

Faculty Development Program (FDP)

Design Engineering (3rd + 4th + 5th + 6th Semester)

Date: 19, 20, 21, 22 February, 2016 (34th FDP)

Time: 10.00 am to 5.00 pm; Everyday

Venue: Room No. 131, ACPC Building,
GTU Innovation Council,
L.D. Engineering College, Ahmedabad.

Kindly register here: <http://goo.gl/forms/kVJVV1arpi>

GTU has introduced courses of Design Spine in academic year 2014-15 from 3rd semester namely "**Design Engineering**". Design Engineering is very unique and pioneering initiation of GTU based on globally accepted and implemented techniques by designers and engineers. One of the key objectives of this initiation is to infuse the Design Thinking mind-set into engineers of future by imparting the methodology into core subjects also. **GTU's Centre for Industrial Design – OPEN DESIGN SCHOOL** has taken up the huge and remarkable challenge to leverage and implement this course in all affiliated engineering colleges of GTU. *Centre for Industrial Design – OPEN DESIGN SCHOOL* has successfully completed 1.5 years of this course in which 33 Faculty Development Program (FDP) have been organized for 3rd, 4th and 5th semester with training of more than 2000 faculty members from around 120 Engineering colleges across the states from more than 15 branches. **Now in this semester, again centre is bringing all new set of FDPs for Faculty Members of GTU's affiliated colleges with new hands-on exercises, presentations, examples and techniques of Design Thinking.** This FDP will cover the whole Design Thinking process starting from 3rd sem to 6th sem, suitable for all Faculty Members who want to get acquainted with NEW Design Thinking Methodology. Even those, who have participated in Design Engineering FDPs earlier, should participate to participate in the NEW ways of discussing the concepts and introduction to new inclusion of topics in 4th Semester along with the information regarding topics in 6th Semester.

Exclusive features of FDP:

- New set of learning material including PPTs, Videos, Case Studies, Examples etc.
- Hands on exercises designed exclusively for FDPs to understand Design Thinking approach
- Experts session during FDP (Physical interaction or Skype)
- Reverse Engineering & Prototyping techniques

Workshop Program:

Day 1:

Session 1 - **Welcome & Orientation session** – Introduction to Design Engineering Course

Session 2 – **Introduction** – What is Design Thinking? Its importance, socio-economic relevance

Session 3 – **Learning Tools to better Learn Design Thinking** – Bio Mimicry, Analogy, Gestalt Model and Heuristic Approach – All with examples

Session 4 – **Hands on Exercises** – Team Building and Log book

Day 2:

Session 5 - **Empathy** – Observation techniques & Field work

Session 6 – **Field Visit** – To gather observation data

Session 7 – **Summarization of Data** - Analysis of Data gathered during Observations

Session 8 – **Empathy Mapping** – Canvas Preparation

Day 3:

Session 9 – **Ideation** – Brainstorming techniques to Innovation

Session 10 – **Ideation Canvas** – Canvas Preparation

Session 11 – **Product Development** – Form, Function, Features

Session 12 – **Product Development Canvas** – Canvas Preparation

Day 4:

Session 13 – **Reverse Engineering** – Selection of Branch Specific artefact/component/product

Session 14 – **Disassembly & Identify Technical aspects**

Session 15 – **Contents of 5th Semester**

Session 16 – **Contents of 6th Semester**

Note:

(1) For Reverse Engineering exercise, Faculty members are required to bring any Branch Specific artefact/component/product with them. It may be small stapler, scissors, punch, mouse, keypad, old mobile phones etc.

(2) Certificate will be only issued to the participants upon successfully completing training for all four days. University will not entertain anyone in any case for any institute related or personal work during the period of FDP.

Should you have any query, kindly write us on: design@gtu.edu.in