



Technical Workshops Series –2023

## Learn Laser Cutter Machine

- Organized by Protoshop at Venture Center -

<b>Potential gains</b>	<p>Learn</p> <ul style="list-style-type: none"><li>• Concept of Laser Cutting</li><li>• Basic operation of software</li><li>• Operate TIL6040 Laser cutter</li></ul> <p>Make your own DIY Photo frame and many more interesting stuff</p>
<b>Organized by</b>	Protoshop at Venture Center
<b>For whom</b>	Students /DIY Enthusiast /Working Professionals
<b>When</b>	<b>Friday   31 March 2023   Time : 10.00 am to 1.00 pm</b>
<b>Where</b>	Protoshop, Venture Center, 300 NCL Innovation Park, Dr. Homi Bhabha Road, Pashan, Pune-411008
<b>Contact</b>	Technical queries: Sayali Kothmire   +91-9156465153   sayali@web.venturecenter.co.in Registration: Lipika Biswas   Email: <a href="mailto:eventsdesk@venturecenter.co.in">eventsdesk@venturecenter.co.in</a>
<b>Cost</b>	<p><b>Cost: Rs 500 per person</b> <b>Limited seats: 5 ; First come first serve</b></p> <p><b>Steps for registration:</b></p> <ul style="list-style-type: none"><li>• Step 1: Interested participants need to fill in registration form at the following link. <b>Register online at:</b> <a href="https://forms.gle/cuGfZJUd2xhYzBrbA">https://forms.gle/cuGfZJUd2xhYzBrbA</a></li><li>• 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.</li></ul> <p>Note:</p> <ul style="list-style-type: none"><li>• <b>REGISTRATIONS AND FINAL PAYMENT DEADLINE</b> Registration closes once 5 seats are full or on 29 March 2023 (whichever comes sooner)</li><li>• <i>Fees paid is not refundable and non transferable under any circumstances</i></li><li>• For more details, visit: <a href="http://tinkeringlab.co.in/events-2/">http://tinkeringlab.co.in/events-2/</a></li></ul>



## 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
1000-1015	Registration	Protoshop	Protoshop team
1015-1030	Welcome and background of Venture Center Introduction to Workshop	Protoshop	Protoshop team
1030-1250	Laser cutter Safety and Lab session & Demonstration	Protoshop	Protoshop team
1250-1300	Feedback and Q & A session	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 and is a Mechanical Engineer graduate from CMR Institute of Technology, Bengaluru. He is responsible for supporting the startups, innovators, budding entrepreneurs at Venture Center in Product Design and Prototype Development. He has specialization in designing of functional and non-functional prototypes, developing POC's, converting POC to Prototype and end Products, Reverse Engineering and also comes up with strong problem solving skill. He has actively involved in the development of prototypes majorly in healthcare, renewable energy, biotech, cutlery, agro based, etc. He is also responsible for running facilities at Protoshop and also setting up technical and non-technical workshops at Protoshop.

### 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/>