



# Centre for Water Resource Management Indian Institute of Technology (Indian School of Mines) Dhanbad



**2 Days Online Training on:  
Analysis & Application of open  
source Remote Sensing data  
using Google Earth Engine**

## Course Objective

**Goal of this online training programme is to introduce Remote Sensing data analysis and application using Google Earth Engine for wide application in water resource management.**



**Subject Expert & Coordinator**  
**Prof. S.R. Samadder**  
HOC/ CWRM/ASP  
Deptt. of Environmental Sc. & Engg.  
IIT (ISM)Dhanbad, India

Prof. Samadder is the Head of Centre for Water Resource Management and an Associate Professor at the Department of Environmental Science and Engineering. He has over 17 years of experience in the field of Remote Sensing and GIS for environmental applications. Prior to joining IIT (ISM) Dhanbad formerly Indian School of Mines, Prof. Samadder worked as an Assistant Professor at NIT Bhopal. He was awarded the prestigious 'Experienced Marie Curie Post-doctoral Fellowship' and he spent 2-years as Post-doctoral fellow at University College Dublin, Ireland.

**DATE: 7<sup>th</sup> and 8<sup>th</sup> July, 2022**

**Sessions:**

**10:00 AM to 01:00 PM (Morning)**

**03: 00 PM to 04: 30 PM (Afternoon)**

Registration Google Form Link:

<https://docs.google.com/forms/d/1yz2eVIv06BM4mM0mgImTFscSakf7jL6b-YIKOOI2E60/edit?ts=62a2c6b3>



**Chief Patron**  
**Prof. Rajiv Shekhar**  
Director & Dean (R&D)  
IIT (ISM)Dhanbad, India



**Patron**  
**Prof. Dheeraj Kumar**  
Deputy Director  
IIT (ISM)Dhanbad, India



**Advisor**  
**Prof. Sagar Pal**  
Associate Dean RI (R&D)  
IIT (ISM)Dhanbad, India



**Co-coordinator**  
**Prof. Srinivas Pasupuleti**  
Coordinator CWRM  
Asso. Prof./ Civil Engg.  
IIT (ISM) Dhanbad, India



**Advisor**  
**Prof. Anshumali**  
HOD, Dept. of ESE  
Coordinator ENVIS Centre  
IIT (ISM) Dhanbad, India



**Advisor**  
**Prof. P. K. Singh**  
Coordinator CWRM  
Asso. Prof./ ESE.  
IIT (ISM) Dhanbad, India



## Two Days Training programme on Analysis & Application of open-source Remote Sensing data using Google Earth Engine

**Course Date:** 07.07.2022 to 08.07.2022

**Sessions:** 10:00 AM to 01:00 PM (Morning)

03:00 PM to 04:30 PM (Afternoon)

**Registration Link:**

<https://docs.google.com/forms/d/1yz2eVIv06BM4mM0mgImTFscSakf7jL6b-Y1KOOI2E60/edit>

**Last date of Registration:** 04.07.2022 (Monday)

**Available Seats:** 80 Seats (Entry will be purely on first come, first registration basis)

*Certificate will only be awarded to the students with full attendance in all the training sessions.*

Day	Session	Module	Instructor/ Moderator
Day-1 (07.07.22)	10:00 AM – 10:30 AM	Opening Session	<b>SRS</b>
	10:30 AM – 01:00 AM	Introduction to Remote Sensing, Overview of Google Earth Engine functions, and operations	<b>PS</b>
	03:00 PM – 04:30 PM	Working with Raster data and vector data in Google Earth Engine.	<b>VS</b>
Day-2 (08.07.2022)	10:00 AM – 11:30 AM	Passive and Active Remote Sensing Data Classification	<b>PS</b>
	11:30 AM – 01:00 PM	Data Visualization, Time Series Analysis	<b>VS</b>
	03:00 PM– 04:00 PM	Application of Google Earth Engine for Water Resource Management Application	<b>VS &amp; PS</b>
	04:00 PM– 04:45 PM	Expert Lecture: A case study on RS & GIS application for rainfall runoff management and drainage system design.	<b>SRS</b>
	04:45 PM– 05:00 PM	Closing Session and Vote of Thanks	<b>SRS</b>

### Course Instructors:



**SRS:** Prof. S. R. Samadder (HOC/CWRM), Associate Professor, Department of Environmental Science and Engineering, IIT (ISM) Dhanbad



**VS:** Mr. Vivek Singh (Senior Research Fellow), Department of Environmental Science and Engineering, IIT (ISM) Dhanbad



**PS:** Mr. Purnendu Sardar (Senior Research Fellow), Department of Environmental Science and Engineering, IIT (ISM) Dhanbad