

Course Outcomes (CO) of Major Course (NEP 2020)

Course Code: BBOTMJ01C

Title: Plants and Microbial Diversity and its Evolution

Course Outcomes (CO): The whole course will have the following outcomes.

Upon successful completion of this course, students will be able to

- I. Students will realize that people are dependent on intact habitats that sustain the various organisms we need to produce food, medicines, clothing, and other materials.
- II. Understand key scientific concepts for species and ecosystem conservation.
- III. Understand and apply the concept of species of conservation interest/concern.
- IV. Identify ecological requirements and maintaining factors for priority species and ecosystems.

Title Code: BBOTMJ2C

Title: Cell Biology and Biochemical Basis of Life

Course Outcomes (CO): The whole course will have the following outcomes.

- I. Students will understand the structures and purposes of basic components of prokaryotic and eukaryotic cells, especially macromolecules, membranes, and organelles
- II. Students will understand how these cellular components are used to generate and utilize energy in cells
- III. Students will understand the cellular components underlying mitotic cell division.
- IV. Students will apply their knowledge of cell biology to selected examples of changes or losses in cell function. These can include responses to environmental or physiological changes, or alterations of cell function brought about by mutation.
- V. Gain knowledge of the different types of tissues, organs and body systems.
- VI. Students will demonstrate ability to use evolutionary theory and related equations to model and predict population change or stability

Course Outcomes (CO) of Minor Course (NEP 2020)

Course Code: BBOTMEA11C (Minor 1)

Title: Mushroom Cultivation Technology

Course Outcomes (CO): The whole course will have the following outcomes:

Upon successful completion, students will be able to

- I. Students can start small scale industry of Mushroom cultivation. Students study the morphology and types of Mushrooms.
- II. They are aware of the identification of edible and poisonous Mushrooms.
- III. Students will be able produce spawn on their own.

Code: BBOTSEC01T (SEC 1)

Title: Biofertilizers, Nursery and Gardening

Course Outcomes (CO): The whole course will have the following outcomes:

- I. Understand the role of microorganism in improving the fertility of soil and also in control the pest and other pathogens.
- II. Biofertilizers are biological preparations of efficient microorganisms that promote plant growth by improving nutrient acquisition.
- III. They enhance soil productivity by fixing atmospheric nitrogen, solubilizing soil phosphorus, and stimulating plant growth.
- IV. Gardening is educational and develops new skills including: Responsibility– from caring for plants. Understanding– as they learn about cause and effect (for example, plants die without water, weeds compete with plants) Self-confidence – from achieving their goals and enjoying the food they have grown.
- V. Most horticultural crops are grown in nurseries and then transplanted into the fields.
- VI. The nursery improves germination and colonization, saves time, space, labour and facilitates maintenance.
- VII. A growth bed is defined as a prepared area of a nursery where seedlings are sown or where seedlings and cuttings are grown.