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BSE462/A ECO-FRIENDLY PRACTICES

Course Outcomes:

After successful completion of the course, students will be able to:

CO1: Understand how mankind is responsible for polluting the environment and disturbing biodiversity and their larger impact on human society.

CO2: Get sensitized on how and what activities can be adopted in day-to-day life that helps the conservation of nature and natural resources.

CO3: Gain the wisdom of some of the international days observed for the conservation of nature.

CO4: Appreciate some of the great environment conservation activists of India and get inspired.

Unit I (13 hours)

Basic concepts and Definitions: Environment; ecosystem; Ecological footprint; Carbon footprint; Environmental pollution - air, water, and soil. Human-caused ecological problems - Global warming; climate change, species extinctions, plastic pollution; habitat destruction; biodiversity loss; ozone layer depletion; Human-wildlife conflict; natural calamities (flood, coastal flooding, cold wave, drought, heat wave, cyclone, ice storm, landslide, lightning, riverine strong wind, tornado, wildfire).

Unit II (13 hours)

Role of individuals in the conservation of nature: The 4Rs: Reduce, Reuse, Recycle and Recover; Waste segregation; Trash to Treasures with some examples; The concept of the free cycle; Plastic pollution - single-use plastics; Energy star appliances; public transport; health benefits of walking and cycling; Home gardening; plantation drive; afforestation; home energy audit; recycling of kitchen wastes; organic farming; composting - vermicompost; pot compost; biogas production; renewable energy - solar panels; solar lights; solar heater; integrated pest management; rainwater harvesting; Wasteland management through biodiesel plantation; Eco-friendly gifts and mementos; Community participation in nature conservation;

Unit III (13 hours)

International Days for Nature conservation: World Environment Day; World Wetlands Day; World Wildlife Day; Global Recycling Day; International Day of Forests; World Water Day; Earth Day; International Day for the Conservation of the Mangrove Ecosystems; International Day for Natural Disaster Reduction; World Soil Day. Great inspiring personalities of India for nature conservation: Sunderlal Bahuguna; Salim Ali; Rajendra Singh; Medha Patkar; M. S. Swaminathan; Vandana Shiva; Saalumarada Thimmakka; Panduranga Hegde.