



UNNATI

**UNispace Nanosatellite Assembly & Training
by ISRO**

**U R Rao Satellite Centre (URSC)
Indian Space Research Organization**

India's Contribution to UNISPACE+50

In the 50th anniversary of UNISPACE at Vienna on June 18, 2018 **India** announced

- ❑ Capacity building training programme, **UNNATI** (UNISpace Nanosatellite Assembly & Training by ISRO)
- ❑ More than 45 countries to be trained in 3 batches



UNNATI – Batch 1

30 participants from 17 countries were trained during January 15 to March 15, 2019

UNNATI – Batch 2

Registrations opened on June 01, 2019

Scheduled during October 15 to December 15, 2019

Enabling platform to make Nano satellites



UNNATI



29 Participants
from
17 Countries

UNNATI Programme Batch 1 at URSC - INDIA

UNNATI Batch-1 participants with Minister of State for Space, Govt. of India, Chairman, ISRO and Director, URSC





Practical Sessions in
Cleanroom



Classroom Sessions



**Glimpses of
UNNATI
Batch 1 at
URSC, Bangalore**



Chairman, ISRO witnessing Nanosatellite built by UNNATI participants

Feedback from Participants

Contents (Duration, Faculty Performance)	Course Materials (Brocket, CD)	Facilities (GA, rooms, food)	Logistics (Staff)
<ul style="list-style-type: none"> ▷ Strong theoretical background on Control Theory ▷ Time management ▷ Some lectures almost have the same content ▷ Lectures are general, Disjuncts and specific ▷ We only have pree time for full Assignment - Improve the coordination between lecturers to avoid repeat the topics - Try to make some simple exercises for each topic to improve the understandings 	<ul style="list-style-type: none"> ▷ DITA 3rd yr ▷ excellent ▷ It should be good if we receive a copy before about the classes to study (copy compressed) Suggestion: Visit to ISRO Environmental Test Facility - Big Trac Vibration Acoustics ▷ More details in material (math + main subjects) Very good! 	<ul style="list-style-type: none"> ▷ big zoom, comfortable bed; a little spicy food ▷ all conditions for zest Sug: indoor games: chess, carrom, badminton... etc outdoor games: Volleyball court etc Sug: Dinnertime - 6:00 pm to 7:30 pm Between 7 and 8 No It is ok at 8:30 pm Very good! Thank you! 	<ul style="list-style-type: none"> ▷ Very good hospitality ▷ Thank you for such an excellent logistic. Sug: a visit to Indian Cultural places such as: <ul style="list-style-type: none"> Indian Ocean Launch Site ▷ awareness of ISRO apparel such as: <ul style="list-style-type: none"> Shirts/palms ! ? Pina Excellent Logistics! Thank you very much! TDS - URSC



Finishing Touches in Cleanroom

Glimpses of UNNATI Batch 1 at URSC, Bangalore



Director, URSC addressing in valedictory function



UNNATI

UNNATI

(UNISpace Nanosatellite Assembly & Training by ISRO)

October - December, 2019



Welcoming Participants across the Globe
Registrations Closes on July 15, 2019

- ❑ The details of the training programme including application form are available at www.isro.gov.in/unnati.
- ❑ For clarifications, contact unnati@ursc.gov.in
- ❑ Selected candidates will be given economy class air fare to and from the country of origin to Bengaluru, India. Boarding and Lodging shall be provided by URSC, ISRO.

UNNATI

UNNATI BATCH 2 COURSE CONTENTS

Theoretical coursework

- Module 1: Basics of satellite technology and its applications (Duration: 2 weeks)
- Module 2: Nano satellite missions (Duration: 2 weeks)

Practical Exposure on Nano satellites AIT

- Module 3: Hands-on training on Nano satellite assembly, integration and testing (Duration: 4 weeks)

**COME, LEARN & BUILD NANO SATELLITE
WITH INDIA - ISRO**



UNNATI

UNNATI PROGRAMME OPPORTUNITIES 2019-2020

Batch 2

Commencement of Registration	:	June 01, 2019
Last date to apply	:	July 15, 2019
Finalization of Candidates	:	August 15, 2019
Commencement of Course	:	October 15, 2019
Completion of Course	:	December 15, 2019

Batch 3

Commencement of Registration	:	May 15, 2020
Last date to apply	:	June 30, 2020
Finalization of Candidates	:	July 31, 2020
Commencement of Course	:	October 15, 2020
Completion of Course	:	December 15, 2020



THANK YOU



UNNATI