



Earth & Environmental Science

Climate Change and Sustainability

Sustainability can also be defined as a socio-ecological process characterized by the pursuit of a common ideal, an ideal is by definition unattainable in a given time and space. However, by persistently and dynamically approaching it, the process results in a sustainable system. The study of ecology believes that sustainability is achieved through the balance of species and the resources within their environment. In order to maintain this equilibrium, available resources must not be depleted faster than resources are naturally generated.

Waste management techniques are useful to minimize or reduce the waste in environment and these will be helpful to keep the environment clean. Commonly used waste management techniques are Ocean Dumping, Sanitary Landfill, Incineration, Recycling, and Composting etc. Waste management techniques involve Mechanical and biological waste treatment, Mechanical sorting of wastes, Resource recovery from waste, Methods of Waste Disposal, Recovery and Recycling. All these techniques are useful to minimize the waste in the environment however these also have some advantages and disadvantages. Recycling is the best waste management technique among all these and the advantage of recycling is key to providing a liveable environment for the future.

Environmental engineering is a professional engineering discipline that takes from broad scientific topics like chemistry, biology, ecology, geology, hydraulics, hydrology, microbiology, and mathematics to create solutions that will protect and also improve the health of living organisms and improve the quality of the environment. Environmental engineering is a sub-discipline of civil engineering, chemical engineering and mechanical engineering.

Ecology and Ecosystems

Expectation of future worldwide natural changes requires a logical appraisal of the present state of earthly and marine biological communities and a comprehension of expansive scale earthbound and marine environmental procedures. Integrative earth framework models are imperative instruments for acclimatizing and requesting this environmental data.