



Problem Solving Session and Ideation Workshop



IIC Calendar Activity

16-02-2026

SSIP-IIC

GOVERNMENT ENGINEERING COLLEGE, VALSAD

Expert:

Dr. B. R. Sudani

Chemical Engineering Department

Coordinator

Dr. Rajesh C. Malan

1. Introduction

As part of the Institution's Innovation Council (IIC) Calendar Activity for the academic year 2024–25, a **Problem Solving Session and Ideation Workshop** was organized on 16th February 2025 under the joint initiative of SSIP and IIC at Government Engineering College Valsad.

The workshop aimed to enhance students' analytical thinking, innovation capability, and entrepreneurial mindset by guiding them through structured problem-solving methodologies and ideation techniques.

2. Objective of the Program

The key objectives of the session were:

- To develop structured problem-solving skills among students
- To encourage innovative thinking for real-world challenges
- To identify problem statements aligned with industry and societal needs
- To motivate students towards prototype development and startup culture under SSIP
- To strengthen the innovation ecosystem of the institute

3. Expert Details

The session was delivered by **Dr. B. R. Sudani**, Faculty Member, Chemical Engineering Department.

Dr. Sudani shared valuable insights on:

- Identifying real-life engineering and societal problems
- Converting problems into innovative project ideas
- Root cause analysis techniques
- Design thinking approach
- Feasibility assessment of innovative solutions
- Converting ideas into SSIP-supported projects

His interactive teaching approach and practical examples helped students understand how theoretical knowledge can be transformed into workable innovations.

4. Session Highlights

- Introduction to structured problem-solving frameworks
- Brainstorming activities in groups
- Identification of domain-specific problem statements
- Discussion on sustainable and cost-effective solutions

- Guidance on prototype development and funding opportunities under SSIP
- Interactive Q&A session

Students actively participated in brainstorming exercises and presented preliminary ideas addressing local and industrial challenges.

5. Participation

The workshop witnessed **57 enthusiastic participation from students** of mechanical branche.

6. Role of Coordinator

The event was coordinated by **Dr. Rajesh C. Malan**, who ensured smooth planning and execution of the program under the SSIP–IIC framework.

The coordination included:

- Planning as per IIC calendar guidelines
- Communication with expert and departments
- Student mobilization
- Documentation and reporting
- Ensuring alignment with innovation and startup objectives

7. Outcomes of the Workshop

The session resulted in:

- Generation of multiple innovative problem statements
- Increased awareness about structured ideation techniques
- Identification of potential SSIP project proposals
- Enhanced student confidence in tackling real-world engineering problems
- Strengthening of innovation culture at the institute

Several students expressed interest in developing their ideas further into prototypes and submitting proposals under SSIP funding schemes.



