

MAHATMA GANDHI VIDYAMANDIR'S
MAHILARATNA PUSHPATAI HIRAY ARTS, SCIENCE AND COMMRC E MAHILA
MAHAVIDYALAYA, MALEGAON CAMP, DIST. MASHIK – MAHARASHTRA

Dept of Botany

Programme Outcome (PO) and Course Outcome(CO)

Programme Outcome(PO) B.Sc 2020-2021

PO1.	Understanding plant diversity and its importance in the maintenance of ecological balance.
PO2.	Students learn to carry out practical work, in the field in the laboratory, interpreting plant
PO3.	morphology and anatomy, plant identification, vegetation, analysis technique.
PO4.	Apply the knowledge of basic science, life science and fundamental process of plants. Apply modern techniques and instruments for biochemical estimation, Molecular Biology, biotechnology, plant tissue culture experiment, cellular and physiological studies of plants with and understanding of the application in human life
PO5.	Applied the knowledge gained from the studies for the upliftment of society via addressing health, environmental issues, food scarcity etc.
Program specific outcomes(PSO's) B.Sc.	
PSO1.	Understanding plant diversity and its importance in the maintenance of ecological balance.
PSO2.	Students learn to carry out practical work, in the field in the laboratory, interpreting plant
PSO3.	Students will be able to compare and contrast the characteristics of the different groups of plants
	such as Algae, fungi, bryophytes, pteridophytes, gymnosperms and angiosperms.
PSO4.	Students will be able to use the evidence of comparative Biology to explain how the theory of
	evolution offers the only scientific explanation for the Unity and Diversity of life on earth.
PSO5	Students will be able to explain how plants function at gene, genome, cellular and tissue level.
PSO6.	Students will be able to relate the physical features of the environment to the structure of Populations, communities and ecosystems.
PSO7	Students will be able to conceive the idea of artificial propagation of plants with two
F.Y.B.Sc Botany Course Outcome (CO's) F.Y.B.Sc 2019-2020	
Course 1(Plant Life Utilization I & II (Sem I & II)
	To understand the universal nature of science.
CO2-	To demonstrate the use of scientific method.
CO3-	To lay a strong foundation to the study in Botany.
CO4-	Impart an insight into the different types of classifications in the living kingdom.
CO5	- Appreciate the world of organisms and its course of evolution and diversity.

CO6	-Develop basic skills to study botany in detail.
F.Y.B.Sc Botany Course Outcome (CO's) F.Y.B.SC2019-2020	
Course II	Plant Morphology and Anatomy &Principals of Plant Sciences.(Sem I & II)
CO1	understand the world of microbes and lichens.
CO2	understand the world of microbes and lichens.
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CO1	to study the evolutionary importance of algae as progenitors of land plants.
CO2-	understand the unique and general features of algae.fungi and bryophytes and familizer it.
CO3	to study the external morphology internal structure and Reproduction of different types of IP and bryophyte.
CO4	Realize the application of Algae, Fungi and Bryophytes in different fields.
S.Y.B.Sc Botany Course Outcome (CO's) S.Y.B.SC2020--2021	
Course I	Angiosperm taxonomy and Plant Ecology Plant Anatomy & Embryology(Sem I&II)
CO1	Acquaint with the names of the tools and significance of taxonomy.
CO2	Identify the common species of plants growing in and their systematic position.
CO3	Develop Inductive and deductive reasoning ability.
CO4	Acquaint with the basic techniques in the preparation of herbarium.
CO5	Familiarizing with the plants are having immense economic importance.
Course II	Plant Physiology & Plant Biotechnology (Sem I&II)
CO1	Acquire restaurant with the significance of Environmental Sciences.
CO2	Anime with the basic skills and techniques related to plant physiology.
CO3	Understand the role and structure and importance of their conservation
CO4	Understand current development in the field of biotechnology.
CO5	Equip the students to carry out plant tissue culture.
CO6	Introduce the vast repositories of biological data knowledge.
CO7	Equip to access andanalyze thedata available in the databases
T.Y.B.Sc Botany Course Outcome (CO's) T.Y.B.SC 2015-2016 Sem I	
Course I	CryptogramIC Botany (Sem I)
CO1	Acquire fundamental knowledge in plant Sciences and to make the students to understand that botany is an integral part of the human life and developments.
CO2	Foster and encouragement and attitude of curiosity appreciation and enquiry of wireless life forms of plants
CO3	Acquire fundamental knowledge in plant Sciences and to make the students to understand that
CO4	Understand the diversity of plants with respect to algae and I like in a device and gymnosperms
CO1	Acquire fundamental knowledge in plant Sciences and to make the students to understand that botany is an integral part of the human life and developments.
Course II	Cell and Molecular Biology (Sem I)
CO1	Understand the ultrastructure and functioning of cell in the submicroscopic hand English level.
CO2	Get an idea of origin and support of continuity and complexity of life.

CO3	Familiarization of life process
CO4	Understand the basic and scientific aspects of diversity.
Course III	Genetics and Evolution (Sem I)
CO1	Imparting and insight into the principles of heredity.
CO2	Understand the patterns of inheritance in different organisms.
CO3	Understand inheritance pattern of nuclear and external clear genes.
Course IV	Spermatophyta and Paleobotany (Sem I)
CO1	Understand diversity in habits, habitats and Organisation of various groups of plants.
CO2	To Impart and insight into the modern classification in lower forms of the plants.
CO3	Understand the evolutionary trends in pteridophytes and gymnosperms.
CO4	study the Anatomical variations in vascular plants.
CO5	understand the significance of paleobotany and its applications.
Course V	Horticulture & Floriculture (Sem I)
CO1	Understand the importance of horticulture in human welfare.
CO2	Understand propagation and cultural practices of useful vegetables fruits and garden plants.
CO3	Understand impact of modern technologies in biology and horticultural plants.
CO4	Understand basic concepts of landscaping and garden designing.
CO5	Inculcate interest and landscaping gardening and flower and short culture.
Course VI	Computational Botany (Sem I)
CO1	To equip the students to conduct independent practicals.
CO2	To make the students acquaint with different Tools and techniques used in practicals.
CO3	To prescriptive students with basic computer skills necessary for conducting practicals.
CO4	-To enable the students to have enough numerical skills necessary to carried out practical .
	T.Y.B.Sc Botany Course Outcome (CO's) T.Y.B.SC 2015-2016 Sem II
Course I	Plant Physiology & Biochemistry
CO1	Acquire restaurant with the significance of Environmental Sciences.
CO2	Anime with the basic skills and techniques related to plant physiology.
CO3	Understand the role and structure and importance of their conservation
Course II	Plant Ecology & Biodiversity
CO1	Acquire restaurant with the significance of environmental Sciences.
CO2	Make the students aware about the extent of the total biodiversity and the importance of their Conservation.
CO3	Help destined to design novel mechanism for the sustainable utilisation of natural resources.
CO4	Enable the students to understand the structure and function of ecosystem.
CO5	Enable the students to understand various kinds of pollution in the environment their impact on
Course III	Plant Pathology (Sem II)
CO1	Acquire fundamental knowledge in plant Sciences and to make the students to understand that botany is an integral part of the human life and developments.
CO2	Foster and encouragement and attitude of curiosity appreciation and enquiry of

	wireless life forms of plants
CO3	Acquire fundamental knowledge in plant Sciences and to make the students to understand that
CO4	Understand the diversity of plants with respect to algae and I like in a device and gymnosperms
Course IV	Medicinal & Economic Botany (Sem II)
CO1	Acquaint with the names of the tools and significance of taxonomy.
CO2	Identify the common species of plants growing in and their systematic position.
CO3	Develop Inductive and deductive reasoning ability.
CO4	Understand the methods of Crop improvement .
Course V	Plant Biotechnology (Sem II)
CO1	Understand current development in the field of biotechnology.
CO2	Equip the students to carry out plant tissue culture.
CO3	Introduce the vast repositories of biological data knowledge.
CO4	Equip to access and analyze the data available in the databases
CO1	Understand current development in the field of biotechnology.
Course VI	Plant Breeding & Seed Technology (Sem II)
CO1	Acquaint the students with the scale and evolution of Crop plants and their diversity.
CO2	Familiarize as the students with the available client tentex wealth and the measures adopted for the conservation of these resources.
CO3	Help the student to identify the crop plants and their wild relatives.
CO4	Help this one to explore the potential to use of various number roll Roti lies plants to project as the future food pprospects
CO5	Understand the significance of modern technology to locate the distribution of endangered species.
Course	Angiosperm taxonomy and economic botany
CO1	Acquaint with the names of the tools and significance of taxonomy.
CO2	Identify the common species of plants growing in and their systematic position.
CO3	Develop Inductive and deductive reasoning ability.
CO4	Acquaint with the basic techniques in the preparation of herbarium.
CO5	Familiarizing with the plants are having immense economic importance.