



॥ विद्या विनयेन शोभते ॥

Janardan Bhagat Shikshan Prasarak Sanstha's

CHANGU KANA THAKUR

**ARTS, COMMERCE AND SCIENCE COLLEGE, NEW PANVEL
(AUTONOMOUS)**

Re-accredited 'A+' Grade by NAAC (3rd Cycle - CGPA 3.61)

'College with Potential for Excellence' Status Awarded by UGC

'Best College Award' by University of Mumbai

DEPARTMENT OF BOTANY

Course Outcomes

SEMESTER I

Class	F.Y.B. Sc.
Course (Paper) Name	Botany I (Plant Diversity and Cell biology)
Paper Code	USC1BO1
CO1	Differentiate between the different plant groups namely Algae and Bryophyta, as well as Fungi.
CO2	Understand Ecological significance and Economic importance of Algae, Fungi, Bryophytes
CO3	Identify various plant cell organelles, structure of DNA & RNA
CO4	Understand the Cell division -Mitosis and Meiosis

SEMESTER II

Class	F.Y.B. Sc.
Course (Paper) Name	Botany II (Plant Diversity and Anatomy)
Paper Code	USC2BO2
CO1	Differentiate between the different plant groups namely Pteridophyta, Gymnosperms and Angiosperm
CO2	Explain Ecological significance and Economic importance of Pteridophyta, Gymnosperms and Angiosperm
CO3	Understand the leaf morphology
CO4	Identify simple and complex tissue as well as primary structure of dicot. monocot root, stem and leaf



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Class	F.Y.B.A.
Course (Paper) Name	Plants in Health Care and Cosmetics-I
Paper Code	USC2PHCC2
CO1	Describe types of phytoconstituents, medicinal uses of plants from Grandma's pouch.
CO2	Explain concept and current scope of Nutraceuticals, Herbs and Dietary Supplements
CO3	Identify various plants in Grandma's pouch, and plants used as nutraceuticals
CO4	Differentiate between the different types of phytochemicals, nutraceuticals and dietary supplements

SEMESTER III

Class	S.Y.B. Sc.
Course (Paper) Name	Botany III (Plant Systematics and Genetics)
Paper Code	USC3BO3M
CO1	Describe the objectives and goals of plant systematics and plant nomenclature.
CO2	Explain the relationship of plant taxonomy with anatomy, palynology, chemical constituents, embryology, cytology, ecology, and external morphology.
CO3	Identify the vegetative and floral characters, as well as the economic importance of families
CO4	Differentiate between the families Apocynaceae, Malvaceae, Palmae, and Amaryllidaceae



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SEMESTER IV

Class	S.Y.B.Sc.
Course (Paper) Name	Botany IV (Plant Physiology and Palynology)
Paper Code	USC4BO4M
CO1	Describe the water relations in plants
CO2	Explain the processes involved in photosynthesis
CO3	Identify various aspects of palynology including pollen morphology, pollen viability and storage, and the germination and growth of pollen.
CO4	Differentiate the applications of palynology in various fields such as the honey industry, coal and oil exploration, aerobiology and pollen allergies, and forensic science.