

MAHAMAYEE MAHILA MAHAVIDYALAYA, BERHAMPUR, GANJAM, ODISHA

BOTANY COURSE OUTCOME

COURSE OUTCOMES:

CLASS: FIRST YEAR B.Sc. (CBCS PATTERN) SEMESTER –I

CC-I: 1. Microbiology and Phycology

On completion of the course, students are able to

1. know the concept of microorganisms that is bacteria, virus, cyanobacteria etc.
2. able to explore what is algae, their life cycle and economic importance.

CC-II: Bio molecules and cell Biology

On completion of the course, students are able to

1. To know about bio molecules and Bioenergetics.
2. Understand about chemical bonds, properties of water, PH, Buffers etc.
3. Able to understand the ultra-structure of typical plant cell and different types of organelles.

CLASS: FIRST YEAR B.Sc. (CBCS PATTERN) SEMESTER –II

CC-III: MYCOLOGY AND PHYTOPATHOLOGY

On completion of the course, students are able to

1. Ensure practical knowledge of mushroom cultivation
2. Understand study of Lichens and different types of fungi.
3. know the geo graphical distribution of plant diseases.

CC-IV: ARCHEGONIATES

On completion of the course, students are able to

1. Know the unifying features of archaegoniates
2. Understand the origin and classification of Bryophyta, Ptreidophyta and Gymnosperm.
3. Understand about Geological time scale, Fossil and Fossilization process.

CLASS: SECOND YEAR B.Sc. (CBCS PATTERN) SEMESTER –III

CC-V: ANATOMY OF ANGIOSPERM

On completion of the course, students are able to

1. Know about organization of root and shoot apex.
2. Understand about Anatomy of Dicot and Monocot plant parts.
3. Study about epidermal tissue system, anatomical adaptation of Xerophytes and

Hydrophytes.

CC-VI: ECONOMIC BOTANY

On completion of the course, students are able to

1. Know about cultivated plants, cereals, legumes.
2. Study about spices, Drug yielding plants, Tobacco plants.
3. Study about Oil yielding plants, timber plants, and also about Natural rubber.

CC-VII: GENETICS

On completion of the course, students are able to

1. Know about Mendelism.
2. Understand about inheritance and variation.
3. Study about fine structure of gene and its mutation.

CLASS: SECOND YEAR B.Sc. (CBCS PATTERN) SEMESTER –IV

CC-VIII: MOLECULAR BIOLOGY

On completion of the course, students are able to

1. Know about Griffith's, Hershey and chase, avery, Mcleod and Mc Carty's experiment that is DNA as the carrier of genetic information.
2. Understand about the Genetic code and Central Dogma of life.
3. Understand about the DNA replication processes.
4. Know about the processes of Protein synthesis (Transcription and Translation).

CC-IX: PLANT ECOLOGY AND PHYTOGEOGRAPHY

On completion of the course, students are able to

1. Know about concept of different spheres of Space.
2. Know about study of soil profile.
3. Understand about model of Energy flow.
4. Understand about Phytogeographical Division of India.

CC-X: PLANT SYSTEMATICS

On completion of the course, students are able to

1. Study about plant identification, classification and Nomenclature.
2. Know about concept of Taxonomic Hierarchy.
3. Know about Phylogeny of Angiosperms.
4. Descriptive study about Magnoliaceae, Rosaceae, Poaceae, Orchidaceae.

CLASS: THIRD YEAR B.Sc. (CBCS PATTERN) SEMESTER –V

CC-XI: REPRODUCTIVE BIOLOGY OF ANGIOSPERM

On completion of the course, students are able to

1. Study about pollen biology.
2. Study about male and female gametophyte.
3. Know about pollination, fertilization, endosperm development and embryology.

CC-XII: PLANT PHYSIOLOGY

On completion of the course, students are able to

1. To know sugar translocation in phloem.
2. Understand about plant growth regulators.
3. Study about physiology of flowering and discovery of phytochrome.
4. Understand the importance of water relation in plant.
5. Evaluate the role of plant Nutrition their deficiency, symptoms and also know the mechanism of nutrition absorption and translocation

DSE-I: ANALYTICAL TECHNIQUES IN PLANT SCIENCE

On completion of the course, students are able to

1. Study about microscopy, centrifugation, spectrophotometer and radioisotope.
2. Study about data analysis, representation of data, chi-square test and t-test.

DSE-II: NATURAL RESOURCE MANAGEMENT

On completion of the course, students are able to

1. Study about natural resources and sustainable utilization.
2. Student understand about renewable and non-renewable energy resources.
3. Understand about resource accounting.

CLASS: THIRD YEAR B.Sc. (CBCS PATTERN) SEMESTER –VI

CC-XIII: PLANT METABOLISM

On completion of the course, students are able to

1. Understand the metabolic reaction in plant.
2. Analyze the role of Nitrogen and Lipid in plant and their metabolism.
3. Understand the carbon assimilation process of photosynthesis.
4. Know the Respiration process in plants.

CC-XIV: PLANT BIOTECHNOLOGY

On completion of the course, students are able to

1. Know about plant tissue culture.
2. Know about recombinant DNA technology, Gene construction and Genome construction.
3. Study about application of Bio-technology in agricultural field and SUPERBUG.

DSE-III: HORTICULTURE PRACTICES AND POST HARVEST TECHNOLOGY

On completion of the course, students are able to

1. Know about post-harvest technology of fruits and vegetables.
2. Know about documentation and conservation of germplasm.
3. Explore about tradition of gardening, irrigation method, hydroponics and propagation method.
4. Understand in about interesting idea about ornamental plants.

DSE-IV: PROJECTS AND RESOURCE WORK

On completion of the course, students develop basic understanding of preparation and presentation of different topic of small project related to the course.


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PRINCIPAL
KAMAMAYEE MAHILA MAHAVIDYALAYA
SERAMPUR (GM)
Principal