

**Module Title: Environmental Management in Hospitality****Module Code: B1193****Level: BAICA – 2<sup>nd</sup> Semester...Lesson Plan**

<b>S. No.</b>	<b>Unit</b>	<b>Topic/Activities</b>
1	Multidisciplinary Nature of Environmental Science	<ol style="list-style-type: none"><li>1. Introduction</li><li>2. Objective</li><li>3. Overview</li><li>4. Definition</li><li>5. Scope and Importance</li><li>6. Need for Public Awareness</li></ol>
2	Natural Resources	<ol style="list-style-type: none"><li>1. Introduction</li><li>2. Objective</li><li>3. Overview</li><li>4. Renewable and Non-Renewable Resources: Natural Resources and Associated Problems</li><li>5. Forest Resources: Use and Over-Exploitation, Deforestation,</li><li>6. Timber Extraction, Mining, Dams and their Effects on Forest and Tribal People</li><li>7. Water Resources: Use and Over-Utilization of Surface and Ground Water, Floods, Drought, Conflicts over Water, Dams-benefits and Problems</li><li>8. Mineral Resources: Use and Exploitation, Environmental Effects of Extracting and Using Mineral Resources</li><li>9. Food Resources: World Food Problems, Changes Caused by Agriculture and Overgrazing, Effects of Modern Agriculture, Fertilizer-Pesticide Problems, Water Logging, Salinity</li><li>10. Energy Resources: Growing Energy Needs, Renewable and Non-Renewable Energy Sources, Use of Alternate Energy Sources</li><li>11. Land Resources: Land as a Resource, Land Degradation, Man Induced Landslides, Soil Erosion and Desertification</li><li>12. Role of an Individual in Conservation of Natural Resources</li><li>13. Equitable Use of Resources for Sustainable Lifestyles</li></ol>
3	Ecosystems	<ol style="list-style-type: none"><li>1. Introduction</li><li>2. Objective</li><li>3. Overview</li><li>4. Concept of an Ecosystem</li><li>5. Structure and Function of an Ecosystem</li><li>6. Producers</li></ol>

		<ol style="list-style-type: none"> <li>7. Consumers and Decomposers</li> <li>8. Energy Flow in the Ecosystem</li> <li>9. Ecological Succession</li> <li>10. Food Chains</li> <li>11. Food Webs and Ecological Pyramids</li> <li>12. Introduction, Types, Characteristic Features, Structure and Function of the following Ecosystem: (a) Forest Ecosystem (b) Grassland Ecosystem (c) Desert Ecosystem (d) Aquatic Ecosystems (Ponds, Streams, Lakes, Rivers, Oceans and Estuaries)</li> </ol>
4	Biodiversity and its Conservation	<ol style="list-style-type: none"> <li>1. Introduction</li> <li>2. Objective</li> <li>3. Definition: Genetic, Species and Ecosystem Diversity</li> <li>4. Bio Geographical Classification</li> <li>5. Value of Biodiversity: Consumptive Use, Productive Use, Social, Ethical, Aesthetic and Option Values</li> <li>6. Biodiversity at Global, National and Local Levels</li> <li>7. Hot Spots of Biodiversity</li> <li>8. Threats to Biodiversity: Habitat Loss, Poaching of Wildlife, Man-Wildlife Conflicts</li> <li>9. Endangered and Endemic Species</li> <li>10. Conservation of Biodiversity: In-Situ and Ex-Situ Conservation of Biodiversity</li> </ol>
5	Environmental Pollution	<ol style="list-style-type: none"> <li>1. Introduction</li> <li>2. Objective</li> <li>3. Definition</li> <li>4. Cause</li> <li>5. Effects and Control Measures of: (a) Air Pollution (b) Water Pollution (c) Soil Pollution (d) Marine Pollution (e) Noise Pollution (f) Thermal Pollution (g) Nuclear Hazards</li> <li>6. Solid Waste Management: Causes, Effects and Control Measures of Urban and Industrial Wastes</li> <li>7. Role of an Individual in Prevention of Pollution</li> <li>8. Pollution Case Studies</li> <li>9. Disaster Management: Floods, Earthquake, Cyclone and Landslides</li> </ol>
6	Social Issues and the Environment	<ol style="list-style-type: none"> <li>1. Introduction</li> <li>2. Objective</li> <li>3. From Unsustainable to Sustainable Development</li> </ol>

		<ol style="list-style-type: none"> <li>4. Urban Problems Related to Energy: Water Conservation, Rainwater Harvesting, Watershed Management, Resettlement and Rehabilitation of People</li> <li>5. Its Problems and Concerns</li> <li>6. Urban Problems: Case Studies</li> <li>7. Environmental Ethics: Issues and Possible Solutions. Climate Change, Global Warming, Acid Rain, Ozone Layer Depletion, Nuclear Accidents and Holocaust</li> <li>8. Environmental Ethics: Case Studies</li> <li>9. Wasteland Reclamation</li> <li>10. Consumerism and Waste Products</li> <li>11. Environment Protection Act of Nepal</li> <li>12. Air (Prevention and Control of Pollution) Act of Nepal</li> <li>13. Water (Prevention and control of Pollution) Act of Nepal</li> <li>14. Wildlife Protection Act of Nepal</li> <li>15. Forest Conservation Act of Nepal</li> <li>16. Issues Involved in Enforcement of Environmental Legislation</li> <li>17. Public Awareness</li> </ol>
7	Human Population and the Environment	<ol style="list-style-type: none"> <li>1. Introduction</li> <li>2. Objective</li> <li>3. Population Growth</li> <li>4. Variation among Nations</li> <li>5. Population Explosion – Family Welfare Programme</li> <li>6. Environment and Human Health</li> <li>7. Human Rights</li> <li>8. Value Education</li> <li>9. HIV/AIDS</li> <li>10. Women and Child Welfare</li> <li>11. Role of Information Technology in Environment and Human Health</li> </ol>