

A short-term training program on

Remote Sensing and GIS applications in Environmental Impact Assessment and Management

Mode of Training:

Online

Schedule:

February 13-18, 2023

Duration: 6 days

Course co-ordinator

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Convener

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Course Fees:

Students – Rs. 1200/-

Sponsored* – Rs. 5000/-

Application link

<http://sdp.niist.res.in>

Payment through

Bank Transfer

The Director, CSIR-NIIST
(Regional Research Laboratory)

Account No: 67047723825

IFSC Code: SBIN0070030

Bank: State Bank of India,

Pappanamcode I.E.

* candidates sponsored by
industries/ research
organization/colleges

Introduction

CSIR-NIIST is a QCI-NABET (category-A) accredited EIA consultant having accreditation in Mining of Minerals and Ports and Harbors. We are instrumental in carrying out various EIA and other impact assessment studies from last 20 years. Currently, NIIST is engaged in R & D programs in areas related to Agro processing and technology, Chemical Sciences and technology, Materials Science and Technology, Microbial processes & technology, and Environmental Technology. The institute has established state-of-the-art facilities for conducting advanced research in the areas of interest. The institute has also been playing a significant role in Human Resource Development by training post graduate/graduate students, with over 250 Ph.D. degrees awarded till date based on research conducted in the institute.

About the course

This is the fourth year of the course and already 200 participants are benefited as part of the course. Environment Impact Assessment (EIA) is the study to predict the effect of any proposed activity on the environment. It is a decision-making tool which compares various alternatives for a project and arrives at one which represents the best combination of economic and environmental cost benefits. Remote sensing and GIS techniques, on the other hand, gaining popularity with recent advancements in geo-spatial techniques, tools and algorithms. RS & GIS finds a wide application in EIA specially in Land Use Land cover (LULC) analysis which forms a base for sampling design, understanding earth surface features of the study area and generating alternate scenarios. ***This course offers an overall understanding of EIA, Remote Sensing, GIS, Coastal Regulation Zone and virtual hands-on experience with an open source software for carrying out LULC analysis. This also covers case studies of full-scale EIA, impact of development on land environment and micro-climate etc. This course will lead to increased employability of the participants as it blends theoretical, practical as well as applied aspects of the subject.***

Topics to be covered

- ❖ Environmental laws, policies & various acts
- ❖ Fundamentals of Environmental Impact Assessment
- ❖ Fundamentals of Remote sensing
- ❖ Principles of satellite data analysis
- ❖ Image classification & Accuracy assessment
- ❖ Geographical information system
- ❖ Useful resources available for RS & GIS
- ❖ Coastal Regulation Zone (CRZ): Classification of zones, Procedure and tools and techniques involved in mapping

Detailed syllabus, day-wise schedule and instructions will be provided before commencement of the course.

Eligibility

Interested candidates can register for the online training program