



**Rayat Shikshan Sanstha's
SADGURU GADAGE MAHARAJ COLLEGE KARAD**

Accredited By NAAC with 'A+' Grade

An Autonomous College

[Shivaji University, Kolhapur]



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
following Ecosystem.

A] Forest Ecosystem

B] Grassland Ecosystem

C] Desert Ecosystem

D] Aquatic Ecosystem

Module.4] Biodiversity and Its Conservation

Introduction- Defination, [Genetic, Species, Ecosystem 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 [Prevention and Control of Pollution] Act.

C] Water [Prevention and Control of Pollution] Act.

D] Forest [Prevention and Control of Pollution] Act.