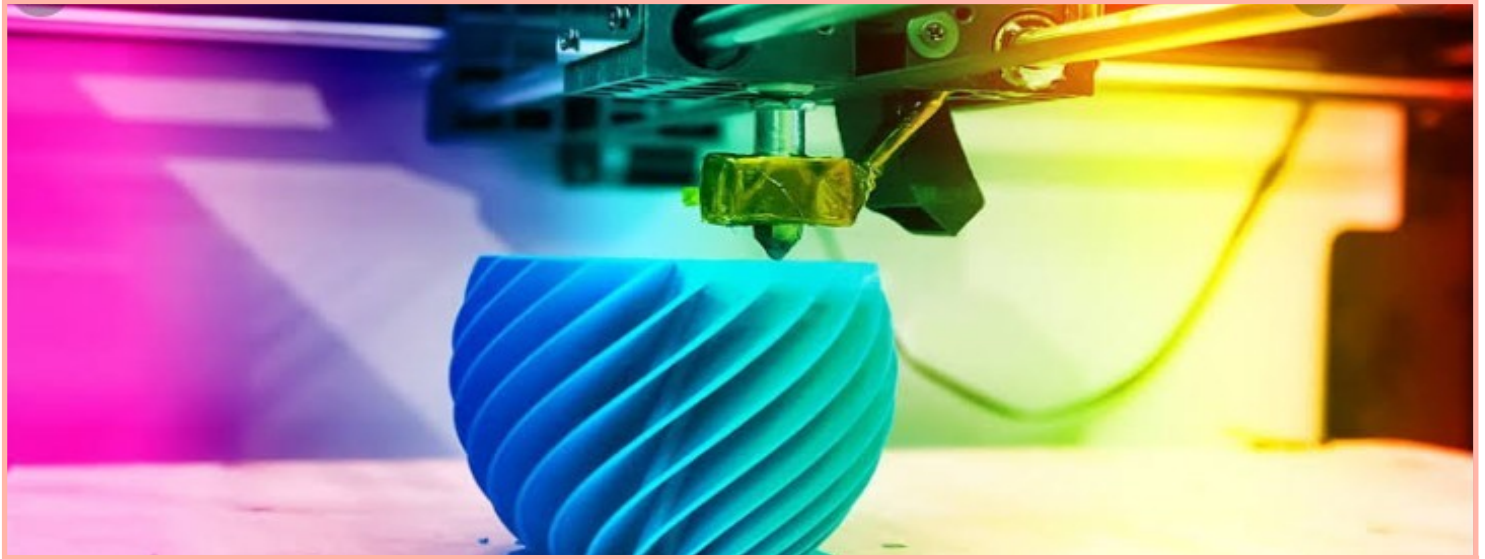


MVN SCHOOL SECTOR 88, FARIDABAD

ROBOTICS REPORT

JANUARY , 2020



IF A PICTURE IS WORTH A THOUSAND WORDS, A PROTOTYPE IS A THOUSAND PICTURES.

-by TOM & DAVID KELLY

STEM education is undoubtedly the need of the hour that could help the students evolve from being users of technology to innovators. STEM education is one among the new buzzwords in the Indian education ecosystem that deals with the focus on Science, Technology, Engineering and Mathematics. Keeping the rapidly changing trends in mind, Indian educators are heavily focusing on new education's sub-segments that are supposed to be profitable in the future.

While the old-school teaching methods and curriculums somewhere restrict students for pursuing their dreams, STEM education will be promoting problem-solving, creativity, and innovation that are playing essential roles in today's time.

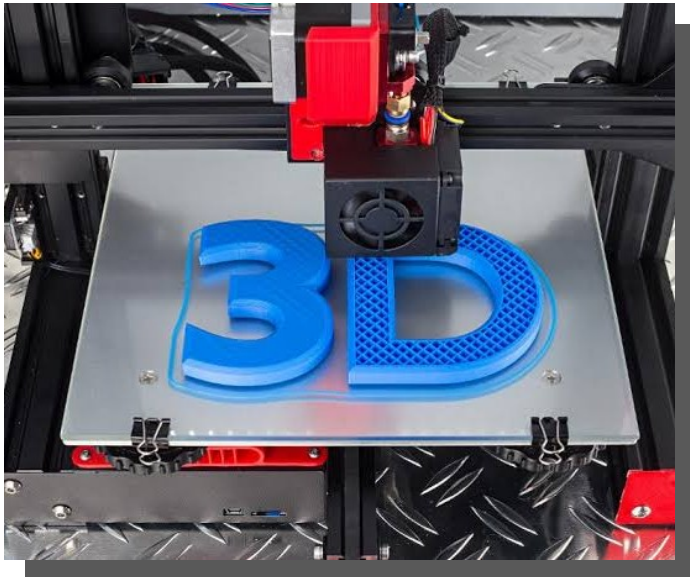
MVN in collaboration with STEMROBO TECHNOLOGIES helps students to develop their practical approach. STEM-ROBO Technologies Pvt Ltd is an Educational Technology Company pioneering New concepts, Methodology, R&D and Design Initiative in STEM Education.

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ABOUT STEM EDUCATION AND STEMROBO

3D PRINTING AND DESIGN MODELS AND IT'S TYPES

GLANCE OF ACTIVITIES



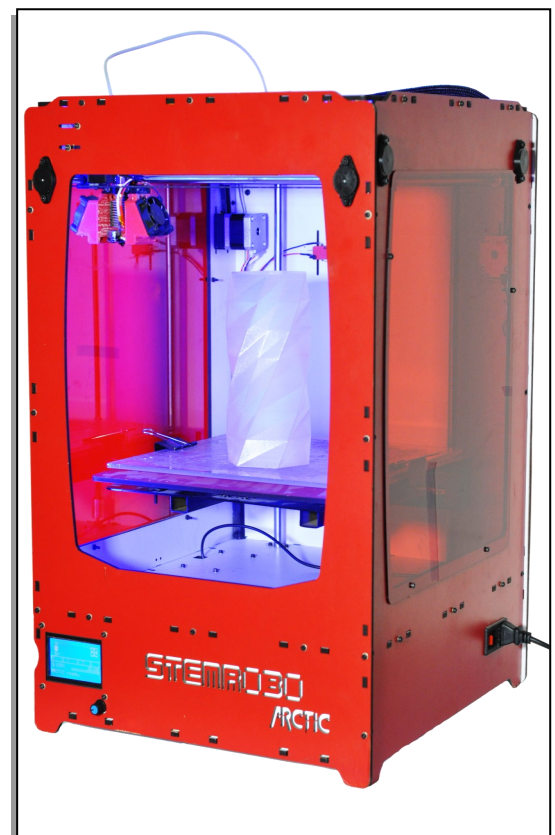
The list of 3D printing technologies and processes continues to grow as 3D printing is always changing. The 3D printing industry continues to innovate its hardware as well as the materials and processes to create objects or parts. Depending on many factors such as budget, design, choosing the appropriate 3D printing process as well as the right material is important. 3D printing can create many different 3D printed objects that were previously only fabricated through mass manufacturing methods.

ABOUT 3D PRINTING

Think your 3D Printer as a paintbrush and the printing bed is your canvas

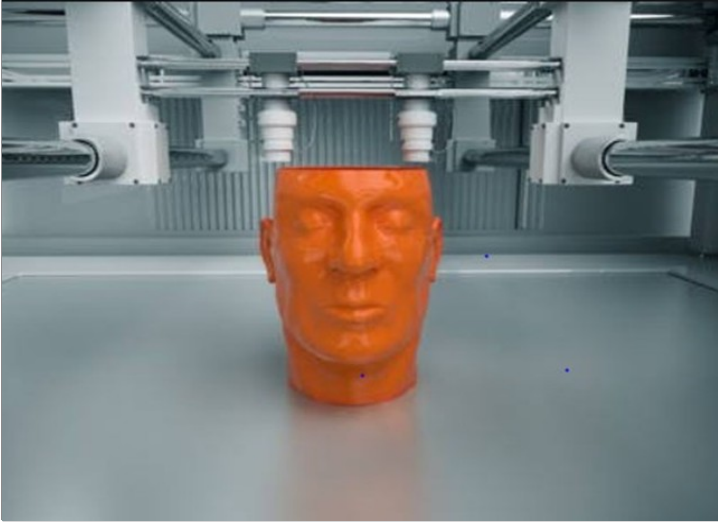
3D Printing, also known as additive manufacturing, describes a fabrication method in which an object is formed in three dimensions often through a series of consecutive layers. There are many techniques to consider of 3D printing, and also a great number of materials.

3D printing has its roots in the 1980s. 3D printing fact might be surprising: pretty much anything can already be 3D printed. Since the 80s, many new materials for 3D printing market, including gold, silver, titanium, wood, and ceramics. Over the last year alone we have seen 3D printed houses, drones, dresses, jewelry and table wear being printed.



YOU CAN PRINT 3D FOOD

Chocolate 3D printing is also becoming quite interesting for chefs working in pastry. 3D printers are helping them create chocolate designs that are complicated to achieve only using hands.



3D printing is the latest thing to excite anyone who loves easy-to-use interactive technology. Engineers and scientists have actually been working with this amazing equipment since way back in 1983. That's the time when an American engineer named Charles (Chuck) Hull invented the first ever 3D printer. He called it his SLA machine, which stands for stereolithography apparatus.

TYPES OF 3D PRINTING

3D Printer has digitized the entire manufacturing process
-by Tom Diamandis

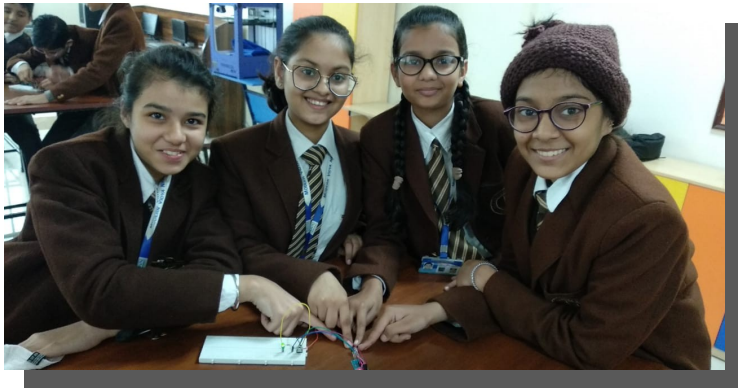
The nine basic types of 3D printing technology currently exist: Fused Deposition Modeling (FDM), Stereolithography (SLA), Digital Light Processing (DLP), Selective Laser Sintering (SLS), Selective Laser Melting (SLM), Electron Beam Melting (EBM), Laminated Object Manufacturing (LOM), Binder Jetting (BJ), and Material Jetting/Wax Casting. The three most common are SLA, FDM, SLS. The oldest additive printing technology is SLA. FDM is the most common form of desktop 3D printing. The FDM system consists of a platform extrusion nozzle and a control system that provides a quick and straightforward solution to 3D printing.



Everyone is maker but Only you are the printer

In traditional 3D printing, the gantry size poses an obvious limitation for the designer who wishes to print in larger scales and achieve structural and material complexity.

A GLANCE INTO OUR LAB AT MVN SCHOOL SEC-88



Everyone is the maker but only you are the printer.

by Joseph Prusa

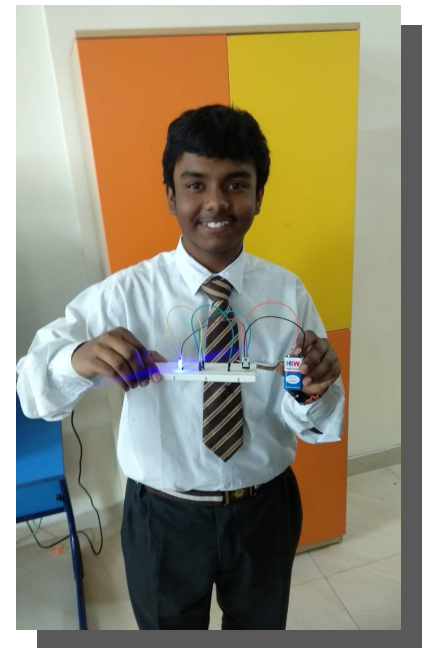
- LED Glowing
- IR Sensor
- RGB Glowing



WEEKLY ACTIVITY FACT

Weekly activity is the most essential part in any training as it increases the technical skills as well as the perfectness for doing any task and the most important part is gaining experiences through those activities and our students are very smart while doing these activities.

A GLANCE INTO OUR LAB AT MVN SCHOOL SEC-88



Expect the best, plan for the worst, and prepare to be surprised.

- Switch Operation
- Seven Segment LED



FACT

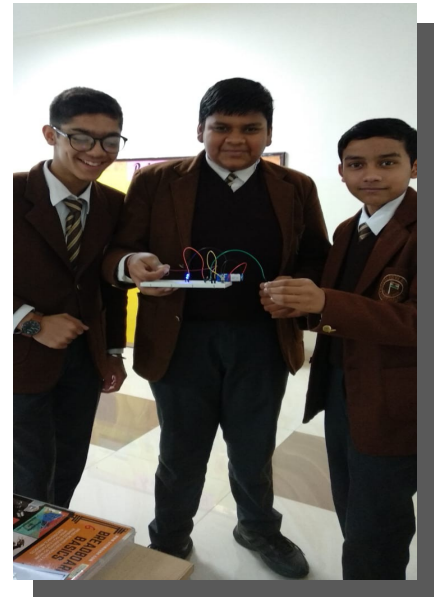
January 2018, Google CEO Sundar Pichai claimed that artificial intelligence (AI) will be more transformative to humanity than electricity.

A GLANCE INTO OUR LAB AT MVN SCHOOL SEC-88



The Best way to predict the future is to invent it

- RGB with Switch
- Buzzer Operation



FACT

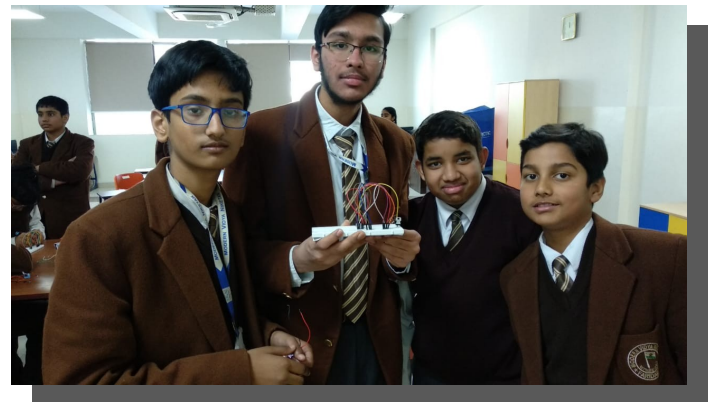
Around 2025 we'll finally start to see visible progress towards artificial intelligence. A decade later we'll be up to about one-tenth the power of a human brain, and a decade after that we'll have full human-level AI.

A GLANCE INTO OUR LAB AT MVN SCHOOL SEC-88



Management is, above all, a practice where art, science, and craft meet—Henry Mintzberg...

- LDR Test
- Two Finger touch



FACT

Google, has announced that it had created a microchip called a Tensor Processing Unit, which it claimed was up to 30 times faster and 80 times more power efficient than an Intel processor for machine learning tasks. .

A GLANCE INTO OUR LAB AT MVN SCHOOL SEC-88



The key to successful leadership today is influence not authority.” – Kenneth Blanchard. ...

- **Water Level Indicator**
- **Make your Own Battery**



PROJECT FACT

In 2019 IBM AI machine called Debator, lost to a top-ranked human debater- Harish Nataraja