

Semester -I: July – December

Coordinator	Prof P K Joshi
Credits	2 Credits
Lecturers	Prof P K Joshi
Level	M.Phil. (Pre-Ph.D.)
Host institution	School of Environmental Sciences (SES), Jawaharlal Nehru University,
	New Delhi
Course duration	One Semester [January - June] Started in January 2021

Summary

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This one full semester compulsory course provides the Pre-Ph.D. level students of Environmental Sciences the basic understanding of Himalayan Ecology in perspective of present development and environmental issues.

Target Student Audiences

Semester - II Students of M.Phil. (Pre-Ph.D.)

Prerequisites

Nil

Aims and Objectives

This course has been designed with a view to help students in developing a comprehensive understanding and knowledge on Himalayan environment and ecology. In the recent years it has become increasingly evident that human activities and practices produce significant changes in in the mountain ecosystems and the Himalaya is one of the hotspots of this. The course provides an perspective to look in the Himalayan landscape from multiple perspectives. The main objectives of the course are: (i) to help students in knowing Himalaya and its unique setting; and (ii) to comprehend the challenges and issues related to Himalayan landscape and its relevance in the present context of environmental development in the country.

General Learning Outcomes:

By the end of the course, students will successfully:

- Understand the Himalayan Ecosystem,
- Learn and appreciate importance of Himalaya and link various perspectives of development with its setting.

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 Ecosystem and related concepts. Subsequently it will build the science of ecosystem succession, structure and functional aspects. The sessions will be take help of blended teaching and learning approaches for interaction lecturing on different course components.







Course Workload

The table below summarizes course workload distribution:

Activities	Learning outcomes	Assessment	Estimated workload (hours)	Self- Study (hours)
In-class activities	S			
Lectures and	Himalayan Environment and	Mid Semester	06	06
Presentations	Development	Examination		
	Mountain ranges of the world UN			
	Agenda 2030, Mountain in SDGs2030			
Lectures and	Biological Diversity, Climate setting,	Mid Semester	06	06
Presentations	Physical setting, Socio-ecological	Examination		
	settings, Forests & forestry, Water			
	Resources			
Lectures and	Cultural Diversity, Landscapes,	Mid Semester	06	06
Presentations	communities and Livelihoods,	Examination		
	Traditional knowledge system,			
	Transhumant, pastoralism and			
	collectors, Urbanization			
Lectures and	Tourism and Sustainability, Adventure	End Semester	06	06
Presentations	tourists/eco-tourists/religious tourist	Examination		
	and sightseers, Conservation and			
	development issues			
Lectures and	Sustainable Future, Environmental	End Semester	06	06
Presentations	Issues	Examination		
	Disasters and Climate Change, Political			
	and governance issues, Economic,			
	Cultural and Environmental needs			
	(SDGs vis-à-vis Himalaya)			
Total			30	30

Grading

The students' performance will be based on the following:

- Quizzes/Surprise Test 20%
- Mid Semester Examination 30%
- End Semester Examination 50%

Course Schedule: Semester-II: January - June 2021

Course Assignments

The Structure of Individual Assignments will be as follows:

- Reading of research articles and working paper with given objectives.
- Participation in discussion and collection of newer evidences.

Literature

Douglas, Ed. (2020). Himalaya: A Human History. Penguin Random House, pp 592.

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- Pandit, M.K. (2017). Life in the Himalaya An Ecosystem at Risk. Harvard University Press; 1st edition, pp 384.
- FAO. (2017). The 2030 Agenda and the Sustainable Development Goals: The challenge for aquaculture development and management, by John Hambrey. FAO Fisheries and Aquaculture Circular No. 1141, Rome, Italy.
- Wester P., Mishra A., Mukherji A., Shrestha A. (eds) The Hindu Kush Himalaya Assessment. Springer, Cham. <u>https://doi.org/10.1007/978-3-319-92288-1_5</u>
- Negi, G.C.S. and Dhyani, P.P. (2012). Glimpses of Forestry Research in the Indian Himalayan Region. G.B. Pant Institute of Himalayan Environment and Development and Bishen Singh Mahendra Pal Singh, Dehradun, pp 187.
- Price, M. F., Georg Gratzer, Lalisa Alemayehu Duguma, Thomas Kohler, Daniel Maselli, and Rosalaura Romeo (2011). Mountain Forests in a Changing World - Realizing Values, addressing challenges. Published by FAO/MPS and SDC, Rome.
- Johnston, B.R. (2012). Water, Culture Diversity, and Global Environmental Change. Springer Dordrecht Heidelberg London New York, 560.



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