

भारत अंतरिक्ष अकादमी

अंतरिक्ष शिक्षा विभाग (आईएसडब्ल्यू)

बी ए/14 बी जनकपुरी

नई दिल्ली – 110058, भारत

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India Space Academy

Department of Space Education (ISW)

BA/ 14 B Janakpuri

New Delhi - 110058, India

Telephone no: 011-44749707, 8130317917

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Ref- ISA/IND/CIRCULAR/282/2026

Date: 27 May, 2026

From

Director

India Space Academy

New Delhi



To

Registrar, Vice Chancellor, Principal,

All Central Universities, State Universities, Deemed Universities,

State Private Universities, Colleges, Institutions,

All States - India.

Subject: Invitation to Register for “Summer Workshop: Hands-On Google Earth Engine for Simplified Satellite Data Analysis”.

Respected Sir/Madam,

The India Space Academy is pleased to announce its upcoming “Summer Workshop: Hands-On Google Earth Engine for Simplified Satellite Data Analysis”, scheduled to be conducted online on Sunday, 07 Jun 2026.

This workshop is designed to provide practical exposure to Google Earth Engine (GEE), a powerful cloud-based platform for processing and analyzing satellite data. The session emphasizes learning by doing, enabling participants to work directly with real satellite datasets and perform basic geospatial analysis in real time. This workshop is ideal for beginners who want to quickly gain confidence in handling satellite imagery without requiring high-end hardware or complex software installation.

We kindly request your esteemed office to circulate this information widely among your students, faculty members, and research scholars, encouraging them to register at the earliest. Participation in this workshop will not only enhance their academic and professional competencies but also strengthen institutional engagement in addressing pressing world challenges.

Workshop Details

- **Workshop Name:** Hands-On Google Earth Engine for Simplified Satellite Data Analysis
- **Workshop Date:** 07 June 2026 (Sunday)
- **Duration:** 2:30PM – 5:00 PM (150 min)
- **Mode:** Online
- **Language:** English
- **Eligibility:** UG/PG/PhD Students, Research Scholars, Faculty, and Professionals.
- **Technical Requirements:** Laptop/Desktop with stable internet connection
- **Certification:** All participants will receive a Participation Certificate upon successful completion
- **Registration Fee:** ₹270 per student: (Non Refundable)

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Registration Details

- **Registration Start Date:** 27th May 2026
- **Registration End Date:** 06th June 2026
- **Registration Link:** https://workshop.indiaspaceweek.org/google_earth_engine/

A detailed brochure outlining the workshop agenda and technical sessions is attached for your reference and distribution.

We sincerely look forward to your support in motivating your academic community to join this important initiative.



भवदीय
Anwar

निदेशक/Director

भारत अंतरिक्ष अकादमी/India space Academy

नई दिल्ली/New Delhi

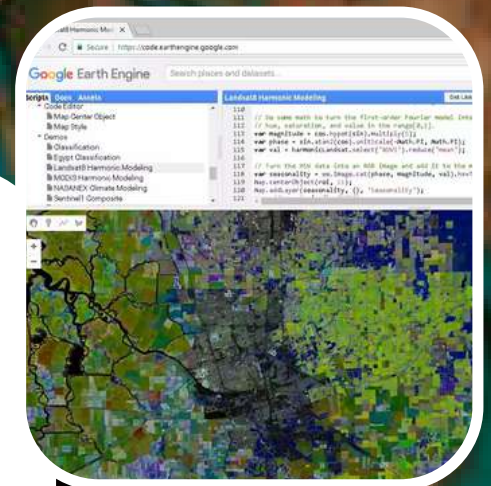
निदेशक कार्यालय/Director Office

भारत अंतरिक्ष अकादमी/India Space Academy



INDIA SPACE ACADEMY

DEPARTMENT OF SPACE EDUCATION
INDIA SPACE WEEK





SUMMER WORKSHOP

HANDS-ON GOOGLE EARTH ENGINE FOR SIMPLIFIED SATELLITE DATA ANALYSIS

ORGANIZED BY INDIA SPACE ACADEMY



INDIA SPACE ACADEMY



India Space Academy is an academic institution under the Department of Space Education of India Space Week.

India Space Week is an autonomous body supported by the central and state governments. The role of India Space Week is to promote space education and employment among the students, teachers, and research scholars of schools, colleges, universities, and institutions.

The academy develops workshops that spread awareness about the current requirements of the space industry. Additionally, it develops various programs to equip students with the necessary information, skills, practical experience, research exposure, and training to make them future-ready.



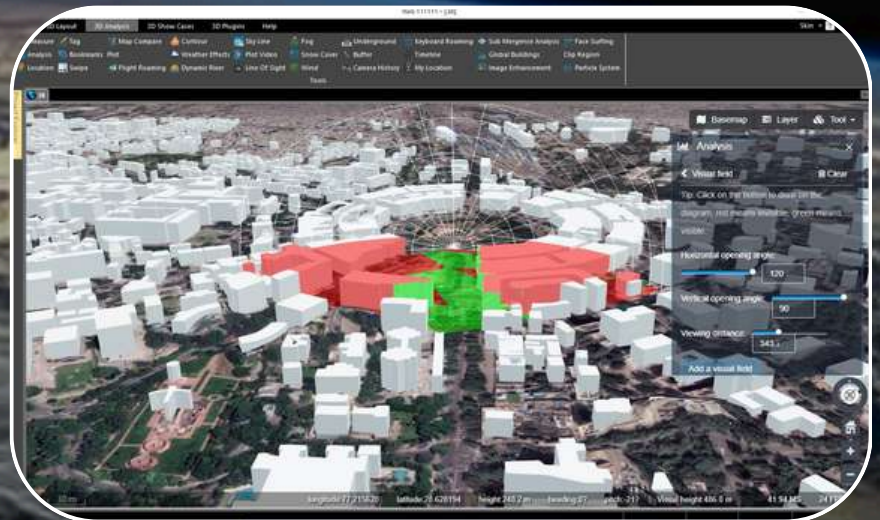
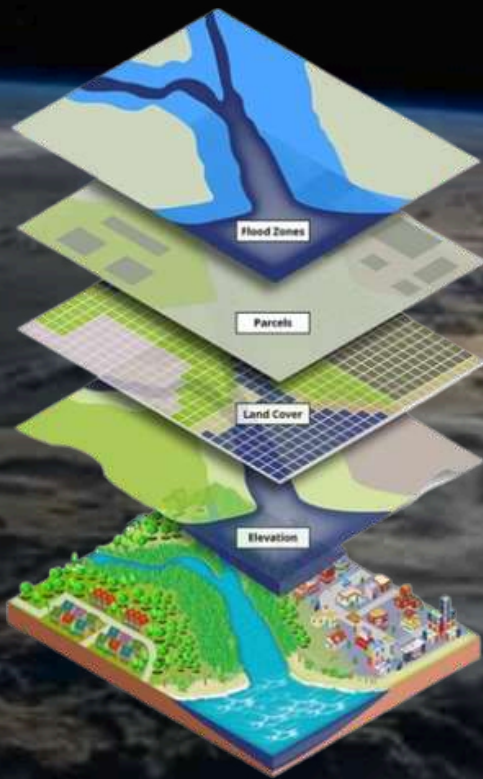


SUMMER WORKSHOP



OBJECTIVE

The objective of this Summer workshop is to equip participants with fundamental and practical knowledge of satellite data analysis using Google Earth Engine, with a strong focus on hands-on learning. The workshop emphasises working directly with real satellite datasets, understanding cloud-based geospatial workflows, and developing analytical skills applicable to academic projects and research.





WORKSHOP HIGHLIGHTS

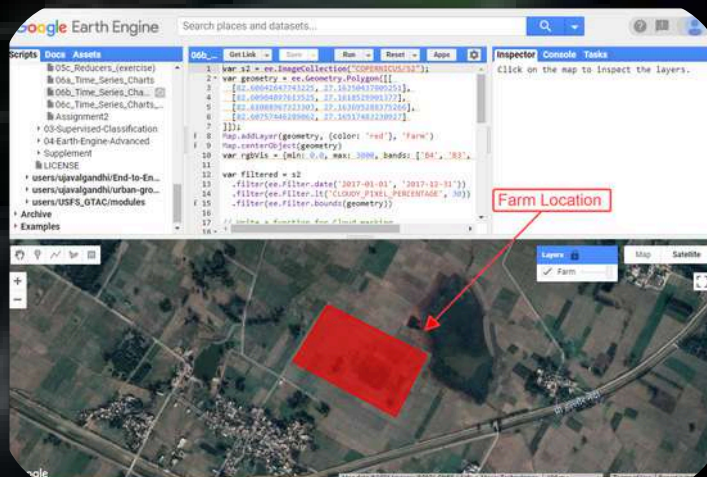


The workshop will begin with an introduction to Google Earth Engine and the concept of cloud-based geospatial analysis, enabling participants to understand how large-scale satellite data can be processed efficiently without local computational constraints. Participants will then be introduced to major Earth observation satellite datasets, including Sentinel-2 and Landsat, with an emphasis on their characteristics and applications.

The session will cover the fundamental concepts of Image and ImageCollection in Google Earth Engine, which form the backbone of temporal and spatial satellite data analysis. Participants will gain hands-on experience in satellite image visualization, learning to generate and interpret true color and false color composites for better surface feature identification. The workshop will also demonstrate the computation of vegetation indices, particularly the Normalized Difference Vegetation Index (NDVI), to assess vegetation health and spatial variability.



Further, participants will perform area-based analysis and basic statistical extraction over selected regions to derive meaningful quantitative information. Finally, the session will guide participants through the process of exporting maps and analytical results to Google Drive, allowing them to use the outputs for academic projects, research work, and reports.



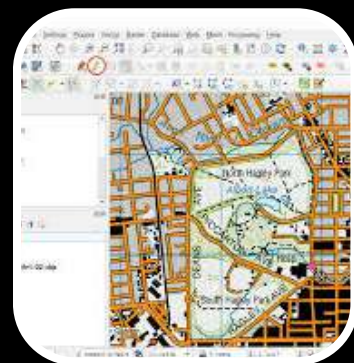


WORKSHOP HIGHLIGHTS



Things to Learn

- Introduction to Google Earth Engine and its interface.
- Accessing and visualizing satellite datasets (Sentinel & Landsat).
- Working with Image and Image Collections.
- Generating vegetation indices (NDVI).
- Area-based analysis and basic statistics.
- Exporting maps and data for projects and research.



Software Demonstration & Hands-on Session

A fully hands-on demonstration will be conducted using Google Earth Engine Code Editor. Participants will follow live workflows including loading satellite imagery, filtering data by time and region, visualizing images with appropriate parameters, calculating indices, performing region-based analysis, and exporting outputs. The session is designed to ensure that participants can independently replicate the workflows after the workshop and apply them in academic and research contexts.



Hands-on Activities

- Live coding in Google Earth Engine Code Editor
- Satellite image visualization and interpretation
- NDVI mapping and analysis
- Simple chart and statistical outputs
- Exporting results to Google Drive





LEARNING OUTCOMES

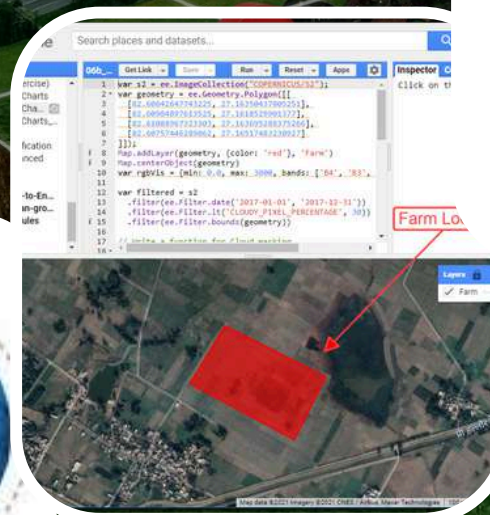


By the end of the workshop, participants will be able to:

- Independently navigate the GEE platform
- Perform basic satellite data analysis in the cloud
- Create and export maps and analytical outputs
- Apply GEE in academic projects and research work



Google Earth Engine



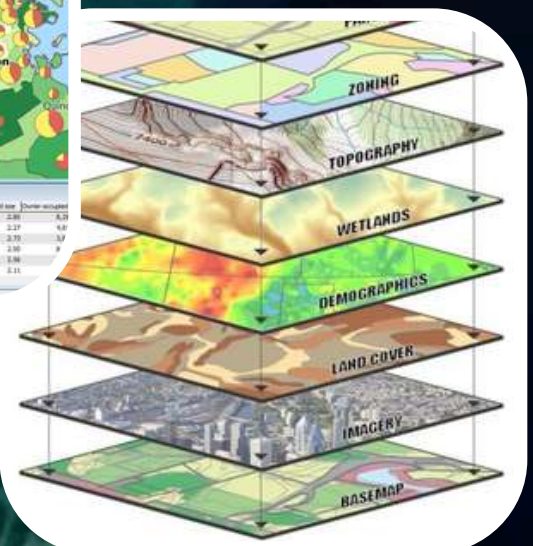
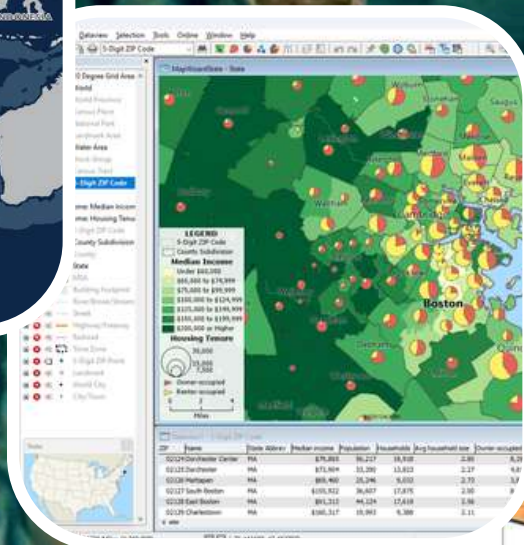


BENEFITS OF PARTICIPATION



Participants will leave with :

- Practical understanding of Google Earth Engine Hands-on experience with satellite data analysis
- Ready-to-use scripts for basic geospatial analysis
- Exported maps and analytical outputs
- Clear understanding of cloud-based Remote Sensing & GIS workflows





PROGRAM DETAILS



- **Mode:** Online
- **Start Date of Registration:** 27 May 2026
- **Last Date of Registration:** 06 June 2026
- **Workshop Date:** 07 June 2026
- **Time:** 02:30 PM - 05:00 PM
- **Session Length:** 150 Minutes
- **Eligibility:** Undergraduate & Postgraduate students, Faculty members, research scholars, Enthusiasts.
- **Registration Fee :** ₹270/- (Non-Refundable)
- **Certificate:** Participants will receive an official Certificate of Completion upon successful participation
- **Registration Link:**
https://workshop.indiaspaceweek.org/google_earth_engine/



CONTACT INFORMATION



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