Sustainable Mountain Development with Special Reference to Himalaya

**Semester -I: July - December 2020**

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| --- | --- |
| Cooordinator | Will be Decided after the Course Has been Approved by the University |
| Credits | 100 Marks [4 Credits]\* |
| Lecturers | Will be Decided after the Course Has been Approved by the University |
| Level | M.A./M.Sc. |
| Host institution | Department of Geography, Faculty of Arts, Kumaun University, Nainital |
| Course duration | One Semester [July - December] Likely to Start in July 2020 |

### Summary

*This one full semester course provides the Master level students of Geography the basic understanding of the environmental significance of the mountain regions and the need of their sustainable development. It will present a comprehensive socio-ecological overview of the world's mountains and the impacts of the process of global environmental changes including climate change on high mountain regions, specifically Himalaya. Besides, it will also introduce students to mountain natural resources and role of local institutions mountain environmental governance; and need, approaches and strategies for sustainable mountain development. The course includes individual assignments.*

### Target Student Audiences

Semester - I Students of M.A./M.Sc.

### Prerequisites

Required Courses (or equivalents):

* Environmental Management
* Ecology
* Introduction to Computer Science or Information Technologies,
* Environmental Management

### Aims and Objectives

This course has been designed with a view to help students in developing a comprehensive understanding and knowledge of the critical environmental and developmental issues of important mountain regions of the world and need of their sustainable development in context of the Indian Himalayan Region. The main objectives of the proposed course are: (i) to help students in understanding the environmental and socio-cultural significance of mountain regions; (ii) to equip the students with the state-of-art recent knowledge about process, drivers and impacts of the environmental changes in the high mountains; (iii) to educate students about the role and significance of mountain institutions in environmental governance and sustainability; and (iv) to make students to realize to need of sustainable development of mountain regions and their people

\* ***Note: Kumaun University has Mark System at all Levels***

### General Learning Outcomes:

By the end of the course, successful students will:

* Understand the global significance and importance of mountain regions
* Learn the trends and impacts of global environmental changes on mountains
* Gain adequate knowledge of the natural resources of mountains
* Understand frangibility, marginality, vulnerability and productivity of mountains
* Develop comprehensive understanding of the role of mountain institutions in environmental governance Understand the concept of science-policy interfaces in climate change adaptation,
* Understand the approaches and techniques of sustainable mountain development

### Overview of Sessions and Teaching Methods

The course will make most of interactive and self-reflective methods of teaching and learning including mainly lectures and presentations. It will start with an overview of global significance and importance of mountain regions. Subsequent sessions will combine interactive lecturing on different course components divided up into 5 Units, and individual assignments. The third part of the course is built around supervised preparation of short interdisciplinary dissertation by students.

### Course Workload

The table below summarizes course workload distribution:

|  |  |  |  |
| --- | --- | --- | --- |
| **Activities** | **Learning outcomes** | **Assessment** | **Estimated workload (hours)** |
| **In-class activities** | | | |
| Lectures and Presentations | **Unit I-** **World Mountains and Indian Himalayan Region:** MajorMountains of the World; Indian Himalayan Region; Location and Extent; Geology; Physiography, Climate and Drainage System | End Semester Written Examination | 08 |
| Lectures and Presentations | **Unit II - Mountain Natural Resources:** Land, Water, Forest, Wildlife; Biodiversity; Development and Utilization of Natural Resources | End Semester Written Examination | 08 |
| Lectures and Presentations | **Unit III - Global Environmental Changes and Mountain Region:**  Environmental Changes; Drivers of Environmental Changes; Climate Change: Impacts and Adaptations; Natural Disasters | End Semester Written Examination | 08 |
| Lectures and Presentations | **Unit IV- Mountain Institutions and Environmental Governance:** Concept and Classification Intuitions; Institutions in Himalaya; Role of Local and Regional Institutions in Environmental Governance in Himalaya. | End Semester Written Examination | 08 |
| Lectures and Presentations | **Unit IV- Sustainable Development in Himalaya:** Concept of Sustainable Development; UN Sustainable Development Goals and Himalaya; Climate Change Adaptation and Disaster Risk Reduction in Himalaya; Sustainable Mountain Development in Himalaya | End Semester Written Examination | 08 |
| **Independent work** | | | |
| * Individual Assignments | Ability to interpret data, and to use the concepts, tools, and methods for communicating information | Individual Presentations | 20 |
| ***Total*** |  |  | ***60*** |

### Grading

The students’ performance will be based on the following:

* Written performance at the end Semester Written Examination 75%
* 25% based on the evaluation of 2 individual Assignments and attendance in classroom lectures

### Course Schedule: Semester -I: July - December 2020 [Proposed]

### Course Assignments

The Structure of Course Assignments will be as follows:

* The Course Teacher will set 5 detailed answer Questions one each from 5 Units.
* Each of the students will have answer 2 questions of his/her choice before the commencement of the Semester End Examinations.

**Literature**

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