

UNIVERSITY OF LADAKH



SYLLABUS
OF
INTERDISCIPLINARY COURSE
OF
GEOGRAPHY
(UNDER NEP – 2020)

(To be Implemented w.e.f Academic Session 2023-24)

UNIVERSITY OF LADAKH

SYLLABUS OF THE INTER-DISCIPLINARY COURSE IN GEOGRAPHY UNDER NATIONAL EDUCATION POLICY - 2020 (Session 2023-2024)

SEMESTER: I

Credits: 03

Course Title: *Earth System Dynamics*

Course Code: ESS-GG-101-G

Max. Marks: 75

Course Objectives:

- To develop the understanding of basics of earth systems and their attributes.
 - To learn about various spheres of earth and their interaction.
 - To learn about the major environmental issues in earth system.
 - To learn about the major human induced issues in earth system.
-

Unit – 1 Basics of Earth System

- 1.1 Origin of Earth, its shape and size
- 1.2 Earth Rotation, Revolution and its effects
- 1.3 Layers of Earth & Composition
- 1.4 Atmosphere, Hydrosphere, Lithosphere, Biosphere and their interaction.

Unit – 2 Issues in Earth System (Environmental)

- 2.1 Atmosphere: Air Pollution, Green House Effect and Global Warming
- 2.2 Hydrosphere: Water Pollution, Floods and Droughts.
- 2.3 Lithosphere: Glacial Recession, Earthquake, Landslides.
- 2.4 Biosphere: Biodiversity loss, Ecological Imbalances

Unit – 3 Issues in Earth System (Human)

- 3.1 Population Growth & Resource Depletion
- 3.2 Poverty, Unemployment and Gender Discrimination
- 3.3 Emerging Global Health Challenges: Epidemics & Pandemics
- 3.4 Human Development Index and Sustainable Development Goals

REFERENCES

Essential Readings

1. Leong Goh Cheng (2003): Certificate Physical and Human Geography, Oxford University Press, New Delhi.
2. Singh, S. (2003): Physical Geography. (English edition.). Prayag Pustak Bhawan, Allahabad
3. Chandna, R.C., 1998, Environmental Awareness, Kalyani Publishers, New Delhi.
4. Gaur, S., and Chandrashekhar, T., 2006, Global Environmental Crisis, Book Enclave, Jaipur.
5. Gupta, P.D., 2003, Environmental Issues for the 21st Century, Mittal Publications, New Delhi.
6. Park, C.C., 1980, Ecology and Environmental Management, Butterworths, London.

7. Radha, S., and Sankhyan, A.S., (ed.), 2004, Environmental Challenges of the 21st Century, Deep
8. Publications, New Delhi.
9. Rasure, K.A., 2007, Environment and Sustainable Development, Serials Publications, New Delhi.
10. Saxena, H.M., 2006, Environmental Studies, Rawat Publications, Jaipur.
11. Singh, S., 1991, Environmental Geography, Prayag Publication, Allahabad.

Suggested Readings

1. Strahler, A.N., and Strahler, A.M., 1997, Geography and Man's Environment, John Wiley and Sons, New York.
2. Taj, B., Murphy, P. and Rana, P.S., 2007, Environmental Impact Assessment, An Indo – Australian Perspective, Bookwell New Delhi.
3. Verma, S. B. and Shiva, K.S.,(ed.), 2005, Environmental Protection and Development, Deep Publications, New Delhi.
4. Flannery, T. The Weather Makers: The History and Future Impact of Climate Change. Allen Lane. London, 2005.
5. Mannion, A.M.: Global Environmental Change, Routledge, New York, 2014.
6. Richard W. Battarbee and Heather A.: Binney. Natural Climate Variability and Global Warming: A Holocene Perspective. John Wiley & Sons, 2008.
7. William K.: Climate Change: A Natural Hazard. Multi-science publishing, UK. P. 207, 2004.

UNDERGRADUATE INTER-DISCIPLINARY COURSE IN GEOGRAPHY (NEP-2020)

Semester – II

Credits: **03**

Course Title: Disaster Risk Reduction

Course Code: EES-GG-201-G

Max. Marks: **75**

Course Objectives:

- To develop a sound and systematic approach to identify, evaluate and minimise disaster risk.
 - To train students to conduct community-based disaster risk reduction and management practices in order to prepare society to deal with disasters and reduce socio-economic risks and vulnerabilities.
-

Unit – 1 Disaster Risk Reduction

- 1.1 Disaster Risk: Concept and Components
- 1.2 Disaster Risk Reduction (DRR) Concept and Relevance
- 1.3 Disaster Risk Assessment and Management (DRAM)

Unit – 2 Community Based Disaster Risk Management (CBDRM)

- 2.1 Disaster Resilient Community and their characteristics.
- 2.2 Concept, Need and Relevance of CBDRM
- 2.3 Objectives and Approaches of CBDRM

Unit – 3 Public Preparedness and Management for Risk Reduction

- 3.1 Public Awareness and capacity building for Risk Reduction
- 3.2 Planning for Mock Drills, Training and Workshops for Risk Reduction
- 3.3 Safety plans for Schools, Hospitals, and other public buildings for Crowd Management.

Unit – 4 Stakeholders in Disaster Risk Reduction and Management

- 4.1 Role of Media in Disaster Risk Reduction
- 4.2 Role of NGOs, Civil society and Corporate Sector in Disaster Risk Management
- 4.3 Functions of Govt agencies such as DDMA, Disaster Task Force and armed forces.

REFERENCES

Essential Readings

1. Ahmad, A. (2010): Disaster Management: Through the New Millennium, Anmol Publications, New Delhi.
2. Anandha Kumar, K.J., Walia, A. & Chaturvedi, S., (2012): India Disaster Report 2011, <http://nidm.gov.in/PDF/India%20Disaster%20Report%202011.pdf>
3. Collins, L.R., (2002): Disaster Management and Preparedness, Library of Congress, United States of America.
4. Disaster Management Act (2005). <http://www.ndmindia.nic.in/actsrules/DisasterManagementAct2005.pdf>
5. Dr. Satendra, (2003): Disaster Management in the Hills, Concept Publishing House, New Delhi.

Suggested Readings

1. Goel, S.L., (2006): Encyclopedia of Disaster Management, Deep and Deep Publications, New Delhi.

2. Gosh, G.K., (2012): Disaster Management, A.P.H. Publishing Corporation, New Delhi
3. Government of India, (2004): Disaster Management in India -A Status Report,
<http://ndmindia.nic.in/EQProjects/Disaster%20Management%20in%20India%20%20A%20Status%20Report%20-%20August%202004.pdf>
4. Government of India, (2005): Disaster Management Act.