

N. K. Orchid College of Engineering and Technology, Solapur
One-week Students/ Faculty/ Industry Internship Program
by
Mechanical Engineering Department

Title: “Product Design - Design Thinking/Innovation/Autodesk Fusion 360”

Duration: 8th June 2020 to 12th June 2020

Mode: Online sessions organised using Zoom app

No. of Participants attended: 491 (04 from Industry, 11 Faculty, 476 students from engineering colleges)

Faculty Coordinators and Experts: 1. Prof. V.P. Kulkarni

2. Prof. A.S. Dhobale

Programme Objectives

By the end of this programme, participants will:

- Understand the philosophy and process of design thinking, and be able to practise it in specific settings.
- Understand the importance of the design thinking mindset, and the roadmap to building it as an element of organisational culture.
- Be able to derive and structure relevant insights for unstructured problem situations.
- Enhance and practise skills of rapid prototyping.
- Uncover their own creative potential, through both divergent and convergent techniques.
- Use Autodesk Fusion 360 effectively for Product Design

Course Schedule:

Day and Date	Time	Topic
Day 1 8/06/2020	12.00 pm to 12.30 pm	Inaugural Ceremony
	12.30 pm to 1.15 pm	Importance of Design and What is Design Thinking: How does it differ from conventional approaches to problem solving? Writing the Problem Statement: How can creative approaches like storytelling, visualization and journey mapping enable solutions to often intractable problems?
	1.15 pm to 1.45 pm	Autodesk Fusion 360 fundamentals
Day 2 9/06/2020	12.00 pm to 12.45 pm	Understanding Users: How can the Design Thinking process address complex problems across a wide spectrum? Personas, Empathy Maps Current Scenarios to identify pain points

	12.45 pm to 1.30 pm	Sketching
Day 3 10/06/2020	12.00 pm to 12.45 pm	Ideation and Storyboarding Deriving Goals from Ideas
	12.45 pm to 1.30 pm	3D Modelling
Day 4 11/06/2020	12.00 pm to 12.45 pm	Future Scenarios and Moments of Max Impact Prototyping
	12.45 pm to 1.30 pm	Rendering, Animation
Day 5 12/06/2020	12.00 pm to 12.45 pm	Innovation versus creativity. Rapid prototyping The DT mindset- barriers and roadmap
	12.45 pm to 1.30 pm	Drawings

Inaugural:

On 8th June 2020 we inaugurated the online internship program on “Product Design - Design Thinking/Innovation/Autodesk Fusion 360” Hon. Principal Dr. J. B. Dafedar sir gave opening remarks on the session. Dr. S. B. Deosarkar, Registrar and TEQIP Head DBATU, Lonere shared his insights on modes of Learning in this unprecedented situation.

The program was inaugurated by Mr. Deepankar Bhattacharya Head-India Education Experience, Autodesk. Mr Deepankar appreciated the Pivotal role of NKOCET in driving all Autodesk activities in this region. Mr. Anand Pujari, Education Account Manager, who is instrumental in driving PDE- Autodesk Fusion 360 Initiatives in DBATU affiliated colleges was present for this program. Dr. Shriniwas. S. Metan HOD Mech Dept. NKOCET, Solapur Proposed Closing Address and Vote of Thanks.

Valedictory:

On 12th June 2020 the Course was completed and Online Valedictory Function was conducted in the gracious presence of

Dr. V Rama Sastry - Hon. Vice Chancellor DBATU, Lonere,

Dr. J. B. Dafedar - Hon. Principal NKOCET, Solapur

Mr. Deepankar Bhattacharyya - Head India Autodesk Education Experience

Mr. Rajesh Mandlik - Managing Director, Setco Spindles India Pvt. Ltd.

Mr. Bhushan Mahajan - HOD Mech. JDCOE, Nagpur

Mr. Anand Pujari - Education Account Manager, Autodesk

Dr. Shriniwas S. Metan HOD Mech NKOCET, Solapur

Panel Discussion was arranged where the experts from industry and academia shared their views on Collaborate and Co-create opportunities for Technical Institutes in Pandemic.

Hon. Principal Dr. J. B. Dafedar sir opened the panel discussion and shared initiatives taken by NKOCET in pandemic. Hon. Vice Chancellor appreciated the efforts of NKOCET towards development of Education community. Prof. Vaibhav Kulkarni moderated the event and Prof. Aditya S. Dhobale proposed Vote of Thanks.

More than 450 participants from Maharashtra and Karnataka participated in the course which includes Zoom faculty, working professionals and students from various institutes.

The entire course was coordinated by **Prof. V. P. Kulkarni, Prof. A. S. Dhobale and Prof. P. N. Kulkarni** along with student coordinators **Mr Siddheshwar Madole (Autodesk Catalyst)** and **Mr Vishwesh Patil from Third Year Mechanical**.

