



ISRO-Funded Offline Workshop
on
“Chandrayan Mission and
Applications”
under
Center of Space & Interplanetary
Exploration (COSINE), NIT Raipur
16th – 20th March 2026



Funded By

Indian Space Research Organization
Bangalore

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Centre of Space & Interplanetary Exploration
(COSINE) @ NITRR
G. E. Road, Raipur - 492010 (C.G.)

ISRO-Funded Offline Workshop
on

“Chandrayan Mission and Application”
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Organized by



National Institute of Technology
(An Institute of National Importance)
Raipur - 492010 (C.G.), INDIA

About the Institute:

National Institute of Technology Raipur is situated in the capital of Chhattisgarh. The institute has proven to be “avant-grade” in the field of science and technology over past few decades in this region. With sweet memory of foundation ceremony by our president Hon’ble Dr. Rajendra Prasad on 14th September 1956. The institute started with two departments namely Metallurgical and Mining Engineering. Later the inauguration of the Institute building was done by our Prime Minister Hon’ble Pt. Jawahar Lal Nehru on 14th March 1963. From 1st December 2005, the institute has become the National Institute of Technology. It is well connected with Mumbai, Delhi and all metro cities by regular flights and is on the main Howrah-Mumbai railway route. The institute is 5 km from the Raipur railways station and 18 km from airport, Great Eastern Road.

About COSINE:

The Centre of Space & Interplanetary Exploration (COSINE), established at NIT Raipur in December 2024, nurtures as interdisciplinary research and innovation in the space technologies. It integrates expertise across the science, engineering, AI, and defense to address the emerging space challenges. COSINE aligns with the national missions like the Aatmanirbhar Bharat and the IN-SPACe, aiming to advance India’s space ecosystem through education, collaborations, and technology-specific solutions for sustainable, secure, intelligent space exploration.

Venue:

Centre of Space and Interplanetary Exploration (COSINE), National Institute of Technology Raipur (NITRR), Great Eastern (G. E.) Road, Raipur – 492010, Chhattisgarh State, INDIA.

About the workshop:

This workshop covers the Chandrayaan-1 and the Chandrayaan-2 missions and their major payloads - M³, Mini-SAR, IIRS and DFSAR focusing on hyperspectral and radar remote sensing for the lunar studies. Participants will gain the hands-on experience in the data preprocessing, spectral-polarimetric analysis, mineral mapping, and water-ice detection and integrate multi-sensor interpretation for lunar surface characterization.

Target Participants:

Students, Research Scholars, Faculty Members of the Educational Institute and Industry Personnel would be intended participants of our workshop.

Invited Speakers:

The programme will be conducted by the Faculty Members of NIT Raipur. Scientists from ISRO and CGCOST, Academicians from IITs/NITs have been invited to deliver expert lectures in the programme.

Topics to be covered:

Day 1: Overview of Chandrayaan-1 and Chandrayaan-2 Mission & Scientific Payloads, Principles of Hyperspectral Remote Sensing for Lunar Mineralogy; and Lab Sessions

Day 2: Radar Remote Sensing of the Moon: Mini-SAR Principles & Polar Ice Detection, Interpretation of CPR, Backscatter, Ice-Bearing Signatures; and Lab Sessions

Day 3: Imaging Infrared Spectrometer (IIRS): Design & Scientific Applications, Spectral Indicators of Lunar Minerals & Hydration Features; and Lab Sessions

Day 4: Chandrayaan-2 DFSAR: Mission Objectives & Instrument Characteristics, Polarimetric SAR Theory for the Lunar Surface & Subsurface Studies; and Lab Sessions

Day 5: Integrated Use of M³, IIRS, Mini-SAR & DFSAR for Lunar Science, Case Studies: Water-Ice Detection, Mineral Detection; and Lab Sessions

Selection Process:

The course coordinators reserve the right of selection of participants. **The seats are limited to 30 candidates. The preference will be on first-come-first-serve basis.** Certificates will be issued to the participants only after attending the complete course.

No TA/DA will be paid to the participants. However, the accommodation facility may be provided to the candidates in nearby hotels on actual payment basis.

Registration Fee Details:

Participants	Registration Fees
NITRR Students (UG/PG /PhD)	₹ 590/-
External Students (UG/PG /PhD)	₹ 1,770/-
Faculty/Industry Persons	₹ 5,900/-

Registration Amount is Inclusive of 18% GST

Online Payment Transfer Details:

Account No.: 38027633250

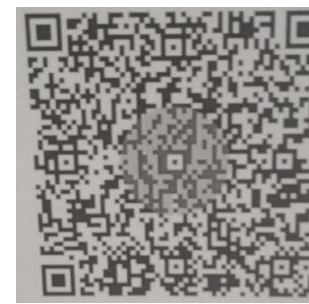
Account Name: Director, NIT Raipur

Bank Name: State Bank of India

IFSC Code: SBIN0002852

Link for Online Registration:

<https://tinyurl.com/ChandrayanWorkshop>



Registration Starts:	10-Feb-2026
Registration Deadline:	2 Mar-2026
Registration Confirmation:	6-Mar-2026