

## Curriculum

Grade I & II

#	Topic	Description	Projects	No. of Sessions
1	3D Pen	3D Pens are pens that extrude plastic filament instead of regular ink. With 3D Pen kids of all ages can make 3D Objects simply by drawing them.	Introduction to 3D Pen 3D Pen Art Techniques Making 3D Objects like spectacles, butterfly, super hero masks, etc., with help of templates	4
2	Coding	This programming course lets kids get ahead with coding using the popular Scratch platform.	The classes start off with an introduction to Scratch's visual coding environment, learning about the key areas of branching and iteration plus variables and game logic.  Child will then learn how to use engaging virtual projects to create fun, interactive and animated applications and games.	6
3	Paper Circuits	Kids will discover everything about electric circuit. Paper circuits are easy way to learn about electrical circuitry. They are simple and easy to build on and make artistic. LEDs can be eyes for a bird, or twinkling stars in a night sky, or Carnival Lights for games and entertainment.	Child designs and constructs simple circuits like Single LED Glowing, Multiple LED Glowing This can be used to make Seasonal Greeting Cards, Wrist Bands..etc.  Introduction to conductors and non-conductors. Designing I AM A CONDUCTOR Circuit.	4
4	Robotics	This will introduce kids to the world of Robotics. They will be make simple wired robots and see them in action.	Child will construct robots like Monster Bot, Table Cleaner Bot, Scribble Bot etc.	11

## Curriculum

Grade III & IV

#	Topic	Description	Projects	No. of Sessions
1	3D Pen	3D Pens are pens that extrude plastic filament instead of regular ink. With 3D Pen kids of all ages can make 3D Objects simply by drawing them.	Introduction to 3D Pen 3D Pen Art Techniques Making 3D Objects like Eiffel Tower, Cycle, Pen Stand, etc.	4
2	Coding	This programming course lets kids get ahead with coding using the popular Scratch platform.	The classes start off with an introduction to Scratch's visual coding environment, learning about the key areas of branching and iteration plus variables and game logic.  Child will then learn how to use engaging virtual projects to create fun, interactive and animated applications and games.	6
3	Paper Circuits	Kids will discover everything about electric circuit. Paper circuits are easy way to learn about electrical circuitry. They are simple and easy to build on and make artistic. LEDs can be eyes for a bird, or twinkling stars in a night sky, or Carnival Lights for games and entertainment.	Child designs and constructs simple circuits like Single LED Glowing, Multiple LED Glowing This can be used to make Seasonal Greeting Cards, Wrist Bands...etc.  Introduction to conductors and non-conductors. Designing I AM A CONDUCTOR Circuit.	6
4	Robotics	This will introduce kids to the world of Robotics. They will be make simple wired robots and see them in action.	Child will construct robots like Monster Bot, Table Cleaner Bot, Scribble Bot etc.	11

**Curriculum**

Grade V & IX

#	Topic	Description	Projects	No. of Sessions
1	Robotics – Sensor Based	This will introduce kids to world of Robots that work with sensors. They will use different sensors like Infrared Sensor, Ultrasonic Sensor, LDR Sensor to make innovative projects	<ul style="list-style-type: none"> <li>• Obstacle Detector Robot</li> <li>• Light Sensing Robot</li> <li>• Edge Detector Robot</li> <li>• Wall Hugging Robot</li> </ul>	15
2	3D Designing	This will introduce kids to 2D and 3D Designing. They will learn to make 3D Objects on CAD based software	<ul style="list-style-type: none"> <li>• Designing 3D Shapes like Cube, Cylinder, Cone</li> <li>• Designing Cup or similar objects in 3D</li> </ul>	5
3	Basic Electronics	This will introduce kids to world of electronics. They will learn about resistors, capacitors etc. They will learn to build circuits on breadboard and test them	<ul style="list-style-type: none"> <li>• LED Glowing</li> <li>• Water Level Indicator</li> <li>• Automatic Street Light</li> </ul>	5