Vivekanand College, Kolhapur (An Empowered Autonomous Institute)

Department of Botany

B.Sc. II Botany (2025-26) NEP Phase- II

Content with Cross-cutting Issues

Sr. No.	Name of the Course	Course Code	Year of Introduction	Professional Ethics	Gender	Human Values	Environment and Sustainability	Sustainable Development Goals	NEP – 2020 (truth (satya), righteous conduct (dharma), peace (shanti), love (prem), nonviolence (ahimsa), scientific temper, citizenship values, life-skills; lessons in seva/service and participation in community service education)
B.Sc. II Botany (Newly Introduced between 2025-26)									
1.	Diversity of Cryptogams	2DSC03BOT31	2025-26				Environment and Sustainability		

2.	Diversity of Phanerogams	2DSC03BOT32	2025-26				Environment and Sustainability		
3.	Plant Biotechnology and Molecular Biology	2MIN03BOT31	2025-26				Environment and Sustainability		
4.	Plant Taxonomy	2MIN03BOT32	2025-26				IUCN status RET		
5.	Resource Botany	2DSC03BOT41	2025-26				Environment and Sustainability		
6.	Industrial Botany	2DSC03BOT42	2025-26				Environment and Sustainability		
7.	Plant Tissue Culture	2MIN03BOT41	2025-26				Sustainability		
8.	Commercial Botany	2MIN03BOT42	2025-26				Sustainability		

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Curricular Relevance – Course Outcomes with Relevance to Local, Regional, Global needs

Sr. No.	Name of the Course	Course Code	Year of Introduction	Cos with relevance to local/regional needs	Cos with relevance to national needs	Cos with relevance to global needs
B.Sc. II Botany (Newly Introduced between 2025-26) Semester - III & IV						
1.	Diversity of Cryptogams	2DSC03BOT31	2025-26	CO2: Enhance consciousness about the diversity seen in lower plant groups.	CO4: Describe the characteristics and groupings of lower cryptogams.	
2.	Diversity of Phanerogams	2DSC03BOT32	2025-26	CO3: Identify various plant forms according to their distinct groups using distinguishing characteristics along with examples.	CO3: Identify various plant forms according to their distinct groups using distinguishing characteristics along with examples.	
3.	Plant Biotechnology and Molecular Biology	2MIN03BOT31	2025-26	CO1: Know the scope and importance of molecular biology. CO4: Gain the knowledge of genetic engineering.	CO1: Know the scope and importance of molecular biology. CO4: Gain the knowledge of genetic engineering.	CO1: Know the scope and importance of molecular biology. CO4: Gain the knowledge of genetic engineering.
4.	Plant Taxonomy	2MIN03BOT32	2025-26	CO1: Expose the student to the basic principles and methods of plant taxonomy.	CO3: Explain the ICN and ICBN in terms of their guiding concepts	CO3: Explain the ICN and ICBN in terms of their guiding concepts

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				CO2: Recognize the different facts of plant classification and nomenclature.	and regulations. CO4: Develop an appreciation of the scientific an appreciation of the scientific and aesthetic values of plants in students mind.	and regulations. CO4: Develop an appreciation of the scientific an appreciation of the scientific and aesthetic values of plants in students mind.
5.	Resource Botany	2DSC03BOT41	2025-26	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.	CO3: Update the students about plant dependent industries. CO4: Encourage students to think about entrepreneurship and start-ups.
6.	Industrial Botany	2DSC03BOT42	2025-26	CO3: Update the students about plant dependent industries. CO4: Encourage students to think about entrepreneurship and start-ups.	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.	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.
7.	Plant Tissue Culture	2MIN03BOT41		CO1: Acquire knowledge of plant tissue culture.	CO1: Acquire knowledge of plant tissue culture.	CO1: Acquire knowledge of plant tissue culture.

				CO4: Highlight the potential of these studies to become entrepreneur.	CO4: Highlight the potential of these studies to become entrepreneur.	CO4: Highlight the potential of these studies to become entrepreneur.
8.	Commercial Botany	2MIN03BOT42	2025-26	CO1: Know about the commercial products produced from algae, fungi, bryophytes and pteridophytes. CO2: Learn about the chemistry of plants and its commercial products.	CO3: Gain knowledge about developing commercial enterprise of microbial products. CO4: Understand the role of higher plants in our society and how they can be used for more applied aspects.	CO3: Gain knowledge about developing commercial enterprise of microbial products. CO4: Understand the role of higher plants in our society and how they can be used for more applied aspects.

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Content with Focus on Employability, Entrepreneurship, Skill Development

Sr. No.	Name of the Course	Course Code	Year of Introduction	Content with focus on employability	Content with focus on entrepreneurship	Content with focus on skill development
B.Sc. II Botany (Newly Introduced between 2025-26)						
1	Diversity of Cryptogams	2DSC03BOT31	2025-26			Develop basic skills to study different cryptogams.
2	Diversity of Phanerogams	2DSC03BOT32	2025-26			Apply their knowledge to identify phanerogams.
3	Plant Biotechnology and Molecular Biology	2MIN03BOT31	2025-26			Apply their knowledge to identify flowering plants.
4	Plant Taxonomy	2MIN03BOT32	2025-26			Apply their knowledge to identify flowering plants.
5	Resource Botany	2DSC03BOT41	2025-26	Apply basic knowledge for production of different plant products.		Apply their knowledge for Identification, extraction, and use of plants with economic significance.

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6	Industrial Botany	2DSC03BOT42	2025-26	Apply basic knowledge for production of different products that are derived from plants and their components.	Apply these studies to become an entrepreneur.	Apply their knowledge to turn raw materials into finished goods.
7	Plant Tissue Culture	2MIN03BOT41	2025-26			Apply their knowledge to develop tissue culture laboratory.
8	Commercial Botany	2MIN03BOT42	2025-26	Apply their knowledge about developing commercial enterprise of microbial products.		Apply their knowledge to produce different commercial products.

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