



Hardware Skills workshop

Garage Series #2

- Organized by Venture Center -

Potential gains	<ul style="list-style-type: none">• To learn basic safety in the workshop.• To learn how to operate measurement tools, hand tools and power tools.
Organized by	Protoshop at Venture Center
For whom	Students /Young Enthusiast Age group : 15 years onwards
When	Training dates currently open for registration: Friday 21 April 2023 Time : 10.00 am to 12.30 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	Free training Open for all Registration required Register online at: https://forms.gle/q9iKIQUhsaPn4GaI9 Note:- <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.



Introduction

Would you prefer fixing gadgets yourself instead of making repeat trips to a service center? This workshop introduces basic hardware skills useful for the hobbyist, and provides hands-on sessions with the tools, along with a discussion of various functionalities. The objective of the workshop is to have an empowering day with learning hardware skills.

Event Outline

This Course on the Hardware Skills workshop contains the following:

- Safety in the Workshop
- Measurement tools: Screw gauge, Vernier calliper, level gauge, measuring tape, IR thermometer etc.
- Types of adhesives and tapes. Glue gun. Heat gun.
- Hand tools: Plier, chisel, types of hammers, screwdrivers, spanner
- Power tools: jig-saw, angle grinder
- Cutting tools: Handsaw, hacksaw, aviation snip

The speed and direction of the workshop will be participant led.
Tools and materials will be provided.

Mandatory: All participants should wear thick-soled safety shoes. No jewellery or long-sleeved/loose clothing permitted. Long hair should be tied. Stringent action will be taken for violation of safety instructions.

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
0950-1000	Registration	Protoshop	Protoshop team
1000-1005	Welcome and background of Venture Center Introduction to Workshop	Protoshop	Protoshop team
1005-1100	Talk & Activity 1	Protoshop	Protoshop team
1100-1115	Break		
1115-1225	Demonstration & Activity 2	Protoshop	Protoshop team
1225-1230	Q & A and distribution of Participation certificates	Protoshop	Protoshop team



Sujaya Ingale is working as Head – Scientific Initiatives at Venture Center. She leads and coordinates scientific initiatives and Prototyping Support activities which involve planning for scale up and expansion of scientific facilities and services, creating and managing service efficiency and quality matrices to ensure high standards in services. Sujaya has done her masters in Microbiology and has the total professional experience of 17 years. She heads the quality control department of the MedTech Clean room (ISO 7 and 8) at Venture Center. She is also involved in handling Biotechnology research projects, developing new methods and services.



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/>



MakersHive at Venture Center is an open access DIY and training facility for budding inventors, entrepreneurs and other trainers with a focus on cutting, drilling and engraving wood, hybrid & sustainable materials. The MakersHive aims to help inventors and entrepreneurs to build prototypes of their ideas and generally “tinker” around exploring new physical, manufacturable product ideas. The MakersHive intends to empower entrepreneurs in the manufacturing & materials (including constructions, packaging etc.) domains by building an enabling ecosystem and necessary training.



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/>