Training on
Glacier studies and Remote sensing

06–16, June 2023

Organised by

DST-centre for excellence in climate change
Divecha Centre for Climate Change,
Indian Institute of Science, Bengaluru

DIVECHA CENTRE FOR CLIMATE CHANGE

INDIAN INSTITUTE OF SCIENCE

विज्ञान एवं प्रौद्योगिकी विभाग
DEPARTMENT OF SCIENCE & TECHNOLOGY

Introduction:

The Himalayan region has a large concentration of glaciers and seasonal snow. Recent advances in remote sensing technologies have made it possible to study previously unexplored Himalayan cryosphere. These studies are useful to assess the water security of people living in the mountains and in the Indo-Gangetic plains. In India due to a lack of trained manpower, it is difficult to generate reliable information on glaciers. Therefore, to fill this gap and to attract talented young people, training is planned.

DST-centre for excellence in climate change and Divecha Centre for climate change organizes training for young students who wish to work in glaciology. Lectures will be taken by faculty members of the Centre and by well-known faculties of other departments. A Series of tutorials and practical sessions will also be organised to provide hands-on experience

Date: 06–16 June 2023

Time: 09.30 am–05.00 pm

Venue: Divecha Centre for Climate Change

Last date for application submission: March 31, 2023

Intimation to selected students: April 15, 2023

No registration Fees

Syllabus:

1. Distribution of Glaciers and snow cover

Overview of Cryosphere, Importance of glaciers, precipitation and formation of snow, distribution of glaciers/snow

2. Application of remote sensing in glaciology

Fundamentals of Remote Sensing, Glacier inventory, Estimation of glacier mass balance, glacier depth, moraine-dammed lakes, snow cover and snow albedo

3. Climate and climate change

Climate change and climate variability, General circulation of atmosphere and oceans, impacts of aerosols

4. Monitoring of glaciers

Physical and morphological properties of snow and glaciers, Development of algorithms and glacier modelling, Glacier Lake Outburst Flood

5. Glacier Mass Balance

Concept of glacier mass balance, methods of glacier mass balance estimation-Glaciological, Geodetic and AAR methods, the concept of ELA, IAAR method

6. Ice and Snow ablation

Physics of snowmelt, heat budget and radiation. Snowmelt runoff model.

Practical: Topographic corrections of reflectance, Supra glacier debris cover, Depth estimate using different techniques, Climate Change and mass balance, Runoff Estimates in Himalayan river

Eligibility:

Post Graduate M.Sc., M.Tech., M.E. and PhD students from recognized Institutes/Universities.

Accommodation:

Accommodation will be provided to deserving candidates by Divecha Centre for Climate Change.

Faculty:

- **Prof. S. K. Satheesh**

  Professor & Chairman, Divecha Centre for Climate Change
- **Prof. J. Srinivasan**

  Distinguished Scientist, Divecha Centre for Climate Change
- **Dr. Anil Kulkarni**

  Distinguished Scientist, Divecha Centre for Climate Change

  Guest lectures by eminent scientists.

How to apply:

Aspirants can enrol their names through the following link.
https://forms.gle/ecgcDuAS3WtiFWXH6

Contact: details

Dr. Anil V. Kulkarni
Distinguished Scientist,
Divecha Centre for Climate Change,
Indian Institute of Science,
Bengaluru- 560 012, India

E-mail id: glacier.dccc@iisc.ac.in

How to reach:

The IISc campus is conveniently located for those arriving by air as well as those choosing to travel by train. The new Bengaluru International Airport is 35 km from the campus. The campus is equidistant from the City Railway Station (Majestic) and the Cantonment Railway Station which are both about 7 km away. The Yeshwanthpura Railway Station is no more than 2 km.

https://goo.gl/maps/V1nuJ3Ga95p

DIVECHA CENTRE FOR CLIMATE CHANGE
INDIAN INSTITUTE OF SCIENCE, BANGALORE – 560 012

TRAINING ON GLACIER STUDIES AND REMOTE SENSING
JUNE 06 -16, 2023

Selected candidates with accommodation

Sl.No.	Name	Institution
1	Abhinav A	The Gandhigram Rural Institute- Deemed to be University, Tamil Nadu
2	Abhinav Rai	University of Delhi
3	Abhishek Thakur	AcSIR (DST-WIHG), Uttarakhand
4	Aditi Goswami	Bankura University, West Bengal
5	Akhilesh Kumar	North Eastern Regional Institute of Science and Technology, Nirjuli
6	Anita Sharma	National Institute of Technology, Hamirpur
7	Ankeeta Mohanty	Hansraj college ,University of Delhi
8	Ankita Malu	Indian Institute of Tropical Meteorology, Pune
9	Aparna Binjola	TERI School of Advanced Studies, Delhi
10	Aparna Ramgopal Sharma	South Asian University, New Delhi
11	Arya A	Birla Institute of Technology and Science-Pilani, Goa
12	Avani Prashant Desai	University of Mumbai
13	Darshan Malviya	Krantiguru Shyamji Krishna Verma Kachchh University, Gujarat
14	Deepti Sonawane	Doon University, Dehradun
15	Dilsa Nasar	Jyothi Institute of Technology, Bengaluru
16	Divya Singh	Guru Gobind Singh Indraprastha University, Delhi
17	Gaurish Singhal	Indian Institute of Remote Sensing, Dehradun
18	Gurnam Parsad	Jammu University, Jammu
19	Irfan Mohi Ud Din	National Institute of Technology, Srinagar
20	Jayabharathi J	V.O.Chidambaram College
21	K. Shruti	The Maharaja Sayajirao Unversity of Baroda
22	Kartik Gupta	Indian Institute of Technology (ISM), Dhanbad
23	Keertana Nair	Pondicherry University, Puduchery
24	Kuldeep Singh Rautela	Indian Institute of Technology, Indore

25	Madhusmita Nanda	Indian Institute of Technology, Guwahati
26	Mansha Bashir	University of Kashmir
27	Nikhil Mishra	Indian Institute of Technology, Delhi
28	Payal	Central University of Rajasthan, Rajasthan
29	Priyanka Ghosh	Symbiosis International Deemed University, Pune
30	Priyanka Parmar	Chaudhary Bansi Lal University, Bhiwani, Haryana
31	Rajnandini Gupta	Dr. Harisingh Gour Central University, Madhya Pradesh
32	Rimum Murtem	North Eastern Regional Institute of Science and Technology, Nirjuli
33	Ritu Anilkumar	Indian Institute of Technology, Guwahati
34	Saad Asad Khan	Remote sensing Applications Center, Lucknow
35	Sachin Kori	Indian Institute of Science Education and Research, Tirupati
36	Saweza Hashmi	Jamia Millia Islamia, Delhi
37	Shashi Kant Rai	Central University of Jammu, Jammu
38	Shivam Saxena	National Institute of Technology, Rourkela
39	Shobha Shankarappa Teli	Gopal Krishna Gokhale College, Shivaji University, Kolhapur
40	Shreyanshi Singh	Indian Institute of Science Education and Research, Thiruvananthapuram
41	Siddhi Shripad Shirodkar	Goa University, Goa
42	Sonali Das	Central University of Kerala, Kerala
43	Soniya	Central University of Himachal Pradesh, H.P
44	Soumya Satyapragyan	Wadia Institute of Himalayan Geology, Dehradun
45	Subhra Priyadarshini Khuntia	National Institute of Technology, Rourkela
46	Vaishnavi Uday Honap	Indian Institute of Remote Sensing, Dehradun
47	Vandana	Indian Institute of Technology, Bombay
48	Vikas Kumar	Guru Jambheshwar University of Science and Technology, Hisar
49	Vinayak Thakur	National Institute of Technology, Hamirpur
50	Yougal Sapkota	Sikkim University, Sikkim

Selected candidates without accommodation

Sl.No.	Name	Institution
1.	Mohit Sharma	Kurukshetra University, Haryana
2.	Ternikar Chirag Rajendra	Indian Institute of Science, Bangalore

Waiting List candidates

Sl.No.	Name	Institution
1.	Abhijith V S	College of Climate Change and Environmental Science, Kerala
2.	Ankush Charavande	Central University of Rajasthan
3.	Faisal Imam Umrani	IGNOU New Delhi
4.	Fathima C P	Mahatma Gandhi University
5.	Girish Kumar Gupta	Indian Institute of Technology (IIT) Dharwad
6.	Haritha D S	University of Calicut
7.	Harshal Sonawane	Bharati University's Institute of Environment Education & Research, Pune
8.	Kshitija Suryawanshi	Birla Institute of Technology & Science, Pilani
9.	Nripendra Pratap Singh	Dr. A.P.J. Abdul Kalam Technical University Lucknow UP
10.	P Velmurugan	V O Chidambaram College
11.	Patchamatla V M V Prasada Raju	Indian Institute of Technology, Bombay
12.	Praveen Vishnoi	MLS University, Udaipur
13.	Priyanka	Guru Jambheshwar University of Science and Technology
14.	Ramesh Kumar Maji	Kazi Nazrul University, Asansol
15.	Samrant Kumar Mishra	Central University of Tamil Nadu, Thiruvarur
16.	Sarmistha Halder	Symbiosis International (Deemed University)
17.	Sidharth C A	Central University of Kerala
18.	Simran Sharma	Birla Institute of Technology & Science, Pilani
19.	Tanuja	Central University of Rajasthan, Rajasthan
20.	Yukti Garg	Goa University, Goa