**Course: Advance Bio Informatics**

**Module Title: Introduction of Biotechnology**

**Module No: 91**

**Biotechnology**

To make a product or solve a problem for human benefit use of living organisms, or the products of living organisms. The word "biotechnology" was first used in 1917 to describe processes using living organisms to make a product.

Biotechnology began when humans began to plant their own crops, tame animals, make cheese etc.

Biotechnology is a multidisciplinary in nature, involving input from Engineering, Computer Science, Microbiology, Genetics, Molecular Biology etc.

**Types of Biotechnology**

**Microbial Biotechnology**

Manipulation of microorganisms such as yeast and bacteria. Used to produce large amounts of important proteins used in human medicine. Also used to create better enzymes.

**Agricultural Biotechnology**

Involves agricultural technology to raise food production.

**Animal Biotechnology**

Used to obtain proteins from animals. Also deals with animal cloning.

**Medical Biotechnology**

Preventive medicine. Diagnosis of illness. Treatment of human disease.

**Forensic Biotechnology**

Inclusion or exclusion of a person from suspicion. Identification of human remains. Endangered species. Tracking and confirmation of spread human disease.