

REPORT OF TOMORROW'S ENGINEERS' WORKSHOP

The "Tomorrow's Engineers" Club organised a three-day workshop on "**Societal Concerns and Contribution to Solve Societal Problems**" under the workshop series on "Problem-Solving ISkills –An innovative and Creative Approach".

The workshop was inaugurated on 1/3/17 by Prof. Brindha M, Vice Principal, MVJCE. Forty students from various disciplines of engineering participated in the workshop. The workshop's facilitators were Prof. Ravikanth Talluri (HOD, Dept. of Civil Engineering), Prof. Muralidhara R (Associate Professor, Dept. of Civil Engineering), Prof. G L Chandrashekar (Associate Professor, Dept. of Mechanical Engineering), PProf Jeeva, Assistant Professor, Dept. of Electronics and Communication Engineering), Keerthi Pai (Associate Professor, Dept. of Chemical Engineering), Prof. Puvada Praveena (Associate Professor, Dept. of Electrical Engineering) and Prof. Sreedevi N (Associate Professor, Dept. of Computer Science and Engineering)

Recognising the need for problem-solving capability among tomorrow's engineers, the "Tomorrow's Engineers" Club of MVJCE is organising a series of workshops. This workshop was the third one organised since the club's launch in March 2016.

The brief details of the workshop are as follows.

On day one (1/3/17)

The participants understood the importance of problem-solving skills and the role of engineers in society. Teams (with interdisciplinary participants) were formed, and open-ended problems were given to the teams.

On day two (2/3/17)

The participants had an insight into a systematic approach to solving a problem. The teams were asked to find the solution for their chosen open-ended problem. The teams presented their solutions to the jury.

The challenges of sustainability and responding to climate change define the careers of 21st-century engineers. This workshop gave a platform for a new conception of engineers to meet these challenges.

The open-ended problems discussed in the workshop were.

- Recycling
- Lifestyle tracking system
- Health care system
- Drinking water crisis
- Urbanization
- learning facility for rural school children
- Cyber hacking or cybercrime.

The problems chosen by teams were

Team I- Precision Agriculture- Agricultura

Team II –Conservation and recycling

Team-II- Lifestyle tracking system-Soldiers tracking system.

Team-III- Health Care

Team –IV- Recycling- eco-friendly waste management.

Team V- Precision Agriculture- Drone Agriculture.

On day three(3/3/17)

Importance of stakeholders in problem solving was made clear to the participants.

The teams had to choose their problem and identify stakeholders for it.

The problems identified by the teams are related to understanding the importance of stakeholders.

Finally, the workshop concluded with a valedictory programme. The dignitaries present in the valedictory session were the guest of honour, Dr. B N Suresh, President INAE and Chairman GC, MVJCE; Sri M J Balachander, Chairman MVJCE; and Prof. Brindha M, Vice Principal MVJCE. Dr B N Suresh, the driving force of the Tomorrow's Engineers Club, addressed the participants and gave suggestions for the club's follow-up activities. Certificates were distributed to the participants.