

Lesson Plan (2025-2026)

Odd Semester

Teacher Name: **Dr. Kiran Bishnoi**

Class: **B.A. I/B.Com. I/B.Sc. I**

Subject: **Environmental Studies-I C24VAC101T (VAC)**

August 2025	The multidisciplinary nature of environmental studies, Definition, scope and importance, Need for public awareness.
September 2025	Ecosystems: Structure and function. Producers, consumers and decomposers. Energy flow in the ecosystem, Ecological succession · Food chains, food webs and ecological pyramids. Assignment Unit Test
October 2025	Biodiversity and its conservation: Introduction–Biogeographical classification of India; Value of biodiversity Unit Test
November 2025	India as a mega-diversity nation; Hot-spots of biodiversity; Threats to biodiversity: Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity. Revision

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Odd Semester

Teacher Name: **Dr. Kiran Bishnoi**

Class:BA I

Subject: **Environmental Issues in India C24MDC130T (MDC)**

August 2025	Significant global environmental issues: acid rain, climate change, biodiversity loss, ozone layer depletion, resource depletion and conservation, Sustainable development, International concerns and efforts for environmental protection: Stockholm Summit, Rio Summit.
September 2025	Regional Environmental Issues: Forest and Wildlife management, desertification, reclamation of degraded land; Human intervention on wetlands, siltation and eutrophication, reclamation of wetlands, Mining and Environment, Open cast mining, Deforestation and their impact on environment. Assignment Unit Test
October 2025	Pollution: Air Pollution: Causes of air pollution, some important pollutants of air (CO, SOX, NOX and HC and Particulates) – their sources and effects on living and non-living organisms. Water Pollution: Sources of pollution of surface and ground water, Types of water pollutants. Unit Test
November 2025	Solid Waste – Sources, characterization, disposal and management. Soil Pollution: Sources, Pollution and residual toxicity from the application of insecticides, pesticides and fertilizers. Class Test Revision

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Teacher Name: **Dr. Kiran Bishnoi**

Class:BA I

Subject: **Water Quality Analysis C24SEC123T (SEC)**

August 2025	Introduction: Physical, chemical, and biological properties of water, types of water sources, occurrence, and importance.
September 2025	Water sampling techniques. Drinking water quality standards as per Bureau of Indian Standards and WHO Assignment Unit Test
October 2025	Physico-chemical and biological methods of water analysis: Theory and principles of physico-chemical parameters of Water analysis such as pH, color, odour, EC Unit Test
November 2025	Physico-chemical and biological methods of water analysis: Theory and principles of physico-chemical parameters of Water analysis such as Total Alkalinity and Total Hardness, Dissolved oxygen in water. Class Test Revision

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Teacher Name: **Dr. Kiran Bishnoi**

Class:BA II

Subject: **Atmospheric ChemistryC24MDC330T(MDC)**

August 2025	Atmospheric Chemistry Overview – physical properties and structure of the troposphere and the stratosphere, temperature profile, concentration profiles. Atmospheric Chemistry of the Troposphere – tropospheric chemical cycles, hydroxyl and chlorine radical, chemical cleansing, hydrocarbons in the troposphere, sources and sinks
September 2025	Atmospheric Chemistry of the Stratosphere – stratospheric ozone cycle, depletion, NO _x , halogen cycles, polar stratospheric cloud chemistry Assignment Unit Test
October 2025	Chemistry of Global Climate Change – Historical account of greenhouse gas and aerosol concentrations, carbon dioxide, ozone and altitude, aerosol uncertainties Unit Test
November 2025	Urban Smog - VOC/NO _x – Historical account of air pollution, progress and problems in experiments and modeling, assessing human impact on the atmosphere. Class Test Revision

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Teacher Name: **Dr. Kiran Bishnoi**

Class:BA II

Subject: **Waste Water TreatmentC24SEC323T(SEC)**

August 2025	Wastewater Treatment: Preliminary Treatment: Screening and filtering, Grit removal and large object removal, Filtration and sedimentation, Disposal of Screenings and Grit.
September 2025	Primary, Secondary and Tertiary treatment methods. Assignment Unit Test
October 2025	Sludge processing and disposal: Sources and effects of sludge on environment. Assignment Unit Test
November 2025	Methods of sludge disposal. Use of digested Sludge Class Test Revision