

### 1.1.1 – DEPARTMENT OF HISTORY – ENVIRONMENTAL NEEDS

#### UEHIE20: ELECTIVE: III A- GEOGRAPHY OF INDIA

Year:	Course Code:	Title of the Course:	Course Type:	Course Category:	H/W	Credits	Marks
III	UEHIE20	Elective III A:Geography of India	Theory	Core Elective	6	5	100 40+60
Sem: VI							

#### Course Objective:

1. To help the students to understand the concepts of Geography its foundation and its development through the ages
2. To help the students to know the physiographic of India
3. To help the students to acquire the knowledge of natural resources and the climatic changes.

#### Course Outcomes:

##### After completion of the course the student will able to:

1. Explain the foundation of Geography and its application in day today's context
2. Describe about the Themes, Traditions and types of Geography
3. State the evolution of the physical features of India
4. Estimate about the Natural Resources to commit oneself for Sustainable Development
5. Examine the prevention of Disaster and Relief measures available in India to create respect for Human Values

CO/P O	1	2	3	4	5	6
CO1	H	L	M	H	L	M
CO2	M	M	H	H	L	L

CO3	H	M	H	H	L	L
CO4	H	L	M	H	M	M
CO5	H	L	M	H	L	L

**H-High (3) M-Medium (2) L-Low(1)**

CO/PO	1	2	3	4	5	6
<b>CO1</b>	L	L	L	H	H	M
<b>CO2</b>	L	L	L	H	H	M
<b>CO3</b>	L	L	L	H	H	H
<b>CO4</b>	L	L	L	H	H	M
<b>CO5</b>	L	M	M	H	H	M

H-High (3) M-Medium (2) l-Low (1)

**Unit I:**

**(18 Hours)**

1.1- Meaning and Definition of Geography- Geography as a Science- Geography and its relations with Physical Science- Mathematics- Astronomy (K1, K2)

1.2- The Scope of Geography- Geography teaches the past - Values- Importance of Geography-Geographer, Geologist- Understand Places- teaches a skill- International Understanding – Better Citizen – Provides Clues to the Past(K1, K2, K4)

1.3- Foundation of Geography-Evolution of Geography- Ancient – Medieval- Modern (K2)

1.4- Contribution and Importance of Geography (K2)

1.5-Four Traditions of Geography-Spatial Tradition- Area Studies Tradition- Man Made Tradition- Earth Science Tradition (K1, K2, K4)

1.6-Branches of Geography- Physical Geography-Human Geography-Geographic Techniques- Mathematical Geography- Statistical Geography- Cartography(K1, K2, K4)

**Unit II:****(18 Hours)**

2.1- Theories of Earth Origin- Big Bang Theory- Galaxy - Milky Way- Solar System- History of Earth Creation-Geological History of India- Pangea- Tethys- Creation of Himalayas

(K1,K2)

2.2- Basic Concepts of Geography in India(Islands- Peninsula- Strait- Gulf- Cape- Archipelago- Atoll-Census-Continental Drift-Equator-Estuary-Glacier- Global Positioning System(GPS) (K2, K4)

2.3- Major Physiographic Divisions-Mountains-The Northern Great Plains (K2)

2.4- Himalayan Mountain- Central Himalaya- Eastern- Western Himalaya- Significance of Himalayas (K2)

2.5-Northern Great Plains- Indus Basin- its Significance- Ganga Basin- its Significance- Sundarbans (K2)

2.6-Brahmaputra Basin- The Brahmaputra Delta – Significance of Northern Great Plains (K2)

**Unit III:****(18 Hours)**

3.1- Deccan Plateau – Peninsular Plateau- Malwa Plateau- Chotta Nagpur Plateau- Deccan trap- Western Ghats and Eastern Ghats (K2)

3.2-Rivers of India- Perennial Rivers- Non-Perennial Rivers- Water Resources- Rain Water Harvesting-Multi Purpose River Projects- Integrated Water Resource Management in India (K2, K4)

3.3- Deserts:- Thar Desert- Islands: – Andaman- Nicobar Islands - (K2, K4)

3.4-Natural Resources of India - Biodiversity- Flora and Fauna- Geographical classification of Forest (K2, K4)

3.5-National Forest Policy- Forest Products- Conservation of Forest-Problems of Indian Forestry(K4)

3.6-Wild life- Mammal Species- Carnivores- Herbivores- Conservation of Wild life- Problems of Wild Life-Red Data Book (K2, K4)

**Unit IV:****(18 Hours)**

4.1-Land Resources- Land Utilization- Land Conservation Measures- Agricultural patterns of India (K2, K4)

4.2-Mineral Resources- Water Resources – Growth of Fisheries- Inland Fishing- (K2)

4.3- Development of Industries in India- Essential need for industries - Private and Public Sector- Manufacturing Industries- Agro-based Industries- Cottage Industries- (K4)

4.4-India – Climate of India-Indian Monsoon- North East Monsoon- South East Monsoon-Seasons of India:- Winter – Summer- Jet Streams- Reasons for Climate Changes (K2 )

4.5-EL- Nino- Tropical Cyclones- Thunder Storms- Rainfall distribution- Variability of Rainfall (K2)

4.6- Soil- Characteristics of Soils- Classification of soils- Soil Erosion- Importance of Soil Conservation-(K2, K4)

**Unit V: (18 Hours)**

5.1-Disaster-Natural Disaster- Man Made Disaster -Terrorism-War-Biological Disaster (K2, K4)

5.2-National Disaster Management of India National Disaster Management Policy – Prevention- Mitigation- Relief- Restoration (K4)

5.3-Energy Resources- Conventional Energy- Non- Conventional Energy(K2)

5.4-Major Developmental Projects- Atomic, Solar, Hydro, Wind, Dams – Energy Crisis- Importance of Energy Conservation (K2, K4)

5.5- Transport and Communication (Road, Railways, Water, Airways) (K2)

5.6- India’s Space Exploration and Geography- Satellite Geo-Location, Remote Sensing Satellite- (K2,K4)

### **Maps (India)**

1. Physical Features
2. Forest and Vegetation
3. Crops
4. Mineral Resources
5. Soil

### **B. Text Books:**

1. Majid Hussain-Geography of India-MC Grow Hill Education Pvt.Ltd, New Delhi,2018

### **Books for Study and Reference:**

1. S.A. Qazi-Geography of the World- S.N. Nagar, APH Publishing Corporation New Delhi, 2007
2. Dr. Satnam Singh- Indian Geography- Damini Garg, Murari Lal and Sons, New Delhi,2007
3. Majid Husain- World Geography-Satyam Apartment, Jawahar Nagar, Jaipur,2008
4. Prithivish Nag, Smita Sengupta Ahsok Kumar Mittal- Geography of India- Concept Publishing, New Delhi, 2002
5. A.M. Bagulia- Indian Geography-Anmol Publications Pvt Ltd., New Delhi, 2006
6. Dr. Satnam Singh- Indian Geography- Damini Garg, Murari Lal and Sons, New Delhi,2007
7. Pradeep Sharma- Human Geography, the land-Discovery Publishing house, New Delhi-2007

### **Open Educational Resources (OER):**

- 1.<https://www.openstreetmap.com>
- 2.[www.mhhe.com/getis10e/](http://www.mhhe.com/getis10e/)
- 3.<https://www.imd.gov.in>
- 4.<https://www.glovis.usgs.gov>
- 5.[www.nasagov.com](http://www.nasagov.com)

**B.A. / B.Sc. / B.Com. / B.B.A. / B.C.A. – SEMESTER IV**  
**UNEVS17 – ENVIRONMENTAL STUDIES**  
**(Effective for the Batch of Students admitted in 2016 – 2017)**

**SYLLABUS**

**Unit I:**

Definition of Environment - scope and importance, components and segments of environment - Multidisciplinary nature of Environmental Studies

Natural Resources: Water, Land, Wind, Energy, Forest and Mineral resources

**Unit II:**

Ecosystem - Structure and functions of ecosystems – Food chain and Food web – Ecological Pyramids – Types of Ecosystems – Lake ecosystem, Pond Ecosystem, Forest Ecosystem, Grassland Ecosystem, Desert Ecosystem and Ocean Ecosystem- Energy flow in Ecosystem – Ecological Succession

**Unit III:**

Biodiversity: General terms related to biodiversity – Types of Diversity - India as a mega biodiversity zone - Threats to Biodiversity - Conservation of Biodiversity – Values of Biodiversity

**Unit IV:**

Environmental pollution: Air pollution, Water pollution, Soil pollution and Noise pollution – Causes, effects and control measures – Rainwater harvesting – Watershed management – Solid waste management

**Unit V:**

Human population and Environment: Environmental Protection Act, 1986 – Environment protection agencies (International and National) - Air (Prevention and Control of Pollution) Act 1981, Water (Prevention and Control of Pollution) Act 1976, Wildlife Protection Act, 1972 - Forest (Conservation) Act, 1980 - Wildlife Protection Act, 1972

General Environmental issues – Global warming - Climate change – Ozone layer depletion – Acid rain - Sustainable Development – Population explosion - Role of Information Technology in Environmental Conservation