

MANGALORE UNIVERSITY
MSc Geography

GYS 554: Environmental Geography

Course Outcome

Course Learning Outcomes:

- CO1. Understand health issues in its spatial context.
- CO2. Extrapolate influence of place and location on human health.
- CO3. Analyze spatial patterns of disease and health care provisions.
- CO4. Apply geographical concepts and techniques to health related problems.
- CO5. Apply geographical knowledge to health policy advocacy specifically to third world diseases.
- CO6. Assess/Evaluate methods applied to infer causal relationships between spatial variability in environment and health outcomes

Unit 1: Nature and interdisciplinary aspect of environmental geography. Ecological approaches. Definition and meaning of environment. Habitat, ecological niche, Bio-sphere and Biodiversity. 13

Unit 2: Ecosystem: Structure and functioning of ecosystem, pond as ecosystem, food chains, food webs, food pyramid. Biomes – equatorial to tundra i.e 11 types. Man and environmental relationships. Resource use and ecological imbalance with reference to soil, forests and energy resources. Man made ecosystem - Urban, ecotourism, national parks and sanctuaries. Depletion of ozone, greenhouse effect and acid rain. 12

Unit 3: Man induced changes in environment: Environmental pollution, i.e. air, water, noise, solid waste with special reference to India. Environmental hazards, i.e. earth as warehouses, flood, famines, land slides, avalanches, forest fires, impact of green revolution and extinction of species. 11

Unit 4: Principles of environmental management- Environmental policy of India, (post 2000AD). Environment impact assessment (EIA). Global summits and agencies of environment conservation. 10

References:

1. Strahler A.N. (1968) The Earth Sciences, Harper International Education, New York.
2. Richard H.B. (2004) Physical Geography, Heinmann Simple Services, Rupa & company, New Delhi
3. Robinson H. (1982) Bio Geography, ELBS, New York.
4. Healey I.N. and Moore P.D. (1973) Bio-Geography, Backwell Oxford, U.K.
5. Strahler A.N. and Strahler A.H. (1973) Environmental Geo Science, Hamilton, California, USA.
6. Savindra Singh (2004) Environmental Geography, Prayog Pustak Bhawan, Allahabad, India.
7. Paul Selman (2000) Environmental Planning, Sage Publications, New Delhi

8. Cheryl Simon Silve and Ruth S. De Fries (1991) One Earth One Future-Our chaining Global
9. Environment, National Academy of Sciences, Affiliated to East West Press Pvt. Ltd. New Delhi.
10. Strahler A.N. and Strahler A.H. (1977) Geography and Man's Environment, John Wiley & Sons, New York
11. Goldsmith Edward et al. (1988) The Earth Report – The Essential Guide to Global Issues, Price Stern Solan Inc. California, USA

