

**Punyashlok Ahilyadevi Holkar Solapur University, Solapur**



NAAC Accredited-2015  
'B' Grade (CGPA 2.62)

**Name of the Faculty: Science & Technology**

**Choice Based Credit System (CBCS)**

**Syllabus: Physics**

**Name of the Course: B.Sc. III (Sem-V & VI)**

**(Syllabus to be implemented with effect from June 2021)**

# **Punyashlok Ahilyadevi Holkar Solapur University, Solapur**

## **Syllabus: For B.Sc. III Physics (CBCS Pattern)**

### **Choice Based Credit System (CBCS) Pattern To be implemented from Academic Year 2021-22**

#### **1. Preamble:**

Bachelor of Science (B.Sc.) in Physics is the course disseminating knowledge of the subject from fundamental concepts to state-of-technologies. Indeed, the curriculum encompasses knowledge of various themes such as Mathematical Physics, Classical Mechanics, Atomic & Molecular Physics Materials Science, Quantum Mechanics, and Electronics etc. The Choice Based Credit System (CBCS) is implemented for this course. Out of 4 theory papers, in each semester, 3 papers are of core. However, students have to opt one paper from DSE papers. Also one Add on Skill enhance course is included as SEC. In the practical course of 400 marks there are compulsory experiments for practical course IV, V, VI and VII (Project/ Internship). Moreover, project work is also mandatory in curriculum at last semester to ensure better practical knowledge and hence better job opportunities in Research & industrial sector. The details are mentioned in the syllabus.

#### **2. Objectives of the course:**

The aim of the course is to generate trained manpower with adequate theoretical and practical knowledge of physics domain. Due care is taken to inculcate conceptual understanding in basic phenomena, materials, appropriate practical skills suitable for research and industrial needs. Objectives are

- To design the syllabus with specific focus on key Learning Areas.
- To equip student with necessary fundamental concepts and knowledge base.
- To develop specific practical skills.
- To impart training on circuit design, analysis, building and testing.
- To prepare students for demonstrating the acquired knowledge.
- To encourage student to develop skills for accepting challenges of upcoming technological advancements.

#### **3. Nature of theory question paper**

The nature of theory question paper is as per university common mode

1.Total Marks 80.

Q. 1 Multiple choice questions (One mark each)	16
Q. 2 Short answer question (Any eight)	16
Q. 3 A Short answer question (Any four)	12
B Short answer question (one compulsory)	04
Q. 4 Short answer question (Any four)	16
Q. 5 Long answer question. (Any two)	16

OR

Q. 5 Answer the following.	16
A.	
B.	

#### **5. Distribution of Practical Marks (400):**

Sr. No.	UA (320)	CA (80)		
1.	Practicals (50 x 4 Practicals)	200	Experiment Test ( 10 + 10)	20
2.	Project (Project-60, Report-10, Oral-10, Presentation-10, Idea/Theme-10)	100	Practical Test ( 20 + 20)	40
3.	Journal	20	Seminar	10
4.			Industrial visit/ Industrial Case Study / Visit to industrial exhibition /Participation in Conference/ Workshop/ Seminars	10
	<b>Total</b>	320	<b>Total</b>	80
			<b>Total</b>	400

#### A) University Assessment (320):

**Practical Marks (50 X 4=200) may be as given below.**

- Flexibility should be given to the students to draw diagrams of respective experiments.
- **Project:** Every student should take up a project and submit the report of the work carried out. The project work will be assessed independently at the time of practical examination.
- It is mandatory for the students to produce certified journal at the time of practical examination.

#### B) College Assessment (80):

- **Experiment Test:** 02 Experiment diagram tests, each of 10 marks.
- **Practical Test:** 02 Practical tests, semester-wise, each of 20 marks.
- **Seminar:** Every student of B.Sc. III, Physics will have to deliver one seminar of at least 10 minutes on any advanced topic in Physics using ICT (power point presentation) and submit the report of presentation, for 10 marks.
- **Industrial visit / Local industry case study / Job training/ Visit to industrial exhibition/Participation in the Conference/ Workshop/seminars :** In order to give the exposure of industry/ Research Institute and advances in the field of Physics, industrial visit should be arranged and submit the report. OR he should submit the report of the case study of local industry or on job training (minimum four days) OR he may visit to an industrial/ Science exhibition OR participate in conference / Seminar / workshop and produce certificate of participation, for 10 marks.

#### C) Skill Enhancement Course (SEC):

Student has to complete min one of this activity on his own resources and has to produce the certificate of the same. If any official documentation is necessary from institute, it will be provide, e.g. consent letter, etc. The Internship/Industrial Training must have minimum of 240 hours.

Madha Taluka Shikshan Prasarak Mandal's

**K.N. Bhise Arts, Commerce and Vinayakrao Patil  
Science College, Bhosare**


Paranda Road, Bhosare, (Kurduwadi) Tal-Madha Dist.-Solapur Pin-413 208 (Maharashtra)

**Department of Physics**

**Student List 2023-2024**

B.Sc. III		
Sr. No.	Name of the Student	Name of the project
1	BADEKAR KOMAL AMAR	Cyclic layer by layer deposition method for multimaterial thin film and its characterization
2	GAPATE SIDDHALI SURESH	
3	KARANDE SAKSHI DHANAJI	ZnO/CdS by SILAR and CBD
4	KHAIRE SHITAL SHIVAJI	
5	KUTE PRATIK VASANT	MnO <sub>2</sub> thin film preparation by SILAR with different cycles
6	LOKARE KIRTI SURESH	
7	LOKHANDE SUYASH SANTOSH	
8	LONDHE GANESH HAMBIRAO	CuO and CoS thin film preparation by SILAR deposition technique
9	PATIL SHUBHAM GANESH	
10	RAUT PRAVIN MARUTI	
11	SATAV SANKET SANJAY	
12	SATAV SHUBHAM SANDIPAN	
13	SHINDE DHAIRYASHIL SATISH	ZnO and MnO <sub>2</sub> preparation by CBD and SILAR with deposition time and temperature
14	YADAV ROHAN VITTHAL	
15	BAGWAN RAMIJ RASHID	
16	PATIL VIPUL DADA	

  
Head, Department of Physics  
KNBAC & VPS College, Bhosare.

  
I/c. Principal  
K.N. Bhise Arts, Commerce &  
Vinayakrao Patil Science College  
Vidyanagar Bhosare, Dist-Solapur



**“Cyclic layer by layer deposition method for multimaterial thin  
film and its characterization ”**

A project report Submitted

To

**Department of Physics**

**K. N. Bhise Arts, Commerce and Vinayakrao Patil Science  
College, Bhosare (kurduwadi.)**

For partial Fulfillment of

The degree of

**Bachelor of Science (B.Sc.)**

**In**

**PHYSICS**

**By**

**Miss. Badekar Komal Amar**

Under the Guidance of

**Dr. A. M. More**

(M.Sc. Ph.D.)

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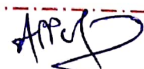
**DEPARTMENT OF PHYSICS**

**K. N. BHISE ARTS, COMMERCE And VINAYAKRAO PATIL SCIENCE COLLEGE, BHOSARE  
(KURDUWADI).**

**2023-2024**

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Head, Department of Physics  
**KNEAC & VPS College, Bhosare,**

  
I/c. Principal  
**K.N.Bhise Arts, Commerce &  
Vinayakrao Patil Science College  
Vidyanagar Bhosare, Dist-Solapur**



Roll No: 1293

Exam Seat No 

0	0	3	1	1	2
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**K.N. Bhise Arts, Commerce and Vinayakrao Patil Science  
College, Bhosare (Kurduwadi)**

**Department of Physics**

## **CERTIFICATE**

This is to certify that ~~Mr.~~ /Miss-Badekar Komal Amar has satisfactorily completed the Project in the subject of Physics as per the syllabus prescribed by Solapur University, Solapur for B.Sc III during the year 2023-2024.

Project Co-Guide

Examiner

Project Guide

Department of Physics  
K.N.BAC & VPS College, Bhosare.

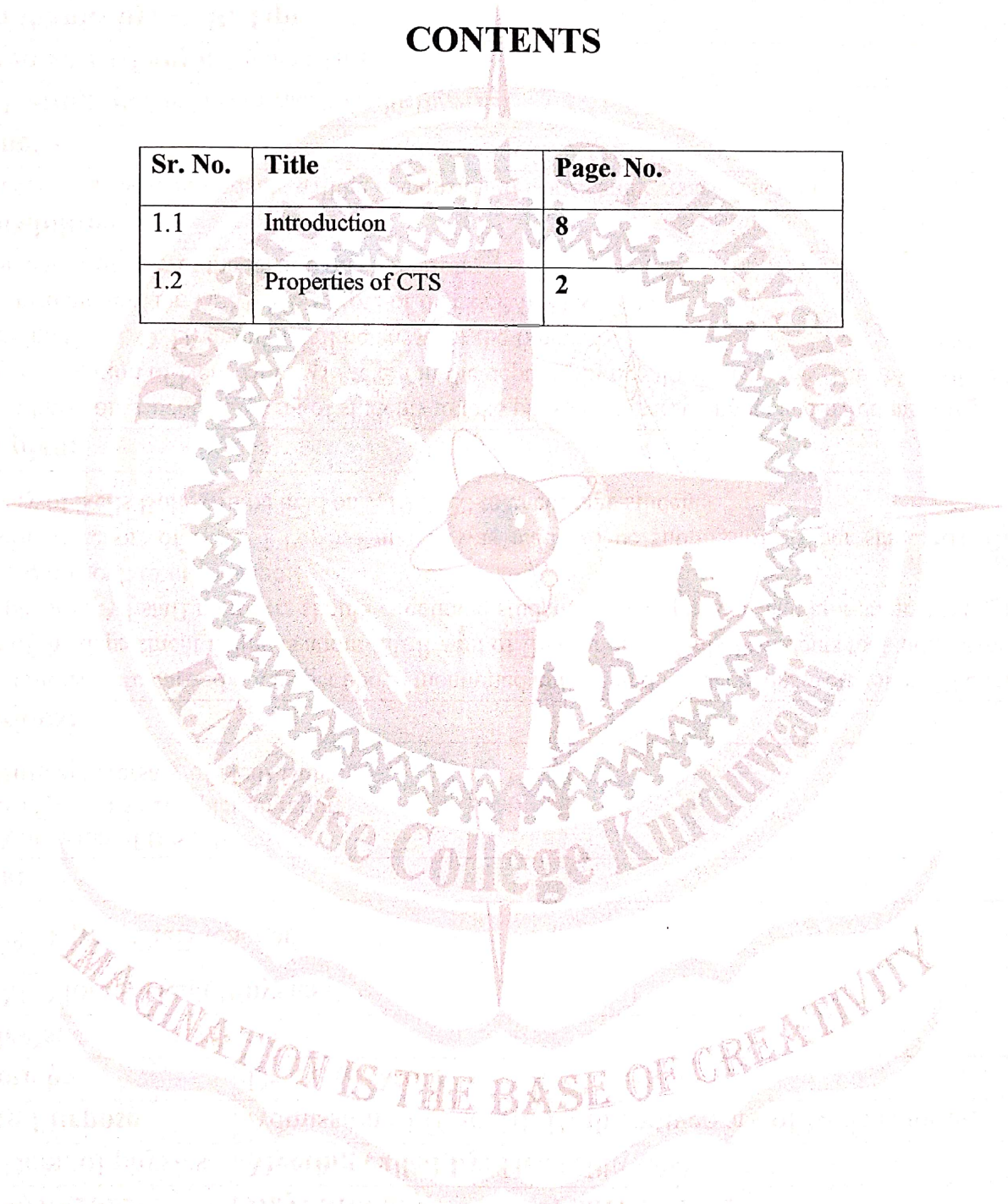
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## CONTENTS

Sr. No.	Title	Page. No.
1.1	Introduction	8
1.2	Properties of CTS	2



## 1.1 Introduction:-

It can be defined as “any solid or liquid system possesses at most two dimensional orders or periodicity”. Usually, the thickness of the thin film is less than one micrometer. The thin films play an important role in the present day technology development and techniques of the film deposition and offer a major key to the fabrication of solid state microelectronic devices.

Copper, Tin, & Sodium (CTS) is a dark brown solid, insoluble in water but soluble in concentration Hydrochloric acid(HCl). Tin chloride phases due to its fundamental chemical and physical properties. Tin Chloride is an interesting potential candidate for next generation thin film solar cell. There is a considerable interest in the development of the systems for the generation of thin films which are capable of photovoltaic and solar cell. In principle, this is an extremely important area of research because the total amount of solar energy that falls on the surface per year outweighs our present or near future energy demands and is very huge and a practical system that works even at a modest working efficiency will be of genuine significance. Nanocrystalline CTS thin films of different thicknesses were deposited on a glass substrate by a simple layer by layer deposition method LbL

Chemical methods such as Chemical Bath Deposition (CBD), layer by layer deposition method LbL, electrodeposition etc. are simple, economic and convenient for the deposition of large area metallic oxide thin films. These are low temperature methods and hence avoid oxidation and corrosion of the substrates. The preparative parameters such as concentration, pH, nature of the complexing agent, temperature etc. are easily controllable.

In CBD, the film formation on substrate takes place when ionic product exceeds solubility product. However, this results into precipitate formation in the bulk of solution, which cannot be avoided. This results in unnecessary formation of precipitation and loss of material. This drawback is greatly reduced by using a simple chemical deposition method i.e. LbL.

The LbL method is relatively a new and less investigated method, which is based on sequential reaction on the substrate surface. Rinsing follows each reaction, which enables heterogeneous reaction between the solid phase and solvated ions in the solution. LbL method has its own advantages such as layer-by-layer growing mode, excellent material utilization efficiency and good control over the deposition process along with the film



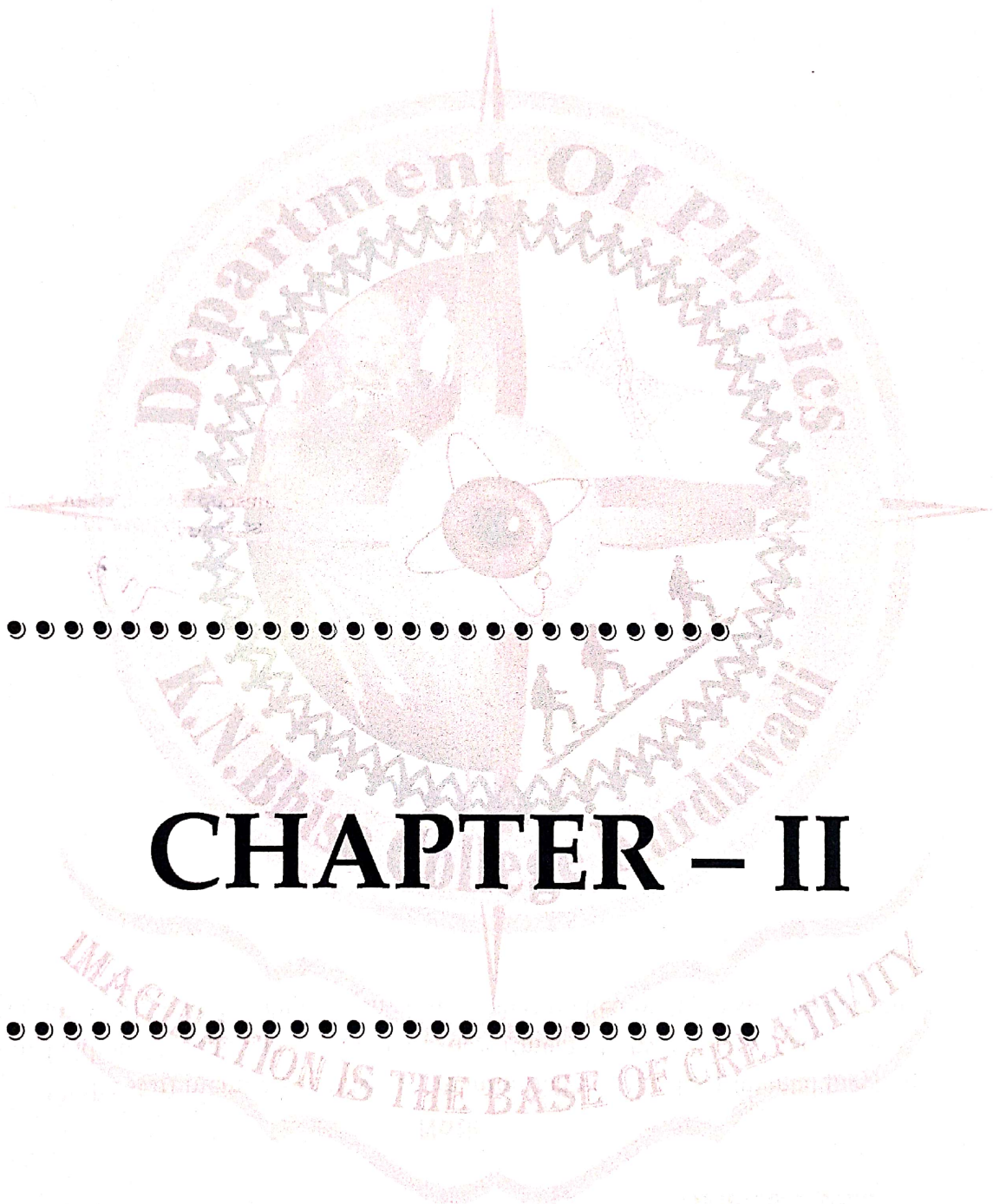
thickness and large-scale deposition capability on any type of substrate. Any insoluble surface to which the solution has free access will be a suitable substrate for the deposition.

## 1.2 Properties of Copper, Tin and Sulphide :-

Copper tin sulphide is characterized by a tetragonal cubic transition at 7800C. it is largely found in the mineral mohite. It has multinary-metal chalcogenide compositions containing only non-toxic and abundant elements, and hence it is widely used id development environmentally sustainable processes and devices.

Name	Copper	Tin	Sulphide
Symbol	Cu	Sn	S
Atomic no.	29	50	16
Colour	Sky blue	White	White
Density	8.96 g/cm <sup>2</sup>	7.265 g/cm <sup>2</sup>	2 g/cm <sup>2</sup>
Phase	Solid	solid	Solid

Table no : 1



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# CHAPTER - II

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### Thin Film Deposition Methods

Sr. No.	Title	Page No.
2.1	Thin film: An introduction	
2.2	Applications of thin film	
2.3	Thin film deposition techniques	
2.4	Layer by layer deposition method thin film LbL	
2.4.1	LbL Method Setup	

## 2.1 Thin Film: An Introduction:-

The field of material science and engineering community's ability to conceive the novel materials with extraordinary combination of chemical, physical and mechanical, properties has changed the modern society. There is increasing technological progress. Modern technology requires thin films for different applications. Thin film technology is the basic of astounding development in solid state electronics. The usefulness of the optical properties of metal films, and scientific curiosity about the behavior of two-dimensional solids has been responsible for the immense interest in the study science and technology of the thin films.

When we consider a very thin film of some substance, we have a situation in which the two surfaces are so close to each other that they can have a decisive influence on the internal physical properties and processes of the substance, which differ, therefore, in a profound way from those of a bulk material. The decrease in distance between the surfaces and their mutual interaction can result in the rise of completely new phenomena. Here the one dimension of the material is reduced to an order of several atomic layers which creates an intermediate system between macro systems and molecular systems, thus it provides us a method of investigation of the microphysical nature of various processes. Thin films are especially appropriate for applications in microelectronics and integrated optics. However the physical properties of the films like electrical resistivity do not substantially differ from the properties of the bulk material. For a thin film the limit of thickness is considered between tenths of nanometer and several micrometers.

Thin film materials are the key elements of continued technological advances made in the fields of optoelectronic, photonic, and magnetic devices. The processing of materials into thin films allows easy integration into various types of devices. The properties of material significantly differ when analyzed in the form of thin films. Most of the functional materials are rather applied in thin film form due to their specific electrical, magnetic, optical properties or wear resistance. Thin film technologies make use of the fact that the properties can particularly be controlled by the thickness parameter.

Thin films are formed mostly by deposition, either physical or chemical methods. Thin films, both crystalline and amorphous, have immense importance in the age of high technology. Few of them are microelectronic devices, magnetic thin films in recording devices, magnetic

## 2.3 Thin Film Deposition Method :-

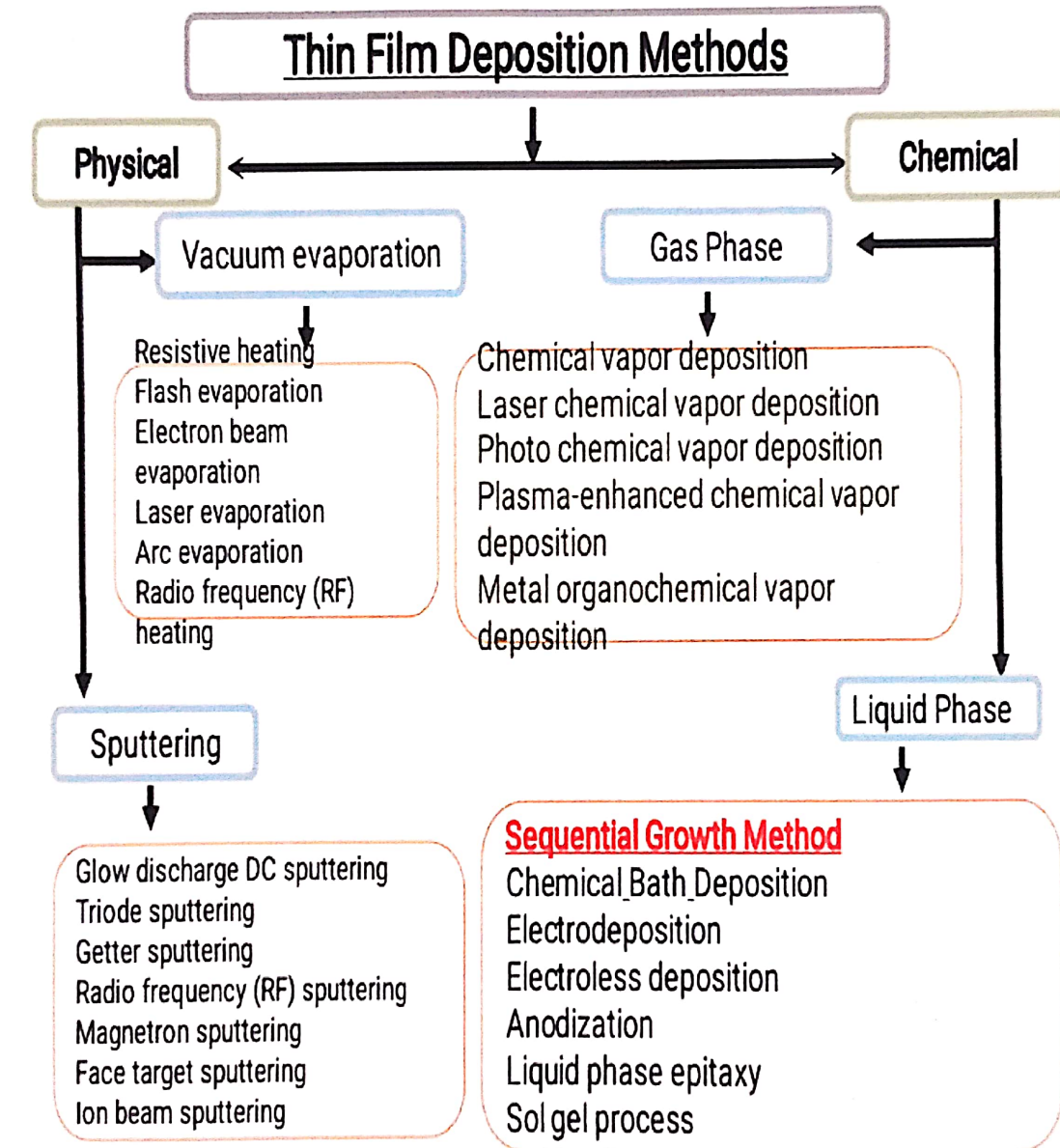


Chart no: 2 thin film deposition method

## 2.4 LbL Method Setup:-

(Repeated until desired thickness is achieved)

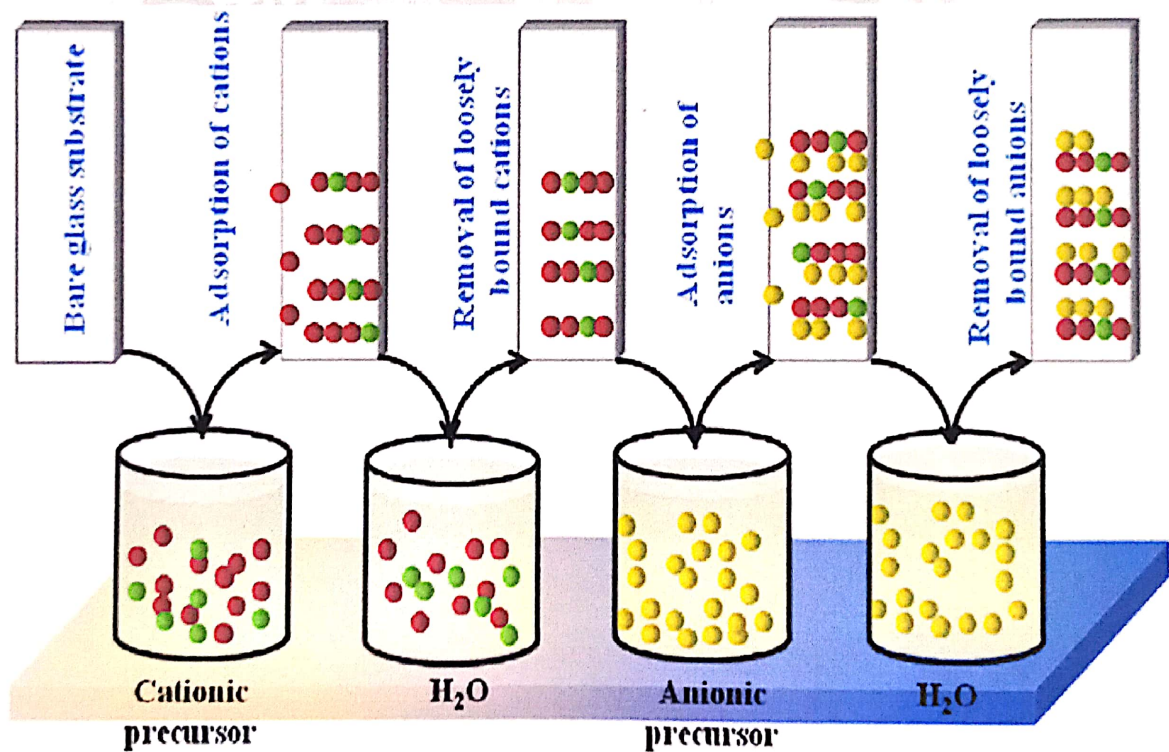


Fig (1) the scheme of LbL method for the deposition of CTS thin film

- 1) Cationic precursors (Copper sulphate, Tin chloride solutions)
- 2) Distilled water
- 3) Anionic precursors (Sodium thiosulphate)
- 4) Distilled water

Sr.No.	Entity	Optimized Parameters of CZTS Thin Film
1	Cationic Solution	Copper Sulphate $\text{CuSO}_4$ 0.2M
		Tin Chloride $\text{SnCl}_2$ 0.2M
2	Anionic Solution	Sodium Thiosulphate $\text{Na}_2\text{S}_2\text{O}_3$ 0.2M
3	Substrate	Glass
4	Temperature of Cationic solution	Room. Temperature
5	Temperature of Anionic solution	Room Temperature.
6	Immersion time in Cationic solution	20 Second
7	Rinsing time	2 Second
8	Immersion time in Anionic solution	20 Second
9	colour of thin film	Dark Brown colour
10	Number of cycles	60 cycles

Table no : 2

### 5.3 Contact Angle Measurement:-

Fig.(a) Hydrophobic nature of as deposited

Fig.(b) Hydrophilic nature of annealed

The water contact angle measurements for as deposited and annealed at temperature 523K CTS films as shown in fig (6.1) and (6.2) it is angle between the surface of the film material and liquid drop when film material come in contact together and is common method to measure nature of material. Angle at which a liquid / vapor interface meets the solid surface. As deposited film is hydrophobic in nature is greater than  $90^{\circ}$ . As annealed film is hydrophilic in nature is less than  $90^{\circ}$ . Angle measurement for as-deposited and as-annealed on a CTS films surface and were  $146^{\circ}$  and  $24^{\circ}$ . The value of water contact angle for as deposited thin film is greater than reported value in the literature. May be due to changes in surface morphology decrease in water contact angle after annealed films may be attributed to the nature of grain size and topographical change in structure.



Fig5.1. as deposited

Fig 5.2. as annealed



## Reaction Mechanism:-

Spectroscopic grade glass slides (7.5cm x 2.5 cm x 0.2 cm) are used for the deposition of CTS thin films. The precursor solution of the 25ml of copper sulphate  $\text{CuSO}_4$ , 25ml, Tin chloride  $\text{SnCl}_4$ , 5 (THOMAS BAKER) were used as source of cation solution and the 50 ml solution of the sodium thiosulphide  $\text{Na}_2\text{S}_2\text{O}_3$  (THOMAS BAKER) used as an anion solution

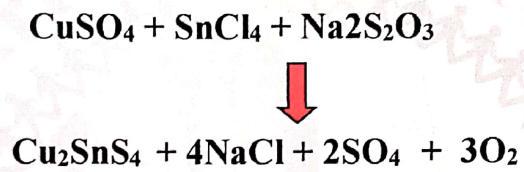
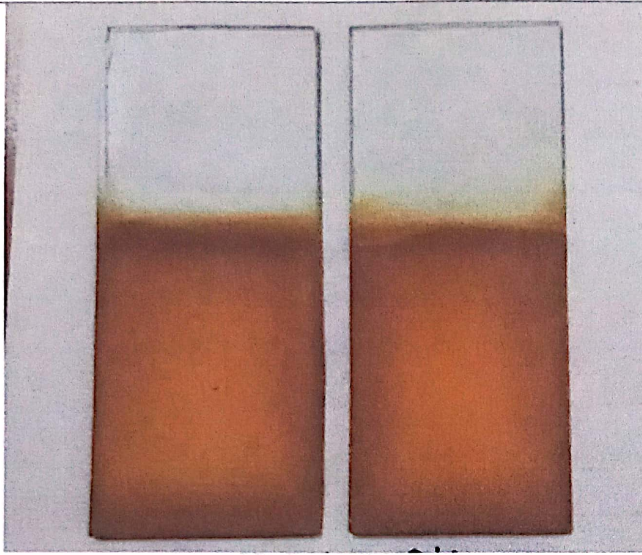
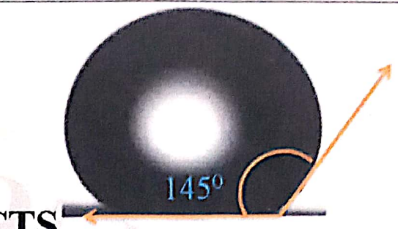
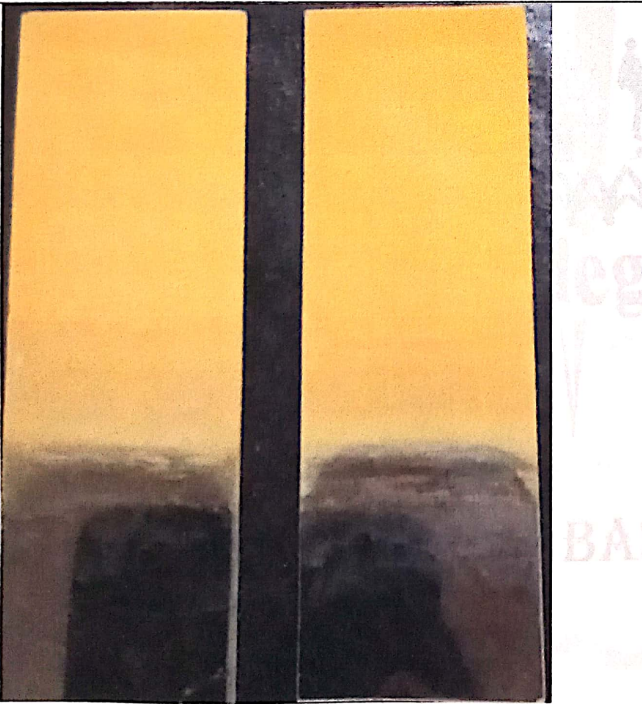
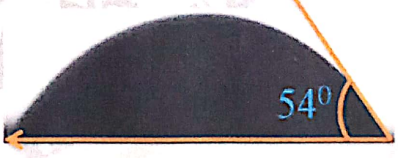


Fig. 1: Photographs of CTS Thin film

❖ **Future work**

Thin film photographs	Contact angle
 <p>Two vertical rectangular samples showing a uniform, dark brown thin film coating the bottom portion of the substrate.</p> <p>CTS</p>	 <p>A diagram showing a dark circular droplet on a surface. The contact angle is labeled as <math>145^\circ</math>. The label "CTS" is positioned to the left of the droplet.</p>
 <p>Two vertical rectangular samples showing a yellowish-orange thin film coating the top portion of the substrate, with a dark brown film at the bottom.</p>	<p>Mn-CTS</p>  <p>A diagram showing a dark, semi-circular droplet on a surface. The contact angle is labeled as <math>54^\circ</math>.</p>

# Punyashlok Ahilyadevi Holkar Solapur University, Solapur

## BA III Sem. VI Skill Oriented Subject

### Indian History for Competitive Examinations

Credits - Theory: 3 Project/Report: 1 Total: 4

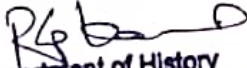
Total Periods: 60

#### Preamble:


Competitive examinations has become an essential part of government, semi-government and private sector jobs. Many students study with the dream of achieving success in these various examinations but most of the students do not get proper guidance. Easy study techniques and the ability to give accurate answers are not mastered. The result is failure in competitive examinations. The study units of Indian history of many competitive examinations have been placed at different levels in compulsory and optional form. Students will be able to better prepare for the history study units for various competitive examinations if develop skills like examination scope, nature of questions, suitable study methods for correct answers, self-study techniques, availability of reference books and their use as per the scope of the examination. Since this paper is to be studied in the final semester of the final year of graduation, they will acquire important skills at the right time. This skill oriented subject will be used by the students to get appointments through various competitive examinations, to work in competitive exam. Centers as well as private guides and to give lectures and speeches using lecture series, ceremonies and social media.

#### Objectives:

1. To aware the students about various competitive examinations
2. To facilitate the students to take up the challenges of appearing for competitive examinations.
3. To get the information about the exams conducted for the entry into jobs
4. To explain the various important events in Indian history.
5. To develop self-study techniques of history subject useful for competitive examinations.

  
Head, Department of History  
KNBAC & VPS College, Bhosare.

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I/c. Principal  
K.N. Bhise Arts, Commerce &  
Vinayakrao Patil Science College  
Vidyanagar Bhosare, Dist-Solapur



**Learning Outcomes:**

1. Understand various opportunities in competitive examinations.
2. Students will be aware of the competitive examinations
3. History knowledge Utilize for professional jobs.
4. Skills will be develop for self-study of history units suitable for various competitive examinations.
5. Students knows History subject importance UPSC, MPSC, Staff selection Bank, Railway, Army, Police, Post office etc. Examination.

**Chapter I. Introduction to Various Competitive Examinations. 10**

1. UPSC Examinations.
2. MPSC Examinations
3. Staff selection, Bank, Railway, Army, Police, Post Office  
etc. Examinations.

**Chapter II. Ancient Indian History for Various competitive exams. 10**

1. UPSC Examinations. (Preliminary and mains)
2. MPSC Examinations. (Preliminary and mains)
3. Other Examinations.

**Chapter III. Medieval Indian History for Various competitive exams 10**

1. UPSC Examinations. (Preliminary and mains)
2. MPSC Examinations. (Preliminary and mains)
3. Other Examinations.

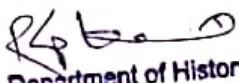
**Chapter IV. Modern Indian History for Various competitive exams. 10**

1. UPSC Examinations. (Preliminary and mains)
2. MPSC Examinations. (Preliminary and mains)
3. Other Examinations.


**ProjectReport: 20**

- Students should get information about reference books and periodicals on Indian history available in their nearest libraries. Among them, read the components of Indian history study which are useful for competitive examinations and submit a brief report of the work done to the concerned teacher.

OR

  
Head, Department of History  
KNBAC & VPS College, Bhosare.

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I/c. Principal  
K.N.Bhise Arts, Commerce &  
Vinayakrao Patil Science College  
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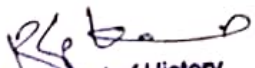
- Students should collect Indian history questionnaires from various competitive examinations previous question papers, sample question papers from libraries, competitive exam. Guidance centers as well as competitive examinations related websites and find out the answers to those questions and submit a brief report to concerned teacher.

### Evaluation Method:


The University examination for this course will be of 40 marks. Nature of the question paper and criteria for passing will be the same as other subjects for B. A. III Sem. VI. Internal assessment is for 10 marks and a minimum of 04marks is required for passing. Students should submit a project report of at least five pages in writing to the concerned teacher for Internal Evaluation.

### List of Reference:

- 1) [www.upsc.gov.in](http://www.upsc.gov.in) Examination patterns and syllabus
- 2) [www.mpssc.gov.in](http://www.mpssc.gov.in) Examination patterns and syllabus
- 3) Other examination websites and direct recruitment patterns and syllabus
- 4) Bhide Gajananan, Pracheen Bharat (Marathi)
- 5) Chandra Bipan, Adhunik Bharat ka Itihas (Hindi)
- 6) Chandra Bipan, India After Independence 1947-2000
- 7) Chandra Satish, History of Medieval India
- 8) Dhavale, Bargal, Madhyayugin Bharat (Marathi)
- 9) Gathal S. S., Bharatiya Rashtriya Chalvalicha Itihas (Marathi)
- 10) Habib Irfan, Medieval India
- 11) Mujumdar R. C. Ancient India
- 12) Kathare Anil, Adhunik Maharashtracha Itihas (Marathi)
- 13) Pawar Jaishingrao, Bhartiya Swatantrya Chalvalicha Itihas
- 14) Pawar Jaishingrao, Marathi Samrajyacha Uday ani Asta (Marathi)
- 15) Sharma R. S., India's Ancient Past
- 16) Singhanian Nitin, Indian Art and Culture
- 17) Saradesai, Nalawde, Adhunik Bhartacha Itihas (Marathi)
- 18) Thapar Romila, A History of India
- 19) Vaidya Suman, Kothekar, Aphonik Bhartacha Itihas (Marathi)

  
Head, Department of History  
KNBAC & VPS College, Bhosare.

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I/c. Principal  
K. N. Bhise Arts, Commerce &  
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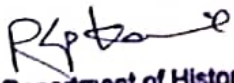



माढा तालुका शिक्षण प्रसारक मंडळ  
के. एन. भिसे आर्ट्स कॉमर्स अँड विनायकराव पाटील सायन्स कॉलेज  
विद्या नगर भोसरे  
इतिहास विभाग  
शैक्षणिक वर्ष - 2023-24

सूचना

बी. ए. III वर्षाच्या इतिहास विषय असणाऱ्या सर्व विद्यार्थ्यांना सुचित करण्यात येते की, दर वर्षाप्रमाणे 2023-24 या शैक्षणिक वर्षात इतिहास विभागाच्या माध्यमातून ADD ON Course अंतर्गत 'Indian History for Competitive Examination.' या विषयावर Field Project घेण्यात येणार आहेत. तरी सर्व विद्यार्थ्यांनी दि.17.04.2024 पर्यंत Field Project चे रेकॉर्ड Prof. B. R. Shejul यांच्याकडे जमा करावेत.

अ. क्र.	प्राध्यापकाचे नाव	वर्ग	स्वाक्षरी
01	Prof. B. R. Shejul	B. A. III	

  
Head, Department of History  
KNBAC & VPS College, Bhosare.

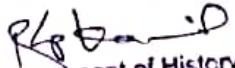
  
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Ajdvanagar Bhosare, Dist-Solapur.

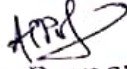
Madha Taluka Shikshan Prasarak Mandal's  
K.N. Bhise Arts, Commerce and Vinayakrao Patil Science College,  
Vidyanagar, Bhosare

Department of History  
Student List of Field Project  
Year 2023-2024

Programme Title - The Study of Various Competitive Examinations. Class – B. A. III

Sr. No	Name of the Students	Name of the field Project	Signature
1	Miss. Divate Anita Ashok	The Study of Various Competitive Examinations.	
2	Miss. Bhangе Apeksha Avinash	The Study of Various Competitive Examinations.	
3	Mr. dhayagude Rushikesh Bhagvat	The Study of Various Competitive Examinations.	
4	Miss. Navgire Prajakta Vasant	The Study of Various Competitive Examinations.	
5	Mr. Godase Pruthviraj Dyaneshwar	The Study of Various Competitive Examinations.	
6	Mr. Parekar Ritesh Shidheshwar	The Study of Various Competitive Examinations.	
7	Mr. Bagal Prathamesh Shivaji	The Study of Various Competitive Examinations.	
8	Mr. Chandane Abhishek Ravindra	The Study of Various Competitive Examinations.	
9	Miss. Gaikwad Tanuja Namdev	The Study of Various Competitive Examinations.	
10	Miss. Jagtap Nisha Rajendra	The Study of Various Competitive Examinations.	
11	Mr. Godgire Somnath	The Study of Various Competitive Examinations.	
12	Miss. Kamble Bhagyshri Changdev	The Study of Various Competitive Examinations.	

  
Head, Department of History  
KNBAC & VPS College, Bhosare.

  
I/c. Principal  
K.N. Bhise Arts, Commerce &  
Vinayakrao Patil Science College  
Vidyanagar Bhosare, Dist-Solapur



Madha Taluka Shikshan Prasarak Mandal's  
**K. N. Bhise Arts, Commerce and Vinayakrao Patil Science College,**  
**Vidyanagar Bhosare**  
Department of History  
Report of Field Project  
Year:- 2023-24

**Title of field project – Indian History for Competitive Examination**

Department of History conducted field project for BA-III year students for the Academic Year 2023-24. Department has allotted Field project among the students on February, 2024 who keep history as their special subject. One research topic which was prescribed by University was given to students. Information was given in classroom while teaching about Nature and Steps of field project. Department provided topic related books form departmental library.

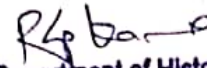
12 students completed their Field project. Most of the topics are related to the Indian history and their importance for Competitive Examination.

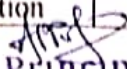
• **Objectives of Field project work:-**

- 1] Introduce the relation Indian history and Competitive Examination for the students.
- 2] To aware the students about various Competitive Examination.
- 3] To facilitate the students to take up the challenges of appearing for Competitive Examination.
- 4] To gate the information about the exams conducted for the entry into the jobs.
- 5] To explain the various important events in Indian history
- 6] To develop self-study techniques of history subject useful for competitive examinations.

All Field project have been checked and evaluated by Mr. Pantulwar R.G head of History Department and Mr. B.R. Shejul Asst. Professor of History Department. Out of them three were best project selected as follows-

Sr. No	Name of the Students	Name of the Topic	Rank
1	Miss. Kamble Bhagyashri Changdev	Indian History for Competitive Examination	1 <sup>st</sup>
2	Miss. Divate Anita Ashok	Indian History for Competitive Examination	2 <sup>nd</sup>
3	Miss. Bhangе Apeksha Avinash	Indian History for Competitive Examination	3 <sup>rd</sup>

  
**Head, Department of History**  
KNBAC & VPS College, Bhosare.

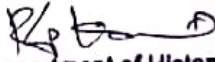
  
**I/c. Principal**  
K.N.Bhise Arts, Commerce &  
Vinayakrao Patil Science College  
Vidyanagar Bhosare, Dist-Solapur




### **Learning Outcomes:**

1. Understand various opportunities in competitive examinations.
2. Students will be aware of the competitive examinations
3. History knowledge Utilize for professional jobs.
4. Skills will be develop for self-study of history units suitable for Various Competitive Examinations.
5. Students knows History subject importance UPSC, MPSC, Staff Selection Bank, Railway, Army, Police, Post office etc. Examination

Assessment of all Field Projects was done by Dr. Pantulwar R.G Head of the Department Prof. Shejul B.R. Assistant Professor of Department has given proper guidance and mentorship to the students for drafting and completing project work.

  
Head, Department of History  
KNBAC & VPS College, Bhosare:

  
I/c. Principal  
K.N. Bhise Arts, Commerce &  
Vinayakrao Patil Science College  
Vidvanagar Bhosare, Dist-Solapur

Madha Taluka Shikshan Prasarak Mandal's  
K.N. Bhise Arts, Commerce and Vinayakrao Patil Science College,  
Vidyanagar, Bhosare

Department of History  
Student List of Field Project  
Year 2023-2024

Programme Title - The study of various Competitive Glass - B. A. III  
Examination.

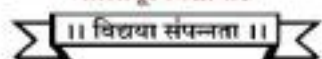
Sr. No	Name of the Students	Name of the field Project	Signature
1	दिपटे अनिता अशोक	---	<i>[Signature]</i>
2	भांगो अपेक्षा अविनाश	---	Brange
3	धायगुडे अश्विनेश भागवत	---	<i>[Signature]</i>
4	जवगिरे प्राजक्ता वसंत	---	<i>[Signature]</i>
5	गोडसे पृथ्वीनाज शनिेश्वर	---	<i>[Signature]</i>
6	पारेकर दिलेश सिद्धेश्वर	---	<i>[Signature]</i>
7	बागल प्रथमेश शिवाजी	---	P. S. Bagal
8	चांदणे अश्विनेश रविंद्र	---	<i>[Signature]</i>
9	सिन्धुता जयशंकर जयशंकर	---	<i>[Signature]</i>
10	निशा रजिंद्र जगताप	---	<i>[Signature]</i>
11	गोंडागिरे सोमनाथ	---	Gondage
12	कांबळे भाव्यसि चांगदेव	---	Kamble

*[Signature]*  
Head, Department of History  
KNBAC & VPS College, Bhosarc.

*[Signature]*  
I/c. Principal  
K.N. Bhise Arts, Commerce &  
Vinayakrao Patil Science College  
Vidyanagar Bhosare, Dist-Solapur



पुण्यश्लोक अहिल्यादेवी होळकर  
सोलापूर विद्यापीठ



NAAC Accredited-2022  
'B++' Grade (CGPA-2.96)

**Punyashlok Ahilyadevi Holkar Solapur University, Solapur**  
**Name of the Faculty: Science & Technology**

## **CHOICE BASED CREDIT SYSTEM**

**Syllabus: Geography**

**Name of the Course: B. A. /B. Sc. Part- III (Sem. V & VI)**

**(Syllabus to be implemented from June 2024)**

**PUNYASHLOK AHILYADEVI HOLKAR SOLAPUR  
UNIVERSITY, SOLAPUR  
Bachelor of Arts (B. A.)**

**B. A. Part – III Geography (Practical Paper -II)**

1.	Title	:	Advanced Tools, Techniques & Field Work
2.	Year of Implementation	:	Revised Syllabi will be implemented from June 2021 onwards.
3.	Preamble	:	Modern science & technology have gained momentum. In the process of development of science and technology, the changing nature of subject of Geography will make aware to the students about the advanced techniques such as Remote Sensing, GIS and GPS. The application of computers has revolutionized the use of methods & techniques. The present syllabus of this paper includes study of Aerial Photographs, Remote Sensing, GIS, Application of Computer and use of field work in Geography. This will further help to improve the use of advanced techniques and methods in teaching-learning and research work.
4.	Objectives	:	<ol style="list-style-type: none"> <li>1) To introduce the students with the importance of field work and advanced Techniques in Geography.</li> <li>2) To provide training in application of modern tool and techniques in Geography.</li> <li>3) To enable the students to understand the use of computer for analysis of Geographical data.</li> <li>4) To enhance the skill of the students in instrumental survey.</li> <li>5) To give basic information to the students about Aerial Photographs, Remote Sensing, GIS and GPS.</li> </ol>
5.	Course Outcomes	:	<ol style="list-style-type: none"> <li>1. In depth understanding the importance of field work and advanced Techniques in Geography.</li> <li>2. The students are trained to implement modern tool and techniques in Geography.</li> <li>3. The students are deeply aware about the basics and trained in instrumental survey.</li> <li>4. The students are deeply familiar with computer, GIS, GPS and Remote Sensing.</li> </ol>
6.	Pattern of Exam	:	Annual
7.	Scheme of Teaching & Examination		

Sr. No.	Subjects/Papers	Teaching Scheme Hrs./Week				Examination scheme (Marks)		
		L	T	P	Total	Practical	Term work	Total (Annual)
1	Advanced Tools, Techniques & Field Work	--	--	10	10	100	--	100

**Revised Syllabus for B. A. – III (Introduced from June 2024 Onwards)**  
**Revised Syllabus for**  
**B. A. (Part III) Geography Practical Paper -II**

**Title of Paper - Advanced Tools, Techniques In Geography (Computer, Remote Sensing, GIS, GPS) & Field Work (100 Marks)**

**Unit: 1 Introduction to Computer      Lectures-50      Marks-10**

1.1: Computer Fundamentals: Definition, Characteristics, Hardware & Software. 1.2:

Application of computer in geography

: Construction of Line Graphs, Bar Graphs

: Construction of Pie Diagram and Scatter Diagram.

1.3: Significance and application of Internet in Geographical Studies.

**Unit: 2 Remote Sensing      Lectures- 50      Marks-15**

Definition, Components and Development of Remote Sensing.

Principles of Remote Sensing: EMR, Sensors and Platforms.

Application of Remote Sensing in Geography.

Aerial photographs and Satellite imagery: Definition, types

Identification of Physical and cultural features from Aerial Photographs or Satellite Imagery.

**Unit: 3 GIS and GNSS (GPS)      Lectures- 50      Marks 15**

Geographical Information System (GIS)

Definition and components

GIS Data Structure: Types (spatial and non-spatial), Raster and Vector data

Georeferencing, Digitization, Map Layout Preparation

Application of GIS in Geography: Land use or Land Cover, Urban Sprawl Analysis, Forests

Monitoring

**Global Navigation Satellite System (Global Positioning System)**

Definition and components

Application of GPS in Geography

Field work through GPS: Determining latitude, longitude and altitude

Exercise with Google earth Program

**Unit :4 Statistical methods and techniques    Lectures- 60        Marks-15**

: Geographical Data / information:

Spatial and Temporal

Individual, Discrete and Continuous Data

Analysis of data by the following statistical techniques

Measures of Central Tendency: Mean, Median and Mode

Dispersion: Mean deviation, Standard deviation and Quartile Deviation.

Correlation: Karl Pearson's Method

Analysis of Time Series: Semi-average Method and Moving average method

**Unit :5 Surveying                      Lectures- 60                      Marks-15**

Survey: Meaning and types

Preparation of plans of the given area with the following survey method (Any one method among them)

- Dumpy Level survey
- Plane Table survey (Radial, Intersection, and open and closed Traverse method)
- Abony Level Survey.
- Preparation of plans by Prismatic compass survey (Radical, Intersection and open and closed Traverse method)

5.3.1 Correction of bearing.

Preparation of plans by Chain and Tape survey (Triangulation and open and closed

Traverse method)

#### 5.4.1. Cross staff surveying

### **Unit:6 Project work based on field work (any one from below ) Marks-10**

Research Methodology

Resource, Population, Agricultural, Settlement, Environmental, Industrial, Health issues, any other issues related to local area.

(Project Report must be content of following points: Introduction – Aims – Objectives - Review of the literature - Data collection – Methodology - Data Analysis – Interpretation - Findings – Suggestions – Bibliography)

### **Unit:7 Study TourMarks-10**

Maximum 15 days at Geographical Interest in India and preparation of Excursion report.

### **Unit:8 Journal and Viva Voce Marks 10**

Note : 1. Use of stencils, log tables, computer and calculator is allowed.

2. Journal should be completed and duly certified by practical in-charge and Head of the Department.
3. Examiners should set jointly the question paper for each batch.
4. Each batch should not more than 12 students
5. Each department should have at least 2 computers, 1 printer, 1 scanner, 10 pairs of Aerial Photographs, 5 Pocket Stereoscopes, 2 Mirror Stereoscopes and 5 Remote Sensing Images.

#### **Reference:**

- Bygoot, J: An Introduction to Mapwork and Practical Geography, University Tutorial, London 1964.
- Khan MD. Zulfequar Ahmad : Text Book of Practical Geography, Concept Publishing Company, New Delhi, 1998
- Mishra, R.P. and Ramesh A. : Fundamentals of Cartography, Concept Publishing Company, New Delhi, 2000
- Monkhouse F.J. and Wilkison, H.R. : Maps and Diagrams, Mathuen. London, 1971.
- Negi., Dr. Balbir Singh : Practical Geography, KedarNath Ram Nath, Meerut, Delhi.
- Raisz, E.: Principals of Cartography, McGraw Hill Book Com., Inc, New York, 1962.

Madha Taluka Shikshan Prasarak Mandal's  
**K. N. BHISE ARTS COMMERCE AND VINAYAKRAO PATIL  
SCIENCE COLLEGE, VIDYANAGAR BHOSARE, KURDUWADI**  
Paranda Road, Kurduwadi. Tal.- Madha Dist.- Solapur, Pin.-413208 (Maharashtra)  
Email- [knbacck@yahoo.co.in](mailto:knbacck@yahoo.co.in)

Phone No:- (02183) 223245

Fax No:- (02183) 223245

No. KNBACCK/ 2023-24

Date :05/03/2024

To,  
The Principal,  
K. N. Bhise Arts, Commerce &  
Vinayakrao Patil Science College  
Vidyanagar Bhosare, Kurduwadi  
Pin - 413208

**Subject: Request to give permission for Village Survey**

Dear Sir,

With reference to above mention subject, the Geography department has planned to organize Village survey at Padsali and Laul wish to visit from 06/03/2024 and 09/03/2024. In this Village survey 16 Students and 02 Teachers will participate. All the students are of Geography department, as it is a part of their syllabus.

Kindly give the permission to organize Village Survey at Laul and Padsali for two days.

Thanking You

*APR 5/3/24*

Head Department of  
Geography  
Head. Department of Geographv

*Permission is granted for survey.*

*APR 5/3/24*

**I/c.Principal  
K.N.Bhise Arts,Commerce &  
Vinayakrao Patil Science College  
Vidyanagar Bhosare,Dist-Solapur**



**Madha Taluka Shikshan Prasarak Mandal's**  
**K. N. BHISE ARTS, COMMERCE AND VINAYAKRAO PATIL SCIENCE**  
**COLLEGE, VIDYANAGAR, BHOSARE**  
**Department of Geography**  
**Field Project Report**  
**Year-2023-24**

Department of Geography conducts so many Programmes such as, Guest lectures, Seminars, Conferences and study tour for the students to enrich their subject knowledge, improve their stage daring and to mold their career for bright future. As well as department tries to create awareness among the students about social values and their responsibilities to protect environment. Because of that department of geography distribute the project work among the students.

Thus, in 06 January, 2024 Department has allocated project work among the student of B.A.III. and actual field survey was carried out at 06 March and 7 March 2024. So many project topics have been suggested by Solapur University Solapur these topics are related to present social issues and Natural hazards and local issues or problems but ultimate right has been given to students to choose their topic as per their interest, comfort and Convenient. The title of the Project work was 'The comparative study of effect of Chemical Fertilizers and Organic Fertilizers on Agriculture and on Human life A case study of Padsali and Laul village of Madha Taluka Solapur District' 'माढा तालुक्यातील लऊळ आणि पडसाळी गावातील सॅद्रिय आणि रासायनीक खतांचा मानवी जीवनावर व शेतीवर झालेल्या परिणामांचा अभ्यास' Ample information has been given in classroom while teaching about Regarding Project work, Department had provided project related e-Contents, books and Magazines from college Library.

16 students have completed their projects work. The topics was related to Geographical scenario of village or town in which students are living,

**A] Objectives of project work: -**

1. Introduce the Geographical Research Techniques for the students
2. Promote the students to research in Geographical and Social issues of their surrounding Area
3. Promote the awareness among the students about environmental, Physical and social issues by authentic sources.
4. Create awareness among the students about importance of protection and conservation of the Natural Resources.
5. Increase the Observation, Description and interpretation capacity of the students.
6. Feed the curiosity about local issues among students and the society.
7. To prepare the students to handle the surveying equipment.

## B] Nature of the Research: -

Students have freedom to select the research topic as per their Convenience and interest. In Geographical Project Work includes Observation, Field work, Interpretation, Narration, and Description these research tools can be used by students. Observation, interview and questionnaire tools are used to collect data.

These project work have been checked and evaluated by Dr. Nagare V.B. Associate Professor of the Department of Geography and examine by P.S.A.H Solapur university Examiner.

## C] Outcome of project work: -

1. Students have become well aware about different research techniques in Geography
2. Students have become able to demarcate the Geographical and Social issues of their surrounding Area
3. Students knew to find out the major environmental problem.
4. Students aware about importance of protection and conservation of the Natural Resources.
5. From this project students become able to find out their hidden quality.
6. Students developed their quality about how to do field survey.
7. The students took the knowledge to handle the Geographical surveying equipment.
8. Students taught to draw Maps and Charts with the help of Computers.


## Photo Gallery of Field Project 2023-24



**Survey at Padsali Village Groupe - 1**



**Survey at Laul Village Groupe - 2**

  
Dept of Geography  
Head. Department of Geography

  
I/c.Principal  
K.N.Bhise Arts, Commerce &  
Vinayakrao Patil Science College  
Vidyanagar Bhosare, Dist-Solapur

Madha Taluka Shikshan Prasarak Mandal's  
**K. N. BHISE ARTS, COMMERCE AND VINAYAKRAO PATIL SCIENCE COLLEGE**  
**VIDYANAGAR, BHOSARE (KURDUWADI)**  
**DEPARTMENT OF GEOGRAPHY**

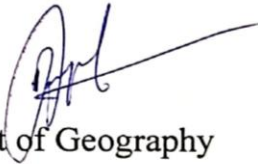
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**Geography Department B.A. III Village Survey at Padsali and Laul 2023-24**  
**STUDENTS LIST**

**Class: B.A. III Geography**

**(Academic Year 2023-24)**

<b>Sr. No.</b>	<b>NAME OF THE STUDENT</b>	<b>Contact No</b>
1	BAGAL SHIVGANGA SANJAY	9049013244
2	BAGWAN SAJJID RIYAZ	7058042447
3	BHALERAO AATESH NITIN	8459228869
4	BHONG DIPAK RUPANGAN	9370194914
5	GAIKWAD ASHWINI BALU	7888061165
6	GHADAGE RUPESH BAJRANG	7620740102
7	GHUGE AUDUMBAR SANTOSH	9022365085
8	GIRI DIPALI SHAHAJI	9850372108
9	GORE ROHAN RAJKUMAR	9096382240
10	JADHAV SANJAY HANUMANT	7796498082
11	JADHAV SANKET TUKARAM	9307249488
12	KOLI ONKAR RAJENDRA	7387074343
13	MADANE ONKAR SURYAKANT	7218063055
14	MOGAL CHAND VAJIR	8669714597
15	SATPUTE RUSHIKESH ARUN	7038957887
16	SHAIKH ALTAF AHAMAD	9307272121

  
Dept of Geography  
**Head. Department of Geography**

  
**I/c. Principal**  
**K.N.Bhise Arts, Commerce &**  
**Vinayakrao Patil Science College**  
**Vidyanagar Bhosare, Dist-Solapur**

**पुण्यश्लोक अहिल्यादेवी होळकर सोलापूर विद्यापीठ, सोलापूर**

मानवविज्ञान विद्याशाखा

बी. ए. भाग - ३ विषय - मराठी

सुधारित अभ्यासक्रम (CBCS Pattern)

शैक्षणिक वर्ष : २०२१ - २०२२, २०२२ - २०२३, २०२३ - २०२४

**सत्र पाचवे**

अभ्यासपत्रिका क्र. ७ DSE -VII : ५. १. साहित्यशास्त्र (पूर्वार्ध)

अभ्यासपत्रिका क्र. ८ DSE- VIII : ५. २. भाषाविज्ञान व व्याकरण (पूर्वार्ध)

अभ्यासपत्रिका क्र. ९ DSE- IX : ५. ३. मध्ययुगीन मराठी वाङ्मयाचा इतिहास  
इ.स. ११०१ ते १८०० (पूर्वार्ध)

अभ्यासपत्रिका क्र. १० DSE- X : ५. ४. उपयोजित मराठी (पूर्वार्ध)

अभ्यासपत्रिका क्र. ११ DSE- XI : ५. ५. आधुनिक मराठी साहित्यातील विविध  
प्रवाह (ग्रामीण व दलित)

**अभ्यासपत्रिका क्र. १० DSE- X : ५.४. उपयोजित मराठी (पूर्वार्ध)**

**गुण ४०**

**उद्दिष्ट्ये :**

१. विद्यार्थ्यांना पारिभाषिक शब्दांचा परिचय करून देवून पारिभाषिक शब्दांची नवनिर्मिती करण्यास प्रेरित करणे.
२. संगणक युगात ई मराठी लेखनाचे महत्त्व सांगून ते करण्यास प्रवृत्त करणे.
३. मुद्रितशोधनाचे महत्त्व सांगून त्याचा सराव करून घेणे.
४. स्पर्धा परीक्षेतील मराठी भाषेचे महत्त्व विद्यार्थ्यांच्या लक्षात आणून देणे.
५. स्पर्धा परीक्षेत यश संपादन करण्यासाठी विद्यार्थ्यांमध्ये भाषिक कौशल्याचा विकास करणे.

**अभ्यासक्रम :**

अ.क्र.	घटक	तासिका	श्रेयांक	गुण
१.	<b>कार्यालयीन पारिभाषिक शब्द</b> अ) पारिभाषिक शब्दांचे स्वरूप ब) कार्यालयीन पारिभाषिक शब्द क) न्यायालयीन पारिभाषिक शब्द ड) महसूल, विमा विभागातील पारिभाषिक शब्द इ) पद नामावली पारिभाषिक शब्द ई) साहित्य समीक्षा पारिभाषिक शब्द उ) उपयोजन - पारिभाषिक शब्द निर्माण करून घेऊन त्याचा संग्रह तयार करणे.	१५	१	१०
२.	<b>ई मराठी लेखन</b> अ) ई पत्र लेखन ब) ब्लॉग लेखन क) विकिपीडिया लेखन ड) मराठी कलफलक लेखन इ) उपयोजन - प्रकल्प, कार्यशाळा घेऊन लेखन सराव घेणे.	१५	१	१०
३.	<b>मुद्रितशोधन</b> अ) मुद्रितशोधन म्हणजे काय ?	१५	१	१०

	ब) मुद्रितशोधकाची भूमिका क) मुद्रितशोधकाची मराठी भाषिक कौशल्ये व कार्य ड) मुद्रितशोधकाची नियमावली इ) उपयोजन- मुद्रितशोधनाचे नमुने देवून सराव घेणे.			
४.	<b>स्पर्धा परीक्षेमधील मराठी भाषेचे महत्त्व</b> अ) विविध स्पर्धा परीक्षांचे स्वरूप व मराठी भाषेचे महत्त्व ब) स्पर्धा परीक्षांचे स्तर निहाय मराठी भाषेचे स्वरूप (वस्तुनिष्ठ प्रश्न, निबंध लेखन, सारांश लेखन, मुलाखत) क) नोकरी व्यवसायासाठी स्पर्धेला सामोरे जातानाची कौशल्ये १. वाचन कौशल्य २. श्रवण कौशल्य ३. लेखन कौशल्य ४. संवाद कौशल्य ड) उपयोजन - विद्यार्थ्यांमध्ये नोकरी मिळविण्यासाठी संवाद करण्याची क्षमता निर्माण करण्यासाठी पूर्वतयारी करून घेणे.	१५	१	१०
	<b>एकूण</b>	<b>६०</b>	<b>०४</b>	<b>४०</b>

### संदर्भ ग्रंथ :

१. व्यावहारिक मराठी - ल.रा.नसिराबादकर, फडके प्रकाशन, कोल्हापूर.
२. व्यावहारिक मराठी - स्नेहल तावरे, स्नेहवर्धन प्रकाशन, पुणे.
३. भाषिक सर्जन आणि उपयोजन - संपादक राजन गवस, अरुण शिंदे, गोमटेश्वर पाटील, दर्या प्रकाशन, पुणे.
४. व्यावहारिक मराठी - संपादक कल्याण काळे, द.दि.पुंडे
५. उपयोजित मराठी - नरेंद्र मारवाडे, कैलाश पब्लिकेशन्स, औरंगाबाद.
६. व्यावहारिक मराठी - प्रकाश परब, मिथुन प्रकाशन, मुंबई.

Madha Taluka Shikshan Prasarak Mandal's

**K.N. Bhise Arts, Commerce & Vinayakrao Patil Science College,  
Vidyanagar, Bhosare**

Paranda Road, Kurduwadi Tal-Madha Dist-Solapur Pin-413 208 (Maharashtra)

दिनांक - १०/०४/२०२४

**Department of Marathi**

**सूचना**

वरिष्ठ महाविद्यालयातील मराठी विभागातील बी.ए.भाग -३ च्या सर्व विद्यार्थ्यांना सूचित करण्यात येते की, मराठी विभागाच्या वतीने सत्र -६ मध्ये मराठी विषयाच्या संदर्भात विविध विषयावर प्रत्येक विद्यार्थ्यांस एक प्रकल्प दिला जाणार आहे तरी सर्व विद्यार्थ्यांनी आपला प्रकल्प दिनांक-१५/०४/२०२४ या तारखेपर्यंत आपला प्रकल्प मराठी विभाग प्रमुख प्रा.डॉ.पी.एस.कांबळे सर यांचेकडे जमा करावेत. प्रत्येक विद्यार्थ्यांस दिलेले प्रकल्प विषय मराठी विभागातील सूचना फलकावर लावण्यात आले आहेत .

*Appel*

प्रभारी प्राचार्य  
के.एन.भिसे आर्ट्स, कॉमर्स अँड  
विनायकराव पाटील सायन्स कॉलेज  
विद्यानगर भोसरे, जि. सोलापूर

Madha Taluka Shikshan Prasarak Mandal's

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Vidyanagar, Bhosare**

Paranda Road, Kurduwadi Tal-Mudha Dist-Solapur Pin-413 208 (Maharashtra)

**Department of Marathi**

**Students Project List - 2023-24**

Sr.No	Name of the Student	Project Name
1	ANKITA RAHUL DHAVLE	मराठी म्हणी व त्याचे अर्थ
2	VARSHA AJINATH KHUNE	मराठीच्या निवडक बोली
3	KOMAL PANNALAL SHAHA	बखर वाङ्मय
4	SHITAL ANGAD JAGTAP	मराठी वाकप्रचार
5	VASHNAVI NAGNATH SHELKE	ज्ञानपीठ पुरस्कार विजेते
6	KOMAL UMAKANT SHELAR	संत चळवळीतील कामगिरी
7	NIKITA NAVNATH JADHAV	शासकीय व्यवहारात मराठी

*APB*

प्रभारी प्राचार्य

के.एन.भिसे आर्ट्स, कॉमर्स अँड  
विनायकराव पाटील सायन्स कॉलेज  
विद्यानगर भोसरे, जि. सोलापूर



Madha Taluka Shikshan Prasarak Mandal's

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Vidyanagar, Bhosare**

Paranda Road, Kurduwadi Tal-Madha Dist-Solapur Pin-413 208 (Maharashtra)

**Department of Marathi**

**Students Project List - 2023-24**

Sr.No	Name of the Student	Sign
1	ANKITA RAHUL DHAVLE	<i>Adhane</i>
2	VARSHA AJINATH KHUNE	<i>M. Khune</i>
3	KOMAL PANNALAL SHAHA	<i>K. Shaha</i>
4	SHITAL ANGAD JAGTAP	<i>Jagtap S.</i>
5	VASHNAVI NAGNATH SHELKE	<i>V. Shelke</i>
6	KOMAL UMAKANT SHELAR	<i>K. Shelar</i>
7	NIKITA NAVNATH JADHAV	<i>Jadhav N.</i>

*APJ*

प्रभारी प्राचार्य

के.एन.भिसे आर्ट्स, कॉमर्स अँड  
विनायकराव पाटील सायन्स कॉलेज  
विद्यानगर भोसरे, जि. सोलापूर

माढा तालुका शिक्षण प्रसारण मंडळ  
के.एन.भिसे आर्ट्स, कॉमर्स अँड विनायकराव पाटील सायन्स कॉलेज  
विद्यानगर, भोसरे (कुईवाडी)

ता. माढा जि. सोलापूर.

मराठी विभाग

सन २०२३-२४


प्रकल्प लेखन अहवाल

विद्यार्थ्यांचे नाव - वर्षा आशिनाथ खुणे

वर्ग - B.A. III, रोल नं - 5630

प्रकल्प शिर्षक - मराठीच्या निवडक बोली

मार्गदर्शक प्राध्यापकाचे नाव :- प्रा.डॉ. मोहित एस. व्ही

  
प्रभारी प्राचार्य  
के.एन.भिसे आर्ट्स, कॉमर्स अँड  
विनायकराव पाटील सायन्स कॉलेज  
विद्यानगर भोसरे, जि. सोलापूर

माढा तालुका शिक्षण प्रसारक मंडळ

के.एन.भिसे आर्ट्स, कॉमर्स अँड विनायकराव पाटील सायन्स कॉलेज

विद्यानगर, भोसरे (कुईवाडी)

ता. माढा जि. सोलापूर.


मराठी विभाग


सन २०२३-२४

मार्गदर्शक प्रमाणपत्र

बी.ए.भाग-तीन

श्री./कु. .... वसुधा अजिनाथ श्युगे ..... या विद्यार्थी/विद्यार्थिनीने  
..... मराठीच्या निवडक बोव्ही ..... या विषयावर माझ्या  
मार्गदर्शनाखाली सदरील प्रकल्प काम पूर्ण केले असून, ते यापूर्वी कोठेही प्रसिध्द झाले  
नाही असे प्रमाणपत्र देण्यात येत आहे.

  
मार्गदर्शक प्राध्यापकाची  
स्वाक्षरी

  
प्रभुसे प्राचार्य  
के.एन.भिसे आर्ट्स, कॉमर्स अँड  
विनायकराव पाटील सायन्स कॉलेज  
विद्यानगर भोसरे, जि. सोलापूर

माढा तालुका शिक्षण प्रसारक मंडळ

के.एन.भिसे आर्ट्स, कॉमर्स अॅण्ड विनायकराव पाटील सायन्स कॉलेज

विद्यानगर, भोसरे (कुडूवाडी)

ता. माढा जि. सोलापूर.

मराठी विभाग

सन २०२३-२४

विद्यार्थ्यांचे निवेदन

मी.श्री. / कु. ~~वर्षा आजिनाथ खुणे~~.....

असे जाहीर करतो/ करते की, ~~मराठीच्या निवेदन बोलणी~~.....

सदरील प्रकल्प काम मी स्वतः पूर्ण केले असून, ते यापूर्वी कोठेही प्रसिध्द झाले

नाही.

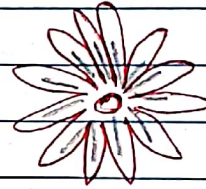
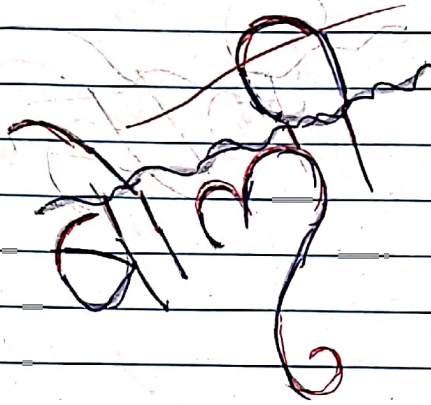


प्रभारी प्राचार्य  
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विनायकराव पाटील सायन्स कॉलेज  
विद्यानगर भोसरे, जि. सोलापूर

V.A.Khune  
विद्यार्थ्यांची सही

प्रकृत विषय  $\frac{10}{10}$

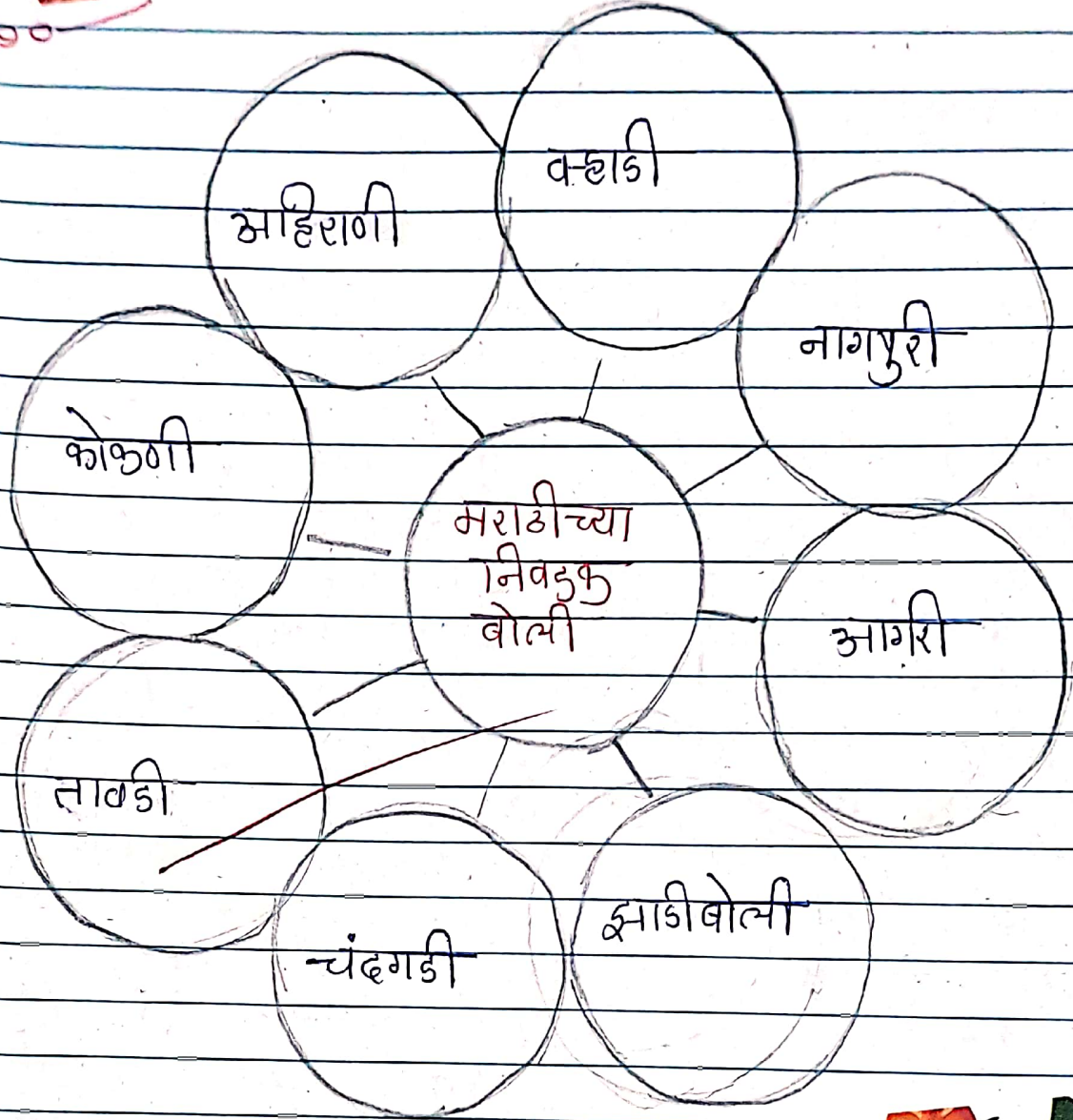
मराठीचा निवड



APR

प्रभारी प्राचार्य  
के. एन. मिसे आर्ट्स, कॉमर्स अँड  
विनायकराव पाटील सायन्स कॉलेज  
विद्यानगर भोकर, जि. सोलापूर

# मराठीच्या निवडक बोली :-



## मराठीच्या निवडक बोली विषय माहिती :-

जगातील बहुतेक प्रमुख भाषांप्रमाणेच मराठी भाषाही एकाहून अधिक पद्धतींनी बोलली जाते. मुख्य भाषेशी जाते कायम देवली, तिची पोटभाषा कर १२ षोसांगांगिक उच्चरांत, शब्दसंग्रहांत, आघातांत व वाक्य-चा-शांत बदलत राहते, असं असंल तरी लिखित भाषेत फारसा फरक नसतो.

पिढ्या नं पिढ्या विशिष्ट राज्यात स्थायिक बोलल्यामुळे मराठी भाषकांच्या यांच्या मूळ मराठी बोलीपर त्या राज्याच्या स्थानिक भाषेचा ठसा सुस्पष्टपणे उमटलेला दिसतो त्यामुळे 'मी मराठी बोलतो' असे कुणी विधान केले तर कुठली मराठी बोलता ?

असा प्रश्न आपोआपच उपास्थितच होतो कारण मूळ मराठी भाषेच व्याकरण जरी एकच असले तरी स्थानमा-हात्म्यानुसार मराठी बोलीचं कोकणी, मराठी, अहिराणी मराठीवाडी, नागपुरी असे अनेकविध प्रकार कानांवर पडतात. भौगोलिक परिसरा नुसार कोल्हापुर-चंदीगडी, जनाडीबोली, कोकणी, आगरी, नागपुरी, व-हाडी, अहिराणी, तावडी असे बोलीचं अनेक प्रकार होतात.

दुशा महाराष्ट्रात बोली जाणरी बोलीभाषा अनेक बोलल्या जातात.

मराठीच्या निवडक बोलीतील आठ  
भाषाविषयक माहिती, त्यातील एक म्हणजे

वऱ्हाडी :-

१) वऱ्हाडी :- दरवर्षी 23 फेब्रुवारीला वऱ्हाडी बोलीभाषा दिवस साजरा केला जातो. वऱ्हाडी प्रामुख्याने विदर्भाच्या वऱ्हाड भागात म्हणजेच अमरावती, अकोला, तुळदाणा, यवतमाळ, वाशीम या जिल्ह्यांच्या ग्रामीण भागात बोलली जाते. वऱ्हाड आणि मध्य प्रांतांच्या दक्षिण भागात बोलल्या जाणाऱ्या या बोलीचे क्षेत्र विस्तीर्ण असून ती मराठीहून वरीच वेगळी आहे. या बोलीचे प्रांत, जाती व छंद्यावरून उपप्रकार असे पडले असले तरी साधारणपणे ① धाटावरची वऱ्हाडी ② धाटाखालची वऱ्हाडी असे तिचे दोन मुख्य प्रकार मानतात. नागपुरी, चांदा, वात्याघाटी, धनगरी, झारणी, फतिया, कुणबी, कुंभारी, मधरी, गोवारी असे तिचे उपप्रकार आहेत.

अनुनासिकाचा उच्चार अर्धवट न करता स्पष्ट केला जातो. 'ळ' चा उच्चार 'य' होतो उदा. डोळा > डेया, जवळ > जवय इत्यादी. मी 'मी मारु' असे प्रयोग किंवा नव्हते नभत अशा स्वतंत्र लक्षणी दिसतात. नपुंसक-लिंगी एकवचनी 'ए' कटांत रूपे 'अ' करीत होते. उदा. हपोरगे > पोरग, माणसे > माणस इत्यादी.

विभक्ती प्रक्रिया मध्यवर्तीप्रमाणे असली तरी चतुर्थीच्या 'ल' प्रत्ययाऐवजी 'ल्' प्रत्यय वापरतात. उदा. माणसाले, भावले वापाले (एकवचन).



बाबाईस, भाभासाईने (अनेकवचन) पळीची स्त्री  
 मास, नुंसी तुहा, अशी निराळीच होतात.  
 'काय' ह्या प्रश्नार्थक शब्दांनाची पंचमीची  
 रूपे काढून काढून अशी होतात. ही लक्ष लक्षणीय आहे.  
 शीष्ट लोकांच्या भाषेत क्रियापदांची रूपे मध्य-  
 वर्तन मराठीप्रमाणे होतात मात्र मी असत्य मी म्हणून ही  
 भाविष्ठाकाळची रूपे भिन्न आहेत. या भाषेची आणखी  
 एक लक्ष म्हणजे स्त्रियांच्या तोंडी मी येतो मी जातो  
 असे पुल्लिंगी प्रयोग होतात. विशेष्याप्रमाणे विशेषणाचे  
 लिंग-वचन बदलण्याची मराठीची प्रवृत्ती वहाडीत नाही. तेव  
 गू प्रांत जवळ असल्याने तेवगुच्या काही लक्षी वहाडीने  
 उचलल्या. मी सही केवी, ती जेवण केला असे प्रयोग  
 केले जातात. वृद्धांची प्रत्ययान्त रूपे यरायले, करांले अशी  
 रूपे प्रत्ययांत होतात. कळन्नक्ष्यान, वोलूनक्ष्यान, म्हणूनक्ष्यान  
 अशी ल्यंबताची रूपे होतात तर काही वेळी करोन, म्हणोन,  
 वोलोन अशी 'ओन' प्रत्ययांत रूपे दिसतात.

वहाडीत बोलले जाणारे शब्द -

हाड्या (कावळ), होतोली (त्वन्न), थायली (थाळी),  
 बहिणाबाई (बहिणीचा नवरा), घुरकरी (गाडीवान),  
 दिवलाणी (पणती).

या बोलीची पाळेमुळे 12 व्या शतकातल्या  
 चक्रधर स्वामींच्या महानुभाव पंथाच्या  
 उदयापर्यंत जातात. अलीकडच्या काळातही  
 अनेक कवींनी त्यांच्या कवितांत अंशत  
 किंवा संपूर्ण वहाडीचा वापर केला.

आहे. उद्धव बोळके, मनोहर तळार, मधुकर  
 केच, गो नी हांडेकर, बाजीराव पाटील, नरेंद्र  
 इंगळे, सदानंद देशमुख, रंगेश इंगळे, उत्रादकर,  
 पुत्रघोतम बोस्कर, आणी आणि इतर अनेक असे लेखक  
 कवी आहेत की ज्यांनी या बोलीचें सौंदर्य व ताकद  
 वाढवण्यासु हातभार लावला आहे. तिसापक्षाही जास्त वर्षा  
 पासून डॉ. प्रा. विठ्ठल वाघ या बोलीत कविता लिहीत  
 आहेत. त्यांनी व्हडी बोलीवर एक शोधप्रबंध लिहिला  
 आहे. व्हडी बोलीभाषेतील मूणी हे त्यांचे प्रसिद्ध  
 पुस्तक आहे. ब. वाघ यांनी त्यांच्या काव्यगायनाद्वारे म-  
 हाराष्ट्राच्या इतर भागातही व्हडीला लोकप्रियता मि-  
 लून दिली आहे.

म्हडंभट यांचा 'लीळाचरित्र' हा मराठीतील  
 पहिला गद्यग्रंथ व्हडी बोलीत लिहिला गेला. महानुभा-  
 व पंथातील अनेक रचना याच बोलीतून झाल्या आहेत  
 प्रमाण मराठीतील 'ड' चा 'ठ' चा 'य' या बोलीत केल्या  
 जातो.

या बोली भाषेत काही उपप्रकार आहेत -

उहा, खडसी, व्हडी, देसी व्हडी, वरतील्ली, खास्ती.  
 ल्ली इत्यादी या उपप्रकारांत शोध्याफार फरकाने शब्द  
 बदलून आता उहा, वैजगाडीला देसी (देस पदवी)  
 मध्य वंडी तर खडसी (खडसपदवी) मध्य  
 'खासर' म्हणतात.

३१६

## ग नागपुरी :-

नागपुरी ही वहाडीच्या बोलीच्या एक अप्रकार मानल्या जाण असल्या आणि मराठीचीच एक पोटभाषा असली तरी वहाडी-कून ती थोडी वेगळी आहे. तिच्या नानावरून न विचे क्षेत्र लक्षात येते. नागपुरीतील काही वेगवेगळे शब्दही असतात या उदाहरणांवरून मराठीतील काही उच्चारच नाही तर काही शब्ददेखील नागपुरीत बदललेले दिसतात. शब्दांवरुन नागपुरी बोलीत काही प्रत्ययांचे व वाक्यरचनेचे वेगळेपण आढळते.

पूर्व विद्वमतील नागपूर, वधा, चंद्रपूरचा काही भाग आणि गडचिरोलीचा काही भाग तसेच भंडारा (गोंदिया) या जिल्ह्यात बोलली जाणारी नागपुरी ही काहीशी निराळी बोली आहे. तसेच मध्य प्रदेशातील शिवनी, छिंदवाडा, बालाघाट व रायपूर या भागातही ही बोली प्रचलित आहे. वहाडी आणि झाडीबोली अनेक शब्द यात असले तरी ती बोली वेगळी आहे. नागपुरीला वहाडी भाषेचेच एक रूप मानल्याने नागपुरी बोलीचा स्वतंत्र भाषिक अभ्यास झाला नाही, परंतु नवीन विचारांनुसार ही स्वतंत्र बोली मानली जाते. यावर हिंदी शब्दांचाही प्रभाव आढळतो.

नागपुरी बोलले जाणारे

शब्द :-

लेक, पोर्ट (मुल्गा); वाक् (भाजी);  
 भो (तो); दुफार (दुपार); इचार  
 (विचार); इमान (विमान); शैव  
 (पहर); उन्हारा (उन्हाळा); चित्ता (शैवांक); ढाली  
 (गाय).

नागपुरी ही भारतातील इतर खंड, उत्तरीसगड  
 ओडिशा आणि बिहार या राज्यांमध्ये बोलली  
 जाणारी इंडो-आर्यन भाषा आहे. प्रामुख्याने  
 पश्चिम आणि मध्य छोटा नागपुर पठारी प्रदेशात  
 बोलले जाते. ती कधीकधी भोजपुरीची बोलली  
 मानली जाते. छोटा नागपुर पठारातील इंडो आर्यन  
 वंशीक समूह सदनची ही मूळ भाषा आहे.

नागपुरी बोलित वाक्यरचनेचे वेगळेपण :-

१] मी काम करून राहिलो : (मी काम करित आहे)

२] मात्क माहं आयका : (मात्क माझं ऐका.)

इत्यादी.

गु आगरी :-

आगरी ही आगरातले आगरी गवळी, कुणबी शेतकऱ्यांची, खारवी, भोई यांची बोलीभाषा आहे. आगर म्हणजे भात, मीठ, नारळ, फुपारी, भाजीपाल्या, फळे व मासे खंयचन करण्याची जागा. अजसे आगर पिकाविणारा तो आगरी, मुडान आगर म्हणजे पालघर, ठाणे, मुंबई उपनगर, मुंबई आणि रायगड, रत्नागिरी ह्या जिल्ह्यांचा प्रदेश आहे.

आगरी हे क्षत्रिय आहेत बहुतेक आगरी हे दुहेरी धर्माचे हिंदू आहेत (जे हिंदू आणि शीख या दोन्ही धर्मावर विश्वास ठेवतात) आगरी खूप श्रुसिद्धीत आणि चांगले लोक आहेत. आगरी समाजाची वस्ती मुंबई शहर, मुंबई उपनगर, रायगड (पुर्वेच्या कुल्याबा), ठाणे, रत्नागिरी नाशिक ह्या जिल्ह्यामध्ये मोठ्या प्रमाणात आहे. उर्वरित कोठ्यात ह्यांची वस्ती तुरळक आहे.

आगरी ही एक जात समजली जाते. या जातीतील माससे आगरी बाली बालिव्रतच, शिवाय आगरातील

आगरी समाज, कुणबी समाज, कोळी समाज, गवळी समाज, भंडारी समाज, कुंभार समाज, भोई समाज, वाडवळ समाज, फुतार समाज, खारवी समाज या समाजांत आगरी बोली बोलतात.

आगरी वॉली भाषा ही महारा-  
 ष्ट्राच्या उत्तर आणि मध्य कोळणात  
 वॉली नाते रायगड आणि ठाणे या जिल्ह्या-  
 त आगरी वॉली जाणारा भोवा समाज आहे  
 चंद्रगडी - कर्नाटक - महाराष्ट्र शिमावती प्रदेशा-  
 तील अनेक गावांची ही भाषा  
 आहे.

## १) झाडीबोली :-

आणि गडचिरोली या चार जिल्ह्यांचा भूप्रदेश झाडीपट्टी म्हणून ओळखला जातो. या भागातील बोलीभाषेला झाडीबोली असे म्हणतात. मराठीतील 'क', 'ख', 'ग', 'घ', 'ङ' आणि 'च' ही पाच व्यंजने झाडीबोलीत वापरली जात नाहीत. विवकासिंधू, मधील अनेक अपरिचित शब्द आजही झाडीबोलीत प्रचारात आहेत. झाडीबोली नावाची एक बोली महाराष्ट्र राज्याच्या ईशान्य दिशात असल्याची काही भागात बोलीबोली जाते. या प्रदेशात बोलीबोली जाणारी मराठी संभाषेची बोली 'झाडीबोली' या नावाने प्रचलित आहे. आज या चार जिल्ह्यांशीवाय या जिल्ह्यांच्या उत्तर व पूर्व सीमेवरील मध्य प्रदेशातील वाळ्यावाट, दुर्ग व राजनांदगाव या जिल्ह्यांच्या पश्चिम सीमेवरील नागपूर जिल्ह्याचा काही भाग यांचा झाडी भाषिक प्रदेश म्हणून समावेश करावा लागतो. झाडीपट्टीच्या चार जिल्ह्यांतील वावन्न लक्ष आणि सीमाप्रदेशातील पहा लक्ष असे एकूण वासष्ट लक्ष लोक झाडीबोली बोलतात.

## झाडीवाली भाषेत कोलले जाणारे शब्द :-

आढ - भावा , अवार - जास्तीचा , ककाल -  
 कवतू , काऊन - कां म्हणून , खाती - लोहार ,  
 खास्त - खाती / खावती बाजूस , खासर - खाचर ,  
 चेंगण - चढण , तांदुर - तांदुळ , पुन्नाहुन - पुन्हा /  
 परत , बंडी - बैलगाडी , भासरा - दीर , वद्र -  
 वरती / वरचे बाजूस , इत्यादी ,

असे मिळाले या भाषेत नाव -

या भागात मोठ्या प्रमाणात वृक्ष आहेत. वयाच गावांची नावे ही झाडांच्या नावावर आधारित आहेत. त्यामुळे ही झाडी प्रदेशातील बोली म्हणून झाडी बोली या नावाने ओळखली जाते. झाडी बोलीची आजपर्यंत 27 संमेलने झाली आहेत. चक्रधर स्वामी यांनी लिहिलेल्या लिळाचरित्र आणि मुकुंदराजांनी लिहिलेले विवेकासिंधु ग्रंथात वरचे झाडीबोलीचे आढळतात.



## ३ चंदगडी -

कर्नाटक - महाराष्ट्र सीमावर्ती

प्रदेशातील अनेक गावांची ही भाषा आहे. कोल्हापूर, जिळ्यातील चंदगड भागात ही भाषा प्रचलित आहे या भूभागात दोन भिन्न भाषा - बोलींचा संपर्क विविध राजकीय अंमल मर्यादा कन्नड आणि काकणी भाषेचा प्रभावाखाली तयार झालेली ही एक बोली भाषा आहे. उच्चारणाची विशेषतः हेतु, सुरावट आणि निराळे व्याकरण हे या भाषेत दिसून येते. चंदगड तालुक्याचा पश्चिम भाग दोडामार्ग - भावतवाडी तालुक्याच्या सीमेलगतची गावे. आजरा तालुक्याच्या दक्षिण भागातील गावे ती कोणणीच्या प्रभावाने तयार झालेली बोली वापरतात. चंदगडच्या पूर्व भागात आणि वेळगाव परिसरातील गावांमध्ये कन्नड भाषेचा प्रभावाने तयार झालेली बोली वापरत आहे या मध्ये मिर्या जेवत्यो (मी जेवले) मिर्या बाजारास गेल्यो (मी बाजारात गेल्यो) अशी शब्द रचना दिसते. तसेच काठे ऐवजी खटे असा शब्द ऐकू येतो.

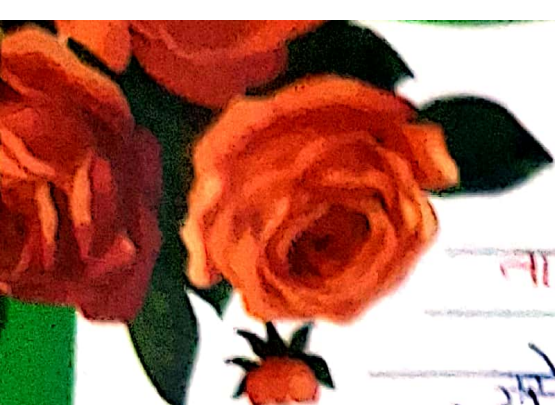
चंदगडी ही पश्चिम महाराष्ट्रातल्या चंदगड तालुक्यातील बोली आहे.

चंदगड हा महाराष्ट्रातील एक नावाजलेल्या तालुका म्हणून सर्वपरिचित आहे. चंदगड या तालुक्याच्या गावापासून पश्चिमेला केवळ २५ कि. मी अंतरावर महाराष्ट्रातील प्रसिद्ध पर्यटन स्थळ आहे.

## ७) तावडी :-

जामनेर, भुसावळ, जळगाव, वांदवर, रावर, यावय ताळुक्यात या भागांत तावडी बोली प्रचलित आहे. तावडी बोलीत मोठ्या प्रमाणात आर्य, कऱ्हाच्या जागी (ख) चा उच्चार केला जातो. उदाहरणार्थ - डोर्य (डोक), मोखा (मोक) वदिगावाइ चौधरींच्या कवितांमधून तावडी बोलीचा आविष्कार दिसतो. पूर्वा या बोलीला अहिराणी समजत असत परंतु नवीन विचारानुसार ही स्वतंत्र बोली मानली गेली.

तावडी बोली ही महाराष्ट्रातील जळगाव जिल्ह्यातल्या पाचारा व जामनेर ताळुक्यात अत्रिंठा हां- गररांगांकील प्रदेशात बोलली जात. जळगाव जिल्हाच्या पूर्व भागांत आणि मयका- पुर ताळुक्यात स्वतंत्र लवा गणवाली बोलली जात. तापी, पुगा, वाधुर आणि गिरणा या नद्यांच्या प्रदेशात बोललीव्यवसाय असलेल्या लवा पाटीवार समाजाची वस्ती आहे. या व्यवसायात मदतनीस असणाऱ्या बस बलुदेवारांनीही हीच बोली संपर्क भाषा म्हणून स्वीकारली आहे. म्हणून तिला लवा गणवाली असे संबोधले जाते. मात्र, जळगाव जिल्ह्याच्या पूर्व भागात आणि मयकापर्यंतच्या पश्चिमेत तावडी बोलली जाते.



नावडी भाषेतील शब्द :-

जसे आत्म (आत्मा होता) गेल्या (गेल्या  
 होता) पुढलोग (पुढपर्यंत), कण्ठाचा (कण्ठापासून -  
 नचा) तदलोग (तिथपर्यंत), आढलोग (इथपर्यंत)  
 पहल्ला (पहिल्या होता), शहल्ला (शहिल्या होता),  
 झाल्ला (झाल्या होता).  
 इत्यदि.



गुकोकणी :-

ठाणे, सिंधुदुर्ग, रायगड, रत्नागिरी हे जिल्हे; मुंबई व मुंबईची उपनगरे गोवा व त्याचा दक्षिणेकडील भाग या समुद्रपट्टीच्या कोकण म्हटले जाते.

या भागातील मराठीला कोकणी असे म्हटले जाते, कोकणी या नावाने बसोवखल्या जाणाऱ्या अनेक बोली आहेत.

प्रांत, जाती, संस्कृती यानुसार अनेक प्रकार कोकणात आहेत उत्तर कोकणी, मध्य कोकणी व दक्षिणेकडील कानारी किंवा गोमंतकी कोकणी असे तिचे तीन विभाग पडतात. या मुख्य विभागांचे पोटभेद अनेक आहेत हे पोटभेद प्रांतपरत्वे, जातीपरत्वे, संस्कृतीपरत्वे पडलेले आहेत यापैकी स्वतंत्र भाषा म्हणून कोकणीला मान्यता मिळावी हा वाद प्रामुख्याने गोमंतकात उफाळून आल्या त्यामुळे गोमंतकी व दक्षिण कोकणीचा विचार करू.

1510 साली गोव्यावर पोर्तुगीजांनी आक्रमण केले. गोव्याच्या जीवनावर व संस्कृतीवर त्याचा मोठा ऋ परिणाम झाला. त्यांच्या पोर्तुगीजांच्या भाषेचा तथील मूळ भाषेवर संस्कार होऊन तिच्यात अनेक पोर्तुगीज शब्द घुसविले गेले. मूळ भाषेपासून ती इतकी दूर गेली की मराठी भाषिकांला ती अजगल्या समजणे कठीण झाले. दक्षिण कोकणातील कोकणी बोली दळणवळणाच्या अभावी पोर्तुगीजांच्या व मध्यवर्ती भाषेशी संवध न आल्याने आविष्ट

अ राशिनी प्रमाण मराठीपेक्षा प्राचीन मराठीचे अवशेष तिच्यात आधीक दिसतात.

कोकणी बोलीची ह्वनिरचना मराठीला अत्यंत जुवळी आहे. कारवारफडीत कोकणीत नासिक्य उच्चारणाची पद्धत बरीच आहे. स्फोरयुक्त शब्दातील स्फोर जातो. उदा. वहीण - वीहण.

कोकणी भाषेतील शब्द :-

भुरगे (वधान मूल), फोस्क (आगपटी), घोव (नवरा), क्वट (अंड), पुण (कुत्रे), खंड (कोडे), चेडा (मुलगा)

अनेक विद्वान आणि गोमंतकाच्या अग्नि-मानी लोकांनी कोकणी ही स्वतंत्र भाषा आहे असा आग्रह धरला. डॉ. कत्रे यांनीही आपल्या प्रबंधात कोकणी ही स्वतंत्र भाषा मानली मात्र ह्वनिरचना, शब्दासिद्धी इत्यादी दृष्टीने कोकणी मराठीला जुवळी आहे हे डॉ. कत्रे मान्य करतात.

## ३) अहिराणी -

जळगाव जिल्हा, धुळे  
 नंदुरवार, नाशिक ते मध्य प्रदेशातील व-हाण-  
 पुर, शाहपूर, अंतुलीपर्यंतच्या विस्तृत भूप्रदेशात ही  
 बोलीभाषा प्रचलित आहे.

खानदेशात बोलल्या जाणाऱ्या या बोलीच्या  
 खानदेशी असेही म्हणतात. अहीर - आभीर लोकांची  
 ही भाषा असल्यामुळे तिला अहिराणी म्हणत असून  
 तरी आज तिचे क्षेत्र विशिष्ट जातींपुरत मर्यादित  
 झाले आहे. पूर्व खानदेश, पश्चिम खानदेश हे पान  
 जिल्हे, दक्षिणेकडे नाशिक जिल्ह्याच्या उत्तर हद्दीपर्यंत  
 व पूर्वेकडे व-हाणपूरपर्यंतच्या भागात ही भाषा बोलली  
 जाते. खानदेशाबाहेर नाशिक, नेमाड आणि बुलढाण्यापर्यंत-  
 च्या भागात तिचा वापर होतो. धुळे हे अहिराणीचे  
 केवळ मानले जाते मात्र केंद्रापासून पुर पुर जाताना  
 अहिराणीच्या स्वरूपातही बदल होत जाताना दिसता.  
 पावरी भिल्ली, मडशिवकी या तिच्या  
 उपभाषा होत. गुजराथीचा अहिराणीपर्यंत प्रभाव  
 डा, श्रिअसन्नन, तिला गुजराथीची पोटभाषा म्हटले  
 आहे मात्र अहिराणी भाषकाची भाषना संस्कृती, मराठी-  
 नीय वाङ्मयावद्दल त्यांना वाटणारे  
 प्रेम, ग्राधिक व शिक्षणाची भाषा  
 म्हणून त्यांच्याकडून होणारा मराठीचा  
 वापर विचारात घेता. अहिराणी-  
 च्या मराठीची बोली म्हणाव  
 त्यागत.

## अहिराणीत वोवले जाणारे शब्द :-

आळण

(आमटी), अंडोर (मुलगा) कावड (दार  
गोखव (कोनाडा), गावडी (गाय), अठे (इकडे),  
तठे (तिकडे), बळ (सर्व).

तत्सम शब्दांचा वापर अहिराणीतून फक्त  
फारसा होत नाही तद्भव शब्दांचे प्रमाण मात्र अधिक  
आहे. पोर्तुगीज, अरबी, इंग्रजी भाषेतील काही शब्द  
अहिराणीतून स्वीकारले आहेत अनेक म्हणी व वाक्-  
प्रचार अहिराणीत असले तरी त्यावर मराठीची छाप  
दिसते. उदा. आवा खाया म्हणानी वामण गया मारानी,  
धरमा नही दाना परस नगरखाना, सुकना जीव  
त्याचे वाजस हीव फुल्यानि.

*Bany*  
Head, Department of Marathi  
KNBAC & VPS College, Bhosare

*Appel*  
प्रभारी प्राचार्य  
के.एन.मिसे आर्ट्स, कॉमर्स अ  
विनायकराव पाटील सायना कॉलेज  
विद्यानगर भोसरे, जि. सोलापूर

**PUNYASHLOK AHILYADEVI HOLKAR SOLAPUR UNIVERSITY, SOLAPUR**

**B.A. Part- III**

**Subject: ECONOMICS**

**Certificate Course in Financial Markets**

**(With effect from June, 2021)**

**Total Lectures: 60**

**Total credits: 04**

**Marks: 50**

**Preamble**

This industry oriented course is specially designed for those who want to make their career in financial institutions, broking houses, research houses and depository houses. This course will assist the students who wish to work as a arbitrageur, executive or manager, investor or trader. This course provides a strong base of knowledge about financial market and its operations.

**Syllabus**

**1. Basics of Financial Markets**

**(15 Lectures)**

- 1.1 Meaning and structure of financial markets
- 1.2 Constituents of money market, Functions of money market, Role of money market
- 1.3 Role of capital market, Indian capital market, Features of capital market
- 1.4 Reforms in money market and capital market in India

**2. Types of markets**

**(15 Lectures)**

- 3.1 Equity market
- 3.2 Commodity market
- 3.3 Currency market
- 3.4 Derivatives market

**3. Stock market.**

**(15 Lectures)**

- 2.1 Meaning of stock market, Primary and secondary market
- 2.2 Functions of stock market
- 2.3 Longer term fixed-income capital markets, types of shares, Bonds
- 2.4 Link between savers and investment opportunities

**4. Stock exchanges**

**(15 Lectures)**

- 4.1 Basics of Mutual Fund, NAV, SIP, ELSS
- 4.2 National Stock Exchange
- 4.3 Bombay Stock Exchange
- 4.4 Role of SEBI





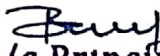
## References

1. Jitendra Gala- Guide to Indian stock market
2. Deepak Shinde- Indian stock market
3. Ankit Gala & Khushboo Gala- Fundamental analysis of shares
4. Vinod Kumar, Atul Gupta, Manmeet Kaur- Financial Markets, institutions and financial services
5. Nathan Bell- Stock market investing for beginners
6. Raghu Palat- Fundamental analysis for investors
7. Ajay Shah, Susan Thomas, Michael Gorham- Indian Financial Markets
8. M. Y. Khan- Indian financial system
9. M. Y. Khan- Financial management
10. Dart & Sundharam- Indian economy
11. Mishra & Puri- Indian economy

## Examination:

**Total Marks: 50**

**Theory Exam: 40 Marks + Project work: 10 Marks**

  
**1/c.Principal**  
**K.N.Bhise Arts, Commerce &**  
**Vinayakrao Patil Science College**  
**Vidyanagar Bhosare, Dist-Solapur**

**K. N. Bhise Arts, Commerce and Vinayakrao Patil Science College, Bhosare  
(Kurduwadi)**

**Department of Economics**

**Academic Year 2023-24**

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**Notice**

**Add-On Course for B.A. III Students**

All students of **B.A. III** are hereby informed that the **Department of Economics** is organizing an **Add-On Course** as part of the academic enrichment and continuous evaluation process.

**Attendance is mandatory** for all students. Kindly ensure your participation and adhere to the given schedule. For further details or clarifications, please contact the Department of Economics.

Date: 15/04/2024

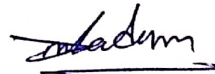
  
Head, Department of Economics

Head, Department of Economics  
KNBAC & VPS College, Bhosare.

1) Dr. Survase N. A.



2) Dr. Kadam D. M.





Madha Taluka Shikshan Mandal's



**K. N. BHISE ARTS, COMMERCE AND VINAYAKRAO PATIL SCIENCE  
COLLEGE, VIDYANAGAR, BHOSARE**

Tal- Madha, Dist.- Solapur, Maharashtra. (India)

NAAC Accreditation 'A' Grade

Affiliated to


**Punyashlok Ahilyadevi Holkar Solapur University, Solapur**

## Certificate


This is to certify that RUSHIKESH BALAK THORAT

*Has satisfactorily completed the Certificate Course in Financial Markets prescribed  
by the Punyashlok Ahilyadevi Holkar Solapur University, Solapur in the  
department of Economics of the college during the academic year 2023-2024 with  
grade A | B | C*

Date 15/03/2024

  
Signature of Faculty



  
I/c. Principal  
Signature of Principal  
**K.N. Bhise Arts, Commerce &  
Vinayakrao Patil Science College  
Vidyanagar Bhosare, Dist- Solapur**



K.N. Bhise Arts, Commerce & Vinayakrao Patil Science  
College, Vidhyanagar, Bhosare, Kurduvadi.

Project name:- BOMBAY STOCK EXCHANGE.

## BOMBAY STOCK EXCHANGE (BSE)



- Student name :- Rushikesh Balak Thorat
- Class:- BA 3<sup>rd</sup> Year
- Roll No.:- 5620
- Subject Name:- Economics
- Teacher Name:- Dr. Vinod Waghmare Sir.

Student signature

Teacher Signature



# INDEX CONTENTS

1) Introduction

2) History

3) Market Statistics.

4) Top 5 Companies (BSE) 2024

# INTRODUCTION

BSE Limited, also known as the Bombay Stock Exchange (BSE), is an Indian stock exchange which is located on Dalal Street, known as the Wall Street of Mumbai. It is often described as the New York of India. Premchand Roychand, it is the oldest stock exchange in Asia and also the tenth oldest in the world. The BSE is the world's 8th largest stock exchange with a market capitalization exceeding US\$4.5 trillion as of January 2024.

Capitalization exceeding US\$4.5 trillion as of January 2024.

Type - stock exchange

Location - Mumbai, Maharashtra, India

Founded - 9 July 1875; 148 years ago

Key people - Pramod Agrawal (Chairman)  
Sundararaman Ramamurthy (MD & CEO)

Currency - Indian Rupee (₹)

# HISTORY

Bombay Stock Exchange was founded by Premchand Roychand in 1857. While BSE Limited is now synonymous with Dalal Street, it was not always so. In the 1850s five stock brokers gathered together under a Banyan tree in front of Mumbai Town Hall, where Horniman Circle is now situated. A decade later, the brokers moved their location to under the banyan trees at the junction of Medaows Street and what was then called Esplanade Road, now Mahatma Gandhi Road. With a rapid, now increase in the number of brokers, they had to shift place repeatedly. At last in 1874, the brokers found a permanent location the one that could call their own. The brokers group became an official organization known as "The Native Share & Stock Brokers Association" in 1875.

On 12 March 1993, a car bomb exploded in the basement of the building during the 1993 Bombay bombings. The BSE is also a Partner Exchange of the United Nations Sustainable Stock Exchange initiative, joining in September 2012. BSE established India's

Ihx on 30 December 2016. India inx is the first international exchange in the country to launch commodity derivatives contract is gold and silver in October 2018.

BSE was demutualized and corporatized on 19 May 2007, pursuant to the BSE (Corporatization and Demutualization) Scheme 2005 notified by SEBI. It was listed on NSE on 3 February 2017.



# Market Statistics

The Bimal Jalan Committee report estimated that barely 3% of India's population invested in the stock market, as compared to 27% in the United States and 10% in China.

The Economic Times estimated that as of April 2018, 6 crore (60 million) retail investors had invested their savings in India, either through direct purchases of equities or through mutual funds.

Morgan Stanley has noted that the Indian stocks have been through four bear markets in 25 years, or since foreign investors became actively involved with Indian equities. The Economic Times estimate that the Indian stock market sees a bear market on average once every 3 years, similar to the US market. It uses the Nifty 50 index as a reference point and identifies eight 20% drops in the last 25 years.

According to SEBI, during FY 2022-23 73% of mutual fund units were redeemed within 2 years of investment units were redeemed within 2 years of investments in 31% of the units.

continued for more than 5 years.

Another study conducted by the SEBI, approximately 89% of individual (F&O) segment incurred losses during the financial year 2021-22

According to a Reserve Bank of India report mutual fund attracted 6% of household savings in FY 2023 and less than 1% went into direct equities. Almost 95% of household savings in India are held in bank deposits including fixed deposit provident fund, PPF, life insurance, and various small saving schemes and various small savings schemes.

Maharashtra accounts for the most number of investors. more than 15 million or 21 percent of registered investors with the BSE are from the state, followed by Gujarat (8.6 million) Uttar and 5.3 million, Tamil Nadu (4.3 million) and Karnataka (4.2 million) These five states account for more than half or 53 percent of all the registered investors.

# Criticism and contrsies

A number of corruption scandals, including the 1992 indian stock market scam and other, have rocked the Indian stock exchanges. At varies times numerous indian corporate groups have been charged with stock manipulation.

# See also

- 1) - Economy of india
- 2) - Economy of maharashtra
- 3) - List of stock exchange
- 4) - National Stock exchange of india
- 5) - stock market crashes in India
- 6) - list of stock market crashes and bear markets
- 7) mutual funds in india
- 8) market manipulation
- 9) market risk management
- 10) insider trading
- 11) Trading day
- 12) Securities and Exchange Board of india

## Further reading.

1) Kochhar, S (2015) BSE Journey of an Aspiring nation. Skoch media. ISBN 978-8-1929-1725-2

2) Ramkumar, S (2015) R. R. and Selvam (2014) Efficiency of BSE sectoral indices in india. A Study special reference to Bombay Stock Exchange Ltd in india. Lap Lambert Academic publishing GmbH KG. - ISBN - 97836592-1130-0

3) Kaur, H. (2002) stock market volatility in india. Lap Deep & Deep publications. ISBN - 978-8-1762-9361-7

4) Bhasya, D and Dalal, S (1993). The scam who won who lost, who got away. UBS. Publisher Distributors. ISBN - 978-8-1659-4410-4. LCCN 93902543

5) Higemath, G.S (2013) Indian stock market An Empirical Analysis of informational

Efficiency Springer Anant India . ISBN - 978-81322-1590-5 LCCN 2013996889

6) Cummings L (2014) Rethinking the BSE Crisis A Study of scientific reasoning under uncertainty Springer Netherlands - ISBN - 978-9-4017-8991-7

7) Razdan, A. Scaling in the Bombay stock market microstructure. a index pramand J Phys 58, 537-544 (2002) doi: 10.1007/s12043-002-0063-y

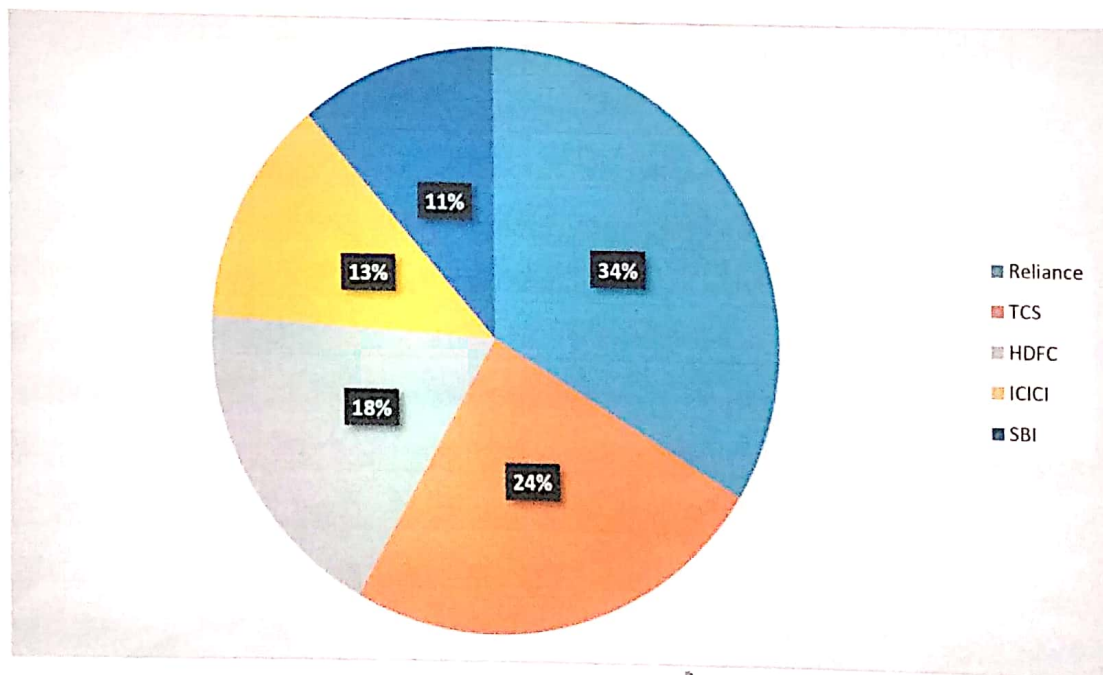
8) Goel, A, Tripathi, V. and Agrwal, M. (2021) market microstructure: a comparative study of Bombay stock exchange and national stock exchange Journal of Advances in management Research, vol 18 no. 3 pp. 414-440-2 doi: 10.1108/JAMR-06-2020-10109

9) Krishnamurti Chandrasekhar and Eswaraiah Venkat R. Liquidity, stock returns and ownership structure An Empirical study of the Bombay stock exchange (March 31, 1999) IIM-Bangalore Research paper no

## Top 5 Companies ( BSE ) 2024.

Company Name	Last Price	% Change	52 wk High	52 wk Low	Market Cap (Rs. cr)
Reliance	3,011.60	1.03	3,024.80	2,180.00	2,043,672.58
TCS	4,081.60	-0.62	4,184.55	3,070.30	1,478,947.54
HDFC Bank	1,432.20	0.13	1,757.80	1,363.45	1,087,123.34
ICICI Bank	1,091.80	0.77	1,095.35	810.50	766,143.30
SBI	772.15	-0.12	777.50	501.85	690,140.24

## Top 5 Companies Market Cap Rs.Cr.



# RELIANCE

Reliance Industry Limited is an India multinational conglomerate headquartered in Mumbai. Its business includes energy, petrochemicals, natural gases, retail, telecom, communication, mass media, and Textiles. Reliance is the largest public company in India by market capitalisation and revenue and the 100th largest company worldwide.

Reliance Commercial Corporation was set up in 1968 by Dhirubhai Ambani as a small venture firm trading commodities especially spices and polyester. In 1965 the polyester business of Ltd was incorporated in Maharashtra. It established a synthetic fabric mill in the same year at Navroda in Gujarat. On 6 May 1973 it becomes Reliance Industries Limited. In 1975 the company expanded its business.



# HDFC BANK

HDFC Bank Limited is an Indian banking and financial services company headquartered in Mumbai. It is India's largest private sector bank by assets and world's largest bank by market capitalisation as of April 2023. It is the third largest company by market capitalisation of \$ 137.16 billion on the Indian stock exchange with nearly 150,000 employees.

As of 31 March 2023, the bank's distribution network was at 7,821 branches, ATMs and issued 23,570,000 debit cards, a base of 15,25,11 permanent employees as of 30 June 2023.

# ICIC BANK LIMITED

icic Bank Limited is an Indian multinational bank and financial services company range of banking products and financial services for corporate and retail customers through a variety of delivery channels and investment capital and asset management

total term deposits insured by 11.67. year on -years and 5.37. sequentially to 2 13.3235 core and 5.3 sequentially on addition of about 460 branches during branches 1650 ATMs. cash recycling machines at

January 28 2024

# SBI

State Bank of India (SBI) a Fortune 500 company is an Indian multinational public sector banking and financial services statutory body headquartered in Mumbai.

The rich heritage and legacy of over 200 years accredits SBI as most trusted Bank by Indians through generations. State Bank of India established 1 July 1955. As per SBI Official website data SBI has 22,405 branches in India.

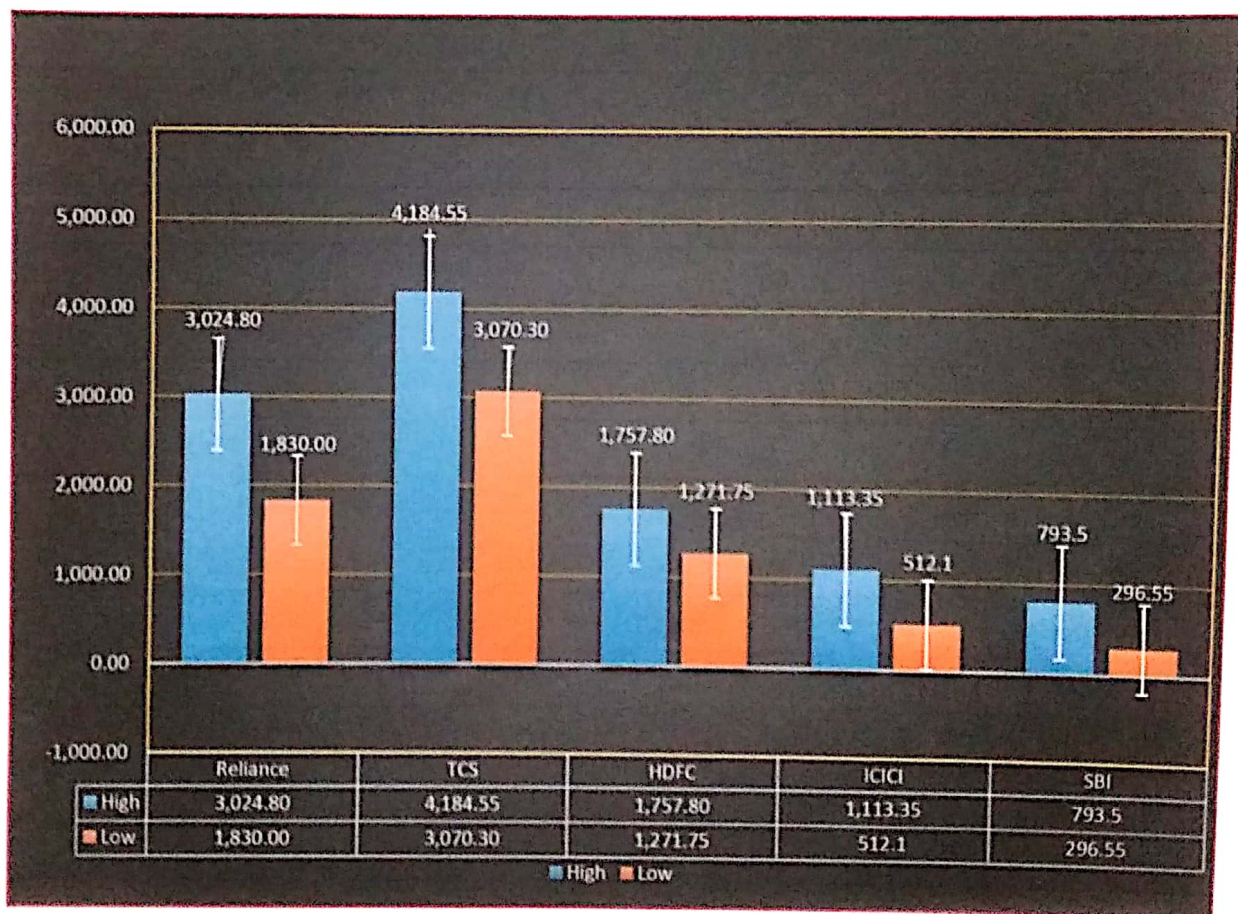
Total assets - 6,13,17,10,52,120 Crore

Number of employees - 2,40,198

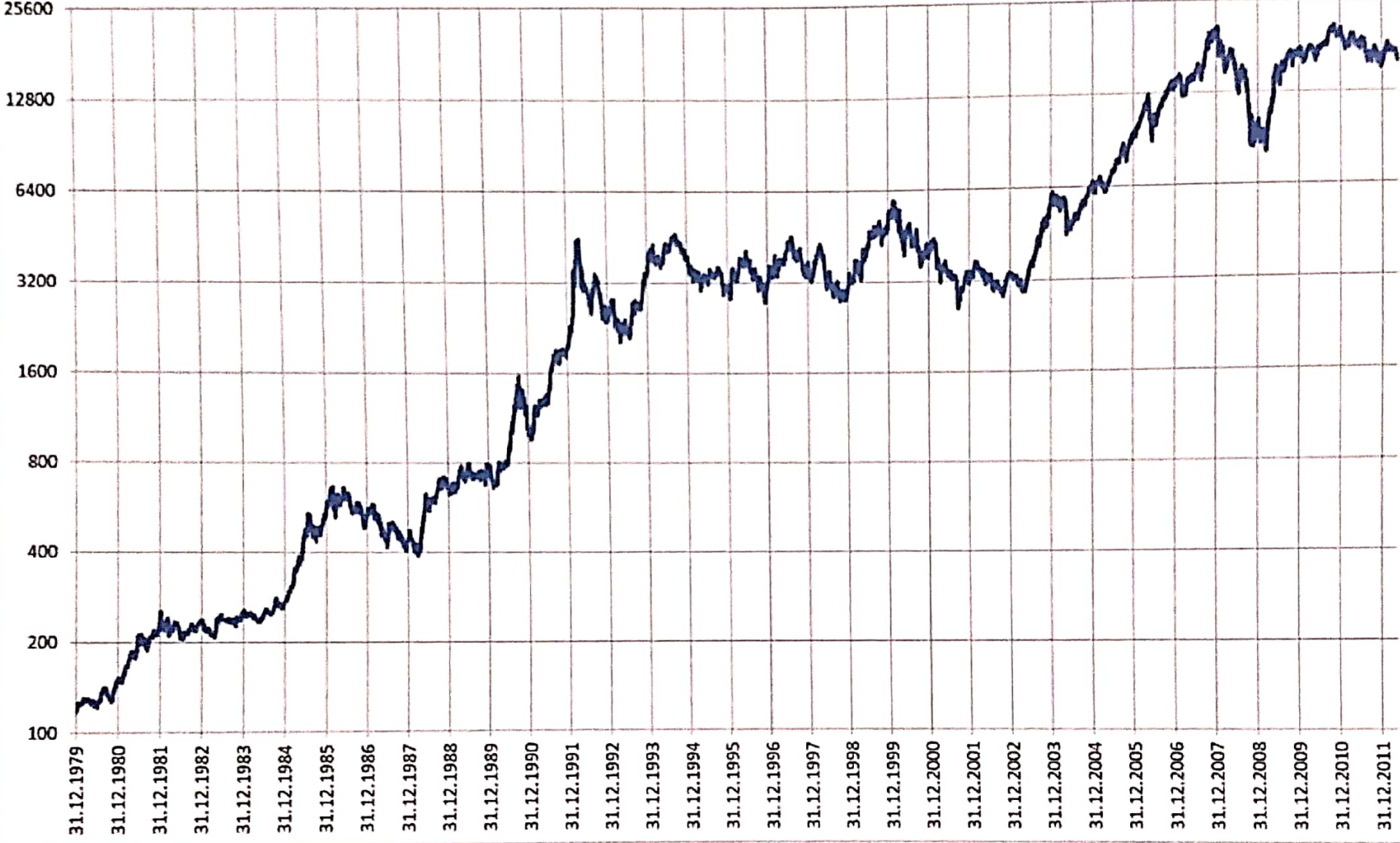
# Last prices top 5 companies in india.

Company Name	Last Price	% Change	52 wk High	52 wk Low	Market Cap (Rs. cr)
Reliance	2,958.10	-1.59	3,024.80	1,830.00	2,001,419.56
TCS	4,110.10	1.10	4,184.55	3,070.30	1,487,070.15
HDFC Bank	1,446.35	0.31	1,757.80	1,271.75	1,098,707.88
ICICI Bank	1,087.85	0.82	1,113.35	512.10	763,600.54
SBI	798.15	0.52	793.50	269.55	703,393.29

# 52 Wk High and Low.



# BSE Sensex



Madha Taluka Shikshan Prasarak Mandal's

K. N. Bhise Arts, Commerce and Vinayakrao Patil Science College, Vidyanagar,  
Bhosare.

Department of Economics

Examination - 2023-24

Class : B.A. III (Sem -VI) Subject: Certificate Course in Financial Markets

Time : 10:30 to 01:30

Date: 15/03/2024

Sr. No.	Name of the Students	Roll No.	Sign.	Marks
1.	Pratiksha Arjun Londhe	5673	Pratiksha	28
2.	Snehal Manoj Athawale	5617	sm@hamb	33
3.	Pratiksha Nagesh Arsule	5618	Pnarsule	30
4.	Harshad Sunil Mastud	5609	Harshad	32
5.	Rushikesh Balak Thorat.	5620	RThorat.	31
6.	kushish kailas kumbho	5658	kikumbho	20
7.	AKASH RAVINDRA CHANDANE	5675	@AKASH	32
8.	Chandra bhushan N. Bansode	5601	Chandra	32
9.	Bhosale vijay Baijao	5626	N-B. Bhosale	23
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**Punyashlok Ahilyadevi Holkar Solapur University, Solapur**



**Name of the Faculty: Science & Technology**

**CHOICE BASED CREDIT SYSTEM (CBCS)**

**Syllabus: Botany**

**Name of the Course: B.Sc. II (Semester III & IV)**

**(Syllabus to be implemented 2023-24)**

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### Practical- I

- 1) Study of shoot and root apex by permanent slides.
- 2) Study of simple and complex tissues with the help of permanent slides.
- 3) Study of primary structure of dicot and monocot root
- 4) Study of primary structure of dicot and monocot stem
- 5) Study of anomalous secondary growth in *Bignonia* stem by double stained micropreparation.
- 6) Study of anomalous secondary growth in *Dracaena* stem by double stained micropreparation.
- 7) Study of anatomy of porous (ring porous & diffused porous) and non porous wood by permanent slides.
- 8) Maceration technique.
- 9) Study of Epidermal tissue system.
- 10) Study of Secretary Tissue system.
- 11) Study of Mechanical tissue system.
- 12) Determination of rate of respiration during seed germination by Ganong's respirometer.
- 13) Janus green B staining technique for mitochondria.
- 14) Separation of photosynthetic pigments by ascending paper chromatography.
- 15) Study of Kranz leaf anatomy in C<sub>4</sub> plants.
- 16) Estimation of TAN value in CAM plants.
- 17) Study of evolution of oxygen during photosynthesis.
- 18) Study of carbohydrates test: reducing and non-reducing sugars.
- 19) Determination of sugar percentage by hand refractometer.
- 20) Botanical Excursion Report.



Madha Taluka Shikshan Prasarak Mandal's  
**K. N. BHISE ARTS, COMMERCE AND VINAYAKRAO PATIL  
SCIENCE COLLEGE, VIDYANAGAR, BHOSARE**  
Paranda Road, Kurduwadi, Tal-Madha Dist-Solapur Pin-413 208 (Maharashtra)  
NAAV Accredited 'A' Grade College

Ref No. KNBACVPSCVB/

Date : 13-02-2024

To,  
Head of Department,  
Department of BOTANY,  
Savitribai Phule Pune University,  
Pune.

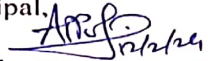
Subject : Permission to visit your department...

Respected sir,

Students of our college are interested to visit the university department of Botany, So I request to permit them to visit the various sections and research labs of your department, this will be useful for the students for their future career and attracting students to research.

Thanking you,

Principal,



**I/c.Principal**  
K.N.Bhise Arts,Commerce &  
Vinayakrao Patil Science College  
Vidyanagar Bhosare,Dist-Solapur



**K. N. Bhise Arts, Commerce and Vinayakrao Patil Science  
College, Vidyanagar, Bhosare**

**DEPARTMENT OF BOTANY**

**FIELD VISIT REPORT**

**2023-24**

Aim : To Study types of plants in Botanical garden in Botany Department of  
Savitribai Phule Pune University, Pune.


Objective of Visit :

- 1) To Give students of Botany a Practical experience of various plants.
- 2) To study the variety of plants in one place.
- 3) To study the ideal botanical garden

A Field visit was organised on 13/02/2024 by Botany department for SYBSc students. The Field Visit was of one day return nature to Pune. 13 students and 2 teachers participated in this visit Prof. Goyal A. M. was In-charge. Trax vehicle was booked and visit started at 6.00 am in the morning and sucessfully ended at 9.00 pm. Students were picked and dropped in the college premises.



Field Visit made students aware about the different plants planted in Botanical garden, it was a good learning experience. Students could experience the management of various types of plants at one place. Botany is a subject to be studied in nature. Students were enlightened towards the biodiversity and conservation of plants.

  
I/c.Principal  
K.N.Bhise Arts,Commerce &  
Vinayakrao Patil Science College  
Vidyanagar Bhosare,Dist-Solapur

Madha Taluka Shikshan Prasarak Mandal's

**K. N. Bhise Arts, Commerce and Vinayakrao Patil Science  
College Vidyanagar, Bhosare.**

Department of Botany

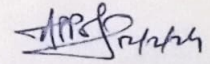
Study tour Participant list

Year : 2023 – 2024

Date : 13-02-2024

Kurduwadi to Pune

Sr. No	Name of Student
1	Shivraj Chaugule
2	Niranjan Shinde
3	Komal Pavale
4	Sakshi pawar
5	Monali Bagal
6	Tejashri Yadav
7	Supriya Dhore
8	Geeta ubale
9	Mayuri Khune
10	Megha Kabade
11	Mayuri Magar
12	Prerana Kapure
13	Shruti Mali



**I/c.Principal**

**K.N.Bhise Arts,Commerce &  
Vinayakrao Patil Science College  
Vidyanagar Bhosare,Dist-Solapur**

MADHA TALUKA SHIKSHAN PRASARAK MANDAL KURDUWADI  
**K. N. BHISE ARTS, COMMERCE AND VINAYAKRAO PATIL**  
**SCIENCE COLLEGE, VIDYANAGAR, BHOSARE**  
Department of Geography

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**Environmental Studies-(Paper Code–EVS)**

**Paper type-**Ability Enhancement Course (AECC)and Non-Credit

**Field Project Report**

**Year 2023-2024**

The importance of spreading environmental awareness is significant ineffectively addressing environmental issues. It is closely linked to environmental studies, aiming to educate individuals and social groups to become aware, acquire knowledge, develop attitudes, skills, and abilities to tackle real-life environmental problems.

According to U.G.C guidelines, Solapur University has made Environmental Studies a compulsory subject for B. Sc. - II students in affiliated U.G. colleges this year. Our college, under the geography department, conducts field visit to polluted sites and urban/rural/industrial/agricultural areas to enhance subject knowledge regarding environmental issues and their solutions with subject knowledge, field survey methods, and create awareness about social values and environmental responsibilities.

In March 2024, the department assigned project work to B. Com - II students. The topics covered various present social issues, natural hazards, and local problems, with students having the freedom to choose topics based on their interest, comfort, and convenience. The department provided project-related e-contents, books, and magazines from the college library. This year, 58 students have completed their fieldwork, choosing topics related to environmental pollution in the village where they live.

**A] Objectives of field work: -**

1. Introduce the Visit to a local polluted site--Urban/Rural/Industrial/Agricultural.
2. Encourage students to research geographical and environmental issues in their surrounding area.
3. Raise awareness among the students about environmental, physical, and social issues using reliable sources.

4. Create awareness among the students about importance of protection and conservation of the Natural Resources.
5. Enhance the students' capacity for observation, description, and interpretation.
6. Foster curiosity about local issues among students and the society.
7. To make hands on training to operate equipment's used while survey.

**B] Nature of the Research: -**

Students have the freedom to choose a research topic based on their interests. Environmental fieldwork involves observation, fieldwork, interpretation, narration, and description, which are research tools that students can use. Observation, interviews, and questionnaires were used to collect data. The working field was checked and evaluated by Dr. Patil Ranjeet Raosaheb and Dr. Nagare V. B., Associate Professors of the Geography Department, who guided the students.

**C] Outcomes of project work:-**

1. To provide every student with opportunities to acquire the knowledge, values, attitudes, commitment, and skills needed to protect and improve the environmental circumstances.
2. Students have become able to demarcate the geographical and environmental issues of their surrounding area.
3. Students know how to find out the major environmental problems.
4. They are aware of the importance of the protection and conservation of natural resources.
5. From this project, students become able to discover the hidden qualities
6. They develop their skills related to field work.
7. The students gain knowledge and awareness about environmental issues.



**Research Supervisor**



**Head of Department**  
Head. Department of Geography



**I/c. Principal**  
K.N.Bhise Arts, Commerce &  
Vinayakrao Patil Science College  
Vidyanagar Bhosare, Dist-Solapur

Madha Taluka Shikshan Prasarak Mandal's  
**K. N. BHISE ARTS, COMMERCE AND VINAYAKRAO PATIL SCIENCE COLLEGE**  
**VIDYANAGAR, BHOSARE (KURDUWADI)**  
**DEPARTMENT OF GEOGRAPHY**

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**STUDENTS LIST**

**Class–B.Sc.–II - Environmental Studies**  
(Paper Code– EVS)

**Academic Year-2023-24**

<b>Sr. No.</b>	<b>Seat No.</b>	<b>Name of the Students</b>
1	328310	Anantkwalas Sankia Arjun
2	328310	Asware Nandini Satish
3	328310	Bagal Monali Ramchandra
4	328310	Bagal Rutuja Rajkumart
5	328310	Bansode Tejaswini Sanjay
6	328310	Bhagyavant Mohini Baliram
7	328310	Bhoge Saurabh Balasaheb
8	328310	Chaugule Shivraj Ashok
9	328310	Chavan Nikita Balaji
10	328310	Chavan Pragati Balasaheb
11	328310	Chopade Raj Mahadev
12	328310	Dalwale Arshiya Aklakh
13	328310	Dhore Supriya Suresh
14	328310	Dikole Sahil Pandit
15	328310	Dongare Saurav Mahadev
16	328327	Gajare Sangram Savata
17	328329	Ghadage Manasi Hanumant
18	328331	Ghodake Mangesh Manoj
19	328332	Godase Shubham Laxman
20	328333	Gunjal Sapana Sunil
21	328334	Hande Ranjit Narayan
22	328335	Hande Rupali Naganath
23	328336	Jadhav Sushant Tukaram
24	328337	Kabade Meghana Sudhir
25	328338	Kadam Samruddhi Santosh
26	328339	Kale Jayshri Santosh
27	328340	Kambale Harshallaxman
28	328341	Kapare Pallavi Somanath
29	328342	Kapure Prerna Tanaji
30	328343	Khare Arati Vilas
31	328344	Khedkar Aishwarya Maruti

32	328345	Khune Mayuri Mahadev
33	328346	Kshirsagar Shravani Sudhir
34	328347	Kshirsagar Supriya Sudhir
35	328349	Madane Shital Shivaji
36	328350	Magar Mayuri Hanumant
37	328351	Mali Rohit Dattataray
38	328352	Mali Shruti Shankar
39	328353	Mali Shubhankar Madhav
40	328354	Mali Vishal Navnath
41	328355	Meher Sayli Sanjay
42	328356	Nimalkar Sakshi Vitthal
43	328357	Parbat Laxman Dattatraya
44	328358	Parbat Udayraje Pandit
45	328359	Patil Rutuja Satish
46	328360	Pavalekomal Amol
47	328361	Pawar Sakshi Kartik
48	328362	Shaikh Ayesha Majjid
49	328363	Shinde Niranjn Navnath
50	328364	Shinde Shivratna Sharad
51	328365	Shinde Udaykumar Vishinu
52	328366	Ubale Anket Parmeshwar
53	328367	Ubale Gitanjali Rajendra
54	328368	Vasekar Pallavi Lahu
55	328369	Vaykule Aniket Mukund
56	328370	Vyavhare Onkar Dilip
57	328371	Yadav Tejashri Chandrakant
58	340757	Devkate Niranjan Siddheshwar



**Research Supervisor**



**Head. Department of Geography**

**Head of Department**



**I/c.Principal  
K.N.Bhise Arts, Commerce &  
Vinayakrao Patil Science College  
Vidyanagar Bhosare, Dist-Solapur**

**Principal**



MADHA TALUKA SHIKSHAN PRASARAK MANDAL KURDUWADI  
**K. N. BHISE ARTS, COMMERCE AND VINAYAKRAO PATIL  
SCIENCE COLLEGE, VIDYANAGAR, BHOSARE**  
Department of Geography

---

**Environmental Studies-(Paper Code–EVS)**

**Paper type-**Ability Enhancement Course (AECC)and Non-Credit

**Field Project Report**

**Year 2023-2024**

The importance of spreading environmental awareness is significant ineffectively addressing environmental issues. It is closely linked to environmental studies, aiming to educate individuals and social groups to become aware, acquire knowledge, develop attitudes, skills, and abilities to tackle real-life environmental problems.

According to U.G.C guidelines, Solapur University has made Environmental Studies a compulsory subject for B. Com - II students in affiliated U.G. colleges this year. Our college, under the geography department, conducts field visit to polluted sites and urban/rural/industrial/agricultural areas to enhance subject knowledge regarding environmental issues and their solutions with subject knowledge, field survey methods, and create awareness about social values and environmental responsibilities.

In March 2024, the department assigned project work to B. Com - II students. The topics covered various present social issues, natural hazards, and local problems, with students having the freedom to choose topics based on their interest, comfort, and convenience. The department provided project-related e-contents, books, and magazines from the college library. This year, 41 students have completed their fieldwork, choosing topics related to environmental pollution in the village where they live.

**A] Objectives of field work: -**

1. Introduce the Visit to a local polluted site--Urban/Rural/Industrial/Agricultural.
2. Encourage students to research geographical and environmental issues in their surrounding area.
3. Raise awareness among the students about environmental, physical, and social issues using reliable sources.

4. Create awareness among the students about importance of protection and conservation of the Natural Resources.
5. Enhance the students' capacity for observation, description, and interpretation.
6. Foster curiosity about local issues among students and the society.
7. To make hands on training to operate equipment's used while survey.

**B] Nature of the Research: -**

Students have the freedom to choose a research topic based on their interests. Environmental fieldwork involves observation, fieldwork, interpretation, narration, and description, which are research tools that students can use. Observation, interviews, and questionnaires were used to collect data. The working field was checked and evaluated by Dr. Patil Ranjeet Raosaheb and Dr. Nagare V. B., Associate Professors of the Geography Department, who guided the students.

**C] Outcomes of project work:-**

1. To provide every student with opportunities to acquire the knowledge, values, attitudes, commitment, and skills needed to protect and improve the environmental circumstances.
2. Students have become able to demarcate the geographical and environmental issues of their surrounding area.
3. Students know how to find out the major environmental problems.
4. They are aware of the importance of the protection and conservation of natural resources.
5. From this project, students become able to discover the hidden qualities
6. They develop their skills related to field work.
7. The students gain knowledge and awareness about environmental issues.



**Research Supervisor**



**Head of Department**  
Head. Department of Geography



**I/c. Principal**  
K.N.Bhise Arts, Commerce &  
Vinayakrao Patil Science College  
Vidyanagar Bhosare, Dist-Solapur

Madha Taluka Shikshan Prasarak Mandal's  
**K. N. BHISE ARTS, COMMERCE AND VINAYAKRAO PATIL SCIENCE COLLEGE**  
**VIDYANAGAR, BHOSARE (KURDUWADI)**  
**DEPARTMENT OF GEOGRAPHY**

---

**STUDENTS LIST**

**Class–B.Com.–II Environmental Studies**  
(Paper Code– EVS)

**Academic Year-2023-24**

<b>Sr. No.</b>	<b>PRN.NO.</b>	<b>Name of the Students</b>
1	202201089025318	Aranale Vaishanvi Balkrushna
2	202201089033840	Arnale Bhagyashri Rajendra
3	202201089023714	Awane Samikshnasu Kumar
4	202201089023225	Awane Sanika Bharteshwar
5	202201089025189	Awatade Ajay Dnyaneshwar
6	202201089025413	Band Shrushti Shashikant
7	202201089025443	Band Vaishnavi Vikas
8	202201089023837	Baske Ganga Kisan
9	202201089025481	Birajdar Shubhangi Anand
10	202201089025166	Chavan Karanra Jendra
11	202201089024837	Dabade Jyotsna Rajendra
12	202201089023890	Devkar Shreiya Shshahadev
13	202201089023895	Gade Vaibhav Sudhir
14	202201089033829	Gadekar Dhiraj Suhas
15	202201089025485	Gadekar Kajal Dattatray
16	202201089025270	Ganage Abhijeet Dashrath
17	202201089023885	Harihar Karan Madhukar
18	202201089025473	Hawaladar Sourabh Navnath
19	202201089036376	Jagtap Priti Shahaji
20	202201089024984	Kadam Janhavi Sunil
21	202201089025215	Kadam Pavanraj Ratilal
22	202201089025357	Kadam Satyajit Bhaurao
23	202201089025290	Kashid Pritesh Prashant
24	202201089025488	Kole Onkar Chandrashekhar
25	202201089037212	Kothmire Abhishek Santosh
26	202201089025069	Kumbhar Snehal Vishnu
27	202201089025090	Londhe Onkar Ramchandra
28	202201089025492	Mithari Om Avinash
29	202201089035970	Ohol Prerana Mahesh
30	202201089025279	Pathan Navaj Karim
31	202201089023869	Patil Adesh Santosh
32	202201089033837	Patil Shivratna Mahadev

33	202201089025453	Patil Vaishnavi Rajesh
34	202201089023874	Sathe Rohini Hanumant
35	202201089025172	Sayyad Asif Akbar
36	202201089025385	Shaikh Mahek Shakir
37	202201089025371	Ubale Vivekanand Vinod
38	202201089025300	Yadav Rushikesh Pandurang
39	202201089025463	Yadav Sujata Madhukar
40	202201089025439	Patel Amit Shankarlal
41	202201089033833	Sharma Aditya Gopal



**Research Supervisor**



**Head. Department of Geography**

**Head of Department**



**I/c.Principal**  
**K.N.Bhise Arts, Commerce &**  
**Vinayakrao Patil Science College**  
**Vidyanagar Bhosare, Dist-Solapur**

**Principal**

MADHA TALUKA SHIKSHAN PRASARAK MANDAL KURDUWADI  
**K. N. BHISE ARTS, COMMERCE AND VINAYAKRAO PATIL**  
**SCIENCE COLLEGE, VIDYANAGAR, BHOSARE**  
Department of Geography

---

**Environmental Studies-(Paper Code–EVS)**

**Paper type-**Ability Enhancement Course (AECC)and Non-Credit

**Field Project Report**

**Year 2023-2024**

The importance of spreading environmental awareness is significant ineffectively addressing environmental issues. It is closely linked to environmental studies, aiming to educate individuals and social groups to become aware, acquire knowledge, develop attitudes, skills, and abilities to tackle real-life environmental problems.

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In March 2024, the department assigned project work to B.A.-II students. The topics covered various present social issues, natural hazards, and local problems, with students having the freedom to choose topics based on their interest, comfort, and convenience. The department provided project-related e-contents, books, and magazines from the college library. This year, 68 students have completed their fieldwork, choosing topics related to environmental pollution in the village where they live.

**A] Objectives of field work: -**

1. Introduce the Visit to a local polluted site--Urban/Rural/Industrial/Agricultural.
2. Encourage students to research geographical and environmental issues in their surrounding area.
3. Raise awareness among the students about environmental, physical, and social issues using reliable sources.

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1. To provide every student with opportunities to acquire the knowledge, values, attitudes, commitment, and skills needed to protect and improve the environmental circumstances.
2. Students have become able to demarcate the geographical and environmental issues of their surrounding area.
3. Students know how to find out the major environmental problems.
4. They are aware of the importance of the protection and conservation of natural resources.
5. From this project, students become able to discover the hidden qualities
6. They develop their skills related to field work.
7. The students gain knowledge and awareness about environmental issues.



**Research Supervisor**



**Head of Department**  
Head. Department of Geography



**I/c. Principal**  
K.N.Bhise Arts, Commerce &  
Vinayakrao Patil Science College  
Vidyanagar Bhosare, Dist-Solapur

Madha Taluka Shikshan Prasarak Mandal's  
**K. N.BHISE ARTS, COMMERCE AND VINAYAKRAO PATIL SCIENCE COLLEGE**  
**VIDYANAGAR, BHOSARE (KURDUWADI)**  
**DEPARTMENT OF GEOGRAPHY**

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**STUDENTS LIST**

**Class–B.A.–II Environmental Studies**

**Academic Year-2023-24**

(Paper Code– EVS)

Sr. No.	Seat No.	Name of the Students
1	328162	Avachar Shraddha Arun
2	328164	Awate Gauree Ramhari
3	328166	Bagal Manoj Dattatray
4	328167	Bagal Saket Shivaji
5	328168	Bagal Suraj Shrimant
6	328169	Bamane Sandhya Kedar
7	328170	Bharate Poonam Devidas
8	328171	Borade Yash Gajanan
9	328172	Chalwadi Ganesh Raju
10	328173	Chavan Kranti Mahadev
11	328174	Chavan Pruthi Virajmadan
12	328176	Dhage Dnyaneshwar Laxman
13	328177	Dhembare Gauri Basavraj
14	328178	Dhore Ganesh Dhanaji
15	328179	Gaigavali Siddharth Shri ling
16	328180	Gaikwad Gaurav Dattatray
17	328181	Gaikwad Kartik Dattatraya
18	328183	Gaikwad Pradnya Dipak
19	328184	Gaikwad Rohan Sunil
20	328185	Gaikwad Rohit Haridas
21	328186	Gaikwad Raturaj Bharat
22	328187	Gaikwad Sadhana Sugriv
23	328188	Gavali Sanjay Pandurang
24	328189	Gavali Vaishnavi Ganesh
25	328190	Godage Shrushti Dhanaji
26	328191	Gophane Sanjivani Sanotsh
27	328192	Hanwate Rani Ganesh
28	328193	Havaldar Sham Mahadev
29	328194	Jadhav Namrata Sanjay
30	328195	Jagtap Aditya Vikas
31	328196	Jagtap Sakshi Naganath

32	328197	Jagtap Saurabh Bandu
33	328198	Jamdade Raturaj Chandrakant
34	328200	Kadam Shreya Nitin
35	328201	Kale Vaishnavi Balasaheb
36	328202	Kalokhe Yash Bhanudas
37	328203	Kambale Bhagyashri Shamrao
38	328204	Kate Aditya Shrimant
39	328205	Khare Karan Gautam
40	328206	Khedkar Vishal Ambadas
41	328207	Khune Ajinkya Govind
42	328208	Lambatkar Mayuri Ashok
43	328209	Lokare Ajay Gorakh
44	328210	Londhe Priyanka Bhaskar
45	328211	Londhe Rohan Sudhir
46	328212	Mane Soham Bhagwan
47	328213	Mane Somnath Hanumant
48	328214	Mane Subhash Tukaram
49	328215	Mungase Priti Santosh
50	328216	Navale Vaishnavi Mahadev
51	328217	Parbat Mansi Rajkumar
52	328218	Patil Sakshi Tanaji
53	328220	Pawar Rutuja Anil
54	328221	Salunke Aishwarya Subhash
55	328222	Salunker Amdas Bajirao
56	328223	Salunke Rutuja Bharat
57	328224	Satarkar Aishwarya Rahul
58	328225	Shaikh Faisal Sameer
59	328226	Somukhe Nikhil Nagannath
60	328227	Sukale Vikas Shankar
61	328228	Surwase Abhijit Tanaji
62	328229	Tamboli Jamir Ilahi
63	328230	Ubale Dnyaneshwar Dattatray
64	328231	Vantale Rupali Tanaji
65	328232	Yadav Pramod Pandurang
66	340744	Davale Avinash Suresh
67	340745	Gaikwad Snehal Bajrang
68	344269	Khune Sanjay Subhash



**Research Supervisor**



**Head of Department**

  
**I/c. Principal**  
**K.N.Bhise Arts, Commerce &**  
**Vinayakrao Patil Science College**  
**Vidyanagar Bhosare, Dist-Solapur**