

Program schedule for 3-Week Capacity Building Program in Glaciology

From 02nd September to 22nd September, 2024

Venue: Theory/practical at University of Kashmir and Fieldwork at Machoi Glacier site in Ladakh

Date	Time	Topic	Resource Person	Affiliation
Day-1, 02nd Sep, 2024 (Monday)	1000 -1050 hrs	Inauguration		
	1050-1115 hrs	TEA BREAK		
	1115-1200 hrs	Introduction of the Program: Aims, objectives and expectations from the training program	Prof. Shakil A. Romshoo	University of Kashmir, IUST
	1200-1300 hrs	Glaciers and Glaciation-I	Dr. Reyaz Ahmad Dar	University of Kashmir
	1300-1400 hrs	LUNCH BREAK		
	1400-1500 hrs	Glaciers and Glaciation-II	Dr. Reyaz Ahmad Dar	University of Kashmir
	1500-1515 hrs	TEA BREAK		
	1515-1630 hrs	Cryosphere: Status, monitoring and assessment	Prof. Shakil A. Romshoo	University of Kashmir
Day-2, 03rd Sep 2024 (Tuesday)	0930-1030 hrs	Glacial Lake Outburst Floods (GLOFs): Causes, Modeling, and Mitigation	Dr. S K Jain	IITR
	1030-1045 hrs	TEA BREAK		
	1045-1145 hrs	Glacier Mapping from Remote Sensing Data	Dr. Khalid Omar Murtaza	University of Kashmir
	1145-1245 hrs	LUNCH		
	1245-1345 hrs	LUNCH		
	1345-1445 hrs	Exercise- GLOF modelling using HEC RAS	Dr. S K Jain	IITR
	1445-1500 hrs	TEA BREAK		
	1500-1630 hrs	Exercise-Glacier Inventory and derivation of glacier parameters from remote sensing data	Dr. Khalid Omar Murtaza, Dr. Tariq Abdullah, Dr. Bashrat	University of Kashmir
Day-3, 04th Sep 2024	0930-1030 hrs	Snow/glacier change and impact on runoff in Himalayan basins.	Dr. S K Jain	IITR

(Wednesday)	1030-1045 hrs	TEA BREAK		
	1045-1145 hrs	Monitoring of Himalayan Glaciers Using Ground and Space Observations	Dr. R K Bhambri	WIHG
	1145-1245 hrs	Mini project assignment and grouping	Prof. Shakil Ahmad Romshoo, Dr. Khalid, Dr. Tariq, Dr. Bashrat	University of Kashmir
	1245-1345 hrs	LUNCH		
	1345-1445 hrs	Surge Glaciers and Associated Hazards in the Karakoram	Dr. R K Bhambri	WIHG
	1445-1500 hrs	TEA BREAK		
	1500-1630 hrs	Glacier Ice Reserve Assessment	Dr. Tariq Abdullah	IUST
Day-4, 05th Sep 2024 (Thursday)	0930-1030 hrs			
	1030-1045 hrs	TEA BREAK		
	1045-1145 hrs		Prof. Shakil A. Romshoo	University of Kashmir
	1145-1245 hrs	Exercise- Glacier volume assessment: Multiple approaches	Dr. Tariq, Dr. Khalid Omar, Mr. Ummer Amin, Mr. Mustafa	University of Kashmir
	1245-1345 hrs	LUNCH BREAK		
	1345-1445 hrs			
	1445-1500 hrs	TEA BREAK		
	1500-1630 hrs	Exercise- Remote sensing based glacier snowline mapping and calculation of ELA and AAR	Dr. Khalid, Dr. Tariq, Dr. Bashrat	University of Kashmir
Day-5, 06th Sep 2024 (Friday)	0930-1030 hrs	Remote sensing of snow and ice	Prof. Anil V. Kulkarni	IISC
	1030-1045 hrs	TEA BREAK		
	1045-1145 hrs	Importance of cryosphere observations using advanced instrumentation in the third pole	Prof. Shakil A. Romshoo	IUST
	1145:1245 hrs			
	1245-1345 hrs	LUNCH		

	1345-1445 hrs	Development of Algorithm to monitor snow cover	Prof. Anil V. Kulkarni	IISC
	1445-1500 hrs	TEA BREAK		
	1500-1630 hrs	Mini Project	Dr. Tariq, Dr. Khalid Omar, Mr. Ummer Amin, Mr. Mustafa	University of Kashmir
Day-6&7, 07th -08th Sep, 2024 (Saturday & Sunday)	Holiday			
Day-8, 09th Sep, 2024 (Monday)	0930-1030 hrs	Introduction to snow geophysics and avalanche mechanism	Dr. D M Varade	IIT, Jammu
	1030-1045 hrs	TEA BREAK		
	1045-1145 hrs	Emission Scenarios	Dr. Jasia Bashir	IUST
	1145-1245 hrs	Cryospheric Hazards	Dr. Khalid	Uok
	1245-1345 hrs	LUNCH BREAK		
	1345-1445 hrs	Role of remote sensing in quantitative retrieval of snow geophysical parameters.	Dr. D M varade	IIT, Jammu
	1445-1500 hrs	TEA BREAK		
	1500-1630 hrs	Climate models and down scaling	Dr. Jasia Bashir	IUST
Day-9, 10th Sep, 2023 (Tuesday)	0930-1030 hrs	Exercise-Geodetic glacier mass balance estimation at glacier basin scale	Dr. Tariq Abdullah, Dr. Khalid, Mr. Mustafa, Mr. Ummer	University of Kashmir, Srinagar
	1030-1045 hrs	TEA BREAK		
	1045-1145 hrs	Cryospheric studies in Indian Himalayan Region: An Overview	Dr. Dobhal	WIHG
	1145-1245 hrs	Mini projects	Dr. Khalid, Dr. Tariq, Dr. Bashrat, Dr. Mudasir,	University of Kashmir, Srinagar

			Mustafa, Ummer Amin	
	1245-1345 hrs	LUNCH BREAK		
	1345-1445 hrs	Glacier Mass balance measurements: Techniques	Dr. Dobhal	WIHG
	1445-1500 hrs	TEA BREAK		
	1500-1630 hrs	Field Exercise	Dr. Dobhal	WIHG
Day-10, 11th Sep, 2024 (Wednesday)	0930-1030 hrs	Glacier Geomorphology and its mapping	Dr. Reyaz	UoK
	1030-1045 hrs	TEA BREAK		
	1045-1145 hrs	Importance of Cryosphere observations using Advanced instrumentation in the Third Pole	Prof. Shakil Ahmad Romshoo	University of Kashmir, IUST
	1145-1245 hrs	Mini projects	Dr. Khalid, Dr. Tariq, Dr. Bashrat, Dr. Mudasir, Mustafa, Ummer Amin	University of Kashmir
	1245-1345 hrs	LUNCH BREAK		
	1345-1445 hrs	Glacier Fieldwork orientation, Safety Considerations, Logistics and Instrumentation	Prof. Shakil Ahmad Romshoo, Dr. D. P. Dobhal, Dr. Khalid Omar, Dr. Tariq Abdullah, Dr. Mudasir	University of Kashmir, WIHG
	1445-1500 hrs	TEA BREAK		
	1500-1630 hrs	Free Evening/ Trekking		
Day-11 to 19, 12th to 21st Sep, 2024 (Thursday to Friday)	Departure to Ladakh for fieldwork at the Machoi Glacier site near Drass, Kargil Field training at the glacier site (please see the detailed day-wise fieldwork program as annexure to this time table)			
Day-19, 21st Sep, 2024 (Friday)	Departure from Drass, Kargil in Ladakh to KU, Srinagar			

Day-20, 22nd Sep, 2024 (Saturday)	1000-1330 hrs	Final project presentation by participants (GroupWise) including tea break	Prof. Shakil Ahmad Romshoo Prof. M. Farooq Mir Dr. Reyaz A Dar Dr. Khalid Omar Dr. Tariq Abdullah	University of Kashmir
	1330-1430 hrs	LUNCH		
	1430-1630 hrs	Feedback and Valedictory		
Day-21, 23rd Sep, 2024 (Sunday)	Departure of the School participants to respective destinations			

Lecture format: 50 min + 10 discussion