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, Week 1	The multidisciplinary nature of environmental studies. Definition, scope and importance. Need for public awareness.
August, Week 2	Ecosystems: Structure and function.
August, Week 3	Producers, consumers and decomposers.
August, Week 4	Energy flow in the ecosystem Food chains, food webs
September, Week 1	Ecological succession
September, Week 2	Ecological pyramids.
September, Week 3	**Assignment**
September Week 4	**Unit Test**
October, Week 1	Biodiversity and its conservation
October, Week 2	Introduction–Biogeographical classification of India; , Value of biodiversity
October ,Week 3	India as a mega-diversity nation; Hot-spots of biodiversity;
October ,Week 4	Threats to biodiversity, Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity.
November, week 1	**Unit Test**
November, Week 2	**Revision**

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Teacher's Signature

(Dr. Kiran Bishnoi)

Principal

Lesson Plan (2025-2026)

Odd Semester

Teacher Name: **Dr. Kiran Bishnoi** **Class: BA I**

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

August, Week 1	Significant global environmental issues: acid rain, climate change
August, Week 2	Biodiversity loss, ozone layer depletion
August, Week 3	Resource depletion and conservation. Sustainable development.
August, Week 4	International concerns and efforts for environmental protection: Stockholm Summit, Rio Summit.
September, Week 1	Regional Environmental Issues: Forest and Wildlife management.
September, Week 2	Desertification, reclamation of degraded land;
September, Week 3	Human intervention on wetlands, siltation and eutrophication.
September Week 4	Reclamation of wetlands, Mining and Environment, Open cast mining, Deforestation and their impact on environment. **Assignment** **Unit Test**
October, Week 1	Pollution: Air Pollution: Causes of air pollution.
October, Week 2	Some important pollutants of air (CO, SOX, NOX and HC and Particulates) – their sources and effects on living and non-living organisms.
October .Week 3	Water Pollution: Sources of pollution of surface and ground water, Types of water pollutants.
October .Week 4	**Unit Test**
November, week 1	Solid Waste – Sources, characterization, disposal and management
November, Week 2	Soil Pollution: Sources, Pollution and residual toxicity from the application of insecticides, pesticides and fertilizers. **Revision**

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Principal

Lesson Plan (2025-2026)

Odd Semester

Teacher Name: **Dr. Kiran Bishnoi** Class: **B A I**

Subject: **Water Quality Analysis (24SEC 123T (SEC)**

August, Week 1	Introduction: Physical, chemical, and biological properties of water, types of water sources, occurrence, and importance
August, Week 2	Physical, chemical, and biological properties of water.
August, Week 3	types of water sources.
August, Week 4	occurrence, and importance
September, Week 1	Water sampling techniques
September, Week 2	Drinking water quality standards as per
September, Week 3	Bureau of Indian Standards and WHO
September Week 4	**Assignment** **Unit Test**
October, Week 1	Physico-chemical and biological methods of water analysis: Theory and principles of physico-chemical parameters of Water analysis such as pH,
October, Week 2	Theory and principles of physico-chemical parameters of Water analysis such as color,
October .Week 3	Theory and principles of physico-chemical parameters of Water analysis such as odour
October .Week 4	Theory and principles of physico-chemical parameters of Water analysis such as EC **Unit Test**
November, week 1	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.
November, Week 2	**Revision**

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Lesson Plan (2025-2026)

Odd Semester

Teacher Name: **Dr. Kiran Bishnoi** **Class: BA II**

Subject: **Atmospheric Chemistry C24MDC330T (MDC)**

August, Week 1	Atmospheric Chemistry Overview – physical properties and structure of the troposphere and the stratosphere.
August, Week 2	Temperature profile, concentration profiles.
August, Week 3	Atmospheric Chemistry of the Troposphere – tropospheric chemical cycles, hydroxyl and chlorine radical, chemical cleansing.
August, Week 4	hydrocarbons in the troposphere, sources and sinks
September, Week 1	Atmospheric Chemistry of the Stratosphere – stratospheric ozone cycle,
September, Week 2	depletion, NOx, halogen cycles.
September, Week 3	polar stratospheric cloud chemistry
September Week 4	**Assignment**
October, Week 1	Chemistry of Global Climate Change – Historical account of greenhouse gas and aerosol concentrations, carbon dioxide, ozone and altitude, aerosol uncertainties
October, Week 2	Chemistry of Global Climate Change – Historical account of greenhouse gas and aerosol concentrations, carbon dioxide, ozone and altitude, aerosol uncertainties
October .Week 3	Chemistry of Global Climate Change – Historical account of greenhouse gas and aerosol concentrations, carbon dioxide, ozone and altitude, aerosol uncertainties
October .Week 4	**Unit Test**
November, week 1	Urban Smog - VOC/NOx – Historical account of air pollution, progress and
November, Week 2	Problems in experiments and modeling, assessing human impact on the atmosphere. **Revision**

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Lesson Plan (2025-2026)

Odd Semester

Teacher Name: **Dr. Kiran Bishnoi** **Class: BA II**

Subject: **Waste Water Treatment C 24SEC 323T (SEC)**

August, Week 1	Wastewater Treatment : Preliminary Treatment
August, Week 2	Screening and filtering. Grit removal and large object removal.
August, Week 3	Filtration and sedimentation. Disposal of Screenings and Grit.
August, Week 4	Primary treatment methods.
September, Week 1	Secondary treatment methods.
September, Week 2	Secondary treatment methods.
September, Week 3	Tertiary treatment methods.
September Week 4	Tertiary treatment methods. **Assignment** **Unit Test**
October, Week 1	Sludge processing and disposal: Sources and effects of sludge on environment
October, Week 2	Sludge processing and disposal: Sources and effects of sludge on environment.
October .Week 3	Sludge processing and disposal: Sources and effects of sludge on environment.
October .Week 4	**Unit Test**
November, week 1	Methods of sludge disposal. Use of digested Sludge
November, Week 2	**Revision**
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**

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