



Guru Vishwambharkrupa Bahauddeshiya Shikshan Prasarak Mantri Lakkadjawalga's

Shivneri Mahavidyalaya

(Arts, Commerce & Science)

Shirur Anantpal Dist. Latur



Yearly Teaching Plan Book

Year 2022 - 2023

Name of the teacher : Dr. A.M. Late

Subject & Paper No. : Environmental Science



Guru Vishwambharkrupa Bahuuddeshiya Shikshan Prasarak Mandal Lakkadjawalga's

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Shirur Anantpal Dist. Latur

NAAC accredited "B" Grade with 2.54 CGPA



Yearly Teaching Plan Book

Year 2022 - 2023

Name of the teacher : Dr. A. M. Late

Subject : Environmental science

॥ आमचे प्रेरणास्थान ॥



स्व. अॅड. विश्वंभररावजी माने

(संस्थापक अध्यक्ष, गुरु विश्वंभर कृपा बहुउद्देशीय शिक्षण प्रसारक मंडळ,
लक्कड जवळगा, ता. शिरूर अनंतपाळ जि. लातूर)

Shivneri Mahavidyalaya, Shirur Anantpal

Name of the Teacher Dr. A. M. Late Subject .. Environmental Science

Time - Table 2022-23

| Period | I | II | III | IV | V | VI | VII | VIII | IX | X | Practical | Practical |
|-----------|--------------|----------------------|----------------------|----------------------|---|----------------------|-----|------|----|---|-------------------|-----------|
| Time | 09.05 | 10.00 to 10.50 | 11.40 to 12.30 | 12.30 to 01.20 | | 01.20 to 04.40 | | | | | 01.20 to 04.40 | |
| Monday | B.Sc- III | B.Sc- III | | B.Sc- I | | | | | | | B.Sc-III | |
| Tuesday | | B.Sc- III | | B.Sc-I | | | | | | | | |
| Wednesday | | B.Sc- III | | B.Sc-I | | | | | | | B.Sc-II | |
| Thursday | | | B.Sc-II | | | | | | | | | |
| Friday | | | B.Sc-II | | | | | | | | | |
| Saturday | | | B.Sc-III | | | | | | | | B.Sc-I | |

Shivneri Mahavidyalaya

(Arts, Commerce & Science)

Shirur Anantpal Dist. Latur

Photograph

Name : Dr. Arun Mahipati Late

Designation : Assistant Professor

Qualification :

| Degree | Subject | Board / University | Class/Grade |
|-------------|-----------|-------------------------------|-------------|
| S.S.C. | | | |
| H.S.C. | | | |
| U.G. | | | |
| P.G. | | | |
| M.Phil/Ph.D | Env. Sci. | Dr. B. A. M. U. Aurangabad | Awarded |
| Net / SET | | | |

Date of Birth : 24.08.1983

Date of Appointment : 30.12.2014 Date of Superannuation :

Local Address : Department of Environmental Science

Phone / Mobile Numbers : 9881823498

Email : arnolmlate@gmail.com

Blood Group :

PAN Card Number : GPF A/c. Number :

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

Bank Account Number :

Details of Leave Casual Leave

| Sr. | Date | Principal's Signature | Sr. | Date | Principal's Signature |
|-----|----------|-----------------------|-----|------|-----------------------|
| 1 | 13.08.22 | | 7 | | |
| 2 | 02.09.22 | | 8 | | |
| 3 | 12.09.22 | | 9 | | |
| 4 | 27.09.22 | | 10 | | |
| 5 | 27.12.22 | | 11 | | |
| 6 | 30.01.23 | | 12 | | |

Duty Leave

| Sr. No. | Date | Nature of Work | Principal's Signature | Sr. No. | Date | Nature of Work | Principal's Signature |
|---------|----------|---------------------------------|-----------------------|---------|------|----------------|-----------------------|
| 1 | 25.07.22 | Guest lecture at District court | | 7 | | | |
| 2 | 13.08.22 | National Seminar Bhubaneswar | | 8 | | | |
| 3 | 19.08.22 | C | | 9 | | | |
| 4 | | | | 10 | | | |
| 5 | | | | 11 | | | |
| 6 | | | | 12 | | | |

| Sr. No. | Date | Reason | Principal's Signature | Sr. No. | Date | Reason | Principal's Signature |
|---------|------|--------|-----------------------|---------|------|--------|-----------------------|
| 1 | | | | 4 | | | |
| 2 | | | | 5 | | | |
| 3 | | | | 6 | | | |

Y

Class - B.Sc-I
Paper (No & Title) : II. C.B.C

| Sr. No. | Month | D |
|---------|--------|---|
| 1 | June | |
| 2 | July | Unit-I: Environment |
| 3 | August | - Basic force, - Types - Concept - Laws - Concept - Energy |

Yearly Teaching Plan

Class - B.Sc - I Subject - Environmental Science

Paper (No & Title) : II (Basic Science of Env.) Signature : [Signature]

| Sr. No. | Month | Details of Topics / Units | Plan Expected Duration | Implame-ntation |
|---------|-------------|--|------------------------|-----------------|
| Sr. No. | Month | Details of Topics / Units | Expected Periods | Actual Periods |
| 1 | June | | | |
| 2 | July | <u>Unit-I: Fundamentals of Environmental physics</u> | 02 | |
| 3 | Aug- ust | <ul style="list-style-type: none"> - Basic concept of pressure, force, work & Energy - Types of forces - Concept of Heat transfer - Laws of Thermodynamics - Concept of Heat & work - Energy, Power plants | 13 | |

Principal's
Signature

Principal's
Signature

Yearly Teaching Plan

Class - B.Sc-I Subject - Environmental Science
 Paper (No & Title) : II.C. Basic Science of Env Signature: Julay

| Sr. No. | Month | Details of Topics / Units | Plan Expected Duration | Implementation |
|---------|-----------|--|------------------------|----------------|
| Sr. No. | Month | | Expected Periods | Actual Periods |
| 4 | September | <u>Unit-II: Fundamentals of Environmental Chemistry.</u> - Atomic structure, Electronic Configuration, types of bond - Thermodynamics systems - Types of Chemical reactions | 10 | |
| 5 | October | - Concept of pH & PE, - Basic concept of Hydrocarbons - functional groups. <u>Unit-III</u> Atmosphere & Meteorology - Structure of atmosphere - Wind speed, direction - Atmospheric stability | 10 | |
| 6 | November | - Characteristics of classer plume behavior - Effect of micro meteorology - wind valley effect - Land/sea breeze effect - mixing height - Temperature inversion - Factors affecting dispersal of pollutants. | 10 | |

Class - B.Sc-I
 Paper (No & Title) : IV

| Sr. No. | Month | |
|---------|----------|--|
| 7 | December | Introdu ICS |
| 8 | January | <u>Unit-F:</u> - Social Env - Gross - Env. - Acc - Res - Env |
| 9 | February | <u>Unit-I</u> - Ecol - Env. - Dev. - Res - proje |

Yearly Teaching Plan

Class - B.Sc - I Subject - Env. Sci.

Paper (No & Title) : IV : ISSUES IN ENV. Signature : Gulraj

| Plan Expected Duration | Implementation |
|------------------------|----------------|
| Expected Periods | Actual Periods |
| 10 | |
| 10 | |
| 10 | |

| Sr. No. | Month | Details of Topics / Units | Plan Expected Duration | Implementation |
|---------|----------|---|------------------------|----------------|
| | | | Expected Periods | Actual Periods |
| 7 | December | Introduction to Environmental Issues | | |
| 8 | January | <p><u>Unit - I</u>: Env. & Issues in Env.</p> <ul style="list-style-type: none"> - Social & cultural construction of Env. - Gross Net Happiness - Env. Issues - Acid rain, climate change. - Resource depletion - Env. & society. | | |
| 9 | February | <p><u>Unit - II</u>: Development Env. conflict.</p> <ul style="list-style-type: none"> - Ecological degradation. - Env. pollution - Dev. Induced displacement - Resettlement & Rehabilitation. - Project Affected peoples. | | |

Yearly Teaching Plan

Class - B.Sc-I Subject - Env. Sci.
 Paper (No & Title) : IV: ISSUES IN ENV Signature: [Signature]

| Sr. No. | Month | Details of Topics / Units | Plan Expected Duration | Implementation |
|---------|-------|--|------------------------|----------------|
| | | | Expected Periods | Actual Periods |
| 10 | March | <p><u>Unit-III</u>: - Urbanization & Env.</p> <ul style="list-style-type: none"> - Production & consumption oriented approach - Impact of Industry & technology - Urban sprawl - Traffic congestion - Conflict betw economic & social | | |
| 11 | April | | | |
| 12 | May | | | |

Class - B.Sc-II
 Paper (No & Title) : VII:

| Sr. No. | Month | |
|---------|--------|--|
| 1 | June | |
| 2 | July | <p><u>Unit-IV</u>:</p> <ul style="list-style-type: none"> - Hydrological |
| 3 | August | <ul style="list-style-type: none"> - Fresh water - Need of - Limits resource - Freshwater - Aquifer |

Yearly Teaching Plan

Class - B.Sc-II Subject - Environmental Science

Paper (No & Title) : VII: Water & Fresh water Resources Signature: Gulung

| Sr. No. | Month | Details of Topics / Units | Plan Expected Duration | Implame-ntation |
|---------|--------|---|------------------------|-----------------|
| | | | Expected Periods | Actual Periods |
| 1 | June | | | |
| 2 | July | <p><u>Unit-II: Introduction to Fresh water</u> - Hydrological cycle</p> | 02 | |
| 3 | August | <ul style="list-style-type: none"> - Freshwater (Depth, scope, importance) - Need of Freshwater Management - Limits of Global Freshwater resources - Freshwater Resources of India - Aquifer System in India | 13 | |

Yearly Teaching Plan

Class - B.Sc-II Subject - Environmental Science
 Paper (No & Title) : VII (Water & Freshwater Resources) Signature (Chelley)

| Sr. No. | Month | Details of Topics / Units | Plan Expected Duration | Implame-ntation |
|---------|------------|--|------------------------|-----------------|
| Sr. No. | Month | Details of Topics / Units | Expected Periods | Actual Periods |
| 4 | Sept-ember | Unit-II: Properties of water - physical properties - Chemical properties of water | 15 | |
| 5 | Octo-ber | - Biological properties of water Unit-III: Water use & Conservation methods - uses of water (Domestic, civic, industrial, Agriculture, Hydroelectric power) | 10 | |
| 6 | Novem-ber | - Factors affecting water use & loss - Water conservation methods - Rainwater harvesting - Importance of water - National water policy | 10 | |

Class - B.Sc-II
 Paper (No & Title) : IX

| Sr. No. | Month | Details of Topics / Units |
|---------|-----------|---|
| 7 | Decem-ber | Introduction |
| 8 | Janu-ary | Unit-I - Defini - Dept - Cau: - Limit - Har - Rot |
| 9 | Febr-uary | Unit-II - Con - th - I |

Environmental Science

Signature: *[Handwritten Signature]*

| Plan Expected Duration | Implementation |
|------------------------|----------------|
| Expected Periods | Actual Periods |
| 15 | |
| 15 | |
| 10 | |

Yearly Teaching Plan

Class - B. Sc. - II Subject - Env. Sci.

Paper (No & Title) : IX: Natural Resource Management Signature : *[Handwritten Signature]*

| Sr. No. | Month | Details of Topics / Units | Plan Expected Duration Expected Periods | Implementation Actual Periods |
|---------|----------|---|--|----------------------------------|
| 7 | December | Introduction to Natural Resources | | |
| 8 | January | <p><u>Unit-I</u></p> <ul style="list-style-type: none"> - Definition, Classification - Depletion of Natural Resources - Causes, Impact and Mitigation - Limitation of Natural Resources - Human Life - Role of Individual in them | | |
| 9 | February | <p><u>Unit-II : Energy & Mineral Resources</u></p> <ul style="list-style-type: none"> - Conventional Energy Resources - Non-conventional Energy Resources - Mineral Resources | | |

Yearly Teaching Plan

Class - B.Sc-II Subject - Env. Sci.

Paper (No & Title) : IX: Natural Resource mgt. Signature: Syulany

| Sr. No. | Month | Details of Topics / Units | Plan Expected Duration | Implame-ntation |
|---------|-------|--|------------------------|-----------------|
| Sr. No. | Month | Details of Topics / Units | Expected Periods | Actual Periods |
| 10 | March | <u>unit-09: Biotic Resource.</u> - Forest Resources - Wild life Resources - Wildlife management. - Forest management | | |
| 11 | April | | | |
| 12 | May | | | |

Class - B.Sc-III

Paper (No & Title) : XIII

| Sr. No. | Month | Details of Topics / Units |
|---------|--------|---|
| 1 | June | |
| 2 | July | <u>Unit-I: V</u> - Basic Co |
| 3 | August | - value of - wildlife - Endang - Threats - Threats - Habitat |

Yearly Teaching Plan

Class - B.Sc.-III Subject - Environmental Science

Paper (No & Title): XIII: Wild life management Signature: Gulany

sci.

signature: Gulany

| Plan Expected Duration | Implementation |
|------------------------|----------------|
| Expected Periods | Actual Periods |
| | |
| | |
| | |

| Sr. No. | Month | Details of Topics / Units | Plan Expected Duration Expected Periods | Implementation Actual Periods |
|---------|--------|--|--|----------------------------------|
| 1 | June | | | |
| 2 | July | <u>Unit-I: Wildlife: An Introduction</u> - Basic concept of wildlife | 02 | |
| 3 | August | - value of wildlife - wildlife in India - Endangered Flora & Fauna - Threats to Indian Wildlife - Threatened wildlife - Habitat loss. | 13 | |

Yearly Teaching Plan

Class - B.Sc. - III Subject - Environmental Science

Paper (No & Title) : XIII: Wildlife management Signature: [Signature]

| Sr. No. | Month | Details of Topics / Units | Plan Expected Duration | Implame-ntation |
|---------|------------|--|------------------------|-----------------|
| Sr. No. | Month | | Expected Periods | Actual Periods |
| 4 | Sept-ember | <u>Unit II: Wildlife Conservation</u> - Aims & objectives - Modes of wildlife Conservation. - Protected Area Network - Protected Reserves | 10 | |
| 5 | October | - National Parks - Wildlife Sanctuaries - Wildlife management in India | 10 | |
| 6 | November | <u>Unit III - Wildlife management</u> - Wildlife management in India - Indian Board of life - man & wildlife conflict. - Applications of Remote sensing & GIS in wildlife studies. | 10 | |

Class - B.Sc. - III

Paper (No & Title) :

| Sr. No. | Month | |
|---------|----------|---|
| 7 | December | Introducti |
| 8 | January | <u>Unit - I</u> - Introducti - Goals - Princip - mode - Metho - Level |
| 9 | February | <u>Unit - II</u> - Introducti - Levels - Classifi - India - value |

Plan

Environmental Science

Signature: Gulraj

| | Plan Expected Duration | Implementation |
|--------------|------------------------|----------------|
| | Expected Periods | Actual Periods |
| Introduction | 10 | |
| Unit I | 10 | |
| Unit II | 10 | |

Yearly Teaching Plan

Class - B.Sc-III Subject - Environmental Science

Paper (No & Title) : Environmental Edu./ Biodiversity Signature: Gulraj

| Sr. No. | Month | Details of Topics / Units | Plan Expected Duration | Implementation |
|---------|----------|---|------------------------|----------------|
| | | | Expected Periods | Actual Periods |
| 7 | December | Introduction to syllabus | | |
| 8 | January | Unit - I: Environment Education - Introduction - Goals & objectives of EE - Principles of EE - modes of EE - methods of EE - Levels of EE | | |
| 9 | February | Unit-II: Biodiversity - Introduction, Definition - Levels of Biodiversity - Classification of India - India as mega diversity nation - value of Biodiversity | | |

Yearly Teaching Plan

Class - B.Sc-III Subject - Env. Sci.

Paper (No & Title) : Env. Education & Governance Signature : Symlay

| Sr. No. | Month | Details of Topics / Units | Plan Expected Duration | Implame-ntation |
|---------|-------|--|------------------------|-----------------|
| Sr. No. | Month | Details of Topics / Units | Expected Periods | Actual Periods |
| 10 | March | <ul style="list-style-type: none"> - Hotspots of Biodiversity - Threats to Biodiversity - Endangered & Endemic species | | |
| 11 | April | <p><u>Unit III: Biodiversity conservation</u></p> <ul style="list-style-type: none"> - Conservation of Biodiversity - Methods of conservation - major International convention - World Heritage Convention | | |
| 12 | May | | | |

Class -

Paper (No & Title) :

| Sr. No. | Month | Details of Topics / Units | Expected Periods | Actual Periods |
|---------|--------|---------------------------|------------------|----------------|
| 1 | June | | | |
| 2 | July | | | |
| 3 | August | | | |

Daily Lesson Plan

Day : Saturday

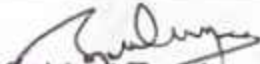
Date : 30.07.2022

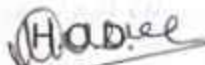
| Theory/Practical Subject/Paper Class | Details of Topic / Unit | Students | | |
|---|---|----------|--------|-------|
| | | Present | Absent | Total |
| B.Sc-II | Introduction to syllabus paper - VII (sem-III) | | | |

Day : Monday

Date : 01.08.2022

| | | | | |
|----------|---|--|--|--|
| B.Sc-III | Environmental studies | | | |
| B.Sc-III | Introduction to syllabus paper - VIII (sem-IV) | | | |
| B.Sc-I | Introduction to syllabus paper - II (sem-I) | | | |
| B.Sc-III | Introduction to Practical paper | | | |


Subject Teacher


HADIEE



Principal

Daily Lesson Plan

Day: Tuesday

Date: 02-08-2022

| Theory/Practical Subject/Paper Class | Details of Topic / Unit | Students | | |
|---|--|----------|--------|-------|
| | | Present | Absent | Total |
| B.sc - III | Introduction to wildlife (2022) III - 10/10 | 10 | 0 | 10 |
| B.sc - I | Unit - I Fundamentals of Environmental physics | | | |

Day: wednesday

Date: 03-08-2022

| | | | | |
|-------------------|--|----|---|----|
| B.sc - III | Basic concept of wildlife (2022) III - 10/10 | 10 | 0 | 10 |
| B.sc - I | Basic concept of Pressure (2022) I - 10/10 | 10 | 0 | 10 |
| B.sc - II (PA) | Collection of water sample (2022) II - 10/10 | 10 | 0 | 10 |

Shubang
Subject Teacher

Shubang
H.O.D.

Shubang
Principal

Day: Thursday

| Theory/Practical Subject/Paper Class | |
|---|----|
| B.sc - II | 10 |

Day: Friday

| | |
|-----------|----|
| B.sc - II | 10 |
|-----------|----|

Shubang
Subject Teacher

Daily Lesson Plan

Day : Thursday

Date : 04.08.2021

| Theory/Practical Subject/Paper Class | Details of Topic / Unit | Students | | |
|---|-----------------------------|----------|--------|-------|
| | | Present | Absent | Total |
| B.Sc -II | Introduction to Fresh water | | | |

Day : Friday

Date : 05.08.2021

| | | | | |
|----------|--------------------|--|--|--|
| B.Sc -II | Hydrological cycle | | | |
|----------|--------------------|--|--|--|

Sulay
Subject Teacher

Abdullah
H.O.D.


Principal

Daily Lesson Plan

Day: Sat

Date: 06-08-2022

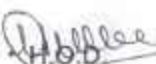
| Theory/Practical Subject/Paper Class | Details of Topic / Unit | Students | | |
|---|--|----------|--------|-------|
| | | Present | Absent | Total |
| B.Sc-II | Precipitation, Runoff, Infiltration, evaporation | | | |
| B.Sc-I (PR) | Measurement of Atmospheric Humidity by Psychrometer | | | |

Day: Monday

Date: 08-08-2022

| | | | | |
|-------------------|---|--|--|--|
| B.Sc-I | Gravitational, Centripetal, Force | | | |
| B.Sc-III- | Importance of Wildlife | | | |
| B.Sc-III (CPA) | Estimation of Primary Production by light & dark bottle technique | | | |


Subject Teacher


H.O.D



Principal

Day: Wed

| Theory/Practical Subject/Paper Class | |
|---|----|
| B.Sc-III | E |
| B.Sc-I | C |
| B.Sc-II (PR) | PR |

Day: Thursday

| | |
|---------|---|
| B.Sc-II | Y |
|---------|---|


Subject Teacher

Day: Wed

Daily Lesson Plan

Date: 10.08.2022

| Theory/Practical Subject/Paper Class | Details of Topic / Unit | Students | | |
|---|------------------------------|----------|--------|-------|
| | | Present | Absent | Total |
| B.Sc-III | Ecological value | | | |
| B.Sc-I | Concept of Heat Transfer | | | |
| B.Sc-II (PR) | Presentation of water Sample | | | |

Day: ThursdayDate: 11.08.2022

| | | | | |
|---------|-------------------------|--|--|--|
| B.Sc-II | Measurement of Rainfall | | | |
|---------|-------------------------|--|--|--|

[Signature]
Subject Teacher

[Signature]
H.O.D.

[Signature]
Principal