

SEMESTER- I
PAPER CODE: ENVSC 1031 [ENVSC Multidisciplinary: COURSE NO. 1]
NATURAL RESOURCES & SUSTAINABLE DEVELOPMENT

TOTAL CREDITS: 3

TIME: 2 Hours

MARKS: 40

Lectures: 50

Learning objectives

- *Explain the fundamentals of natural resources and their distribution*
- *Present available natural resources.*
- *Describe the judicious uses of natural resources*
- *Outline & basic elements of sustainable development*

Unit 1: Natural resources

Overview of natural resources: Definition of resources; Classification of natural resources – biotic and abiotic, renewable and non-renewable **05**

Unit 2: Biotic and water resources

Major types of biotic resources: Forests, Grasslands, Wildlife and Aquatic

Types of water resources: Freshwater and marine water resources; Availability and use of water resources; Conflicts over water resource – International and National perspectives **15**

Unit 3: Soil and mineral resources

Soil types and distribution in India; Major degradation of soil; Major minerals in India; Over exploitation and environmental problems **10**

Unit 4: Energy resources

Types of energy sources; Renewable resources (Solar, Hydro, Ocean and biomass); Non-renewable sources (Coal, Petroleum and Nuclear resources) **10**

Unit 5: Sustainable Development

Concept, SDGs – Goals, Targets & Indicators; Challenges & strategies of SDGs in India **10**

Learning outcome (After completion of this unit students would be able to:)

- *Understand the concept of natural resources; identify types of natural resources, their distribution and use with special reference to India*
- *Discuss the factors affecting the availability of natural resources, their conservation and management*
- *Explain sustainable development, its goal, targets, challenges and Indian strategies for SDGs*

Proposed faculty involvement

Unit 1 & 2: Social Science/ Botany/ Zoology

Unit 3: Geography/ Botany/ Zoology/ History

Unit 4: Geography/ Social Science/ Physics

Unit 5: Political Science/Social Science