



NITH  
PDP

# 18



## Resilient and Sustainable Built-Environment in Hills



Image Source: Photo by [Tejj](#) on [Unsplash](#)

### **Description of course**

#### **Aim:**

To disseminate knowledge of Resilient and sustainable construction in Hills

#### **Course Objectives:**

To bring together leading academicians, industrialists and researchers to exchange and share their experiences and knowledge related to Resilience and Sustainability  
To provide a platform to present and discuss the most recent innovations, trends, and concerns as well as practical challenges encountered and solutions adopted in the fields of RSBE  
To disseminate the traditional wisdom of architectural practices in Himachal and share the acquired skills and challenges encounter for developing climatic responsive designs

#### **Learning Outcomes:**

Upon successful completion of the course, the participants will be able to  
CO1: Learners will be able to analyse resilient design and sustainable energy flow system in architectural buildings



CO2: Participants will be comprehended recent innovations, trends, and concerns as well as practical challenges encountered and solutions adopted in the fields of RSBE

CO3: Participants will acquire skills and challenges encounter during development of climatic responsive designs

## **Course Structure**

### **Course Duration:**

05 days

### **Course Frequency:**

The course is designed for professionals in the field of architecture and planning and is a part of resilient dissemination series through five distinct conceptualized PDP's.

### **Course Format:**

Day	Topic to be covered	Remarks
1	Lecture series and group discussions on types of resilience	4 hrs
2	Lecture series and group discussions on vulnerability analysis of Himachal	4 hrs
3	Lecture series and group discussions on Building construction techniques	4 hrs
4	Lecture series and group discussions on community resilience in Himachal	4 hrs
5	Lecture series and group discussions on community resilience in Himachal	4 hrs

## **Course Content**

### **Prerequisites for Participation:**

Professional, academicians and participants from the reputed institutes and industry. Members of govt. bodies and NGO's working in the field of capacity building, Disaster management and resilience.

### **Course Syllabus:**

SI No	Day	Topic
1	Day 1	Water Resilient Cities
2		Urban Water Management
3	Day 2	Planning in the Hill Settlements
4		Disaster and built form



5	Day 3	Structural safety in hill towns
6		Cultural landscape & resilience
7	Day 4	Impact of urbanization on resilience
8		Social implication of resilience
9	Day 5	Role of GIS in vulnerability assessment
10		Evaluation methods for resilience.

**Course Assignments:**

There are no assignments conceived for this course. Participation and active involvement in the lectures are sought.

**Expected Time Spent on Course:**

Time spent in hours: 25 hours

Time spent in ECTS (European Credit Transfer and Accumulation System): 1 ECTS

**Course Grading**

**Assessment Criteria and Distribution of Marks:**

*There was no course grading for this PDP.*

**Course Evaluation**

**Evaluation Procedure & Criteria:**

*Based upon the common evaluation Performa prepared by WP4 leader institutes*

**Faculty Evaluation:**

*Feedback will be attached and submitted for the course to WP3 and WP4 leader institutes*

**Participant Evaluation:**

*There was no Participants Evaluation conducted as part of the PDP.*