

Remote Sensing Data Analytics in Agriculture

November 18– 29, 2024



INDIAN INSTITUTE OF REMOTE SENSING

Indian Space Research Organization
Department of Space, Government of India
Dehradun-248001, Uttarakhand

<https://www.iirs.gov.in/>

INTRODUCTION

Data analytics in Agriculture particularly has drawn considerable attention for agriculture application in fast few decades. Remote sensing, as one of the sources for big data, is generating earth-observation data and analysis results daily from the platforms of satellites, manned/unmanned aircrafts, and ground-based structures. Agricultural remote sensing is one of the backbone technologies for precision agriculture, which considers within-field variability for site-specific management instead of uniform management as in traditional agriculture. The key of agricultural remote sensing is, with global positioning data and geographic information, to produce spatially-varied data for subsequent precision agricultural operations. Agricultural remote sensing data, as general remote sensing data, have all characteristics of big data. The acquisition, processing, storage, analysis and visualization of agricultural remote sensing big data are critical to the success of precision agriculture.

OBJECTIVES

The prime objective of this course is to train the new entrants , young, as well as working professional in this domain so as to build capacity for utilization of the vast amount of global analytical datasets in this field.

NUMBER OF SEATS & ELIGIBILITY

A total of 20 seats available (all seats are for Indian nationals only)

Candidates with:

Graduate degree in Agricultural Sciences, Agricultural Information Technology, Agricultural Engineering, Computer Science Engineering, Environmental Sciences OR

Post-graduate degree in Agricultural and Allied Sciences including Agronomy, Agricultural Physics, Agricultural Meteorology, Agricultural Analytics, Crop Physiology, Remote Sensing/ Geo-information Science in Agriculture or equivalent.

HOW TO APPLY

Interested candidates are required to fill up the online application form available in IIRS website

(<https://admissions.iirs.gov.in/coursecalender>) Offline applications will not be considered.

Candidates nominated by the govt. organizations & professionals working in the field of Remote Sensing & GIS Applications in Agriculture will be given preference for admission.

TARGET PARTICIPANTS

This course is primarily meant to train working professional from govt. organizations, non-govt. organizations, Universities and Educational Institutions, entrepreneurs, researchers, in the area of remote sensing.

COURSE DURATION AND STRUCTURE

The duration of the course will be two weeks and consists of broad overview on current global and Indian sensors, data-analytics and applications including various dimensions on Agriculture. Special emphasis on current data utilization from various sensors for Agricultural data analytics will be covered. Detailed hands on experience is included.

About IIRS

Indian Institute of Remote Sensing (IIRS) is a premier institute with a primary aim to build capacity in Remote Sensing and Geoinformatics technologies and their applications through training & education, research and outreach programmes.



IIRS is a Unit of Indian Space Research Organisation (ISRO), Department of Space, Government of India. Formerly known as Indian Photo- Interpretation Institute (IPI), founded in 1966, the Institute is the first of its kind in entire

South-East Asia.

IIRS is one of the most sought after institutes for conducting specially designed courses for the officers from the Ministries of the Government of India and State Governments for effective use of Earth Observation (EO) data from satellites for the benefit of society. Ministry of External Affairs, Government of India has recognised IIRS to conduct international training courses for the participants from ITEC (Indian Technical & Economic Cooperation) Member countries in Asia, Africa, Latin America, Central and Eastern Europe, and several Pacific and Caribbean nations.

IIRS also hosts the headquarters of the Centre for Space Science & Technology Education in the Asia and Pacific (CSSTEAP), affiliated to the United Nations, and conducts its training and education courses in RS & GIS.

LOCATION & ACCESSIBILITY

Indian Institute of Remote Sensing (IIRS) is located in Dehradun, the capital city of the State of Uttarakhand, at a distance of about 260 km from Delhi and is well-connected by air, rail and road. The city is famous for its picturesque landscape, pleasant climate, high quality school education and is the gateway to several places of religious and tourist importance, such as Haridwar, Rishikesh, Mussoorie, etc.

ACCOMMODATION

Participants will be provided accommodation in IIRS hostel. All hostel rooms are well furnished and are allotted on single/double occupancy basis. Local candidates will be considered for hostel accommodation, only if available. Indian cuisine is served in the hostel mess. The expenditure towards boarding and lodging will have to be borne by the participants as actual rates of IIRS.

COURSE FEE

Application Fee: Rs.500

Course fee: Rs.12000

IMPORTANT DATES

Start date to apply: May 01, 2024

Last date to apply: September 22, 2024

Course start date: Nov 18, 2024

Course completion date: Nov 29, 2024

Announcement of selection list: Oct 21, 2024

For more information and further clarification, please write

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