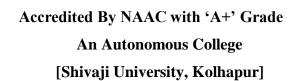
# Rayat Shikshan Sanstha's SADGURU GADAGE MAHARAJ COLLEGE KARAD





# **CHOICE BASED CREDIT SYSTEM**

Syllabus For
All UG Second Year Students
Environmental Studies
(Syllabus to be implemented from June, 2024 onwards.)

# NEW/REDESIGNED SYLLABUS FOR All UG Second Year Students

# (Introduce From June, 2024 Onward) (Course Paper No. I) Environmental Studies

Semester-III & IV

#### **ENVIRONMENTAL STUDIES**

Syllabus

### **Module.1] Nature of Environmental Studies**

Defination, Scope and Importance Multidisciplinary Nature of Environment Studies

# **Module.2] Natural Resources and Associated Problems**

Forest Resources: Deforestation, Mining, Dams And Their Effects On Forests And

Trible People.

Water Resources: Floods, Drought, Dams benefits and problems.

Mineral Resources: Environmental Effects of Extracting And Using Mineral Resources.

**Energy Resources:** Renewable and Nonrenewable Resources.

**Energy Sources**: Solar Energy and Biomass.

### Module.3] Ecosystem

Concept of an Ecosystem

Structure and Functions of an Ecosystem.

Food Chain, Food web, Ecological Pyramid.

Introduction, Types, Characteristics, Structure, and Functions of the

followingEcosystem.

Al Forest Ecosystem

B] Grassland Ecosystem

C] Desert Ecosystem

DJ Aquatic Ecosystem

#### **Module.4**] Biodiversity and Its Conservation

Introduction- Defination, [Genetic, Species, Ecosytem Diversity].

Hot-Spot Biodiversity.

Biodiversity at global, nation, local level.

In-Situ Conservation and Ex-Situ Conservation of Biodiversity.

#### **Module.5**] Environmental Pollution

Introduction. Definition.

Control measures of:

A] Air Pollution

- B] Water Pollution
- C] Soil Pollution
- D] Noise Pollution

Solid Waste Management- Causes, Effects, and Solutions

Disaster Management-Floods, Earthquake, Cyclone.

# Module. 6] Social Issues and Environmental Protection

Sustainable and Unsustainable Development.

Water Conservation, Rain Water Harvesting.

Resettlement of people- problems and solutions.

Climate change, Global warming, Acid rain, Ozone layer Depletion.

- A] Environment Protection Act.
- B] Air [Preventation and Control of Pollution] Act.
- C] Water [Preventation and Control of Pollution] Act.
- D] Forest [Preventation and Control of Pollution] Act.