# 12th International training course

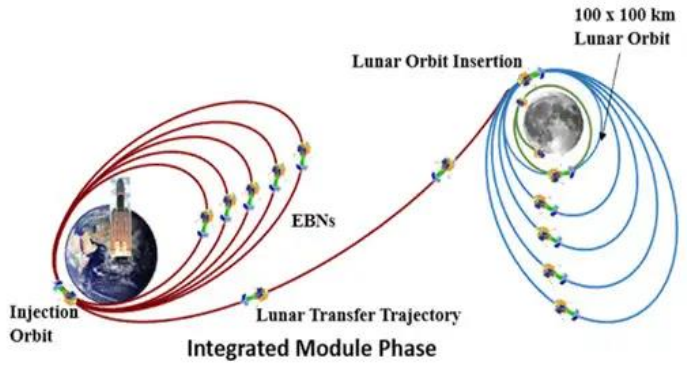
# on

# Small Satellite Mission

Organized By

Conducted By

(December 04 to December 15, 2023)




**Centre for Space Science and Technology Education in Asia and the Pacific (CSSTEAP)**
**(Affiliated to the United Nations)**
**IIRS Campus, 4, Kalidas Road, Dehradun, India**
**www.cssteap.org**

**Indian Institute of Remote Sensing (IIRS)**
**Indian Space Research Organisation (ISRO)**
**Department of Space, Government of India**
**4, Kalidas Road, Dehradun, India**
**www.iirs.gov.in**

**U R Rao Satellite Centre (URSC)**
**Indian Space Research Organisation (ISRO)**
**Department of Space, Government of India**
**Vimanpura Post, Bengaluru, India**
**www.ursc.gov.in**

# INTRODUCTION

Space technologies, especially satellites are important instruments for development and progress of humankind. Satellites are used for Earth observation, Communication, Navigation, Atmospheric studies, Astronomical observations and Military applications. Satellites provide uninterrupted services even in remote areas with less cost when compared with conventional methods for similar applications. With an increase in the awareness of benefits of space technologies, many countries are integrating space capabilities into their national development programmes. The increase in cost, complex technology, high fabrication skills and continuous service requirements restrict the satellite fabrication and launch to only a few countries or agencies. On the other hand, the revolution in electronics miniaturization, invention of smart materials has reduced the satellite size and mass. Further, the improvements in computation capability, high capacity storage devices, imaging and sensors technology, control intelligence and onboard automation have opened the opportunities to design and fabricate smaller, faster and cheaper sophisticated 'small' satellites for all.

# ABOUT CSSTEAP, IIRS AND URSC

CSSTEAP was established in India in November 1995 with its headquarters at Dehradun and over the past 27 years, the center has emerged as a Centre of Excellence in capacity building in the field of space science and technology applications.

The IIRS (established in 1966) is a key player for training and capacity building in geospatial technology and its applications through training, education and research in Southeast Asia. The training, education and capacity building programmes of the Institute are designed to meet the requirements of professionals at working levels, fresh graduates, researchers, academia, and decision makers.

The U R Rao Satellite Centre (URSC) in Bengaluru, is the lead centre of ISRO engaged in developing satellite technology and fabrication of satellite systems for remote sensing, communication, navigation, and scientific missions.

# OBJECTIVE OF THE COURSE

The overall objectives of the two weeks training course are

- To generate awareness among users/ researchers, professionals, decision-makers and academicians on small satellites.
- To generate awareness of the satellite applications, space technologies and international cooperation in space activities.

# COURSE CONTENTS

The structure of course is balanced between technical presentations, video / animation and assignments.

The following course content will be covered:

- Benefits of space technology
- Remote Sensing applications
- Technology involved in making satellites
- Applications of small satellites and future trends
- Management of small satellites

# COURSE FEE AND ACCOMODATION

A course fee of US $300 (equivalent to INR for Indian participants) is applicable which includes course materials. Accommodation for the participants will be arranged in hostel at IIRS, Dehradun. In addition the participants will have to pay Rs. 120 per day towards accommodation charges. However, for government sponsored candidates from Asia Pacific region, the director CSSTEAP may waive off the course fee.

The candidates are required to send their personal details/bio-data to the Course Coordinator, IIRS, Dehradun in the prescribed Application Form, online through CSSTEAP website. The candidates are expected to make their own arrangements for all expenses. Preference in admission will be given to the candidates who are financially supported by their organizations. A few fellowships covering to and fro international 15,500 for two weeks) in India are available from Government of India. However, first preference will be given to the fully self sponsored candidates and then to the candidates whose sponsoring organization will be bearing international to and fro travel.

# ELIGIBILITY AND SELECTION PROCESS

The course is aimed for decision makers, senior space technologists, managers, researchers and professionals in the fields of space technology.

- A limited number of seats are available for this course, which will be filled with participants from different countries.
- Government employees and professionals working in the field of space technology would be given priority.
- Candidates who have obtained a degree in electrical or electronics or mechanical engineering will be given preference. Candidate should have proficiency in English language as the course will be conducted in English medium.
- The selection of candidates will be carried out by a designated selection committee.
- Language of the course is English.

# HOW TO APPLY

Eligible candidates can apply online through the CSSTEAP website. Applicants are requested to send the application forwarded by the Head of their respective institute for consideration.

https://admissions.cssteapun.org/

- **Announcement of course: August 01, 2023**
- **Last date for application: August 31, 2023**

Incomplete applications will not be considered for selection.

# CONTACT DETAILS

**CSSTEAP**
(Email: cssteap@iirs.gov.in; Ph: +91-135-2524225
Indian Institute of Remote Sensing, Dehradun, India

**Course Director:** Sri.Nashiket Premlal Parate
(Email: nashiket@ursc.gov.in; Ph: +91-080-25082548)
U R Rao Satellite Centre, Bengaluru, India

**Course Coordinator:** Dr. Ashutosh Srivastava
(Email: asrivastava@iirs.gov.in; Ph: +91-135-2524133)
Indian Institute of Remote Sensing, Dehradun, India