



Guru Vishwambharkrupa Bahauddeshiya Shikshan Prasarak Mandal Lakkadjawalga's

Shivneri Mahavidyalaya

(Arts, Commerce & Science)

Shirur Anantpal Dist. Latur



Yearly Teaching Plan Book

Year 2018 - 2019

Name of the teacher : DR. RAIBHOLE U. K.

Subject & Paper No. : BOTANY.



Guru Vishwambharkrupa Bahuuddeshiya Shikshan Prasarak Mandal Lakkadjawalga's

Shivneri Mahavidyalaya

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Yearly Teaching Plan Book

Year 2018 - 2019

Name of the teacher : DR. Raibhole U.K.

Subject & Paper No. : Botany. II, IV, VI, VIII, XII, XIV.

॥ आमचे प्रेरणास्थान ॥



मा. अॅड. विश्वंभररावजी माने

(अध्यक्ष, गुरु विश्वंभर कृपा बहुउद्देशीय शिक्षण प्रसारक मंडळ,
लक्कड जवळगा तथा

संचालक - लातूर जिल्हा मध्यवर्ती सहकारी बँक लि., लातूर)

Shivneri Mahavidyalaya, Shirur Anantpal

Name of the Teacher Dr. Raibhale U.K. Subject Botany

Time - Table 2018-19

Period	I	II	III	IV	V	VI	VII	VIII	IX	X	Practical	Practical
Time	9.15 to 10.10	10.05 to 10.10	10.10 to 11.00	11.00 to 11.50	11.50 to 12.40	12.40 to 1.30	1.30 to 2.20	2.20 to 3.10	3.10 to 4.00	4.00 to 4.50		
Monday	-	-	B.Sc. III XII, XIV	-	-	B.Sc. II VI, VIII	Prag.	V UKR	UKR Jus.			
Tuesday	-	-	- -	-	-	- -						
Wednesday	-	-	- -			- -	B.Sc. III Prag.	XVI UKR				
Thursday	B.Sc. III Sec.	-	-	-	B.Sc. I II, IV							
Friday	B.Sc. III Sec.	-	-	-	- -			B.Sc. II Prag.	V			
Saturday	- -	-	-	-	- -							

Shivneri Mahavidyalaya

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Name: Dr. Raibhole U.K.

Designation: Assistant Prof.

Qualification :

Degree	Subject	Board / University	Class/Grade
S.S.C.	General.	Pune	1st.
H.S.C.	Phy chem, Biology.	Pune	II nd .
U.G.	C.B.Z	Dr. BAPU Aur.	1st.
P.G.	Botany	Dr. BAMU Aur.	II nd .
M.Phil/Ph.D	Botany	Dr. BAPU, Aur.	-
Net / SET			

Date of Birth : 17/07/1975

Date of Appointment : 31 Dec. 2014 Date of Superannuation :

Local Address : Shivneri College Shivner A.

Phone / Mobile Numbers : 9049849903

Email : dr.49ethav.raibhole@gmail.com

Blood Group : O⁺

PAN Card Number : GPF A/c. Number :

..... PPF / A/c. Number :

Bank Account Number :

Yearly Teaching Plan

Class - B.Sc. Ist Subject - Botany Paper (No & Title) : II. Cellular Molecular Biology Signature: D.H.I

Sr. No.	Month	Details of Topics / Units	Plan Expected Duration		Remark
			Expected Periods	Actual Periods	
1	June	<p><u>Cell Biology</u>:-</p> <p>Introduction to cell Biology, Prokaryotic cell & eukaryotic cell. Ultra structure & function of Nucleus.</p>	10	12	
2	July	<p>Ultra structure & function of cell organelles.</p> <p><u>Unit: Cell Biology</u>:-</p> <p>Morphology of chromosome structure of chromosome chemical composition, euchromatin heterochrom functions of typical chromosome, karyotype & ideogram.</p>	11	10	

Yearly Teaching Plan

Class - B.Sc. F.Y. Subject - Botany Paper (No & Title) : II. Cell and Molecular Biology Signature: P. H. P.

Sr. No.	Month	Details of Topics / Units	Plan Expected Duration Expected Periods	Implementation Actual Periods	Remark
3	Aug	<p>Structure & functions of giant chromosome, cell division: cell cycle, process & significance of mitosis & meiosis, <u>Unit: III. Mol. Biology.</u> Introduction of Nucleic acid, chemical composition, structure of DNA, RNA.</p>	11	13	
4	Sep	<p><u>Unit: IV. Molecular Biology.</u> Gene concept: - fine structure of gene, Gene mutations, Spontaneous & induced gene mutations, Phage - Ketouria, Aikleptouria, Albinism, sickle cell anemia, Amniocentesis.</p>	11	10	

Yearly Teaching Plan

Class - B.Sc. I Subject - Genetics Paper (No & Title) : IV Genetic Crosses Signature : P. J. J.

Sr. No.	Month	Details of Topics / Units	Plan Expected Duration		Remark
			Expected Periods	Actual Periods	
7	Dec	Explanation & examples of Monohybrid cross. Dihybrid cross, Back cross & Test cross. Complementation of gene action (9:7), Supplementary gene action (9:3:4)			
8	Jan	Epistatic gene action, Duplicate gene action, (15:1) Sex chromosome Discovery Sex determination in Birds Animals, mammals & plants. Sex linkage inheritance in Drosophila, sex linkage in man Haemophilia, colour blindness Hypostichosis			

Yearly Teaching Plan

Class - Subject - Paper (No & Title) : Signature :

Sr. No.	Month	Details of Topics / Units	Plan Expected Duration Expected Periods	Implementation Actual Periods	Remarks
9	Feb	Chromosomal Aberration. Stemmed. Plant breeding. III Objective of plant breeding Mass-selection, pureline selection Hybridization, Heterosis.			
10	March	Plant Acclimatization. Mutation breeding Male sterility, Gynoplasmaic male sterility.			
11	April				

Yearly Teaching Plan

Class - B.S.C. II Subject - Botany Paper (No & Title) : VIII ~~Signature~~ Signature: P. K. S. D.
Chand Prakash Singh

Sr. No.	Month	Details of Topics / Units	Plan Expected Duration Expected Periods	Implamentation Actual Periods	Remark
1	June	<u>Unit - I. Morphology of Angiosp.</u> Root, Types of root, modification of root Leaf: Structure of leaf Types of leaf, Inflorescence, Morphology of flower, Placentation, fruit, Types of fruit.	11	12	
2	July	<u>Unit:- Taxonomy of Angiosp.</u> scope and objectives of Taxonomy, Binomial Nomen Taxonomic ranks, Classification of Salient feature of Bentham's Engler System with merits and demerits.	10		

Yearly Teaching Plan

Class - B.S.C. II Subject - Botany Paper (No & Title) : VI. Practical Paper Signature: [Signature]
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Sr. No.	Month	Details of Topics / Units	Plan Expected Duration	Implamentation	Remark
3	Aug	<u>Unit: - III. Study of Families.</u> Annonaceae Brassicaceae Malvaceae Meliaceae Caesalpiniaceae Fabaceae	10	Actual Periods	
4	Sep	<u>Unit: - IV. Study of Families</u> Asteraceae. Solanaceae Euphorbiaceae Lamiaceae Liliaceae Poaceae.	11	Actual Periods	

Yearly Teaching Plan

Class - B.S.C. III Subject - Botany Paper (No & Title) : VIII. Gymnosperms
 Date: 21/11/2023
 Signature: P. Jit

Sr. No.		Month	Details of Topics / Units	Plan Expected Duration	Implementation	Remark
				Expected Periods	Actual Periods	
7	Dec		<u>Unit I. Gymnosperms.</u> General character & classification of Gymnosperms. Morphology of Gymnosperm T.S. of stem, T.S. of leaf Reproductive structure Life cycle, Economic Impo.			
8	Jan		<u>Unit. II Pinus.</u> Morphology of pinus. Anatomy of stem. Anatomy of leaf Reproductive structure Life cycle. Economic Impo. of pinus.			

Yearly Teaching Plan

Class - Subject - Paper (No & Title) : Signature :

		Plan Expected Duration	Implementation	Remark
Sr. No.	Month	Details of Topics / Units	Expected Periods	Actual Periods
9	Feb	Unit - III - Gnetum. Morphology of Gnetum Stem - Leaf Reproductive structure Economic Imp.		
10	March	Unit - IV - pteridophytes. Process of plant fossilization Study of fossil - Ligniniferous stem, Bennettites - Flower General characters of Ginkgo.		
11	April			

Yearly Teaching Plan

Class - B.Sc. III Subject - Botany Paper (No & Title) : XII B.14.m Botany Signature: [Signature]

Sr. No.	Month	Details of Topics / Units - I	Plan Expected Duration		Remark
			Expected Periods	Actual Periods	
1	June	<p>Different bio-physico-chemical phenomenon.</p> <p>Permeability, osmosis, plasmolysis, imbibition</p> <p>Ascent sap:- Transpiration pull theory.</p> <p>Transpiration:- Types structure of stomata, mechanism plant movement.</p>	11	12	
2	July	<p>Unit:- <u>Mineral Nutrition</u>.</p> <p>Major and minor elements, mineral salt absorption, Ion exchange & carrier concept theory.</p> <p>Translocation of organic solutes - mass flow hypothesis.</p>	10	10	

Yearly Teaching Plan

Class - B.Sc. III Subject - Botany Paper (No & Title) : XII Plant Physiology Signature : _____

Sr. No.	Month	Details of Topics / Units	Plan Expected Duration Expected Periods	Implementation Actual Periods	Remark
3	Aug	<p><u>Unit III: Growth and Development</u> <u>Growth and plant growth regulators:-</u> phases of growth Pt. of growth, Factor affecting growth, chemical nature and Applications of Auxins, Gibberellins, Cytokinins, Abscisic acid, ethylene. Seed germination <u>Seed dormancy. Physiology of flowering</u> <u>Vermilization and Devermilitation</u></p>	12	13	
4	Sep	<p><u>Unit: IV. Biomolecules</u> <u>secondary metabolites.</u> <u>Biomolecules:-</u> <u>Carbohydrates:-</u> Protein. Lipids. secondary metabolites.</p>	10	10	

Yearly Teaching Plan

Page No. (No & Title) : _____ Signature : _____

Yearly Teaching Plan

Class - B.S. III Subject - Bio Paper (No & Title) : XIV Signature :

Sr. No.	Month	Details of Topics / Units	Plan Expected Duration		Remark
			Expected Periods	Actual Periods	
7	Dec	Unit. I photosynthesis & respiration Ultra structure of chloroplast Photosynthetic pigment. Hill reaction. Photophosphorylation. Calvin cycle C ₃ . C ₄ pathway. C ₃ pathway. Respiration. Types of respiration.	12	14	
8	Jan	Unit. II enzymes & N. metabolism Nomenclature & classification Lock & key model. Concept of coenzyme. Enzyme activity. Nitrogen metabolism: Forms of Nitrogen. Types of Nitrogen Ammonification, Nitrification, Denitrification	11	13	

Yearly Teaching Plan

Class - Subject - Paper (No & Title) : Signature :

Sr. No.	Month	Details of Topics / Units	Plan Expected Duration Expected Periods	Implamentation Actual Periods	Remarks
9	Feb	Unit - III Biotechnology. Tissue culture. mesoig culture carrier to HPA Applications of tissue culture	11	12	
10	March	Unit-IV Genetic Engineering r-DNA Technology. Cloning vectors, gene cloning G- Library Agrobacterium. Bioinformatics.	11	12	
11	April				

Daily Lesson Plan

Day: Wed.

Date: 20/06/2018

Theory/Practical Subject/Paper Class	Details of Topic / Unit	Students		
		Present	Absent	Total
B.Sc. III Bot. XII	<u>Plant water relations.</u> Importance of water in plant life. - Burekule M.N. Mamta - Khadri S.S.A Shadab	05		
B.Sc. II P.No. VI	<u>Morphology of</u> <u>Angiosperms.</u> Root: Definition, character of root. Chavan D.A Chavan Bhalekar P.R. Pavan	05		
B.Sc. III Practical P.No. XVI	Study of Diffusion - Khadri S.S.A Shadab - Burekule M.N. Mamta			

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Daily Lesson Plan

Day: Thurs . Date: 21/06/2018

Theory/Practical Subject/Paper Class	Details of Topic / Unit	Students		
		Present	Absent	Total
B.Sc. I st . II.	<p>Cell Biology:- Introduction to Cell Biology. Structure of Prokaryotic cell.</p> <p>S. Anand M. Patil mule v. G. Mule Suryawanshi A.M. <u>Patil</u></p>	09		

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Daily Lesson Plan

Day: Fri.

Date: 22/06/2018

Theory/Practical Subject/Paper Class	Details of Topic / Unit	Students		
		Present	Absent	Total
B.Sc. I st sem. II	Structure of eukaryotic cell.	09		
B.Sc. II nd sem. Part X	Study of root. Chavan D.A Chavan Bhalekar P.R. Pavan			

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Daily Lesson Plan

Day: Sat

Date: 23/06/2018

Theory/Practical Subject/Paper Class	Details of Topic / Unit	Students		
		Present	Absent	Total
B.Sc. I st II	Ultra structure of Nucleus. S. Amalg. m - @ Amalg. mule. v. or @ mule Suryawanshi A.M. @ Acharya	09		

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Daily Lesson Plan

Day: Mon.

Date: 25/06/2018

Theory/Practical Subject/Paper Class	Details of Topic / Unit	Students		
		Present	Absent	Total
B.Sc. III rd <u>XII</u>	Permeability. Diffusion. Osmosis. Butekule M.N. Khadri S.S.A	05		
B.Sc. II nd <u>VI</u>	Taproot & adventitious roots. Chavon D.A	05		
B.Sc. I st <u>V</u>	Mitosis.			


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Daily Lesson Plan

Day: Tues

Date: 26/06/2018

Theory/Practical Subject/Paper Class	Details of Topic / Unit	Students		
		Present	Absent	Total
B.Sc. T.F. <u>XII</u>	Plasmolysis, Imbibition. Butekule M.N. Murthy Khadri S.S.A Sharma		03	
B.Sc. II for <u>VI</u>	Functions of Root. Charon D.A @Charan Bhalekar P.R. Pavan	05		


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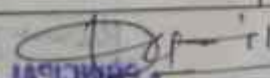

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Daily Lesson Plan

Day: Wed

Date: 27/06/2018

Theory/Practical Subject/Paper Class	Details of Topic / Unit	Students		
		Present	Absent	Total
B.S.C. III rd <u>XII</u>	Transpiration and theory. Khadori S.S.A. Khadori Butekule M.N. M.N.	05		
B.S.C. III rd <u>XVI</u>	Stem: Definition, characters of stem. Charan D.A. Charan Bhalekar P.R. Pavan			
B.S.C. III rd <u>XVI</u> pag.	Study of osmosis Khadori S.S.A. Khadori			


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Daily Lesson Plan

Day: Thurs.

Date: 28/06/2018

Theory/Practical Subject/Paper Class	Details of Topic / Unit	Students		
		Present	Absent	Total
<p>B.Sc. Ist. II</p>	<p>Structure and functions of Golgi complex.</p> <p>Structure & functions of Lysosome.</p> <p>AS. Amal. M. @ Amal mule v. G. @ muk Suryawanshi A.M. @ Bedana</p>	<p>10</p>		


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Daily Lesson Plan

Day: Fri.

Date: 29/06/2018

Theory/Practical Subject/Paper Class	Details of Topic / Unit	Students		
		Present	Absent	Total
B.Sc. I st II	Structure and functions of E.R. and Ribosome	10		
B. Sc. II nd Part X	Mule v. G. <u>rule</u> study of stom. Chavan D.A @Chavan Bhalkekar P.R. Pavan			

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Daily Lesson Plan

Day: Sat.

Date: 30/06/2018

Theory/Practical Subject/Paper Class	Details of Topic / Unit	Students		
		Present	Absent	Total
B.Sc. I st Sem. II	Cell Biology: Chromosome:- Morphology of Chromosome. S. Anand M. S. Anand Mule v. G. Mule Suryawanshi A. M. <u>Archan</u>	10		

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Daily Lesson Plan

Day: Mon.

Date: 02/07/2018

Theory/Practical Subject/Paper Class	Details of Topic / Unit	Students		
		Present	Absent	Total
B.Sc. III rd <u>XII</u>	Transpiration and theory. Khadri S.S.A. <u>Ashadraj</u> Butekule M.N. <u>Mamta</u>	05		
B.Sc. II nd <u>VI</u>	Modification of stem. stem tendrils, Phyllode. Chavan D.A. <u>Dhavan</u> Bhalekar P.R. <u>Pavan</u>	04		
B.Sc. I st <u>V</u> part	Process of mitosis			

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Daily Lesson Plan

Day: Tues . Date: 03/07/2018

Theory/Practical Subject/Paper Class	Details of Topic / Unit	Students		
		Present	Absent	Total
B.Sc. III rd <u>XII</u>	Structure of stomata. Butekale M. N. <u>Monte</u> Khadke S.S.A <u>Achodani</u>	05		
B.Sc. II nd <u>VI</u>	Tuber, rhizome, corn & runner. Chavon D.A <u>Chavon</u> Bhalekar P.R. <u>Pavan</u>	04		


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Daily Lesson Plan

Day: Wed. Date: 04/07/2018

Theory/Practical Subject/Paper Class	Details of Topic / Unit	Students		
		Present	Absent	Total
B.Sc. III rd XII	Opening of stomata Burekule M.N. Mamta Khadri S.S.A. Ashadoni	05		
B.Sc. II nd VI	Functions of stem. Chavan D.A. Chavan Bhalekar P.R. Pavan	05		
B.Sc. III rd XVI th part.	Study of plasmolysis Khadri S.S.A. Ashadoni Burekule M.N. Mamta			


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