

K L UNIVERSITY
DEPARTMENT OF COMMERCE
B.Com (Honours) (Accounting & Finance)
III - SEMESTER

FOUNDATION COURSE
ENVIRONMENTAL STUDIES

Unit I: Introduction: (Hours : 6)

Definition - Scope and Importance - Measuring and defining environmental development - indicators – Lithosphere – Hydrosphere – Atmosphere – Biosphere – Biogeochemical cycles – Carbon, Nitrogen and Hydrological Cycle. – Man and Nature relation and interaction with respect to food, Clothing, Shelter and Occupation.

Unit II: Basic Principles of ecosystem functioning: (Hours : 10)

Concept of an ecosystem - Structure and function of an ecosystem - Producers, consumers and decomposers - Energy flow in the ecosystem - Food chains, food webs and ecological pyramids - Introduction, types, characteristic features, structure and functions - Forest ecosystem - Grassland ecosystem - Desert ecosystem - Aquatic ecosystems (ponds, streams, lakes, rivers oceans, estuaries)

Unit III: Environment and Natural Resources: (Hours : 12)

Forest Resources - Use and over-exploitation - Deforestation - Timber extraction - Mining and dams – their effects on forests and tribal people.- **Water Resources** - Use and over-utilization of surface and ground water - Floods, droughts - Conflicts over water – Dams - benefits and costs - Mineral resources - Use and exploitation - Effects of extracting and using mineral resources **Land resources** - Land as a resource - Common property resources - Land degradation - Soil erosion and desertification

Unit IV: Environmental Pollution(Hours :10)

Welfare Measures and Environmental Values - Definition and Classification of Environmental Values - Valuation Methods - Causes, effects and control measures of - Air pollution - Water pollution - Soil pollution - Marine pollution - Noise pollution - Nuclear hazards - Solid Waste Management - Urban and industrial wastes - Pollution control methods - Disaster management - floods, earthquake, cyclone and landslides.

Unit V: Environmental Regulations by Government of India(Hours : 7)

Design of Environmental Policy - Direct Regulation by Government - Common and Control Instruments - Monitoring and Enforcement of Environmental Regulation.

Text Book:

1. R.C.Sharma & Gurpirsancha, Environmental Studies, Kalyani Publications, 2010, 5th Edition, New Delhi.
- 2.R.J.Ranjith Daniel and Jagdish, Environmental Studies, Wiley India, 2009, 2nd Edition, New Delhi..

Reference Books:

1. William P. Cunnigham and Barbara Woodworth Saigo , Environmental Science , WBC Publishers.2007, 2nd Edition,
2. Bernard J.Nebel and Richard T Wright , Environmental Science The way the world works, Prentice Hall, 2008, 7th Edition, New Delhi.

3.Raven and Berg, Environment, Wiley, 2004, 4th Edition, New Delhi.