

Training schedule

DAY 1 (TUESDAY): 9 JULY 2019, NANDA DEVI, ICIMOD

Time	Programme	Resource persons
09:00–09:30	Registration	Indu Chitrakar
09:30–10:15	Opening session Welcome and opening remarks by Dr Arun B. Shrestha, Regional Programme Manager, River Basins and Cryosphere (7 min) Introduction of participants and expectations of the training (10 min) Purpose of the training and overview of the programme by Mr Sharad Joshi and Mr Finu Shrestha (10 min) Updates on SWaRMA by Dr Neera Shrestha Pradhan, Programme Coordinator (7 min) Brief updates from Afghanistan (7 min each) Glacier monitoring: Mr Arian Hedayatullah Potential Dangerous Glacial Lakes: Mr Esmatullah Joya	Facilitator: Anna Sinisalo
10:30–11:15	<i>Group photo and tea/coffee break</i>	Jitendra Bajracharya
11:15–12:30	Lectures: Mass balance: basic principles Glacier mass balance measurement protocol and its importance	Sharad Joshi
12:30–13:30	<i>Lunch Break, ICIMOD canteen</i>	
13:30–15:30	Demonstration: Methods and instruments for glacier mass balance monitoring Process for measurements and stake preparation probe Instruments: steam drill, ice drill (Kovacs), Ice corer (Pico), etc. practice instruments for glacier monitoring	Tika Ram Gurung/ Sharad Joshi
15:30–15:45	<i>Short tea/coffee break</i>	
15:45–16:50	Demonstration Limitation of each equipment	Sharad Joshi / Tika Ram Gurung

DAY 2 (WEDNESDAY): 10 JULY 2019, NANDA DEVI, ICIMOD

Glaciology and hydrometeorological sensors		
09:30–09:45	Reflection of Day 1 (5 min) World meteorological organization (WMO) standard for hydrometeorological station site selection and installation	Sharad Joshi/ Tika Ram Gurung
09:45–10:30	Link between glacier monitoring and hydrometeorological data Use of hydrometeorological sensors	Sharad Joshi/ Tika Ram Gurung
10:30–11:00	<i>Tea/coffee break</i>	
11:00–12:30	Use of hydrometeorological sensors	Tika Ram Gurung/ Sharad Joshi
12:30–13:30	<i>Lunch Break, ICIMOD canteen</i>	
13:30–15:30	Selection of a suitable site for glacier measurement process and setting up hydrometeorological sensors	
15:30–15:45	<i>Short tea/coffee break</i>	
15:45–16:50	Hands on practice on snow density kit, stream drill, Kovacs etc.	Sharad Joshi/ Tika Ram Gurung

DAY 3 (THURSDAY): 11 JULY 2019, NANDA DEVI, ICIMOD**Hydrometeorological sensors**

Time	Programme	Resource persons
09:15–09:45	Reflection of Day 2 (5 min) What do we have to consider while visiting hydrometeorological site	Sharad Joshi/ Tika Ram Gurung
9:45–10:00	Installation hydrological station: Pressure level sensor - hands on training	Tika Ram Gurung/ Sharad Joshi
10:30–11:00	<i>Tea/coffee break</i>	
11:45–12:30	Automatic weather station installation- hands on training	Tika Ram Gurung/ Sharad Joshi
12:30–13:30	<i>Lunch Break, ICIMOD canteen</i>	
13:30–15:30	Automatic weather station installation- hands on training	Tika Ram Gurung/ Sharad Joshi
15:30–15:45	<i>Short Tea/coffee break</i>	
15:45–16:50	Automatic weather station installation- hands on training	Tika Ram Gurung/ Sharad Joshi

DAY 4 (FRIDAY) 12 JULY 2019, NANDA DEVI, ICIMOD**Hydrometeorological sensors**

9:15–10:30	Reflection of Day 3 (10 min) Practical issues on hydrometeorological station installation and tips and its standard protocols	Sharad Joshi/ Tika Ram Gurung
10:30–11:00	<i>Tea/coffee break</i>	
11:45–12:30	Data download and data pre-processing- hands on training	Tika Ram Gurung/ Sharad Joshi
12:30–13:30	<i>Lunch Break, ICIMOD canteen</i>	
13:30–15:30	Data download and data pre-processing- hands on training	Tika Ram Gurung/ Sharad Joshi
15:30–15:45	<i>Short Tea/coffee break</i>	
15:45–16:50	Discussion on action plan (short/medium/long term) from Afghan side	Neera Shrestha Pradhan/Anna Sinisalo

DAY 5 (SATURDAY) 13 JULY 2019, KATHMANDU UNIVERSITY DHULIKHEL**Hydrometeorological sensors**

08:30–12:00	KU visit for demonstration on RG3 Hobo rain gauge sensor	Tika Ram Gurung/ Sharad Joshi/ Rakesh Kayastha (Kathmandu University)
12:00–14:00	<i>Lunch and evaluation of training</i>	
14:00–16:00	Return back from Kathmandu University What you learned and what you will do after returning (3–5 minute presentation for 19 July – closing day)	Sharad Joshi/ Tika Ram Gurung One of the participants