

Programme specific Outcome for Botany Hons.

1. Study of plants is vital because they are fundamental part of earth which generates the oxygen, food, fibres, fuel and medicine that allow human and other life forms to exist.
2. Botanists study the effects of different types of pollutants on plants. Many plants are sensitive to certain pollutants, some are tolerant at a level, and some can absorb the pollutants. Botanists can advise to law maker on legislation for environmental protection.
3. By using plan tissue culture technique botanists can grow entire plant from single cell American chestnut recently has been grown by this technique. In India *Ginkgo biloba* has been grown in Darjeeling by tissue culture technique.
4. Plant taxonomists and plant ecologists work to identify new species which could be major new resource for people.
5. Many of the chemicals besides food are derived from plants. Botanists study the chemicals produced by plants to find their uses.
6. The botanical approaches to global change are critical for ecological equilibrium and for the implications these studies have for species conservation and ecosystem management.

Programme specific Outcome for Botany General.

1. Understanding of plants is crucial to human societies as it allows us to produce food for expanding population.
2. Generates oxygen and absorb carbon di oxide, thus make the earth suitable for all living organisms.
3. Plants have a positive effect on global climate.
4. Produce medicines and other material to treat various diseases of animals including human being.
5. Botany is key to development of biofuel such as biomass and methane gas.
6. Study of Botany help to understand the microscopy and digital imaging technology.