



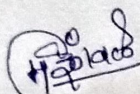
Janata Shikshan Sanstha's
Kisan Veer Mahavidyalaya, Wai
Department of Botany



COs for First Year UG
Academic Year 2024-25
Revised as per NEP 2.0

Course Title	Course Outcomes
Botany Paper: DSC- I: Phycology and Microbiology	<ol style="list-style-type: none">1. Students will able to recognize the structure types and multiplication of viruses.2. Students will able to understand the bacterial types, structure and mode reproduction3. Students will able to identify the different types of algae and their importance in day today life.4. Students will able develop the skills for the production of different type of Bio fertilizers
Botany Paper: DSC- II : Biomolecules and Cell Biology	<ol style="list-style-type: none">1. Students will able to distinguish the prokaryotic and eukaryotic organisms and acquire the knowledge of different plant cell organelles and its role in the plant body.2. Students will able to understand the different types of cell division and it's phases.3. Students will able to handle all types of microscope.4. Students will able to develop a skill in the chromatography techniques.
Botany Paper: DSC- III : Mycology and Phytopathology	<ol style="list-style-type: none">1 Students will able to identify and classify the different fungi and also realize the economic importance of fungi.2. Students will able to identify the lichens on the basis of morphology and to know the medicinal value of the lichens.3. Students will be able to recognize the different plant diseases and their management.4. Students will able to develops the soft skill technique in the Mushroom Cultivation and realize the commercial status of the mushrooms.
Botany Paper: DSC- IV: Archegoniate	<ol style="list-style-type: none">1. Students will able to identify the bryophytes their importance.2. Students will be able to recognize the characters and ecological importance of pteridophytes.3. Students will be able to identify, classify the

	gymnosperms and understand the Economic importance of gymnosperms.
OPEN ELECTIVE - I: BIOFERTILIZERS AND MANURES Paper-I (Open Elective for faculty other than Commerce and Management)	<ol style="list-style-type: none"> 1. Students will be able to identify the various types of biofertilizers and their importance. 2. Students will be able to develop the skills for the production of different type of bio fertilizers.
OPEN ELECTIVE - II: GARDENING TECHNIQUE (Open Elective for faculty other than Commerce and Management)	<ol style="list-style-type: none"> 1. Students will be able to know opportunities, necessity and importance about garden techniques. 2. Students will be able to know technique of development of various types of garden.



Head

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Principal

Kisan Veer Mahavidyalaya, Wai

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M.S. 412 803. (INDIA)



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Kisan Veer Mahavidyalaya, Wai
Department of Botany



COs for Second Year UG
Academic Year 2023-24
Revised as per NEP 1.0

Course Title	Course Outcomes
Botany Paper V: DSC C13: PLANT SYSTEMATICS AND ANATOMY	<ol style="list-style-type: none">1. To know the scope and importance of the plant systematics.2. To understand plant morphology, nomenclature and classification3. To prepare and demonstrate herbarium and to understand importance of Botanical gardens.4. To examine internal organization of plant organs.5. To differentiate and understand plant tissue systems.6. To analyze the composition of different parts of plant.
Botany Paper VI: DSC C14: GENETICS AND MOLECULAR BIOLOGY	<ol style="list-style-type: none">1. To understand the principles of Mendelian inheritance and gene interaction.2. To differentiate between structural and numerical variations in chromosomes.3. To analyze and solve genetic problems on linkage and crossing over.4. To know the composition and significance of nucleic acids.5. To summarize concept of central dogma and genetic code.

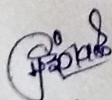


**Botany Paper VII: DSC D13:
PLANT ECOLOGY AND
ECONOMIC BOTANY**

1. To understand core concepts of biotic and abiotic components.
2. To gain and insight in to the diverse ecosystem, related food web and ecological pyramids.
3. To prepare map of Phytogeographical regions of India.
4. Know importance of plants and plant products and their utility.
5. To know the centre of origins of different crop plants.
6. To understand importance and conservation of Germplasm.

**Botany Paper VIII: DSC D14:
PLANT PHYSIOLOGY,
NURSERY AND GARDENING
TECHNIQUES**

1. To understand various physiological processes in plants.
2. To understand significance and mechanism of photosynthesis.
3. To know the process of respiration in higher plants.
4. To design outlines of landscaping and home gardening.
5. To propagate plants by seed and vegetative propagation.
6. To prepare different types of gardens and to know garden equipments.

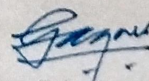


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COs for Third Year UG
Academic Year 2024-25
Revised as per NEP 1.0

Course Title	Course Outcomes
PAPER IX: DSE-E 25 REPRODUCTIVE BIOLOGY OF ANGIOSPERMS	1. Students will able to Recognize morphology of reproductive organs and development in the reproduction of angiosperms.
PAPER X: DSE-E 26 PLANT METABOLISM AND STRESS BIOLOGY	1. Students will be able to explain the various stress factors in the plants and also to effects of stress factors on the plant and to overcome these factors.
PAPER XI: DSE-E 27 PLANT BIOTECHNOLOGY	1. Students will be able to identify the natural resources in the Western Ghats, India. Also, student will understand the recent biotechnological advances in the biology.
PAPER XII: DSE-E 28 HORTICULTURE	1. Student will be able to develop various skill in horticulture techniques.
PAPER XIII: DSE-F 25 PLANT BIOCHEMISTRY AND RESEARCH METHODOLOGY	1. Students will be able to understand the methods to present a scientific research paper.
PAPER XIV: DSE-F 26 NATURAL RESOURCE MANAGEMENT AND HERBAL TECHNOLOGY	1. Students will be able to explain the skills of bio-fertilizer production, herbal preparations, breeding techniques and different analytical techniques used in the plant science.
PAPER XV: DSE-F 27 PLANT DIVERSITY AND ETHNOBOTANY	1. Students will able to identify the plants
PAPER XVI: DSE-F 28 PLANT BREEDING, BIOINFORMATICS AND BIOSTATISTICS	1. Students will be able to explain the skills of bio-fertilizer production, herbal preparations, breeding techniques and different analytical techniques used in the plant science.

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