



Technical Workshops Series –2022

3D Printing For Students

- Organized by Venture Center -

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| Potential gains | <ul style="list-style-type: none"> Learn concept of 3D Printing. Learn basic operation of software. Learn to operate FDM 3D Printer. |
| Organized by | Protoshop at Venture Center |
| For whom | Students /Young 3D Printing Enthusiast Age group : 12-15 years |
| When | Training dates currently open for registration: Saturday 24 September 2022 Time : 2.00 pm to 5.00 pm |
| Where | Protoshop, Venture Center, 300 NCL Innovation Park, Dr. Homi Bhabha Road, Pashan, Pune-411008 |
| Contact | Ms. Lipika Biswas Phone: +91-9156465137 Email: eventsdesk@venturecenter.co.in |
| Cost | <p>Cost: Rs 500 /-</p> <p>10 seats; First come first serve</p> <p>Register online at: https://forms.gle/obDVvkVc9maZcRqh9</p> <p>Note:-</p> <ul style="list-style-type: none"> Attendance only after confirmation of registration by organizers. Organizers reserve the right to accept or refuse or delay registrations so to optimize the composition of the group and hence maximize learning for all participants. Fees paid is not refundable and non transferable under any circumstances. |



Introduction

3D printing is an additive process whereby layers of material are built up to create 3D parts. There is a lot of value in printing three-dimensional objects for students, designers, and anyone who needs a small object to demonstrate their ideas or create usable objects. This workshop is designed for A basic introduction to 3D printing with concepts, examples and with practical lab exercises to reinforce key concepts.

Event Outline

This Course on the 3D Printing contains the following:

- What is 3D Printing?
- The need: why 3Dprinting?
- Applications & case study.
- Hand on session: Operation of 3D Printer.

Event includes

- Access to restricted website with online compilation of resources.
- Certificate of participation issued by Venture Center.
- Membership in mailing list to other workshops by Venture Center.

Schedule

| Time (hrs) | Topic and Contents | Venue | Faculty |
|------------|----------------------------------------------------------------------|-----------|----------------|
| 1400-1410 | Registration | Protoshop | Protoshop team |
| 1410-1415 | Welcome and background of Venture Center Introduction to Workshop | Protoshop | Protoshop team |
| 1415-1500 | Talk /lecture | Protoshop | Protoshop team |
| 1500-1650 | Lab session & Demonstration | Protoshop | Protoshop team |
| 1650-1700 | Q & A and distribution of Participation certificates | Protoshop | Protoshop team |



Speakers (in alphabetical order of last names)



Sayali is Coordinator-Protoshop at Venture Center. She is B.E.(Instrumentation & Control Engineer) from University of Pune. She is running current facilities in Protoshop. She operates all the instruments in lab, provides training, plans & executes setting up & maintenance work in Protoshop also involved in creating, planning and organizing technical and scientific workshops & hands-on lab exercises with Tinkering lab instruments.



Anjan is Senior Engineer - Product Design & Prototype at venture center graduated from CMR Institute of Technology Bengaluru in B.E Mechanical Engineering. He is responsible for running facilities at protoshop and also setting up technical and non – technical workshops.

About the organizers



Protoshop combines Tinkering lab and Prayashala, which are the prototyping facilities at Venture Center. Protoshop is an initiative of Venture Center (a technology business incubator hosted by CSIR-NCL) with the generous support from in-house funds and the host Institution. It aims at providing services to the Inventors and Entrepreneurs to design and build their prototypes and bringing their ideas into life. For more information about Protoshop: <http://www.protoshop.in/>



The Tinkering Lab is a facility developed and managed by Venture Center, NCL Innovation Park, Pune, India. The main aim of the Tinkering Lab is to help inventors and entrepreneurs to build prototypes of their ideas and generally “tinker” around exploring new ideas. The focus is on electronics, instrumentation and optics besides related prototyping and design. For more information, visit <http://tinkeringlab.co.in/>



Entrepreneurship Development Center (Venture Center) – a CSIR initiative – is a Section 25 company hosted by the National Chemical Laboratory, Pune. Venture Center strives to nucleate and nurture technology and knowledge-based enterprises by leveraging the scientific and engineering competencies of the institutions in the Pune region in India. The Venture Center is a technology business incubator supported by the Department of Science & Technology's National Science & Technology Entrepreneurship Development Board (DST-NSTEDB). Venture Center's focuses on technology enterprises offering products and services exploiting scientific expertise in the areas of materials, chemicals and biological sciences & engineering. For more information, visit: <http://www.venturecenter.co.in/>