Training Modules & Session Overview

Day 1 – June 30, 2025

Time (PKT)	Programme
09:00-09:30	Registration
09:30-10:00	Inaugural session
	Tilawat (Recitation) of Quran Majeed
	Welcome remarks – TBC
	Opening remarks – TBC
	Overview of ICIMOD's cryosphere capacity building program in Pakistan – Sher Muhammad , ICIMOD
10:00-10:15	Group photo and Tea/Coffee break
10:15-11:00	Introduction to Cryosphere, changes, and impacts – Sher Muhammad, ICIMOD
11:00-11:30	Ongoing field-based glacier monitoring and gaps in the HKH – Sharad Joshi , ICIMOD
11:30-12:30	Field-based Glaciers mass balance Techniques – Sharad Joshi, ICIMOD
12:30-13:30	Lunch break
13:30-15:30	Hands-on Exercise on mass balance monitoring (stakes installation, distribution, data interpretation etc) – Sharad Joshi
15:30-15:45	Tea/Coffee break
15:45-17:00	Practical session on glacier mass balance data processing and analysis – Sharad Hoshi
	Hands on Practice

Day 2 - July 01, 2025

Time	Programme
09:00-09:30	Introduction to GPS – Sher Muhammad
09:30-11:00	Hands-on Exercise – Using GPS for glacier monitoring – Sher Muhammad
11:00-11:30	Tea/Coffee break
11:30-12:30	Ongoing field-based permafrost Monitoring – Prashant Baral , ICIMOD (Online)
12:30-13:30	Lunch break
13:30-14:30	Permafrost Key Concepts, site selection and data collection – Prashant Baral (Online)
14:30 - 15:30	Hands-on exercise:
	Permafrost data analysis in Google Colab – Prashant Baral (Online)
15:30-15:45	Tea/Coffee break
15:45-17:00	Hands-on exercise:
	Permafrost data analysis in Google Colab – Prashant Baral (Online)

Day 3 - July 02, 2025

09:00-09:30	Snow monitoring, challenges and opportunities – Sher Muhammad
09:30-10:30	Snow monitoring in UIB – Syed Hammad Ali , WAPDA
10:30-11:00	Tea/Coffee break
11:00-11:45	Overview of instruments for high-altitude snow monitoring – Sharad Joshi
11:45-12:30	Uncertainty estimation in field-based glacier and snow monitoring – Sharad Joshi/Sher Muhammad
12:30-13:30	Lunch Break
13:30-14:30	Methods for ground-based snow monitoring – Sher Muhammad
14:30-15:00	Tea/Coffee Break
15:00-16:00	Automatic weather stations data processing – Sharad Joshi
16:00-17:00	Participants' reflections on the training, closing remarks, and certificate distribution

Glacier Safety and Mountaineering Training

Day 4: July 03, 2025:

Travel from Islamabad to Hunza

Day 5: July 04, 2025:

High altitude Sickness and Safety Precautions; Mountaineering Equipment, its use, and practice

Basic Mountaineering Safety Skills

Day 6: July 05, 2025:

Use of Harness; rigging system for glacier travel; use of rope; knots; practice of using rope

Walking in alpine boots and heavy backpacks on steep terrain, glacier with fresh snow and debris cover

Day 7: July 06, 2025:

Walk on glacier including rope party, changing position

Using ice axe; alpine boots; crampons,

Day 8: July 07, 2025:

crevasse rescue; changing safety system; ascent by jumar; descent by belay device

Rescue techniques; lowering victim, transferring stretcher; lifting sled

Day 9: July 08, 2025:

Running belay on snow slopes; use of snow anchors and ice screws; descent by belay device and using prusik knot

Participants practice, feedback, and certificate distribution

Day 10: July 09, 2025: Return Back