

CSSTEAP Newsletter

January, 2015



Centre for Space Science & Technology
Education in Asia and the Pacific (CSSTEAP)
(Affiliated to the United Nations)

..... on a mission of capacity building, under the initiative of the United Nations, for Asia and the Pacific Region in Space Science and Technology, through Excellence in Education, Training, and Research.

MARS ORBITER MISSION SUCCESSFULLY INSERTED INTO MARS ORBIT

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India's first inter-planetary mission - Mars Orbiter Mission (MOM) or 'Mangalyaan' was successfully placed into the Martian orbit in the very first attempt by Indian Space Research Organization (ISRO) on 24 September 2014. Honorable Prime Minister of India Mr. Narendra Damodar Modi witnessed the historical event in Bengaluru and congratulated the team ISRO. ISRO's Mars mission success has placed the country in the elite club of Mars explorers such as US, Europe and Russia. Over the past decades, of the 51 missions carried out across the world so far, only 21 have succeeded.

MOM was launched on November 5, 2013 from the First Launch Pad at Satish Dhawan Space Centre (SHAR), Sriharikota, Andhra Pradesh, using a Polar Satellite Launch Vehicle (PSLV C-25) rocket. One of the main objectives of this mission to Mars was to develop the technologies required for design, planning, management and operations of an interplanetary missions, as detailed below:

- Design and realization of a Mars orbiter with a capability to survive and perform Earth bound maneuvers, cruise phase of 300 days; Mars orbit insertion / capture, and on-orbit phase around Mars.
- Deep space communication, navigation, mission planning and management.
- Incorporated autonomous features to handle contingency situation.
- Exploration of Mars surface features, morphology, mineralogy and Martian atmosphere by indigenous scientific instruments.

Payloads of Mars Orbiter Mission

- Lyman Alpha Photometer (LAP)
- Methane Sensor for Mars (MSM)

Inside this issue

- India's Mars Mission
- LVM3-X/Care mission launch
- 19th Meeting of CSSTEAP Governing Board.
- GNSS-New Post Graduate course from August 2015.
- Master Degree Research Programme
- 19th Post Graduate Course on Remote Sensing & Geographic Information System.
- 9th Post Graduate Course on Satellite Meteorology and Global Climate
- 9th Post Graduate Course on Space and Atmospheric Sciences
- 3rd International Training Course on Navigation and Satellite Positioning Systems (NAVSAT)
- SAARC Regional Training Programme on GIS and Remote Sensing Technology in Disaster Risk and Emergency Management in South Asia with SAARC DMC
- Expert Group Meeting (EGM) and Specialised Training on Disaster rapid impact assessment using space-based information with UNESCAP