"A 3-day Workshop on "Creative Thinking, Innovation and Problem Solving"
Theme: Health Tech

# Report on a 3-day Workshop on 'Creative Thinking, Innovation and Problem Solving'
# Theme: Health Tech

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| **Date of the Event** | 2/1/2023 to 4/1/2023 |
| **Title of the Event and Lecture** | A 3-day Workshop on 'Creative Thinking, Innovation and Problem Solving'. Theme: Health Tech |
| **Names of the Resource Speakers** | Prof. Jeeva B<br>Assistant Professor, ECE Dept.<br><br>Prof. Muralidhara R<br>Associate Professor, Civil Engineering Dept.<br><br>Dr. Sunil Shankar<br>Associate Professor, Mechanical Engineering Dept. |
| **No. of Participants** | 117 |
| **Venue** | Smt. Rajalakshmi Seminar Hall |

Considering societal problems as one of the major concerns of future Engineers, the Tomorrow's Engineers Club of MVJCE, in association with IIC & IQAC, conducted a **3-day Workshop on 'Creative Thinking, Innovation and Problem Solving', Theme: Health Tech,** from 2nd to 4th January, 2023, at Smt. Rajalakshmi Seminar Hall, 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 the various open-ended societal problems that are present in our surroundings. 117 students from various Engineering disciplines participated in

this Workshop. 9 interdisciplinary groups were formed, and each group identified a societal problem and presented its solution idea.

The inaugural function was graced by Dr. P. Mahabaleswarappa (Principal, MVJCE) and Dr. M. Brindha (Vice-Principal, MVJCE).

**Day 1 (2.1.2023):**

The Faculty Mentors for the 1st day of the Workshop were Prof. Jeeva B (Assistant Professor, ECE Dept.) and Prof. Muralidhara R (Associate Professor, Civil Engineering Dept.).

The session started with a brief introduction of the Workshop by Prof. Muralidhara R. He gave a brief outline on creative thinking, innovation and problem-solving process. Following this, Prof. Jeeva B highlighted the role of Engineers in solving various societal problems.

**Students attentively listening to the Lecture**

The 9 interdisciplinary teams then presented open-ended problems:

**Group 1:** Emergency Sensor for Epilepsy Patients

**Group 2:** Automated Health Care System for Paralysis Patients

**Group 3:** Assistant Robot for Visually Impaired

**Group 4:** Hakkii (Mental Health App)

**Group 5:** Baby Monitoring System

**Group 6:** Eye Strain Sensor

**Group 7:** Nurse Bed

**Group 8:** Smart Water bottle

**Group 9:** Pill Management

**Team Members presenting their problem statements**

**Day 2 (3.1.2023):**

The Facilitator for the 2nd day of the Workshop was Prof. Jeeva B.

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

**Team Members presenting proposed solution**

**Day 3 (4.1.2023):**

The Facilitators for the 3rd day of the Workshop were Prof. Jeeva B and Dr. Sunil Shankar.

A lecture on 'Types of Stakeholders and their Importance in Problem-solving' was delivered by Prof. Jeeva B. Dr. Sunil Shankar 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.

**Team Members presenting identified stakeholders for proposed solution**

The orkshop concluded with vote of thanks.

**The Students with the Resource Speakers**

**Outcome:**

Students gained awareness on the thinking skills that are needed 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 to solve a problem.