6. Meadows, Donella H; Meadows, Dennis L; Randers, Jorgen; and William, W. Behrens III. (1972). The Limits to growth: A report for the Club of Rome's project on the predicament of mankind. New York: Universe Books.
7. Sachs, Jeffrey. D. (2015). The age of sustainable development. New York. Columbia University Press

GENERIC ELECTIVES (GE-3)

Credit distribution, Eligibility and Pre-requisites of the Course

Course title & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite o f the course
		Lecture	Tutorial	Practical/ Practice		
Biodiversity and indigenous Knowledge	**4**	**3**	**0**	**1**	**Class X II pass with biology**	**NIL**

Learning Objectives

The Learning Objectives of this course are as follows:
The course will help the students in understanding how indigenous knowledge and biodiversity are complementary phenomena essential to human development. Students will recognize indigenous knowledge as an important national resource and understand the collective knowledge of biodiversity and its use

Learning outcomes

The Learning Outcomes of this course are as follows:
I. Students will learn basic concepts of biodiversity and indigenous knowledge along with the rich traditional resources in management and conservation of biological diversity.
2. The course will help students to understand concepts pertaining to conservation of biodiversity and protection of indigenous knowledge including the indigenous management strategies of farmers.
3. They will also learn policies and laws relating to biodiversity conservation including protection of intellectual property rights relating to indigenous knowledge.

SYLLABUS OF GE-3

UNIT – I (9 hours)
Biodiversity: basic concept, UN Convention on biodiversity, health implications of biological diversity; conservation of biological diversity- policies and law.

UNIT – II (12 hours)
Human-animal interface- interface between human and animal world; Zoonotic diseases types, etiology and prevention, biodiversity and genetic resources.

UNIT – III (12 hours)
Indigenous Knowledge: basic concept, critique of western scientific knowledge, historical context of the emergence of indigenous knowledge, contemporary relevance of indigenous knowledge, indigenous knowledge in biodiversity conservation.

UNIT – IV (12 hours)
Problems of Indigenous Knowledge: issues pertaining to transfer of indigenous knowledge, debates for making indigenous knowledge universal, politics of indigenous knowledge, notion of identity and property; Intellectual Property Rights related to biodiversity and indigenous knowledge, protection of plant varieties.

Practical component (if any) -

Project Report on Indian Cases pertaining to Indigenous Knowledge, Intellectual Property Rights and Biodiversity

Essential/recommended readings

1. Antweiler, C. (2004). Local Knowledge Theory and Methods: An Urban Model from Indonesia. *In Investigating Local Knowledge: New Directions, New Approaches* (eds.) Alan Bicker, Paul Sillitoe& John Pottier. Ashgate. 1-34
2. Ellen, R. (2003). Variation and Uniformity in the Construction of Biological Knowledge across Cultures. In *Nature Across Cultures: Views of Nature and Environment I Non Western Cultures* (eds.) H. Selin, Great Britain: Kluwer Academic Press.
3. Eldredge, N. (2002). What Is Biodiversity? In *Life on Earth: An Encyclopedia of Biodiversity, Ecology, and EvolutionVolume 1 A–G*. ABC-CLIO, Inc. Santa Barbara, California. 1-30
4. Gadgil, M., Berkes, F &Folke, C. (1993). Indigenous Knowledge for Biodiversity Conservation. AMBIO, Springer, 22 (2/3): 152-156
5. Leveque, C. &Mounolou, J. (2003). Brief History of a Concept: Why be concerned by Biological Diversity? In *Biodiversity*. John Wiley & Sons Ltd. 5-12
6. Leveque, C. &Mounolou, J. (2003). The Dynamics of Biological Diversity and the Consequences of Human Activities. In *Biodiversity*. John Wiley & Sons Ltd. 131-164
7. Leveque, C. &Mounolou, J. (2003). The Dynamics of Biological Diversity and Implications for Human Health. In *Biodiversity*. John Wiley & Sons Ltd. 165-184
8. Leveque, C. &Mounolou, J. (2003). Genetic Resources and Biotechnology. In *Biodiversity*. John Wiley & Sons Ltd. 185-206
9. Leveque, C. &Mounolou, J. (2003). The Conservation of Biodiversity. In *Biodiversity*. John Wiley & Sons Ltd. 225-248
10. Mandal, M. (2009). Internal Displacement in India: Status, Condition & Prospects of Return. *Refugee Watch*, 33: 33-47
11. Marselle, M. R. (2021). Pathways linking biodiversity to human health: A conceptual framework. *Environment International, Elsevier.* 150: 106420
12. Murray Li, T. (2007). Articulating Indigenous Identity in Indonesia: Resource Politics and Tribal Slot. In *Environmental Anthropology: A Historical Reader* (eds.) Michael Dove & Carol Carpenter. Blackwell.

13. Palsson, G. (2007). Bio-value: Appropriating Genomes. In *Anthropology and the New Genetics*. Cambridge University Press.
14. Posey, D. (2008). Indigenous Management of Tropical Forest Ecosystem: The Case of the Kayapo Indians of the Brazilian Amazon. In *Environmental Anthropology: A Historical Reader* (eds.) Michael Dove & Carol Carpenter. Blackwell.
15. Sillitoe, P. (1988). The Development of Indigenous knowledge: A New Applied Anthropology. *Current Anthropology* 19 (2):
16. United Nations, (1992). Convention on Biological Diversity (1992). 1-17
17. Wadehra, B.L. (2012). Protection of Plant Varieties and Farmers' Rights. In *Law Relating to Intellectual Property***5** (eds.) Universal Law Publishing Co. New Delhi. 517-528
18. Vayda, A. P., Walters, B.B. &Setyawati, I. (2004). Doing and Knowing: Questions about Studies of Local Knowledge. In *Investigating Local Knowledge: New Directions, New Approaches* (eds.) Alan Bicker, Paul Sillitoe& John Pottier. Ashgate. 35-58

Note: Examination scheme and mode shall be as prescribed by the Examination Branch, University of Delhi, from time to time.

GENERIC ELECTIVES (GE-4)

Credit distribution, Eligibility and Pre-requisites of the Course

Course t itle & Code	Credits	Credit distribution of the course			Eligibility criteria	Pre-requisite o f the course
		Lecture	Tutorial	Practical/ Practice		
Health Systems, Promotion and Management	**4**	**3**	**0**	**1**	Class XII pass with biology	**NIL**

Learning Objectives

The Learning Objectives of this course are as follows:
1. To understand basic idea of health systems, health promotion
2. To assess the health care management strategies
3. To understand the public health value of health promotion in different health systems

Learning outcomes

The Learning Outcomes of this course are as follows:
The students will learn the basic concepts of health system research, creatively design health promotion strategies and understand various challenges of health care management.

SYLLABUS OF GE-4

UNIT – I (9 hours)