SAL INSTITUTE OF TECHNOLOGY & ENGINEERING RESEARCH

Department of Computer Engineering

<mark>WORKSHOP</mark>

On

<mark>"Problem Solving And Ideation"</mark>

24th November, 2021.

Director & Principal: - Dr. Rupesh Vasani

Head of Department: - Prof. Sudha Patel

Workshop Conducted by: - Mr. Mitesh Soni (MECH), Chartered Engineer

Date: 24/11/2021

SAL Institute of Technology and Engineering research, Ahmedabad

Venue: SAL Institute of technology & Engineering Research

Mode of Workshop: Online – Zoom

Title of Workshop: Problem Solving And Ideation

Name of speaker :- Mr. Mitesh Soni

No. of students Participated: 40

No. of faculties Participated: 03

No. of external Participated (if any): Nil

Short Profile of Expert (If outside of Institute): B.E(Mech.), Gujarat, INDIA

Founder & Principal Trainer of MRH Enterprise, a Training & Development company since 2006.

AMA certified Behavioural skill Trainer

Business Coach

Chartered Engineer

Objective:

Conduct a Workshop on Problem Solving and Ideation to explain Design Thinking Process.

Brief points regarding understanding the problem by having the right mindset, right assumptions. After understanding the problem thoroughly, the problems and frustration related to them need to be figured out. Empathy Mapping was the bedrock in the discussion which leads to innovations and novelty in solution.

Then when it came to ideation, developing ideas and finding the right answer to the problem, brain walking, developing ideas, challenges etc. were well discussed. Critical thinking was emphasized.

Benefits in Terms of Learning, Skills & Knowledge:

Process of Developing Ideas those are Original and useful all over the world. Those ideas should be such that are novel and bring a solution to the Problem.

About the Event:

The Department of Computer Engineering of SAL Institute of Technology & Engineering Research has organized a workshop on "Problem Solving and Ideation" for the Second Year Students. Innovation is creativity with a value in itself. And a Useful Creativity strives to reduce the load of old burdened routines and problems. This workshop was organized so that students can understand the Design Engineering Process and prepare themselves to move towards keeping their goals towards Innovation and new inventions in technology areas.

Highlights of the Workshop:

The workshop started with the Prayer of Goddess Of Knowledge then the basic introduction of the topic and the Introduction of Institution's Innovation Council. The concept of the thinking process was explained along with the different examples of small different innovations which explained that even with the small efforts, big cumulative, routine problems can be tackled. If such small innovations can change people's life, then when these efforts are managed well with Brainstorming by all engineers, the world can be an easy and facilitated place to live in.

Steps of Problem Solving, Rules of Brainstorming and Concepts of Design thinking process were well explained in depth. The whole agenda of the workshop was to drive the student's mentality towards the Innovation, novelty in any area and making their contributions in a productive way. Also the concept of Empathy was bedrock to any invention, was well shown.

Six Step Problem` Solving

1. Recognize that a problem Exists

2. Analyze the Problem - Collect information

3. Identify the cause of problem (root Cause Analysis)

4. Identify the alternative solutions and evaluate them

5. Develop an action plan to correct the problem and take action
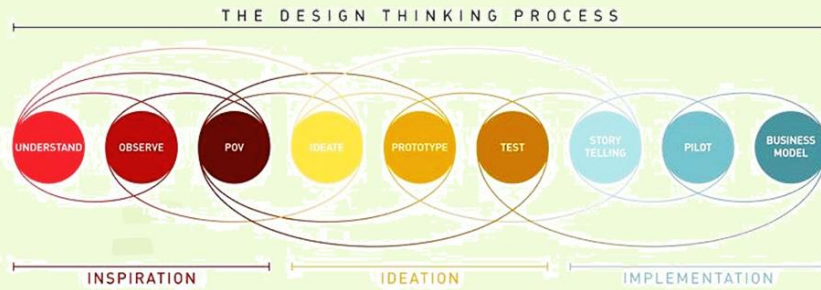
6. Verify that the problem has been corrected

6 rules of Brainstorming

- Defer Judgment
- Encourage Wild Ideas
- Build on the Ideas of Others
- Stay Focused on the Topic
- One Conversation at a Time
- Be Visual
- Go for Quantity

Design Thinking Process

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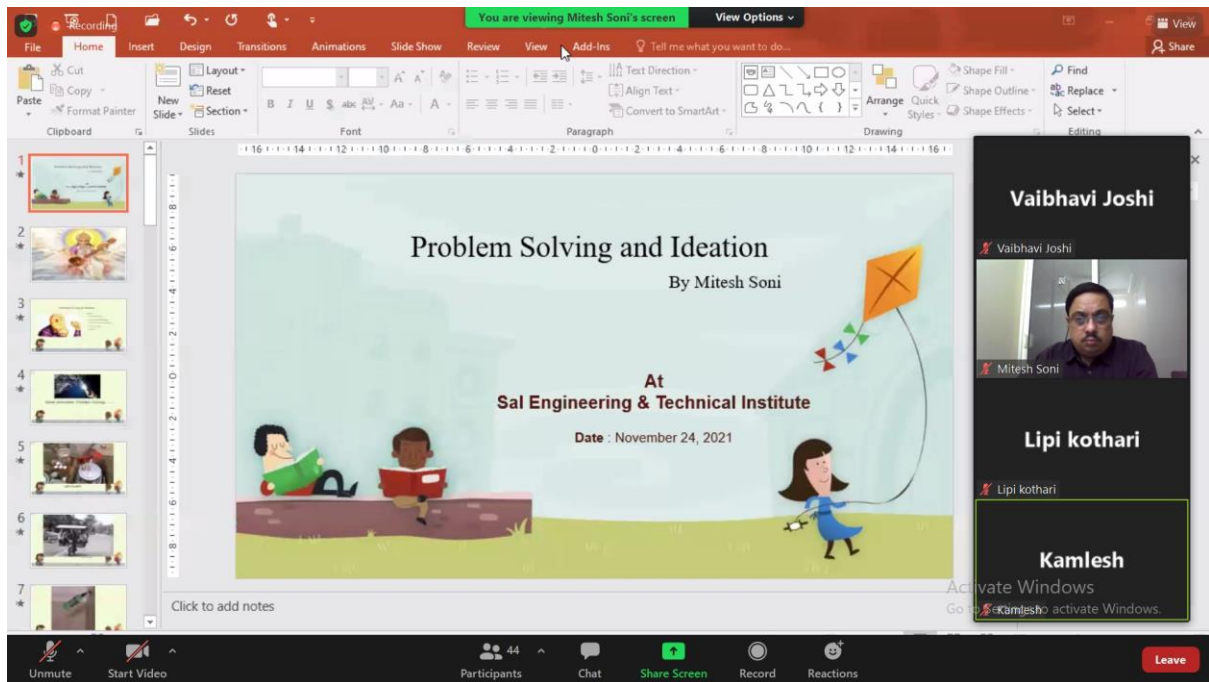
Total 43 Students have participated in this workshop by online mode of Zoom.

The link given to the students for online Workshop was https://zoom.us/j/95123073128?pwd=c2xNZHIzUU9yWHdrWS9GSEl3R1pKUT09

Meeting ID: 951 2307 3128

Passcode: SAL12345

Report Prepared By:

Prof. Jeenyta Harsh Parikh