



Certificate Programme in Climate Change

HI-AWARE Programme



Background

HI-AWARE is a regional programme of ICIMOD with a goal to contribute to increasing the climate resilience and adaptive capacities of the poor and vulnerable women, men, and children living in Indus, Gandaki, and Teesta river basins. HI-AWARE is implementing work projects on knowledge generation, research-into-use, and strengthening expertise in 12 sites in these basins.

Based upon the February 2016 consultation between ICIMOD and various stakeholders of Chitwan district in the Gandaki basin, we determined the need for a climate change certification course for those professionals who are engaged in various programmes at the local level.

In response to this need, ICIMOD is collaborating with the Chitwan District Development Committee (DDC), Practical Action, and the Agriculture and Forestry University-Rampur to hold a Climate Change Certification Programme for the local stakeholders in the Chitwan District.

Design of the Programme

The programme will be held in Chitwan and will be spread over a period of four to five months. The program consists of four modules. Each module consists of different topics relating to climate change and it's interlinkages to various issues. The program will start from February 2017.

Learning approach

The course is based on learner-centred methods and interactive practical work by participants. The learning process requires the active participation of all course participants. Training includes class sessions with expert combined with real-life case work. Each month, two face-to-face training days on a specific module will be organised, including case studies that participants will engage. At the end of each training period,



participants will be evaluated and granted certificates pending successful completion of the training. The minimum group size will be 30 people, of which we desire 50% to be female.

Course Modules

The first six-month course consists of five modules with emphasis on GIS applications. The following subject will be covered:

Module 1: Understanding climate change

Forms / faces of climate change (deviation on average value of climate elements over time, variability, intensity / frequency, seasonality, spatial variation, etc.)

- Global climate change
- Climate change in the mountains, middle hills and terai of Nepal
- Climate change in Chitwan
- Climate change scenarios and understanding uncertainty

Module 2: Climate change and associated hazards

- Landslides
- Floods
- Soil erosion
- Droughts
- Heatwaves
- Coldwaves



Module 3: **Climate change impacts on bio-physical and socio-economic sectors**

- biological impacts – forest, wildlife, agriculture, and livestock
- physical impacts - land resources, water resources (other natural resources), human- made infrastructure.
- social impacts – differential impacts on different social (gender, age, disable, etc.) and economic groups (poor), migration
- economic impacts – impacts on agriculture, transportation, trades and business, income, livelihood

Module 4a: **Adaptation to Climate Change** (understanding adaption to climate change)

- Autonomous adaptation
- Planned adaptation
- Adaptation strategies
- Adaptation and resilience to climate change induced disaster
- Gender and social inclusion in climate change adaptation
- Stakeholders and community engagement in building resilience through adaptation
- Government, policy and climate change adaptation (in the context of global processes)

Module 4b: **Adaptation for Chitwan / Nuwakot / Rasuwa**

- Adaptation needs for Chitwan / Nuwakot / Rasuwa) across various sectors
- Action plans for Adaptation in Chitwan / Nuwakot / Rasuwa
- Geographic Information System (GIS) as tool for planning, monitoring & evaluation for natural resources management eg forest, water, agriculture, land)
- Delivery of Adaptation plans
- Monitoring, review, evaluation and learning from adaptation in Chitwan / Nuwakot / Rasuwa

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