



Module 1

SYLLABUS:

Plantation and adoption of a tree: Plantation of a tree that will be adopted for four years by a group of B.Tech. students. They will also make an excerpt either as a documentary or a photoblog describing the plant's origin, its usage in daily life, and its appearance in folklore and literature.

Introduction:

Planting, or the deliberate and systematic growth of trees and other plants, is one of the primary ways that life on Earth is preserved. The numerous aspects of plantations are explored in this essay, along with their importance to the environment, society, economy, and health.

Advantages for the environment:

A. Oxygen Production: Plants create oxygen through the process of photosynthesis, which is necessary for the survival of all aerobic species. Massive plantations are essential to maintaining an oxygen-rich, balanced environment.

B. Carbon Sequestration: Through photosynthesis, trees absorb carbon dioxide, lowering atmospheric concentrations of greenhouse gases and mitigating the consequences of climate change.

Conservation of Biodiversity:

A. Plantation operations: establish habitats for many species, contributing to the preservation of biodiversity. The diverse range of flora and animals present in forests, in particular, supports complex ecosystems.

B. Protection of Watersheds: Trees are necessary to maintain watersheds, stop soil erosion, and ensure that clean water is available. A robust plant canopy reduces the likelihood of flooding and aids in managing water flow.



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Soil Conservation:

A. Erosion Prevention: By anchoring the soil, plantation roots reduce the likelihood of soil erosion caused by wind and water. Rich topsoil is so conserved, and agricultural output is maintained.

B. Nutrient Cycling: Trees contribute to the cycle of nutrients by taking in minerals from the soil and releasing them through leaf litter.



Financial Gains:

A. **Timber and Non-timber Goods:** Plantations provide a variety of industries with a sustainable supply of wood. Fruits, nuts, and medicinal plants are examples of non-timber commodities that sustain lifestyles and economic activity.

B. **Job Opportunities:** By creating jobs in horticulture, forestry, and related industries, plantation projects strengthen local economies and encourage sustainable development.

Social Importance:

A. **Aesthetic Value:** Green spaces made possible by plantations improve the visual attractiveness of both rural and urban environments and improve community well-being in general.



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B. Recreational Spaces: By creating parks and green spaces through plantations, locals can engage in recreational activities that improve their physical and emotional well-being.

C. Provides shades

D. provides oxygen

E. Prevents soil erosion

F. Reduces pollutants

Plantation and adoption of a tree: Tree planting is recognized as one of the most engaging, environmentally-friendly activities that people can participate in to help the planet when done properly. Trees provide numerous long-term and short-term benefits. They not only look nice, but they also remove and store carbon from the atmosphere, slow heavy rain and thus reduce the risk of flooding, improve air quality, and reduce the urban heat island effect by reflecting sunlight and providing shade. Let us take a look at the long and short essay on tree plantation.

Trees are essentially human and other living organisms' livestock. They have unconditionally provided us with food, oxygen, and a variety of other necessities for human survival, such as shelter, medicines, tools, and so on.

Despite their rich values and importance, trees are still not properly cared for. They are cut down, eradicating all forms of life in the surrounding area. However, the relevance and importance of planting trees have only grown with each passing day. More trees must be planted as a collective effort by all of humanity to save our ailing planet. As a result, we have our global Tree Plantation Day, which is observed on March 21st all over the world. The purpose of observing the said day is to make people aware of the importance of planting trees and to assist them in doing so. Planting saplings to invest in the future is a common practice on tree plantation days.



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Students of 2nd year Civil Engineering, AJIET had adopted and planted neem, almond and rose apple plant on 25th and 30th November 2023 in the college campus and also plant is provided with a fence around for the safeguard of the plant from animals, wind, birds etc. The students are watering the plant daily in the morning and evening regularly and taking care of the plant.

SUBJECT COORDINATOR

HOD