

**Shri Vijaysinha Yadav Mahavidyalaya, Peth Vadgaon**  
**Department of Botany**  
**Programme Specific Outcome and Course Outcome**  
**on CBCS syllabus of Botany**

**Programme Specific Outcome**

Sr. No.	Programme Specific Outcome
PSO 1	Acquisition of knowledge of molecular biology, biotechnology and bioinformatics
PSO 2	Acquiring the basic procedure in the field of microbiology and plant pathology.
PSO 3	Awareness of natural resources and environment
PSO 4	Aptitude for scientific work & ability to pursue studies far beyond graduation
PSO 5	Life science as a career, which is the need now-a-day
PSO 6	Applications of scientific principles for organization of scientific exhibitions and competitions
PSO 7	Development of presentation skills and confidence in students
PSO 8	Skills based practicals and experiments & development of skill of handling of instruments and practical material
PSO 9	Enhancement the interests in the subject
PSO 10	Enhancement of scientific attitude, temper & hobbies
PSO 11	Abilities to apply scientific methods, collection of scientific data, problem solving methodology, Research Paper & project writing, etc
PSO 12	Contribution in scientific method & scientific programs

## Course Outcome

Sr. No.	Class	Theory Paper No.	Title of the Paper	Course Outcome
1	<b>B. Sc. I</b>	DSC 13 A. I	Biodiversity of Microbes, Algae and Fungi	CO1. Aptitude for identification of microbes, algae & fungi CO2. Acquisition of knowledge of ultra structure & economic importance of above group
2		DSC 14 A. II	Biodiversity Of Archegoniate-Bryophytes, Pteridophytes and Gymnosperms.	CO1. Aptitude for identification of Archegoniates CO2. Acquisition of knowledge of ultra structure & economic importance of above group
3		DSC 13 B. III	Plant Ecology	CO1. Acquisition of knowledge of evolution radiations CO2. Acquisition of knowledge of succession of plant community and Ecosystem
4		DSC 14 B. IV	Plant Taxonomy	CO1. Acquisition of knowledge of Plant nomenclature by ICBN. Ex situ conservation of plants via Botanical Gardens CO2. To follow the accepted system of classification of Angiosperm
		<b>Practical</b>		Acquisition of practical knowledge increases skills and working ability of students to perform experiments on plants.
5	<b>B. Sc. II</b>	DSC 13 C. V	Embryology of Angiosperms	CO1. Acquisition of knowledge of pollination biology and plant insect relationship CO2. Aware about embryology of Angiosperm
6		DSC 14 C. VI	Plant Physiology	CO1. To know the plant water relationship and role of minerals as a nutrition in plants CO1. Acquisition of knowledge of carbon reduction pathways and significance of photosynthesis CO1. Acquiring knowledge of plant growth regulators and their practical application

7		DSC 13 D. VII	Plant Anatomy	CO1. Acquiring basic knowledge of tissue system in higher plants CO2. Acquiring the knowledge of different tissues and their role in higher plants. CO3. Acquiring the knowledge of adaptive radiation in tissue system
8		DSC 14 D. VIII	Plant Metabolism	CO1. Acquiring the through knowledge of enzymes. CO2. Acquiring the knowledge of mechanism of enzyme action, structure and properties of enzymes. CO3. Role of Nitrogen in plant metabolism CO4. Role of respiration CO5. Acquiring the knowledge of breaking seed dormancy
		<b>Practical</b>		Acquisition of practical knowledge increases skills and working ability of students to perform experiments on plants.
9	<b>B. Sc. III</b>	DSC- E 25. IX	Genetics and Plant Breeding	CO1. Acquiring the knowledge of genetics and methods of breeding techniques in crop plants
10		DSC- E 26 X	Microbiology, Plant pathology and Mushroom Culture Technology	CO1. Acquiring the basic procedure in the field of microbiology and plant pathology. CO2. Acquiring technology of mushroom cultivation
11		DSC-E 27 XI	Cytology and Research Techniques in Biology	CO1. Acquiring knowledge of cell biology CO2. Ability to handle various instruments in biological research such as SEM, Spectrometer, micrometer
12		DSC- E 28 XII	Horticulture and Gardening	CO1. To develop the skills in horticulture including nursery, landscaping, gardening, floriculture CO2. Students will be able to demonstrate their knowledge, skills and attributes in horticultural profession.
13		DSC- F25 XIII	Plant Biochemistry and molecular Biology	CO1. Students are acquainted with basic as well as recent knowledge in the field of molecular biology
14		DSC- F 26 XIV	Bioinformatics, Biostatistics and Economic Botany	CO1. Acquisition of knowledge of bioinformatics, biostatistics and economic botany CO2. Students are aware about spices, beverages and fibers, cereals, legumes and

				oils
15	DSC- F 27 XV	Plant Biotechnology and Paleobotany		CO1. Acquisition of knowledge of plant biotechnology, protoplast culture and recombinant DNA technology (research methodology) CO2. Acquainted the scope of Paleobotany in the present scenario and understand the fossil genera.
16	DSC- F 28 XVI	Bio fertilizers and Herbal Drug Technology		CO1. Acquisition of basic knowledge of biofertilizers, herbal drug technology CO2. Student become familiar with organic manures, herbal medicines, herbal cosmetology and pharmacognocny
	<b>Practical</b>			Acquisition of practical knowledge increases skills and working ability of students to perform experiments on plants.