

GUJARAT TECHNOLOGICAL UNIVERSITY

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Working towards an OPEN DESIGN SCHOOL and a CENTER for
INDUSTRIAL DESIGN

One-day Faculty Workshop

on

Development of Design Driven Innovation Assignments for Engineering Subjects

28th September, 2013

Venue: Gujarat Technological University, Chandkheda Campus, AHmedabad

Time: 10:30 am

HOW TO REGISTER

Engineering Faculty can send their registration form, by email on or before 26th September, 2013 at conference@gtu.edu.in.

There is no registration fee for faculty from GTU affiliated Engineering colleges.

“Teachers are leaders; it is they who create the paths today for the innovations of tomorrow.”

The Need:

Engineers are the creators of tomorrow. But to fulfill this, engineers require structured thinking, process, tools and techniques by which they could be continuously innovative to generate creative ideas for the future, as Knowledge and Creativity are the drivers of human progress and have become absolutely necessary in this era. Design approach is found to be greatly beneficial in achieving this.

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Impact:

- To make the engineering students develop a positive mindset for professional design driven innovation with the required thinking, skills and abilities that gets reflected in their academic.
- This approach imbibed in the engineering curriculum will help engineering students to relate with real life problems and situations, think in a holistic manner, develop multidisciplinary approach, learn by doing (assignments and projects), develop creative thinking and approach a situation or problem with a clear purpose.
- In short it will help develop a temperament for problem solving, decision making and original thinking.

Benefit to students:

The introduction to the learning and practice of structured design driven innovation is what will enable the engineering students to not just perform better, but they will be better equipped for the industry. This in turn will directly impact upon the kind of companies and jobs that will get the kind of job roles they could seek, and thus, result into higher pay packages.

Objectives:

The workshop shall aim at introducing Design & Design Driven Innovation to the faculty members and discuss upon how some systematic processes, thinking, concepts, tools and techniques could lead to **development of Design Assignments for each subject of engineering**.

- To empower the faculty to guide and mentor students for following and practicing the systematic design driven innovative process with the tools and techniques shared in the workshop.
- To discuss with faculties upon the usefulness of design driven innovation for each subject of engineering.
- To develop Design Driven Innovation Assignments for each subject of engineering through co creation workshop with faculty members.

Workshop Content outline:

1. Overview – Role & Value of Design Driven Innovation
2. Design process and Innovation

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3. Preparations and Capacity Building skills
4. Developing innovative thinking and mind set & attitude
5. Framework for developing Design Assignments for Engineering Subjects
6. Co Creation of Design Driven Assignments for engineering subjects.

Profile of the Mentor:

Prof. Rohit Swarup is Recipient of Shiksha Bharti Puraskar 2009 & Indian Leadership Award for Educational Excellence 2010. He is the Chairman of Innovation & Research Foundation carrying out education and consulting work in the areas of Innovation and Design. He is working with Govt. of various countries and Indian State Governments on projects related to an innovative education ecosystem creation for knowledge era.

He is Founder Director Xplora Design Skool, India's premier Vocational Multimedia & Animation Education Company spread across 125+ campuses in 22 states of India, and, Founder Director Design 4 School implementing Design Subject, Culture Zones and Lab in schools in India and USA. Setting up of K12 Schools on design pedagogy.

He is actively involved in prestigious teaching, case development, authoring, as well as, consultancy assignments with prominent Institutions, such as, NID and IIM Ahmedabad.

He is on the board of Asian Retail Congress. He has a Bachelors degree in Mechanical Engineering and PG Diploma in Business Management.