



---



"Education for Knowledge, Science, and Culture"  
- Shikshanmaharshi Dr. Bapuji Salunkhe

**Shri Swami Vivekanand Shikshan Sanstha's**  
**Vivekanand College, Kolhapur**  
**(Autonomous)**



KOLHAPUR (AUTONOMOUS)

## Department of Botany

# Syllabus Completion Report

**2018-2019**

---

Syllabus completion Report 2018-2019

Department of Botany



Shri Swami Vivekanand Shikshan Sanstha's  
**VIVEKANAND COLLEGE, KOLHAPUR. (AUTONOMOUS)**

**Department of Botany**

**Syllabus Completion Report  
(2018-2019)**

**INDEX**

Sr. No.	Name of Faculty	Page No.
1.	Mr. S. A. Patil	01-03
2.	Mr. S. B. Kubal	04-05
3.	Mr. S. P. Salokhe	06-07
4.	Dr. A. R. Kasarkar	08-09
5.	Miss. S. S. Wadkar	10-15
6.	Miss. J. M. Gorule	16-19
7.	Miss. C. M. Dalvi	20-21
8.	Dr. A. R. Alvikar	22-25
9.	Miss. U. H. Godase	26-27



*[Signature]*  
Head

**Department of Botany**

Department of Botany  
Vivekanand College  
Kolhapur

*[Signature]*

**PRINCIPAL**  
Vivekanand College  
Kolhapur



# VIVEKANAND COLLEGE, KOLHAPUR

STATEMENT OF SYLLABUS COVERED

Year: 2018-2019


Term: I / II

Name of the Teacher: S. A. Patil

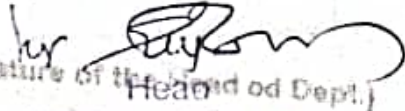
Department: Botany

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
B.Sc.I	Botany	Ecological factors & plant communities	Introduction & Ecological factors, Edaphic factors - Climatic factors - Ecological adaptations & Soil pollution.		All syllabus covered
B.Sc.I	Botany	pteridophytes.	General char-s Selaginella - Morphology Anatomy & life cycle & Cyces.		All syllabus covered.

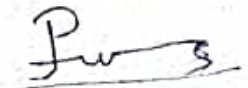


  
 Head  
 Department of Botany  
 Vivekanand College  
 Kolhapur

		(2)			
Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
B.Sc. III	Botany	Variation in chromosome number and structure Variation in chromosome Euploidy, Aneuploidy, Deletion, Duplication, Translocation, Mutation, Chemical significance	All syllabus covered.		

  
(Signature of the Head of Dept.)  
Head  
Department of Botany  
Vivekanand College  
Kolhapur



  
(Signature of the Teacher)

# VIVEKANAND COLLEGE, KOLHAPUR.

## STATEMENT OF SYLLABUS COVERED

Year : 2018 - 2019

Term : I / II<sup>nd</sup>

Name of the Teacher : S. A. Pahl

Department : Botany

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
B.Sc. III	Botany	Biostatistics collection, Preservation, Central Tendency, Mean, Mode, Median, Standard deviation, Test of Significance	All syllabus covered		

Pw



Head

Department of Botany  
Vivekanand College  
Kolhapur

VIVEKANAND COLLEGE, KOLHAPUR.  
STATEMENT OF SYLLABUS COVERED

Year : 2018-2019


Term : I<sup>st</sup> / I<sup>st</sup>

Name of the Teacher : S. B. Kubal

Department : Botany

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
B.Sc-I	Botany	Bryophytes & Pteridophytes - Bryophytes -	General char.s. Adaptations, Classification, Economic Imp. Morphology, Riccia, Anthoceros	} All syllabus Covered.	
B.Sc-II	Botany	Gymnosperms	- study of life cycle, - Taxonomic posit <sup>n</sup> . - Anatomy & Reproduction - Pine		



  
 Head  
 Department of Botany  
 Vivekanand College  
 Kolhapur

VIVEKANAND COLLEGE, KOLHAPUR.  
STATEMENT OF SYLLABUS COVERED

Year : 2018 - 20 19

Term I / II<sup>nd</sup>

Name of the Teacher : S. B. Kubal

Department : Botany

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
B.Sc. III	Botany	Plant Improvement	<ul style="list-style-type: none"> <li>- Aims &amp; objectives</li> <li>- Selection method</li> <li>- Hybrid Vigour</li> <li>- Hybridisation technique &amp; Male sterility</li> </ul>	} All syllabus covered	
		Analytical Technique in plant sciences	<ul style="list-style-type: none"> <li>Microscopy</li> <li>TAM &amp; SEM</li> <li>Chromatography</li> <li>Micrometry</li> </ul>		} All syllabus covered.



Head  
Department of Botany  
Vivekanand College  
Kolhapur

# VIVEKANAND COLLEGE, KOLLIAPUR.

## STATEMENT OF SYLLABUS COVERED

Year : 2018 - 2019

Term : I<sup>st</sup> / II<sup>nd</sup>

Name of the Teacher : Mr. S. P. Sathya

Department : Botany

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not In Covered	Remarks
B.Sc. I.	Botany.	Unit 2b - Fungi	Unit 2.b. Fungi Practical - Study of Bacteria, Study of Nostoc.		
B.Sc. II	Botany	Unit 2. Fungi	Study of Penicillium, Puccinia. Practical - Algae, Fungi		
B.Sc. II	Plant Protection	Unit 1 - Introduction of Plant Protection and study of Crops.	Unit - 1. Importance of Plant Protection. Practical - Dicot woods		
B.Sc. III	Botany.	Unit 2 - Fungi	Unit 2 - Occurrence. Practical - Oscillatoria, Padiam.		





Term II<sup>nd</sup>

(2)

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
BSc-I	Botany	Unit 1. Ecological Factors	Unit 1- Introduction, Defn Practical- Bryophyte, Pteridophyte		
B.Sc-II	Botany	Unit 1- Pteridophyte.	Unit 1- Taxonomic position occurrence. Practical- Angiospermic families		
B.Sc II	Plant Pathology	Unit 2- Study of insect pests.	Unit 2-1 Scientific name. Identification. Practical- Jaccar, Sugarcane		
BSc-III	Botany	Unit 3- Angiosperm	Unit 3- Phylogeny of Angiosperm Practical- Study of fossil,		

(Signature of the Head  
Department of Botany  
Vivekanand College  
Kolhapur



(Signature of the Teacher)

# VIVEKANAND COLLEGE, KOLHAPUR.

## STATEMENT OF SYLLABUS COVERED

Year : 2018 - 2019

Term : I<sup>st</sup> / II<sup>nd</sup>

Name of the Teacher : Dr. Abhijeet R. Kasarkar

Department : Botany

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
B.Sc I	Botany	Unit 2a - Algae Practical -	Unit 2a - Algae Practical - Study of Bacteria, Nostoc, Fungi, Bryophytes.	- -	
B.Sc II	Botany	Unit 4 - Horticulture	Horticulture		
B.Sc II	Plant Protection	Unit 3 - Methods of Weed Management Practical - I	Unit 3 - Methods of Weed management Practical - I) study of Coops & study of Diseases.		
B.Sc III	Botany	Unit 1 - Algae Practical - II	Unit 1 - Algae Practical - II - Study of Plant - Families.		



Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Rema
B.Sc I	Botany	Unit 3 - Plant Taxonomy Practical - I	Unit 3 - Plant Taxonomy Practical - Study of Pteridophytes Study of Ecology, Taxonomy		
B.Sc II	Botany	Unit 3 - Angiosperms	Unit 3 - Angiosperms		
B.Sc II	Plant Protection	Unit 4 - Recent Trends in Pest Management Practical - I	Unit 4 - Recent Trends in Pest Management Practical - I - Study of Soil Fungi, Fungicides Micrometry, Soil pH and electrical		
B.Sc III	Botany	Unit 4 - Horticulture Practical - II	Unit 4 - Horticulture Practical - II D Study of Anatomy B Study of Physiology and Environmental Biology		

5

(Signature of the Head of Dept.)  
 Head  
 Department of Botany  
 Vivekanand College  
 Kolhapur



(Signature of the Teacher)  
 Vasobha

# STATEMENT OF SYLLABUS COVERED

Year : 2018 - 2019

Term : I<sup>st</sup> / 1<sup>st</sup> / 1<sup>st</sup>

Name of the Teacher : Miss. Snehal Sanjay Kladkar

Department : Botany

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Re
3. Sc. I	Botany	Paper: DSC 7A Section I - Unit 1: Microbes	1a. Virus: Discovery General characters, DNA virus, RNA Virus, Economic Importance 1b. Bacteroid: Discover General characters Cell structure, Types, Mode of reproduction, Economic Importance • Practicals	All syllabus covered	-
		Unit 4: Gymnosperms	4a. General characters,		



**STATEMENT OF SYLLABUS COVERED**

Year : 2018 - 2019


Term : I<sup>st</sup> / II<sup>nd</sup>

Name of the Teacher : Miss. Snehal Sanjay Wadkar

Department : Botany

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Re
		and classification • Protein biosynthesis in prokaryotes & eukaryotes, • Post translational modifications.	and classification • Protein biosynthesis in prokaryotes & eukaryotes • Post translational modifications.	All syllabus covered	
		Practical II			



  
 Head  
 Department of Botany  
 Vivekanand College  
 Kolhapur.

# STATEMENT OF SYLLABUS COVERED

Year : 2018 - 2019

Term : I / II<sup>nd</sup>

Name of the Teacher : Miss. Snehal Sanjay Wadkar

Department : Botany

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
B.Sc. I	Botany	Paper - Dsc-7 B Section - I Unit 2 : Ecosystem & Phytogeography	2a. Ecosystem - Introduction, Composition, Types food chain & web 2b. Biogeochemical cycles - Introduction Phosphorus and Nitrogen cycle. 2c. Phytogeographical regions of India Practical	All syllabus covered	
B.Sc-III	Botany	Paper - XIII Unit 1 : Pteridophytes	General account of Pteridophytes with reference to @ structure of gameto-		



(2)

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
			phytes ⑥ Alternation of generation ⑦ Stellar evolution • study of life cycle of Mosses	All syllabus covered	
		Paper - XIV Unit 2: Microbial Genetics	• Introduction • Bacterial Genome • DNA viruses • RNA viruses • Recombination in Bacteroid - Transformation Transduction conjugation Practical - II		

Signature of the Head of Dept.  
Department of Botany  
Vivekanand College  
Kolhapur



Signature of the Teacher

# VIVEKANAND COLLEGE, KOLHAPUR.

## STATEMENT OF SYLLABUS COVERED

Year : 2018 - 2019

Term : I<sup>st</sup>

Name of the Teacher : Dr. Jyoti M. Goshule

Department : Botany

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
B.Sc. II	Plant Protection	General methods of plant-protection	Cultural methods, Tillage, crop-rotation, trap crops, fertilizer application mechanical methods- field sanitation, hand picking, destruction of egg masses, light traps, use of sticky bands, bagging for the pests physical methods- Heat & soil solarization	—	—





Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
B.Sc. III	Botany	Lipid metabolism	Introduction & class <sup>n</sup> of lipids, properties of saturated & unsaturated fatty acids. $\beta$ -oxidation	-	
		Practical - III	All practicals covered	-	

*J. Mohd.*  
(Signature of the Head of Dept.)



*[Signature]*  
(Signature of Head Teacher)  
Department of Botany  
Vivekanand College  
Kolar.

# VIVEKANAND COLLEGE, KOLHAPUR.

## STATEMENT OF SYLLABUS COVERED

Year : 2018 - 2019

Term : II / ~~1~~

Name of the Teacher : Dr. Jyoti M. Gunde

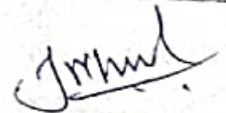
Department :

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
B.Sc. II	Plant Protection	Diseases caused by fungi	Rust of sugarcane Rust of soybean Rust of wheat Rust of cowpeas, Crown blight of cowpeas, Tikka disease of groundnut, b	—	
B.Sc. III	Botany	Recombinant DNA Technology	Intro <sup>n</sup> , principle, General method, enzymes involved in DNA Technology Cloning vectors, prokaryotic & Eukaryotic vectors	—	

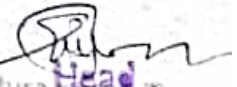


(2)

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	R
			Blotting techniques, PCR, C-DNA libraries	✓	
		Practical III	All practicals covered	✓	

  
(Signature of the Head of Dept.)



  
(Signature of the Head of Dept.)  
Department of Botany  
Vivekanand College  
Kolhapur

VIVEKANAND COLLEGE, KOLHAPUR  
STATEMENT OF SYLLABUS COVERED

Year: 2018-2019

Term: I<sup>st</sup> / II<sup>nd</sup>

Name of the Teacher: MISS. C. M. Dalavi

Department: \_\_\_\_\_

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
B.Sc. II	P.P.	Methods of Pest Management.	Cultural, Biological Legal Methods Crop Resistance	All syllabus covered.	
B.Sc. III	Botany	Population Ecology  Carbohydrates, Metabolism.	Concept, Density, Natality, Mortality, Biotic Abiotic factors. mono, Oligo, Polysaccharides.		All syllabus covered.



Term II.

(2)

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
B.Sc. II P.P.	B. Plant Protection	Study of Weeds	Euphorbia Amaranthus Alternanthera Cyperus Cynodon	All syllabus covered.	
B.Sc. III	Botany	Plant Pathology & Ecology  - Plant Pathology.	classification, Seed born, Soil, Air borne Prevention & Control measures.		All syllabus covered.
		Practical - II - III	-	All covered.	

C.M. Dalavi



(Signature of Head Teacher)  
 Head Teacher  
 Department of Botany  
 Vivekanand College  
 Kolhapur

# STATEMENT OF SYLLABUS COVERED

Year : 2018 - 2019

Term : I<sup>st</sup> / II<sup>nd</sup>

Name of the Teacher : Dr. A.R. Alhikar.

Department : Botany

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	F
B.sc.I	Botany	Practicals	Practicals	—	
B.sc.II	Botany	Section-II Unit-III Mineral Nutrition	Introduction, macronutrients and micronutrients, Passive and Active uptake Protein Leathian theory, Role and deficiency of macro and micro nutrients in plants.		



Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remark
B.Sc. III	Botany	Section-II Unit-IV Paleobotany	General account, types of fossils, Geological time scale, External morphology & affinities of <i>Lygonopteris</i> and <i>Endemicum</i> Application of Paleobotany, Role of microfossil in oil & coal exploration.		

(Signature of the Head of Dept.)

Head

Department of Botany  
Vivekanand College  
Kolhapur



(Signature of the Teacher)

STATEMENT OF SYLLABUS COVERED

Year: 2018-2019

Term: I / II<sup>nd</sup>

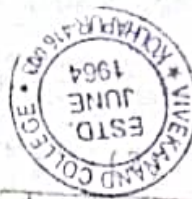
Name of the Teacher: Dr. A. P. Ahiker

Department: Botany


Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered
B.Sc-I	Botany	Section-I Unit - I Biological Factors and Plant Communities	Introduction and definition, Ecotypic factor, Climatic factor, Ecological adaptations - Xerophytes, hydrophytes Epiphytes and parasites.	
B.Sc-II	Botany	Section-I Unit - II Tissue and Tissue System	Meristem Introduction, Theories of Structure development, Apical Meristem Histogen, Tunica Corpus theory	

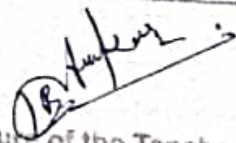






Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remark
B.Sc II	Botany	Permanent Tissue and Tissue System	Permanent Tissue Simple and Complex tissues & Tissue system.	—	
B.Sc III	Botany	Section-I Unit - I Genetic Material	Introduction, Nucleic acids (DNA, RNA) Griffith's and Avery's transformation experiment, Hershey Chase experiment. Types of DNA, DNA replication, Types of RNA.		

  
(Signature of the Head of Dept.)  
Head  
Department of Botany  
Vivekanand College  
Kolhapur

  
(Signature of the Teacher)

# VIVEKANAND COLLEGE, KOLHAPUR

## STATEMENT OF SYLLABUS COVERED

Year: 2018-2019

Term: I<sup>st</sup> / II<sup>nd</sup>

Name of the Teacher: Miss U. H. Godase

Department: Botany

Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
B.Sc. II	Botany	Industrial Applications	<ul style="list-style-type: none"> <li>- mushroom cultivation</li> <li>- N<sub>2</sub>-fixation</li> <li>- Commercial Importance,</li> <li>- Biofertilizers, Types</li> <li>- BGA Phosphate Solubilizing Biofertilizers</li> </ul>		All syllabus covered.
B.Sc. III	Botany	Paleobotany	<ul style="list-style-type: none"> <li>Types of fossils,</li> <li>CTS, <del>Ligninopteris</del></li> <li>Englemann,</li> <li>Applications</li> </ul>		All syllabus covered.

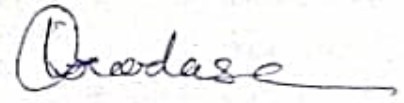


Class	Subject	Syllabus Assigned	Syllabus Covered	Syllabus Not to Covered	Remarks
B.Sc II	Botany	Nucleus & Ribosomes.	<ul style="list-style-type: none"> <li>- Ultrastructure DNA &amp; Histones</li> <li>- Subcellular str. &amp; cell membrane,</li> <li>- Golgi complex,</li> <li>- E-R. cell membrane</li> </ul>	All syllabus covered.	
B.Sc II	Botany	Microbiology.	<ul style="list-style-type: none"> <li>- staining, sterilization,</li> <li>- micro-organisms in biological world, Industrial Applications.</li> </ul>		All syllabus covered.



(Signature of the Head) **Head** Dept.,  
Department of Botany  
Vivekanand College  
Kolhapur





(Signature of the Teacher)