

## **REPORT OF TOMORROWS ENGINEERS WORKSHOP**

The “Tomorrows Engineers” Club organised a three day workshop on “**Societal Concerns and contribution to solve societal problems** “ under the workshop series on “Problem Solving skills –An innovative and Creative approach” .

The workshop was inaugurated on 23/3/17 by Dr. N. Gunasekaran , Principal , MVJCE and Prof. Brindha M, Vice Principal, MVJCE. 40 students from various disciplines of engineering participated in the workshop. The Facilitators of the workshop 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),Prof Jeeva(Associate Professor, Dept. of Electronics and Communication Engineering),Prof. 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 in tomorrow’s engineers the ”Tomorrow’s Engineers” Club of MVJCE organises a series of workshops. This workshop was a third workshop organised since the launch of the club in March 2016.

The brief details of the workshop is as follows

### **On day one(23/3/17)**

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

### **On day two(24/3/17)**

The participants had an insight on systematic approach to solve a problem. The teams were asked to find the solution for the open ended problem they chose. The teams presented their solutions to the jury.

The challenges of sustainability and responding to climatic change define the careers of 21<sup>st</sup> century engineers. This workshop gave a platform to a new conception of engineers in order to meet these challenges.

The open ended problems discussed in the workshop were.

- Recycling and Conservation
- Life Style tracking system
- Health care system
- Loss of Green cover on earth
- Precision Agriculture
- Drinking water crisis
- Urbanization
- E- learning facility for rural school children
- Cyber hacking or cybercrime.

The problems chosen by teams were

team I- Precision Agriculture-Smart Agriculture.

Team II –Conservation and recycling- Sterling Cycle using solar energy.

Team-II- Life style tracking system-Soldiers tracking system.

Team-III- Health Care – Managing accidents in a smart way.

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

Team V- Precision Agriculture- Modern Agriculture.

### **On day three(25/3/17)**

Importance of stake holders in problem solving was made clear to the participants. The teams had to choose their own problem and identify stake holders for that problem.

The problems identified by the teams for understanding the stakeholders were

Team I- Develop-Onn ( System for all round skill development for school children)

Team II –Drones used during medical emergency to send blood bottles from blood bank to hospitals.

Team-III- Smart valuation method for VTU

Team –IV- Unemployment in India.

Team V- one drop...? (Kasadinda Rasa)- solution for water crisis

Finally the workshop concluded with 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, Dr.N Gunasekaran ,Principal MVJCE and Prof. Brindha M ,Vice Principal MVJCE. Dr B N Suresh who is the driving force of the Tomorrows Engineers Club addressed the participants and gave suggestions for the follow up activities of the club. Certificates were distributed to the participants.



