

SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY



DEPARTMENT OF MECHANICAL ENGINEERING

Organized

PROBLEM SOLVING AND IDEATION WORKSHOP

Under the aegis of

INSTITUTE'S INNOVATION COUNCIL (IIC)

EVENT TITLE: "PROBLEM SOLVING AND IDEATION WORKSHOP"

Description of Problem Solving and Ideation

Problem-solving requires both an ability to correctly define a problem and finding a solution to it. Ideation in turn is often regarded as creativity, the ability to come up with new ideas and ways of doing, of testing the ideas and thus solving problems.

- To tell the students, the importance of innovation and idea generation.
- To develop them on out of the box thinking
- To develop problem solving skills of students
- To develop Entrepreneurial skills
- To make them successful future Entrepreneurs

Objectives of Problem Solving and Ideation

Finding creative solutions to complex problems: User research can insufficiently illustrate a situation's complexity. While other innovation processes rely on this information, creative problem-solving can yield solutions without it.

Adapting to change: Business is constantly changing, and business leaders need to adapt. Creative problem-solving helps overcome unforeseen challenges and find solutions to unconventional problems.

Fueling innovation and growth: In addition to solutions, creative problem-solving can spark innovative ideas that drive company growth. These ideas can lead to new product lines, services, or a modified operations structure that improves efficiency.

Benefits in terms of learning/skills/knowledge obtained

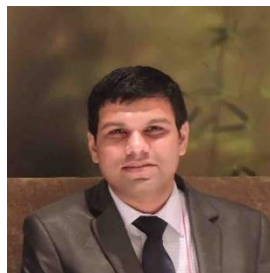
Balance Divergent and Convergent Thinking: Creative problem-solving uses two primary tools to find solutions: divergence and convergence. Divergence generates ideas in response to

a problem, while convergence narrows them down to a shortlist. It balances these two practices and turns ideas into concrete solutions.

Reframe Problems as Questions: By framing problems as questions, you shift from focusing on obstacles to solutions. This provides the freedom to brainstorm potential ideas.

Defer Judgment of Ideas: When brainstorming, it can be natural to reject or accept ideas right away. Yet, immediate judgments interfere with the idea generation process. Even ideas that seem implausible can turn into outstanding innovations upon further exploration and development.

Brief about the Resource person



Mr. Mahesh Hegde

Founder and Managing Director

LearnEx Consulting Pvt.Ltd

- **Education:** BE in Mechanical Engineering from Sir M Visvesvaraya Institute of Technology (1997-2001)
- **Experience:** 22 years of experience, 19 years of it has been dedicated to training and consulting in the field of quality.
- Trained by Japanese and Indian TQM Sensei Prof. Hitoshi Kume and Mr. N. Ramanathan. Trained in "Production System" by Renault-Nissan Institute in France.
- **Expertise:** Specialized in TQM, Lean, and Six Sigma. Daily shop floor management, World Class FMEA, SPC, Best in class SOP, MSA, human error prevention, structured problem-solving tools.
- **Research and Publications:** Presented papers at international conferences including ICQ in Tokyo, Asian Network for Quality, Alucast, NIQR, QCI, and ISQ.
- **Project Experience:** Successfully facilitated more than 2500 problem-solving projects both basic & and advanced level problem-solving projects, with participants winning awards at national levels such as CII, ACMA, and ISQ and helped to implement best-in-class manufacturing practices to achieve zero defects

- **Training Experience:** Trained more than 15,000 people, including senior management, in the journey of excellence in India and overseas.
- **Strengths:** Possesses in-depth subject knowledge, impactful training delivery, practical facilitation experience, and skills along with mesmerizing magic.
- **Clientele:** Served more than 100 companies, including large and medium-sized organizations, in the automotive OEMs, Tier 1, process industry, service industry, and pharmaceutical industry sectors.

Poster of the Event



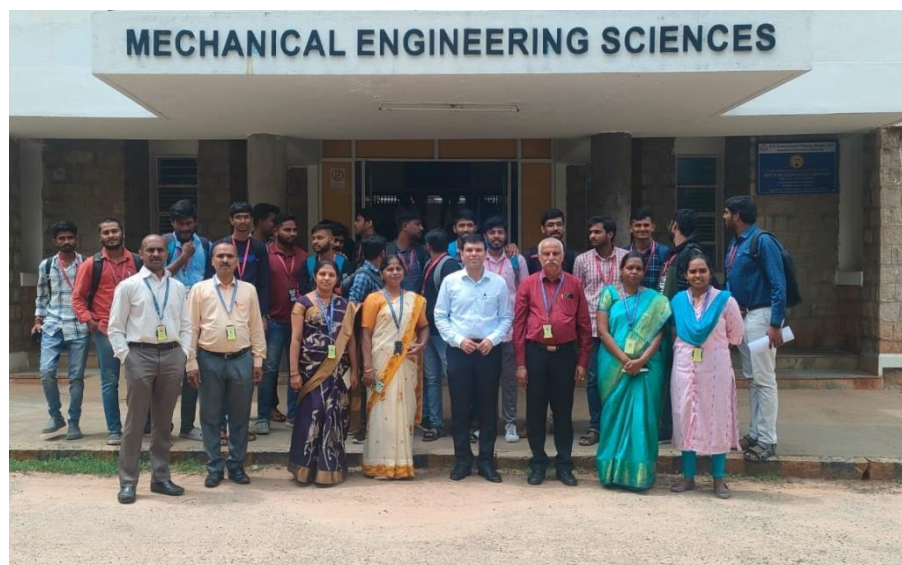
Summary of the Event

The resource person for the workshop was Mr. Mahesh Hegde, at the outset the students were welcomed and inaugurated the event, gave awareness about Institutions Innovation Council (IIC).

The speaker briefed about the Problem solving and analysis, objectives of the workshop, and TQM, Lean, and Six Sigma. Daily shop floor management, World Class FMEA, SPC, Best in class SOP, MSA, human error prevention, structured problem-solving tools.

At the end oath of thank was given by the student and arranged for group photo of the event.

Related Photographs of the Event



Group Photo with Team Members