



Institution's Innovation Council  
Saurashtra University

**Workshop**

On

**“Prototype/Process Design & Development”**

1<sup>st</sup> May 2023

At

Seminar hall, Dr. A P J Abdul Kalam Science Laboratory

Saurashtra University Campus, Rajkot

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## Saurashtra University – IIC

The university is dedicated to instruction, research, and extending knowledge to the public (public service). Ministry of Education (MoE), Govt. of India has established 'MoE's Innovation Cell (MIC)' to systematically foster the culture of Innovation among all Higher Education Institutions (HEIs). The primary mandate of MIC is to encourage, inspire and nurture young students by supporting them to work with new ideas and transform them into prototypes while they are informative years. Saurashtra University is one the Organization that have constituted the IIC to foster the vision of MoE and be a part for the promotion and development of innovation ecosystem.

### Event Schedule

11:30	• <b>Welcome</b>
11:35	• <b>Awareness session</b>
12:00	• <b>Q &amp; A</b>
12:30	• <b>Closing Ceremony</b>

### Event Registration Link

[bit.ly/SUSEC-PPDD](http://bit.ly/SUSEC-PPDD)

## Brief about Event

SU Start-up And Entrepreneurship Council and IIC Saurashtra University was organized workshop on " Prototype/Process Design and Development " on 1<sup>st</sup> May, 2023, at Dr. APJ Abdul Kalam Science Laboratory. Dr. Jaysukh Markana, Assistant Professor of Department of Nano Science and Advanced Materials, Saurashtra University welcomed with token of gratitude. 55 members participated in the workshop. Dr. Jaysukh Markana sir gave information about student start-up policy and idea of innovating new products with the help of nano science.

Dr. Jaysukh Markna sir gave basic knowledge about transmission and changes in transmission over time. Then he talked about product innovation and explained with different examples. There are some natural materials that we have that have super hydrophobic properties, such as lotus leaves and water spider legs. So, we can use it in our normal life and we make various products like waterproof mobile, dust free shirt, work glow for hand, cement, tooth paste, tooth brush etc.

Sir has given many examples like...

- Nano tax: the fibres of the textile contain a large number of very small “nano-pins like structure”, on their surface.
- Food containers: often both new and leftover foods will stay fresh for only for the couple of the days, even when they kept in the refrigerator. But this product will prevent food from having to be thrown away and save money in the process.
- Baby milk bottle: most parents are concerned with hygiene when it comes to the health of their child a Korean company developed a special milk bottle and mug for babies. The company describes the hygiene, medical, scientific and ergonomic properties of product.

Sir explaining about idea to prototype. A prototype is a sample visualization of the product to test the concept. Prototyping is an important part of the design process. By creating a prototype, designers can identify potential problems or areas for improvement early in the process, before investing significant time and resources in the final product. Sir has given brief information regarding method of prototyping and types of prototyping. Mainly discussed about Low-Fidelity Prototyping and High-Fidelity Prototyping.

The objective of this workshop bringing your product idea from mental concept to physical world. Hence, a prototype is a model of your product in a tangible shape and form. Prototypes can be of various types and fulfil different goals, depending on your immediate or future needs.

## Key Points

During the session, below mentioned points were discussed:

- ☒ Innovation of product
- ☒ Idea of innovation of product
- ☒ Types of prototypes
- ☒ Methods of prototyping
- ☒ Why prototyping is important
- ☒ Steps in the design prototype
- ☒ FAQs related to Prototype/Process Design & Development

## Outcome

According to the event, the students were made aware of the product innovation by the speaker. Also, different types of prototypes were made understood by the speaker.

Students found that there are better opportunities than ever for start-ups in nanoscience. It was related to innovation prototyping and awareness creation, which was basic knowledge of prototyping methods. Learned about innovative product in nano silver with various examples like baby milk bottle, tooth paste, dust free shirt. It was a very informative session. Students learned a lot about how to innovate in production.

## About the Speaker/Chief Guest



**Dr. Jaysukh  
Markna**

**Assistant Professor**

**Department of Nano Science & Advance  
Materials, Saurashtra University**

The poster features logos for Saurashtra University, SEC, G20 India, SSIP, Institution's Innovation Council, and Innovation Club. The main text reads: **WORKSHOP**  
**PROTOTYPE/PROCESS DESIGN AND DEVELOPMENT**  
SU Start-up and Entrepreneurship Council, in collaboration with IIC Saurashtra University and Department of Nanoscience and Advanced Materials, Saurashtra University is hosting a workshop on "Prototype/Process Design and Development" on 1st May, 2023. The event will be held at the Dr. APJ Abdul Kalam Science Laboratory.  
1ST MAY, 2023, MONDAY  
11:30AM TO 12:30PM  
SEMINAR HALL, INCUBATION CENTRE, SAURASHTRA UNIVERSITY  
REGISTER NOW  
[bit.ly/SUSEC-PPDD](http://bit.ly/SUSEC-PPDD)  
A circular inset shows a portrait of the speaker, Dr. Jaysukh Markna.







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