#### WSL Institute for Snow and Avalanche Research SLF

WSL-Institut für Schnee- und Lawinenforschung SLF WSL Institut pour l'étude de la neige et des avalanches SLF WSL Istituto per lo studio della neve e delle valanghe SLF



#### **Practice meets science**

International advanced training course on "Snow and Avalanches" 17 – 21 February 2025 in Davos

#### Approximate program

The course begins on Monday at 8:15 h

#### Monday, 17 February 2025

Avalanches in Switzerland and history of SLF

**Snow physics** 

**Avalanche formation** 

Coffee break

**Exercise: Avalanche formation and snowpack interpretation** 

Lunch break

Principles of regional avalanche forecasting

**Forecasting tools** 

Coffee break

**Exercise: Assessment of avalanche danger** 

Ice breaker

#### Tuesday, 18 February 2025

Snow profile observation and stability tests

Field day: Snow profile observation and stability tests

Lunch in the field

Snow profile and stability evaluation

Presentation of results and evaluation by each group

Snow profile interpretation

Science event at SLF

## Wednesday, 19 February 2025

**Avalanche history Davos** 

**Avalanche dynamics** 

Avalanche hazard mapping

Coffee break

Solving avalanche challenges in practice

Lunch break

## Wet- and glide-snow avalanches

Separate programs for module 1 and 2		
Module 1	Module 2	
Snow mechanics	Temporary protection measures	
Snowpack stability: Layering and variability	Artificial avalanches release	
Coffee break		
Measuring snow properties (PST, SMP)	Avalanche detection	
Principles of snow cover models		
Assessment of avalanche hazard in the backcountry	Exercise: Road closure, yes or no? Case study	

## Thursday, 20 February 2025

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Separate r	nrograms	tor me	JULIP	1 and 1

Module 1	Module 2	
Field day: New methods for field measurements	Permanent protection measures	
	Coffee break in the Hotel	
	Exercise protection measures	
	Experience of a local avalanche service	
	Field day: Avalanche mitigation	
Coffee break in the Hotel	Visit Jakobshorn patrollers and Dayos Frauenkirch	
	Davos i radelikii cii	
Snow profile and stability evaluation, discussion and reflection of the field day		
Application of snow cover models		
Social event: Visit to local brewery and dinner in Monstein		

# Friday, 21 February 2025

Separate programs for module 1 and 2		
Module 1	Module 2	
Snow stability evaluation and interpretation of measurements from previous field day	RAMMS: Rapid mass movement simulations	
Recent developments and future challenges in avalanche forecasting	Practical use of avalanche modeling  Recent model developments –  Application in practice	
Coffee break		
Synthesis of course: Final discussion	Synthesis of course: Final discussion	
Answers to open questions		
Key points of synthesis		
Lunch buffet		
RAMMS workshop (optional)		