



Tomorrow's Engineers Club Event



An Autonomous Institute

Affiliated to Visvesvaraya Technological University, Belagavi
Approved By AICTE, New Delhi
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Accredited by NBA and NAAC

A 3-day Workshop on 'Creative Thinking, Innovation and Problem-Solving'

Dates of the Event	24.02.2020 to 26.2.2020
Title of the Event	A 3-day Workshop on 'Creative Thinking, Innovation and Problem-Solving'.
Organized by	Tomorrow's Engineers Club
Name of the Coordinator	Prof. Sanchari Saha, AP & HOD, Dept. of ISE

Considering societal problems as one of the major concerns of future Engineers, the 'Tomorrow's Engineers Club' of MVJCE conducted a 3-day Workshop on 'Creative Thinking, Innovation and Problem-Solving', from 24th February to 26th February 2020, at Seminar Hall 5, MVJCE, from 10:30 am to 4:00 pm. The main objective of this workshop was to provide a platform to students from all the disciplines to work together, utilize the skill sets of each discipline, think out-of-the-box, and present solution ideas to various open-ended societal problems that are present in our surroundings. 51 students from various Engineering disciplines participated in the Workshop. 9 interdisciplinary groups were formed, each group identified a societal problem and presented its solution idea:

Day 1 (24.02.2020):

The faculty Mentors for the 1st day of the Workshop were Prof. Sanchari Saha (HOD, Dept. of Information Science Engineering), Prof. Muralidhara R (HOD, Dept. of Civil Engineering) and Prof. Rakesha Sharma (Assistant Professor, Dept. of Mechanical Engineering).

The session started with a brief introduction of the Workshop by Prof. Sanchari Saha. Following that, Prof. Rakesha Sharma highlighted the role of Engineers in solving various societal problems. Prof. Muralidhara R given a brief outline on creative thinking, innovation and problem-solving process. The 9 interdisciplinary teams then presented open-ended problems:

Group 1: Mechanical Movement of Artificial Body Parts

Group 2: Traffic Management with Accident Prevention

Group 3: Smart Public Safety & Security

Group 4: Security assist, Prediction and Prevention

Group 5: Farm Bazaar

Group 6: Sustainable Waste as Construction Material

Group 7: Noise Reduction in Aircraft Engines

Group 8: Floating Power Plant

Group 9: Water Life Conservation



A 3-day workshop on 'Creative Thinking, Innovation & Problem Solving' by Tomorrow's Engineers Club_Day 1_24.2.2020 at Seminar Hall 5, MVJCE: Team members presenting problem statement.

Day 2 (25.02.2020):

The Facilitator for the 2nd day of the Workshop was Prof. Keerthi Pai (Assistant Professor, Dept. of Chemical Engineering).

The second day of the Workshop started with a brainstorming session on the identification of issues around us, by Prof. Keerthi Pai. Through this session, the participants understood the importance of a systematic approach to solving a problem. Following this, the student teams were asked to find the solution for their chosen open-ended problem. The teams presented their solutions to the faculty Mentors.



A 3-day workshop on 'Creative Thinking, Innovation & Problem Solving' by Tomorrow's Engineers Club_Day 2_25.2.2020 at Seminar Hall 5, MVJCE: Team members presenting proposed solution.

Day 3 (26.02.2020):

The Facilitators for the 3rd day of the Workshop were Prof. Kavyashree C (Assistant Professor, Dept. of Computer Science Engineering), and Prof. Sanchari Saha (HOD, Dept. of Information Science Engineering).

A lecture on 'Types of stakeholders and their importance in problem-solving' was delivered by Prof. Kavyashree C. Prof. Sanchari Saha explained how to set an objective and an action plan, to implement the proposed idea, and to finally create a market-ready product. After this, the teams were asked to identify the stakeholders for their chosen problem. The team members then explained the importance of the stakeholders, in the context of their problem.



A 3-day workshop on 'Creative Thinking, Innovation & Problem Solving' by Tomorrow's Engineers Club_Day 3_26.2.2020 at Seminar Hall 5, MVJCE: Team members presenting identified stakeholders for their proposed solution.

The workshop concluded with vote of thanks and certificate distribution to all the participants



A 3-day workshop on 'Creative Thinking, Innovation & Problem Solving' by Tomorrow's Engineers Club_Day 3_26.2.2020 at Seminar Hall 5, MVJCE: Participants receiving certificates from Dr. P Mahabaleswarappa, Principal, MVJCE and Prof. M Brindha, Vice Principal, MVJCE



A 3-day workshop on 'Creative Thinking, Innovation & Problem Solving' by Tomorrow's Engineers Club_Day 3_26.2.2020 at Seminar Hall 5, MVJCE: Participants receiving certificates from Dr. P Mahabaleswarappa, Principal, MVJCE and Prof. M Brindha, Vice Principal, MVJCE.

Outcome:

Students got an awareness on the various thinking skills which are required to be applied for improving their solution ideas. They also understood the importance of thinking out-of-the-box, instead of following the traditional approach of solving a problem.