





Ref: ICSII-SSIP04/APR22/09

Date: Monday, April 25, 2022

Event Report

Workshop on 'Product Development'
Activity Type: Workshop
Time: 3:00 PM - 4:00 PM

Venue: CIM Lab, Indus University

Introduction

The ICSII (Indus Center for Startup Innovation & Incubation) conducted a workshop on Product Development on April 25, 2022, aimed at providing participants with the knowledge and tools required to develop successful products from ideation to launch. The workshop was led by Prof. Shaswat Padalia, Assistant Dean R&D at Indus University, and was attended by 27 participants from various fields, including mechanical, mechatronics, and entrepreneurship.

Event Highlights

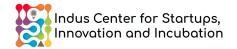
1. Welcome and Overview:

Prof. Shaswat Padalia introduced the workshop by emphasizing the importance of product development in the startup journey. He discussed the key stages involved in transforming an idea into a market-ready product, focusing on both technical and business aspects.

2. Key Stages of Product Development:

Prof. Padalia explained the following steps involved in product development:

- **Idea Generation:** Understanding the market need and brainstorming solutions that can address specific problems.
- **Concept Development:** Creating a feasible concept, designing prototypes, and selecting materials.
- **Prototype Design:** The importance of rapid prototyping and iterative design to create early versions of the product.
- **Testing and Feedback:** Gathering customer feedback and testing the product under real-world conditions.
- **Production and Scaling:** Scaling up from prototype to mass production, including quality control, manufacturing processes, and distribution.







3. Design Thinking Approach:

The session also covered **Design Thinking**, a user-centered methodology for solving complex problems. Prof. Padalia outlined its five stages:

- **Empathize**: Understanding the users' needs.
- **Define**: Clearly articulating the problem.
- **Ideate**: Brainstorming solutions.
- **Prototype**: Creating mockups and testing them.
- Test: Finalizing the solution based on user feedback.

4. Tools for Product Development:

Participants were introduced to several tools and software commonly used in product development, including:

- **CAD (Computer-Aided Design)** for designing detailed product models.
- CAE (Computer-Aided Engineering) for simulating product performance.
- **Rapid Prototyping** tools for quick manufacturing of product prototypes.

5. Challenges in Product Development:

Prof. Padalia discussed several common challenges faced during product development, such as:

- Budget and resource limitations.
- Ensuring product-market fit.
- Managing time effectively during different stages of development.
- Handling production issues while scaling up.

6. Case Studies and Real-Life Examples:

The workshop featured several case studies of successful products, demonstrating how the product development process was followed from ideation to market introduction. Participants also discussed how common failures in product development can be avoided through careful planning and execution.

Conclusion

The **Product Development Workshop** was a valuable learning experience for all participants, equipping them with a deeper understanding of the product development lifecycle. Prof. Shaswat Padalia's practical approach and real-life examples helped attendees grasp the nuances of bringing an idea to life as a tangible, marketable product.