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"ज्ञान, विद्यानं प्रति दुर्लभतमं वांछनीयं शिक्षणं प्रदातुं"
 -विश्वनाथदास जी. बापूजी सलुंके

ESTD June 1964
 AICTE Code: G-11059
 DTE Code: 16125

Shri Swami Vivekanand Shikshan Sanstha's
VIVEKANAND COLLEGE, KOLHAPUR
 (AN EMPOWERED AUTONOMOUS INSTITUTE)
 2130, 'E' Tarabai Park, Kolhapur, Tal. Karveer, Dist. Kolhapur -416003
 Affiliated to Shivaji University, Kolhapur (M.S.)
 NAAC Reaccredited : "A+" (CGPA3.29)
 College with Potential for Excellence by U.G.C., New Delhi
 "Star College" by D.B.T Govt. of India
 ISO 9001 : 2015

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 Life Member, Member Management Body
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DEPARTMENT OF BOTANY
COURSE OUTCOMES
BASED UPON NEP 1.0

B. Sc. Part – I Semester -I

DSC-I: DSC03BOT11: Basic in Botany

Course Outcomes	After the completion of the course the student will be able to:
CO1	Develop basic skills to study botany in details.
CO2	Understand unique and general features of algae, fungi, bryophytes, pteridophytes and gymnosperm.
CO3	Understand the diversity of plants with respect to algae, fungi, bryophytes, pteridophytes and gymnosperm.
CO4	Acquaint the knowledge regarding importance of plants.

B. Sc. Part – I Semester -I

DSC-II: DSC03BOT12: Plant Morphology.

Course Outcomes:	After the completion of the course the student will be able to:
CO1	Understand general organization of plant body
CO2	Acquire basic knowledge required for Understanding plant functioning.
CO3	Get and insight into be the fruit and seed development
CO4	Understand the morphology and development of different plant parts



B. Sc. Part – I Semester -II

DSC-III: DSC03BOT21: Reproductive Botany

Course Outcomes: After the completion of the course the student will be able to:

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| CO1 | Understand reproduction of plants. |
| CO2 | Impart basic Knowledge of pollination and fertilization in plants. |
| CO3 | Understand the development of reproductive parts. |
| CO4 | Get and insight into be the fruit and seed development. |

B. Sc. Part – I Semester -II

DSC-IV: DSC03BOT22: Diversity and Conservation of Plants

Course Outcomes: After the completion of the course the student will be able to:

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| CO1 | Understand outline of different classification system. |
| CO2 | Classify the groups and the different the taxonomic forms. |
| CO3 | Generate interest among the students about plant conservation. |
| CO4 | Make the student aware about the extent of the total biodiversity and the importance of their Conservation. |

B.Sc. II Semester: III

DSC-V: DSC03BOT31: Diversity of Cryptogams

Course Outcomes After the completion of the course the student will be able to:

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| CO1 | Provide a foundational understanding of several plant groups. |
| CO2 | Enhance consciousness about the diversity seen in lower plant groups. |
| CO3 | Disseminate information about how lower plant groups reproduce. |
| CO4 | Describe the characteristics and groupings of lower cryptogams. |

B.Sc. II Semester: III

DSC-VI: DSC03BOT32: Diversity of Phanerogams

After the completion of the course the student will be able to:

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| CO1 | Introduce pupils to the fundamentals of diversity of phanerogams. |
| CO2 | Convey concepts on lower phanerogams. |
| CO3 | Identify various plant forms according to their distinct groups using distinguishing characteristics along with examples. |
| CO4 | Determine each group's life cycle pattern. |



B.Sc. II Semester: IV	
DSC –VII: DSC03BOT41: Resource Botany	
Course Outcomes	After the completion of the course the student will be able to:
CO1	Identification, extraction, and use of plants with economic significance.
CO2	Impart the knowledge of the role of plants in human welfare.
CO3	Update the students about plant dependent industries.
CO4	Encourage students to think about entrepreneurship and start-ups.
B.Sc. II Semester: IV	
DSC –VIII: DSC03BOT42: Industrial Botany	
Course Outcomes	After the completion of the course the student will be able to:
CO1	Acquire knowledge of different plant species and the components that are employed in industry.
CO2	Acquire an understanding procedures that are used to turn raw materials into finished goods.
CO3	Get knowledge about various sectors and products that are derived from plants and their components.
CO4	Highlight the potential of these studies to become an entrepreneur.
B.Sc. III Semester: V	
DSC-IX: DSC03BOT51: Mycology and Plant Pathology	
Course Outcomes	After the completion of the course the student will be able to:
CO1	Know the concept of mycology and plant pathology.
CO2	Understand the classification of fungi and plant diseases.
CO3	Study of different fungal diseases.
CO4	Understand virus, viroid, mycoplasma and lichen.
B.Sc. III Semester: V	
DSC-X: DSC03BOT52: Plant Ecology	
Course Outcomes	After the completion of the course the student will be able to:
CO1	Understand the basic concept of ecology.
CO2	Know the basic components of ecosystem.
CO3	Know the mechanism of succession.



CO4	Understand the concept of Phosphorus and Nitrogen cycle.
DSC- XI: DSC03BOT53: Plant Anatomy	
Course Outcomes	After the completion of the course the student will be able to:
CO1	CO1: Understand the organization of higher plant body.
CO2	CO2: Know the tissue and tissue system of plants.
CO3	CO3: Study of primary and secondary structure of plant body.
CO4	CO4: Study of different types of plant adaptations.
B.Sc. III Semester: V	
DSE-I: DSE03BOT51: Plant Physiology and Metabolism	
Course Outcomes	After the completion of the course the student will be able to:
CO1	Know the plant water relationship.
CO2	Understand the concept of photosynthesis and respiration.
CO3	Know the role of minerals in plant growth.
CO4	Understand the properties and classification of carbohydrates and protein.
B.Sc. III Semester: V	
DSE-I: DSE03BOT51: Agri Based Micrpenterprises	
Course Outcomes	After the completion of the course the student will be able to:
CO1	Impart knowledge of the sustainable agriculture and organic farming.
CO2	Acquaint the knowledge of biopesticides.
CO3	Know the environment in which the agribusiness is conducted.
CO4	Impart knowledge of recent trends and advances in agriculture.
B.Sc. III Semester: VI	
VSC-PR-V: VSC03BOT59: Hydroponics	
Course Outcomes	After the completion of the course the student will be able to:
CO1	Know the technique of hydroponics.
CO2	Know the uses of different media for hydroponics.
CO3	Establish unit of hydroponics.
CO4	Study of different plants used in hydroponics.
B.Sc. III Semester: VI	
DSC-XII: DSC03BOT61: Fundamentals of Plant Taxonomy	



Course Outcomes	After the completion of the course the student will be able to:
CO1	Know the concept of taxonomy and nomenclature.
CO2	Understand the natural, artificial and phylogenetic classification systems.
CO3	Understand the importance of herbarium and botanical gardens.
CO4	Understand the characters of economically important families of angiosperms.

B.Sc. III Semester: VI

DSC-XIII: DSC03BOT62: Cytology and Genetics

Course Outcomes	After the completion of the course the student will be able to:
CO1	Know the details of cell and its structure.
CO2	Understand Mendelian genetics and basic laws of inheritance.
CO3	Understand the phenomenon of multiple allelism.
CO4	Know the mechanism of linkage and crossing over and its significance.

B.Sc. – Part – III – Botany Semester – VI

DSC-XIV: DSC03BOT63: Molecular Biology and Biotechnology

Course Outcomes:	After the completion of the course the student will be able to:
CO1	Know the scope and importance of molecular biology.
CO2	Gain knowledge about the mechanism and essential component required for the DNA replication.
CO3	Know the fundamentals of recombinant DNA technology.
CO4	Gain the knowledge of genetic engineering.

B.Sc. – Part – III – Botany Semester – VI

DSE-II: DSE03BOT61: Research Technique in Botany

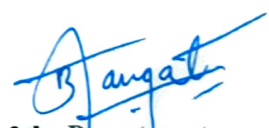
Course Outcomes:	After the completion of the course the student will be able to:
CO1	Understand the concept of research.
CO2	Know the different research institutes related to botany.
CO3	Understand the different biochemical techniques.
CO4	Understand the ethical and legal issues of research.

B.Sc. – Part – III – Botany Semester – VI

DSE-II: DSE03BOT61: Herbal Technology



Course Outcomes	After the completion of the course the student will be able to:
C01	Acquaint the knowledge regarding selection and processing of herbal drugs as raw material for herbal drug preparation.
C02	Acquaint the basic knowledge and importance of Pharmacognosy.
C03	Gain the knowledge of various phytochemicals.
C04	Familiarize the students with various types of drug adulterations


Head of the Department
HEAD
 Department of Botany
 Vivekanand College, Kolhapur
 (An Empowered Autonomous Institute)

