



Guru Vishwambharkrupa Bahuddeshiya 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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Shirur Anantpal Dist. Latur



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 | ----- 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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Shirur Anantpal Dist. Latur



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. T.Y. Subject - Botany Paper (No & Title) : II. Cellular Molecular Biology Signature: D.H.1

| 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 | | Remark |
|---------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|----------------|--------|
| | | | Expected Periods | Actual Periods | |
| 3 | Aug | <p>Structure & functions of giant chromosome, cell division: cell cycle, process & significance of mitosis & meiosis,</p> <p><u>Unit: III. Mol. Biology.</u></p> <p>Introduction of Nucleic acid, chemical composition, structure of DNA, RNA.</p> <p><u>Unit: IV. Molecular Biology.</u></p> <p>Gene concept: - fine structure of gene, Gene mutations</p> | 11 | 13 | |
| 4 | Sep | <p>Spontaneous & induced gene mutations, Phage - Karyotyping, Aikaphotometry, 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. H. J.
 Botany & Plant Breeding

| 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, man & plant. Sex linkage inheritance in Drosophila, Sex linkage in man Haemophilia, Colour blindness Hypostachia | | | |

Yearly Teaching Plan

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

| Sr. No. | Month | Details of Topics / Units | Plan Expected Duration | Expected Periods | 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]
and Examinee of No. 510.

| Sr. No. | Month | Details of Topics / Units | Plan Expected Duration | Actual Periods | Remark |
|---------|-------|-------------------------------------------------------------------------------------------------------------------------------|------------------------|----------------|--------|
| 3 | Aug | <u>Unit: - III. Study of Families.</u> Annonaceae Brassicaceae Malvaceae Meliaceae Caesalpiniaceae Fabaceae | 10 | | |
| 4 | Sep | <u>Unit: - IV. Study of Families</u> Asteraceae Solanaceae Euphorbiaceae Lamiaceae Liliaceae Poaceae | 11 | 11 | |

Yearly Teaching Plan

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

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

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. 121 Subject - Botany Paper (No & Title) : XII. Plant Physiology 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 - <u>mass flow hypothesis</u>.</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</u> <u>regulators:- phases of growth</u> <u>pt. of growth, Factor affecting</u> <u>growth, chemical nature and</u> <u>Applications of Auxins,</u> <u>Gibberellins, Cytokinins, Abscisic</u> <u>acid, ethylene. Seed germination</u> <u>Seed dormancy. Physiology of</u> <u>vermilion and Devernization</u></p> | 12 | 13 | |
| 4 | Sep | <p><u>Unit: IV. Biomolecules</u> <u>secondary metabolites.</u> <u>Biomolecules:-</u> <u>Carbohydrates:-</u> <u>Protein.</u> <u>Lipids.</u> <u>secondary metabolites.</u></p> | 10 | 10 | |

Yearly Teaching Plan

Page (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 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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Vice Principal


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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 style="text-align: center;">Cell Biology:-</p> Introduction to Cell Biology. Structure of Prokaryotic cell. | 09 | | |

S. Anand M. ~~Patil~~
 male v.G. ~~Patil~~
 Sufawansi A.M. Patil


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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 part 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 @Charon Bhalekar P.R. Pavan | 05 | | |


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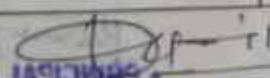

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Daily Lesson Plan

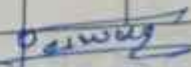
Day: Wed

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. Khadari S.S.A. Shadani Butekule M.N. Mamta | 05 | | |
| B.S.C. III rd <u>XVI</u> | Stem: Definition, characters of stem. Charan D.A. Chavan Bhalekar P.R. Pavan | | | |
| B.S.C. III rd <u>XVI</u> pag. | Study of osmosis Khadari S.S.A. Shadani | | | |


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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 |
| B.Sc. I st . II | <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. @ Achana</p> | 10 | | |


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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 Mule v. G. <u>mule</u> | 10 | | |
| B. Sc. II nd Part X | Study of stom. Chavan D.A @Chavan Bhalekar 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>Shadain</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>Chavan</u> Bhalekar P.R. <u>Pavan</u> | 04 | | |
| B.Sc. I st <u>V</u> part | Process of mitosis | | | |

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Dist. Latur (M.S.)

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 XII | Structure of stomata. Butekale M.N. <u>Monte</u> Khadori S.S.A <u>Achodani</u> | 05 | | |
| B.Sc. II nd VI | 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. Chavhan D.A. Chavhan 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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