

GEO105:ENVIRONMENTAL GEOGRAPHY

L:3 T:1 P:0 Credits:4

Course Outcomes: Through this course students should be able to

- CO1 :: discuss the concept of environment
- CO2 :: describe the ecosystem and its components
- CO3 :: examine major terrestrial ecosystems of the world
- CO4 :: analyze man environment relationship
- CO5 :: evaluate emerging environmental issues in different ecosystems of the world
- CO6 :: anticipate the impact of major global and national environmental legislation

Unit I

Environment : meaning, nature, components of environment

Environmental geography : meaning, scope, fundamental concepts, branches of environmental geography

Unit II

Ecological concepts : ecosystem and its components, trophic level of organisms, ecological pyramids, ecological niche

Energy flow : energy and nutrients flow in the ecosystem, food chains, food webs, biogeochemical cycles

Unit III

Major terrestrial ecosystems of the world : tundra region, taiga region, deciduous forest, grasslands, tropical rainforest, deserts

Unit IV

Man - environment relationship : resource use and ecological imbalance, soil and water utilization and its effect on environment, deforestation and its effect on environment, environmental effects of energy and mineral resources

Unit V

Emerging environmental issues : global warming and its environmental effects, ozone depletion, deforestation, food security, loss of biodiversity

Unit VI

Environmental legislation : The Stockholm Conference, the Earth Summit, environmental laws in India (the Wild Life Act, Water Act, Forest Act, Environment Protection Act and National Environment Tribunal Act)

Text Books:

1. ENVIRONMENTAL GEOGRAPHY by SAVINDRA SINGH, PRAYAG PUSTAKALAYA, ALLAHABAD

References:

1. ESSENTIALS OF ECOLOGY AND ENVIRONMENTAL SCIENCE by S.V.S. RANA, PHI Learning Pvt Ltd
2. LIVING WITH EARTH : AN INTRODUCTION TO ENVIRONMENTAL GEOLOGY by TRAVIS HUDSON, PEARSON
3. ENVIRONMENTAL ECOLOGY, BIODIVERSITY AND CLIMATE CHANGE : TOWARDS SUSTAINABLE DEVELOPMENT by H.M. SAXENA, RAWAT PUBLICATIONS
4. ENVIRONMENT, RESOURCES & SUSTAINABLE DEVELOPMENT by SYED MOHD. RASHID, M. ISHTIAQ, HASEENA HASHIA AND ATIQR RAHMAN, RAWAT PUBLICATIONS
5. ENVIRONMENTAL ISSUES BEHAVIOURAL INSIGHTS by PARUL RISHI, RAWAT PUBLICATIONS

