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Technical Workshops Series – 2021

Math Gaming Club Module 1
Online workshop on STEM concepts through Origami
 - Organized by Venture Center -

Learn	<ul style="list-style-type: none"> • Explore and experiment with STEM concepts. • Learn Math concepts while having fun with games and activities.
Organized by	<ul style="list-style-type: none"> • Venture Center
For whom	<ul style="list-style-type: none"> • Age group 10-15 yrs old (Familiarity with English required)
When	4 -8 January 2021 1600 – 1730 hrs
Where	Workshop will be conducted through an online platform. Registered participants will be sent invitations and links to join the workshop
Contact	<i>Technical queries:</i> Sayali 020-25865877 sayali@web.venturecenter.co.in
Registration	<p>Registration is mandatory Limited seats!!! Cost: Rs. 1001 /- Registration Process:</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://bit.ly/2LqomEC • Step 2: Email invites will be sent post screening of registration details. • Step 3: Attendance only on confirmation of payment of registration fee. <p>Registration closes once 15 seats are full or on 30 Dec 2020 (whichever comes sooner). More details at: http://tinkeringlab.co.in/events-2/</p>

Introduction

Origami is the art of paper folding. Origami has numerous benefits -like improving concentration, fine motor skills, spatial visualization besides being a creative art form. It is also a fantastic medium for introducing and demonstrating a number of STEM concepts. Not only is it readily available and easily pliable, it is also inexpensive.

The focus of this workshop series will be equally divided between folding origami models and exploring and experimenting with different STEM concepts.

Workshop Outline

- Angles and Triangles - learn how to fold different angles from paper.
 - Polygons- learn about polygons and fold them from paper.
 - Prisms and Polyhedra - fold and assemble different paper polyhedra and prisms.
 - Centre of gravity, experiments on flight - perform different experiments with paper and understand the concepts behind flight.
 - Applications of Origami (making collapsible structures) - fold collapsible structures.
- Pre-requisites:**
 Students should know how to measure an angle, know different types of polygons and 3D solid shapes



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Workshop includes

- Lectures
- Q&A sessions
- Certificate of participation issued by Venture Center

Workshop Schedule

Time	Session	Lead
Day 1		
1600 – 1605	Welcome and introduction	Sujaya Ingale
1605 – 1730	Session 1	Manjushri Dhume
Day 2		
1600 – 1730	Session 2	Manjushri Dhume
Day 3		
1600 – 1730	Session 3	Manjushri Dhume
Day 4		
1600 – 1730	Session 4	Manjushri Dhume
Day 5		
1600 – 1730	Session 5	Manjushri Dhume

Speakers and Organisers



Manjushri Dhume

Manjushri is founder of LearnQuest and worked for over 18 years in different fields like Engineering, Software and Training. She has over 10 years experience in designing and conducting training programs, both in India and abroad. She was a visiting faculty for Mumbai University and teaches “Media and Knowledge Management” for post graduate students.



Sujaya Ingale


Sujaya Ingale is Sr. Manager at Venture Center. She leads and coordinates Scientific & Prototyping initiatives at Venture Center. She manages scientific resources, facilities, services and ensures Environment Health and Safety compliance at Venture Center. She is M.Sc in Microbiology (Pune University). She has several years of research experience in biotechnology projects, experience in setting up and oversight of Venture Center’s Lab facilities, running and assisting in proof-of-concept projects, and in creating, planning and organizing technical and scientific workshops for life sciences students and scientists.






Sayali Kothmire

Sayali Kothmire is Coordinator-Protoshop at Venture Center. She is B.E. (Instrumentation & Control Engineer) from University of Pune. She manages operations at Protoshop, 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.

		
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 Anjan Kumar N	Anjan is an Associate protoshop 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.
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About the organizers	
	<p>Entrepreneurship Development Center (Venture Center) – a CSIR initiative – is a Section 60 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 focuses on technology enterprises offering products and services exploiting scientific expertise in the areas of materials, chemicals and biological sciences & engineering.</p> <p>For more information, visit http://www.venturecenter.co.in/</p>
	<p>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.</p> <p>For more information about Protoshop: http://www.protoshop.in/</p>
	<p>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.</p> <p>For more information about Tinkering Lab: http://tinkeringlab.co.in/</p>