

**Backpacker's Guide**

The ability to compartmentalise is an important skill in contemporary times

PAGE 3

**Science & Technology**

A study shows that prime numbers with identical last digits avoid falling next to each other

PAGE 2

**Goalpost**

For those interested in studying Networking, the programme at DeVry University is an option

PAGE 4



Exam Prep | Admissions | Scholarship alert | Internships | Offbeat careers | Science | Technology | Campuslife

Academy Connects Initiative

Fashioning tomorrow's engineers

A three day intensive technical workshop was organised recently in the MVJ College of Engineering to foster "Tomorrow's Engineer" with the aim to enhance student skills on problem identification using interdisciplinary team effort, understanding interabilities, analysing and finding appropriate as well as innovative solutions/alternatives.

The three day workshop was inaugurated by former head of India Space Research Organization (ISRO), Dr. Kishorewaray Kasturirangan, while Dr. D. N. Suresh, President, Indian National Academy of Engineering (INAE) and Chairman of Governing Council of MVJCE was Guest of Honour. Other speakers such as Dr. K. Subrahmanya, Professor, Aerospace Engineering, IIT Bombay, Dr. Kona Hasturwaray (popularly referred as the father of India's Light Combat Aircraft (LCA), former vice chancellor, University of Hyderabad, former president of Aeronautical society of India, Dr. E. K. Jolly, Dr. A. S. Shiga and Mr. Tho also participated in the workshop.

Considering the college authorities for selecting the appropriate topic to motivate students in the field of Aero Space Engineering, Dr. Kasturirangan touched his academic initiatives and work experience while working with DVV/Avion Sarabhai. He stated the preferred student to come up with high tech design solutions in a low cost environment to meet Indian and global challenges.

In his interactive session with the students, Dr. Kasturirangan pointed that the present satellites developed by ISRO are at par with any US and European satellites and are capable of sustaining even the weakest radio communication from earth.

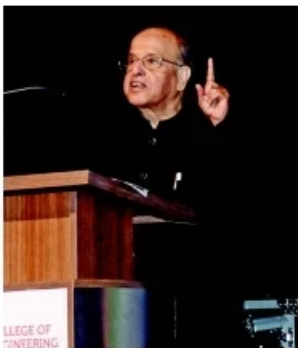
The first day saw Dr. Kona Hasturwaray expounding the importance of engineering research in India and the engineering of the Light Combat Aircraft while Dr. Subrahmanya stressed on the identification of problems and finding the right solutions. The activity of problem solving was taken up in the second day of the three day workshop, with the formation of six teams amongst the participants. The problems addressed included varied segments starting from organ transplantation, non-axonal conduct, clean India, to installation of warning alerts for drivers on approaching speed breaks. A bouquet of problem solving was showcased by IIT Bombay.

The final day witnessed an amazing problem solving approach being discussed by A. S. Shiga, known as "TRIZ/IZI, missing across our, seven in and eight across out. This was followed by a medal, "mexico end tomorrow". The day also saw an interesting algorithm, "an axiomatic innovation" being taught by Tho Kikon/Venart who is called on the participants to think out of the box when solving a problem. He also delved into theoretical applications the problem solving such as Psychological Inertia, TRIZ Philosophy.

Concluding that solutions differ but functions invariably remain the same, Venart added, "Thought identifies the main purpose for which engineering solution is built." He further gave insight on Ideality and Trimming along with the concept of 9 parameters and function oriented search. Discussion also continued on the contradiction in problem solving and use of innovation.

The three day workshop taught participants to become good innovators and entrepreneurs, and keep the head in the clouds but feet firmly on ground" as A. S. Shiga commented. The workshop, which had successfully inculcated young minds to think and work in the right direction, also prompted participants to pledge to take their learning forward by forming a club explicitly on "Tomorrow's Engineer" which would focus on various issues of the society such as waste management, energy, smart transportation system, women safety and so forth. Avion support was extended by the participating experts in the club to make MVJ College of Engineering a future hub of innovation.

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LLIGE OF CENTERING

