



# Govt. Science College, Jabalpur

## B.Sc. 3<sup>rd</sup> year

### Environmental Science

#### Habitat, Population and Restoration Ecology (Group A Paper I)

#### Course Learning Outcomes (CLO)

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- ❖ Demonstrate an understanding of the scientific method including field and laboratory methods (observation, Sampling, recording data, analysis of data and reporting data).
- ❖ Understand numerical and advanced approaches to the study of ecological systems.
- ❖ Improve analytical skills especially in phytosociological data. Understand how mathematical model can be used to help understand complex systems.
- ❖ Develop an appreciation of nature and the services provided by intact ecosystems.
- ❖ Develop an understanding of factors which affect species abundance and diversity within a community and describe the various types of interactions between members of a community.
- ❖ Development of an understanding about degradation of biotic and abiotic environment.
- ❖ Develop an understanding how to restore and repair degraded Environment.





# Govt. Science College, Jabalpur

**B.Sc. 3<sup>rd</sup> year**

**Environmental Science**

**Environmental Resources and Conservation  
(Group A Paper II)**

**Course Learning Outcomes (CLO)**

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- ❖ Build an understanding about utilization of renewable resources in the ancient Indian period.
- ❖ Identify and describe the occurrence and distribution of the most important abiotic and biotic natural resources on the Earth.
- ❖ Explain the connection between natural cycles that set the limitations for formation, occurrence and quality of abiotic and biotic natural resources.
- ❖ Summarize environmental issues that are caused by exploitation and handling of natural resources.
- ❖ Students will understand the importance of petro crops as an alternative to fossil fuels.
- ❖ Explain and apply the concept of environmental analysis with respect to natural resources and energy usage.
- ❖ Decide which special competences and expert knowledge that are needed in matters of natural resources, and also propose where this competence/knowledge can be found.
- ❖ Depict the knowledge of water harvesting techniques.





# Govt. Science College, Jabalpur

**B.Sc. 3<sup>rd</sup> year**

**Environmental Science**

**Hazards, Disaster and Their management  
(Group B Paper I)**

**Course Learning Outcomes (CLO)**

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- ❖ Introduces the students about basic concepts of disasters and disaster management.
- ❖ Define the various aspects of geological and environmental hazards, their causes, classification and impacts.
- ❖ Depict risk of natural, anthropogenic and occupational hazards.
- ❖ Develop the analytical skills to study relationship between vulnerability, disasters, disaster prevention and risk reduction.
- ❖ Define the phases of disaster and how to act during a disaster.
- ❖ Introduction with the management strategies and governmental action plan to mitigate and prepare of such hazards.





# Govt. Science College, Jabalpur

**B.Sc. 3<sup>rd</sup> year**

**Environmental Science**

**Environmental Legislations, Protocol and Movements  
(Group B Paper II)**

**Course Learning Outcomes (CLO)**

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- ❖ Develop an understanding to explain fundamental concepts in environmental law and policy.
- ❖ Developed an understanding how international environmental law is incorporated into environmental policies of national and state governments.
- ❖ Analyze and evaluate the effectiveness of contemporary legislation and policy setting in managing key environmental issues such as climate change, biodiversity and natural resource management.
- ❖ Analyze the role of Governmental Agencies in environmental policy formulation.
- ❖ Critically evaluate implementation of environmental legislation, regulation and policy.
- ❖ Develop basic concepts, approaches and methods of environment education and awareness in India.

