

| Lecture Plan | | |
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| Name of the College: Government College of Arts, Science and Commerce, Sanquelim - Goa | | |
| Name of Faculty: Ms. Supriya Gaonkar | Subject: Geography | |
| Paper code: GOS 211 Ecology, Environment and Sustainable Development | Program: BSC | Division: |
| Academic year: 2024-2025 | Semester: III | Total Lectures: 30 |
| Course Objectives: . To explain the fundamental ecological concepts such as ecosystems, biodiversity, ecological niche and the interdependence of living organisms and their environment 2. To give an overview of sustainable development from a geographical perspective 3. To discuss the importance of biodiversity conservation for ecological stability 4. To covers key concepts and themes in sustainable development, such as economic growth, environmental protection, social equity, and political governance 5. The importance of ‘thinking ecologically’ when approaching complex environmental problems 6. To examines the challenges and opportunities of sustainable development in different regions and countries, and the role of geography in promoting sustainable development | | |
| Course Outcome: By the end of this course, students will be able to: 1. Analyze the causes and consequences of environmental degradation 2. Understand the principles of balancing economic, social, and environmental dimensions for sustainability. 3. Evaluate the challenges and opportunities of sustainable development in different regions and countries 4. Develop critical thinking and analytical skills to address sustainability issues | | |
| Student Learning Outcome: <ul style="list-style-type: none"> At the end of the course students will learn concept of Ecology, Environment and Sustainable Development, | | |

- Students will be able to apply the knowledge of Geography to understand environmental related issues.

| Month | Lecture From | Lecture To | No. of lectures allotted | Topic, Subtopic to be covered | Exercise/ Assignment | ICT Tools | Reference books |
|--------|--------------|------------|--------------------------|---|--|--|--|
| JUNE | 28/06/2024 | 29/06/2024 | 02 lecture per Week | Introduction to Ecology and Environment | To read on Environment | Power point presentation, Videos, Maps | Ecology and Environment. P.D. Sharma |
| JULY | 1/07/2024 | 6/07/2024 | | Ecology: Meaning, Principles, | Write important terms related Ecology | Power point presentation, | Ecology and Environment. P.D. Sharma |
| | 8/7/2024 | 13/7/2024 | 02 lecture per Week | Objectives & Scope of Environment and Ecology | Write the scope for Ecology and Environmental Studies | Power point presentation, | Ecology and Environment. P.D. Sharma |
| | 15/7/2024 | 20/7/2024 | | Ecology and Geography, Environment and Geography | What is the relationship between Geography and Environment | Power point presentation, | Environmental Geography Ecology and Environment. P.D. Sharma |
| | 22/7/2024 | 27/07/2024 | | Concept of carrying capacity and its types | Read on Carrying Capacity | Power point presentation, | Ecology and Environment. P.D. Sharma |
| | 29/7/2024 | 03/08/2024 | | Assimilative capacity and ecological foot prints. | How can you reduce the ecological foot prints? | Power point presentation, | Ecology and Environment. P.D. Sharma |
| AUGUST | 5/08/24 | 9/8/2024 | | Concept and Components of Ecosystem | | Power point presentation, | Ecology and Environment. P.D. Sharma |

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| | 12/8/2024 | 17/8/2024 | 02 lecture per Week | Types, Structure, Functions and Stability of Ecosystem | Give importance of Ecosystem | Power point presentation, | Ecology and Environment. P.D. Sharma |
| | 19/8/2024 | 24/8/2024 | | flow of energy and matter | Explain the flow of Energy in the Ecosystem | Power point presentation, | Ecology and Environment. P.D. Sharma |
| | 26/8/2024 | 31/8/2024 | | Ecological niche, Keystone species, Ecotypes | Find out keystone species in your locality | Power point presentation, | Ecology and Environment. P.D. Sharma |
| SEPTEMBER | 2/9/2024 | 7/09/2024 | | Indicators, Ecological Adaptation | Write indicators of Ecological Adaptations | Power point presentation, | Ecology and Environment. P.D. Sharma |
| | 9/9/2024 | 14/9/2024 | 02 lecture per Week | Ecological Genetics and Behaviour Ecology. 8. Biodiversity and its conservation | Give measure for conservation of Biodiversity | Power point presentation, | Ecology and Environment. P.D. Sharma |
| | 16/9/2024 | 21/8/2024 | 02 lecture per Week | Definition, Principles and Scope of sustainability | Read and write the scope of sustainability | Power point Presentation | Ecology and Environment. P.D. Sharma |
| | 23/9/2024 | 28/9/20024 | 02 lecture per Week | Strategies for promoting sustainable development, | Give methods to promote sustainable Development | Power point Presentation | Ecology and Environment. P.D. Sharma / Online Resources |
| | 30/9/2024 | 5/10/2024 | 02 lecture per Week | The Millennium Development Goals | Make a list of Millenium Development Goals | Power point Presentation | Environmental Geography/Online Sources |
| OCTOBER | 7/10/2024 | 12/10/2024 | 02 lecture per Week | Sustainable Development Goals | Make a Chart for SDGs | Power point Presentation | Environmental Geography/ Environmental Geography |

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| | | | | Natural Resources and sustainable development | | | |
| | 14/10 /2024 | 19/10/2024 | 02 lecture per Week | National Strategies and International Experiences | Find out the International Conventions held recently. | Power point Presentation | Ecology and Environment. P.D. Sharma / Online Resources |
| | 21/10/2024 | 22/10/2024 | 02 lecture per Week | Renewable energy for sustainable development | Read on renewable Energy resources and its consumption in India | Power point Presentation | Ecology and Environment. P.D. Sharma / Online Resources |

Assessment Rubrics

| Component | Max Marks |
|-------------------|------------------|
| ISA 1 | 10 |
| ISA 2 | 10 |
| Practical | NA |
| Project | NA |
| Semester End Exam | 80 |