

# **Course: Innovation by Design**

**Course Code:** noc21-de05

**Session:** 2020-21

**Duration:** 4 Weeks

**Assessment procedures:** Weekly Assignment (25%) + proctored certification Exam (75%)

## **Curriculum of the Course:**

### **Week 1:**

- Lecture 1 : The Seven Concerns
- Lecture 2 : Design Thinking & Collaboration
- Lecture 3 : Challenges to Innovation
- Lecture 4 : Understanding Users
- Lecture 5 : Arriving at Design Insights
- Lecture 6 : Prototyping for User Feedback
- Lecture 7 : 1st C The Cause
- Lecture 8 : Crossing the First Pitfall
- Lecture 9 : Trial and Error
- Lecture 10 : User Feedback for Development
- Lecture 11 : New users, new needs to meet
- Lecture 12 : Knowing the Context

### **Week 2**

- Lecture 13 : 2nd C The Context
- Lecture 14 : The Basic Need
- Lecture 15 : Ingenious Attempts
- Lecture 16 : Further Insights
- Lecture 17 : The Working Rig
- Lecture 18 : Concepts generation
- Lecture 19 : Experiencing the Product
- Lecture 20 : Refinements
- Lecture 21 : 3rd C - The Comprehension
- Lecture 22 : Understanding Constraints
- Lecture 23 : Positioning the Product
- Lecture 24 : Exploring Possibilities
- Lecture 25 : More Experiments
- Lecture 26 : Understanding the Technology
- Lecture 27 : At the 2nd Valley of Death
- Lecture 28 : Finishing Touches

### **Week 3**

- Lecture 29 : The Check

- Lecture 30 : The Cause
- Lecture 31 : The Product, the Users and the Context
- Lecture 32 : The Prototyping
- Lecture 33 : User needs
- Lecture 34 : The Crucial Step Missed
- Lecture 35 : 5th C The Conception
- Lecture 36 : Synchronic Studies
- Lecture 37 : One product, many problems
- Lecture 38 : Concept Clusters
- Lecture 39 : From idea to product
- Lecture 40 : Prototyping
- Lecture 41 : Materials and Technologies
- Lecture 42 : Collaborative Efforts

#### **Week 4:**

- Lecture 43 : 6th C - The Crafting
- Lecture 44 : Recap
- Lecture 45 : The Manufacturing Challenge
- Lecture 46 : The User Feedback
- Lecture 47 : The Iterative Process
- Lecture 48 : 7th C: The Connection
- Lecture 49 : The Seed for Innovation
- Lecture 50 : Pinnacle for Innovation
- Lecture 51 : The Innovation Timeline
- Lecture 52 : The Innovation Champions
- Lecture 53 : The Innovation Domains
- Lecture 54 : The Innovation Templates
- Lecture 55 : The Serial Innovation

#### **Enrolled Students**

1	Anshita Yadav
2	Kratika Bansal
3	Nilesh Suthar
4	Shruti Chauhan
5	Sandeep Verma