

## 3D Printing Educational Kit

### Middle School Education

✔ Class : 6th to 8th grade

✔ Age group : 11 - 14 years

The 3D Printing Middle School kit is first of its kind in India. 3D Printing is a great way for schools to really engage their students in the learning process and offer advanced possibilities for a variety of disciplines. Every school would need to integrate 3D Printing to prepare next generation for their future careers.

# 3D PRINTING REVOLUTIONISING *the* CLASSROOM

Biology students can study cross-sections of hearts or other organs.



Design and Engineering students can make prototypes of their creations.



3D Printing has caught the attention of educators who are looking into ways to incorporate it into the classroom.

Using 3D Printers in the classroom could mean:

Chemistry students can print out complex molecules to study.



Architectural students can print new or existing designs.



Engineering students can print modified car or robot parts.



History classes can print artifacts for closer examination



Geography students can print out topography, population or demographics of an area.



Graphic design students can create prototypes of product designs



Food Technology students can design molds and cookie cutter templates



**“ 20 years back computers were introduced in schools and now 3D printing technology is ushering in schools and colleges around the world.”**



The 3D Printing Middle School Program is first of its kind in the arena of creativity and computerized manufacturing techniques. 3D printers are a great way for schools to really engage their students in the learning process and offer many advanced possibilities in schools for a variety of disciplines. Every school would need to integrate 3D printing to prepare next generation for their future careers.

### 3D Printing School Kit is designed to enhance :

- ✓ Creativity and technical skills
- ✓ 3D printing concept
- ✓ Model designing
- ✓ Basics of computer aided designing
- ✓ Real world objects creation
- ✓ Machines and motor skills
- ✓ Mechanical & Molding technique
- ✓ Rapid prototyping technique
- ✓ Adoption of new technology

*It helps them vision an object and try to recreate it using 3D printers. Give students the chance to embark on an adventurous journey of the digital world. They learn how to re-create an imaginary object into actual piece which they can relish everyday. They turn from spectators to creators.*

### 3D Printing benefits for students :

- ✓ Enhance learning and student brain development.
- ✓ Encourage creativity at SLP stage (student learning phase)
- ✓ Feeling of creation, foster student's personality
- ✓ Improve interest in Art and design aesthetics and motor skills.
- ✓ Cognitive improvement (such as thinking, understanding, learning and remembering)
- ✓ Learn product design & development, 3d printing technology, software technique
- ✓ Create a launch pad for the future for your students for an industry that is growing at the rate of 45.7%

### 3D Printing School Kit includes :

- ✓ 3D Printer
- ✓ 3D Pen
- ✓ Filament roll
- ✓ Student Educational Training Course
- ✓ Teacher Training Workshop
- ✓ Professional Support
- ✓ Designs Template
- ✓ Software in USB key
- ✓ Online Drive Subscription