



Technical Workshops Series –2022

Hands-on DIY projects using Laser Cutter Machine

- Organized by Protoshop at Venture Center -

Potential gains	<p>Learn</p> <ul style="list-style-type: none">• Concept of Laser Cutting• Basic operation of software• Operate TIL6040 Laser cutter <p>Make your own</p> <ul style="list-style-type: none">• DIY lantern• DIY Photo frame and many more interesting stuff
Organized by	Protoshop at Venture Center
For whom	Students /DIY Enthusiast /Working Professionals
When	Friday 21 October 2022 Time : 10.00 am to 1.00 pm
Where	Protoshop, Venture Center, 300 NCL Innovation Park, Dr. Homi Bhabha Road, Pashan, Pune-411008
Contact	Technical queries: Sayali Kothmire +91-9156465153 sayali@web.venturecenter.co.in Registration: Lipika Biswas Email: eventsdesk@venturecenter.co.in
Cost	<p>Cost: Rs 500 /- per person Limited seats: 5 ; First come first serve</p> <p>Steps for registration:</p> <ul style="list-style-type: none">• Step 1: Interested participants need to fill in registration form at the following link. Register online at: https://tinyurl.com/Oct2022-LC• Step 2: Payment details will be shared via email to participants post screening of registration details and seat will be confirmed only after receipt of payment. <p>Note:</p> <ul style="list-style-type: none">• REGISTRATIONS AND FINAL PAYMENT DEADLINE Registration closes once 5 seats are full or on 19 October 2022 (whichever comes sooner)• Fees paid is not refundable and non transferable under any circumstances• For more details, visit: http://tinkeringlab.co.in/events-2/



Introduction

Laser cutting technology is used to transfer intricate designs to all sorts of materials like wood, MDF, Acrylic, glass etc. Few years back it was used to be solely heavy industrial equipment, these days laser cutters are user-friendly enough to be used by pretty much anyone for making DIY items and prototypes. If you're looking for more tools to transfer your digital creations to physical media, then Laser cutting and engraving is one of the easy, fast and affordable technologies. This workshop is designed for A basic introduction to Laser cutting and engraving with concepts, examples and with practical lab exercises to reinforce key concepts.

Event Outline

This Course on the Laser cutting & engraving contains the following:

- What is Laser cutting?
- Applications & case study.
- Hand on session: Operation of TIL6040 laser cutter.
- Make your own DIY products using given consumables like acrylic, MDF, paper and glass.

Event includes

- Access to restricted website with online compilation of resources.
- E-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
1415-1445	Laser cutter Safety and Lab session & Demonstration 1	Protoshop	Protoshop team
1445-1630	Hands-on sessions 1	Protoshop	Protoshop team
1630-1650	Hands-on sessions 2	Protoshop	Protoshop team
1650-1700	Q & A	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/>