plane Material	Propellor fans	15
6	RC Plane Material	Motors	5
7	RC Plane Material	Mechanical Tools	1
8	RC Plane Material	LIPO Battery - 1000 mah	2
9	RC Plane Material	Charger	1

(E) Electronics Material			
SR.NO.	NAME OF THE ITEM	AU	TOTAL QTY
1	LEDs	Multicolor LEDs	1500
2	RGB Led	Multiple color in same LED	50
3	Resistors	7 Different value resistors - each 100	700
4	Battery Cap	Battery Connectors	300
5	Breadboards	400 holes Breadboard	40
6	Connecting Wire	Wire rolls	2
7	Potentiometer	Variable Resistors of two values - 50 each	100
8	Different ICS	ICS - 555, UM66, LM358	60
9	Reed Switch	Magnetic Sensors	20
10	Light Sensors	Light Sensors	40
11	Switches	Switches	100
12	Transistors	Transistors - BC547, BC548, 2N3904	100

13	Voltage Regulator	7805 Regulator	25
14	TSOP IR Receiver	Used to connect with IR Transmitter	10
15	7 Segment 1 Digital	Used to display numbers	20
16	Capacitors	Pack of different value capacitors	90
17	Microphone	Used in circuit where any sound needs to be detected	10
18	DC Motor	Small dc motor	50
19	Propeller Fan	Used in circuit with dc motor	50
20	DC Pin	Used with battery cap to power up devices	50
21	Mini Water Pump	It is required in circuit where any liquid or water needs to pump	5
22	Gas Sensor	Used in the gas detection systems	5
23	Soil Sensor	Used to check the moisture in soil	5
24	Water Level Sensor	Used to measure the level of water in a container	5
25	Flame Sensor Module	Used to detect the flame	5
26	DHT11 Sensor	Used to measure humidity and temperature sensor	10
27	BMP180 Sensor	Used to measure temperature, altitude	5
28	RF 433 Mhz Module	Used in rf transmission	5
29	Remote	to control IR projects	5
30	Mini Buzzer	used to generate sounds	30
31	Big Buzzer	used to generate sounds	30
32	Vibrator Motor	Used to vibrate the motor	20
33	Smartcircuits BREADBOARD Projects kit	90+ Circuit DIY Kit with manuals	1

(F) Soldering Station Material			
SR.NO.	NAME OF THE ITEM	AU	TOTAL QTY
1	Soldering stand with holder & lens	Electronics	3
2	Soldering Iron	Electronics	10
3	Soldering Iron Normal Stand	Electronics	7
3	Solder Wire	Electronics	5
4	Solder Paste	Electronics	5
5	Multimeter	Electronics	3
6	General purpose board	Electronics	50

(G) IoT - Internet of Things			
SR.NO.	NAME OF THE ITEM	AU	TOTAL QTY
1	DIY IOT kits	40+ Parts including programmable board, USB cable, jumper cables, crocodile connector, breadboard, resistors, battery, leds, servo motors and many sensors	2
2	Home Automation Kit	do-it-yourself Internet of Things (IOT) kit through which you can switch ON/OFF all home appliances via the app you build on your phone.	2

(H) Artificial Intelligence Kits			
SR.NO.	NAME OF THE ITEM	AU	TOTAL QTY
1	AI DIY Kits	Learn Artificial Intelligence, Coding and Robotics with engaging hands-on experience.	3
2	VR Kit	Virtual Reality Head Set	2

(I) App Development, Web Development & Game Development			
SR.NO.	NAME OF THE ITEM	AU	TOTAL QTY
1	Software for App Development	Different softwares for learning the App development which can be compatible with either Android or Apple store	1
2	Game Development	Game development app or software to lean the Game development	1
3	Web Development	Provide various softwares or platforms for Web Development	1

(J) Wood & Carpentry			
SR.NO.	NAME OF THE ITEM	AU	TOTAL QTY
1	Bamboos	Bamboos for making different projects	15
2	Connecting wires	Connecting Wires	15
3	Electronics Plate	LED plate for lights	20
4	Warnish	Warnish for polishing	1
5	Fevicol	For pasting material	2
6	Sand papers	For rubbing	10
7	Iron Nails	Different size	1
8	Hand Drill	Hand drill	1

(K) Mechanical Tools			
SR.NO.	NAME OF THE ITEM	A/U	TOTAL QTY
1	Hacksaw Big	Hacksaw	2
2	Hacksaw Big Blades	Blades	10
3	Hacksaw Small	Hacksaw Small	2
4	Hacksaw Small Blades	Blades	10
5	Pliers	Pliers	1
6	Nose Plier	Pliers	1

7	Wire cutting strippers	Wire cutters	3
8	Screw Drivers small	Screw Drivers	20
9	Screw Driver Big	Screw Driver	2
10	Cutters	Mechanical Tools	2
11	Allen Key Set	Mechanical Tools	1
12	Rubber Mallet	Mechanical Tools	1
13	Hammer	Mechanical Tools	2
14	Big Ruler	Mechanical Tools	2
15	Spannel Set	Mechanical Tools	1
16	Screw Driver Set	Mechanical Tools	1

(L) Flex & Posters

SR.NO.	NAME OF THE ITEM	A/U	TOTAL QTY
1	Flexes for Walls	Different Flexes for walls	6
2	Naming Labels	Labels	8
3	Wall Stickers	Wall Stickers	5

(M) Furniture

SR.NO.	NAME OF THE ITEM	A/U	TOTAL QTY
1	Side Tables	Table set for students	6
2	Chairs	Chairs for sitting	30
3	Center Tables	Tables for students	4
4	Computer Table	Table for computer	5

