



Shri.KisanraoKhobragade Education Society, Armori, Dist.-Gadchiroli  
(र.स. एफ-1693-गर./१३)

**Yashwantrao Chawhan Arts, Commerce & Science  
College, Lakhandur  
Dist.-Bhandara, (M.S.), Pin- 441803**

Principal  
Dr. J. V. Dadve  
M.A., Ph.D.

E-mail: yeccl\_260112@rediffmail.com

STD : 07181  
Off:-260112  
Res.:-260585

Ref. No.

Date:


To,  
The Head,  
Department of \_\_\_\_\_  
Yashwantrao Chawhan College Lakhandur,  
Dist.- Bhandara.

**Subject : Sanction for Add-On Courses on Institutional Level.**

Sir/Madam,

With reference to your proposal for Add-On Courses on Institutional Level as mentioned below, I am to inform you that your proposal has been accepted by the Institute and your department has been granted permission to conduct the said courses on the following conditions:



  
Principal  
Y.C. College, Lakhandur  
Dist. Bhandara

Details of the Courses:

Sr. No.	Name of the Course	Duration	No. of Candidates to be admitted
1	Certificate course in Spoken English	45 days	30
2	Certificate course in Basic Computer Fundamental Courses	45 days	30
3	Certificate course in Preparation of Biofertilizers and Biopesticides	45 days	25
4	Certificate course in Pali Language Speaking Course	45 days	15
5	Certificate course in Food and Nutrition	45 days	20
6	Certificate course in Basic Concept of Accounting and Statistics	45 days	30
7	Certificate course in Environment and Water Management	45 days	35
8	Certificate course in Teaching in Marathi Language for Non-Marathi's	45 days	13
9	Certificate Course in Basic Instrumentation in Physics	45 days	25
10	Certificate Course in Techniques in Biological Research	45 days	30
11	Certificate Course in Vermiculture Technique	45 days	20
12	Certificate Course in Disaster Risk and Management	45 days	20



Principal  
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Y.C. College, Lakhanda  
Dist. Bhandara

YASHWANTRAO CHAWHAN ARTS COMMERCE AND SCIENCE COLLEGE LAKHANDUR

DEPARTMENT OF BOTANY

ADD ON CERTIFICATE COURSE

"TECHNIQUES IN BIOLOGICAL RESEARCH"

STUDENTS LIST 2022-2023

S.N.	NAME
1	ACHAL RAJU KHARKATE
2	AKASH MAHADEO TURANKAR
3	DINESH DAYARAM LALE
4	HARSHADA ANIL DOYE
5	JAGRUTI KISHOR THAKARE
6	JAGRUTI NANAJI MENDHE
7	JAYKISHOR JAGESHWAR BHUTE
8	KANCHAN DURWAS GAIYKAWAD
9	KANCHAN DURWAS GAIYKAWAD
10	KIRAN PRABHAKAR GIRHEPUNJE
11	KIRTIKUMAR ARJUN NAGPURE
12	KRUTIKA PADMAKAR RANE
13	LAXMI SHRIHARI CHUTE
14	LEENA MAHESH HUKARE
15	MANISHA JANARDHAN PARSHURAMKAR
16	MOHIT DASHARATH TAWADE
17	NEHA CHHAGANLAL LANJE
18	NEHA MANIK PARSHURAMKAR
19	NIKHITA LAXAMAN KOYADWAR
20	PRACHI ASHOK PILARE
21	PRIYA JAYDEO SARDAR
22	RAHUL RAVINDRA DHAWALE
23	ROHIT SANJAY BHUTE
24	SHANKAR LAXMAN KOYADWAR
25	SHITAL SHAMRAO ZODE
26	SHRAWANI DHAKESHWAR RAUT
27	SHUBHANGI ISTARI FUNDE
28	VAISHNAVI LAXMAN IKHAR
29	WASUDEO GHANSHYAM SAYANKAR
30	YASH NARESH RANGARI

Head

Department of Botany  
Y.C.College Lakhandur  
Dist Bhandara

**DEPARTMENT OF BOTANY**  
**ADD ON COURSE IN BOTANY**  
**TECHNIQUES IN BIOLOGICAL RESEARCH**  
SESSION 2022-2023  
SYLLABUS

- UNIT 1 : Introduction to the techniques  
Principal, types and application of
- A. Light microscope
  - B. Phase contrast microscope
  - C. Florescent microscope
- Unit 2 : Principal types and application of
- A. Scanning electron microscope
  - B. Transmission electron microscope
- Unit 3: Principal types and application of
- A. Centrifugation
  - B. Electrophoresis
- Unit 4: Principal types and application of
- A. Spectroscopy
  - B. Chromatography



COUSE COORDINATOR

DNYANESHWAR N. LANJEWAR

**Head**  
Department of Botany  
Y.C.College Lakhandur  
Dist Bhandara

Yashwantrao Chawhan Arts, Commerce & Science College,  
Lakhandur Dist.-Bhandara

Department of Chemistry

Add-On Course( Session 2022-2023)

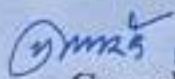
Certificate Course in Environmental & Water Management

1	ABHAY SHANKAR PRADHAN	B.SC. I YEAR
2	ABHIJIT BHOJRAJ TAMGADGE	B.SC. I YEAR
3	ABHILASH DILIP MATALE	B.SC. I YEAR
4	ACHAL DINESH JANBANDHU	B.SC. I YEAR
5	CHITRA DINESH BURADE	B.SC. I YEAR
6	CHUNNI MANOHAR DESHMUKH	B.SC. I YEAR
7	DAMINI DHANLAL RAHILE	B.SC. I YEAR
8	DEVENDRA DIGAMBAR DESAI	B.SC. I YEAR
9	DIYA PURUSHOTTAM NANDESHWAR	B.SC. I YEAR
10	GANDHARVA DHANRAJ MOHURLE	B.SC. I YEAR
11	GANGA RAVINDRA SUKHADEVE	B.SC. I YEAR
12	GAURAV DIGAMBAR ALONE	B.SC. I YEAR
13	GUNVANT SURESH TIGHARE	B.SC. I YEAR
14	HARSHWARDHAN JAGDISH KURANJEKAR	B.SC. I YEAR
15	HEMANT RAMKRUSHNA CHOUDHARI	B.SC. I YEAR
16	HITESH LALA KORE	B.SC. I YEAR
17	JANHAVI SHAMRAO THAKARE	B.SC. I YEAR
18	KAJAL KAILASH DONGARWAR	B.SC. I YEAR
19	AYUSH WAMAN MESHARAM	B.SC. I YEAR
20	BHALCHANDRA MAHADEO DIGHORE	B.SC. I YEAR
21	BHARATI PATIRAM KIRSAN	B.SC. I YEAR
22	CHETAN ASHOK GHORMODE	B.SC. I YEAR

  
Head

Department Of Chemistry  
Y.C. College, Lakhandur  
Dist-Bhandara-441902

23	CHITRA DINESH BURADE	B.SC. I YEAR
24	CHUNNI MANOHAR DESHMUKH	B.SC. I YEAR
25	DAMINI DHANLAL RAHILE	B.SC. I YEAR
26	DEVENDRA DIGAMBAR DESAI	B.SC. I YEAR
27	KUNDAN PURUSHOTTAM LENZE	B.SC. I YEAR
28	KUNDAN SATISH NAKSHINE	B.SC. I YEAR
29	LAKHAN GAJANAN RASEKAR	B.SC. I YEAR
30	LATA DHARMARAJ BOKADE	B.SC. I YEAR
31	NILESH SUNIL SHINDE	B.SC. I YEAR
32	NISHANT BHAURAV NAKTODE	B.SC. I YEAR
33	NOKESH AVINASH KHUNE	B.SC. I YEAR
34	OMDEVI PRAMOD KUTTARMARE	B.SC. I YEAR
35	VIDHAN GAUTAM BANSOD	B.SC. I YEAR

  
**Course Coordinator**


**Head**  
**Department Of Chemistry**  
**Y.C. College, Lakhandur**  
**Dist. Bhandara-441803**




**Principle**  
**Principal**  
**Y.C. College, Lakhandur**  
**Dist. Bhandara**

## Course Syllabus

Unit	Topic
Unit 1	<b>Introduction to environmental studies</b> <ul style="list-style-type: none"> <li>• Multidisciplinary nature of environmental studies</li> <li>• Scope and importance; Concept of sustainable development</li> </ul>
Unit 2	<b>Natural Resources: Renewable and Non-renewable Resources</b> <ul style="list-style-type: none"> <li>• Land resources and land use change; Land degradation, soil erosion and desertification.</li> <li>• Deforestation: Causes and impacts due to mining, dam building on environment, forests and biodiversity.</li> <li>• Energy resources: Renewable and non-renewable energy sources, Use of alternate energy sources, Growing energy needs</li> <li>• Water resources; - lake, river, pond and well</li> </ul>
Unit 3	<b>Environmental Pollution</b> <ul style="list-style-type: none"> <li>• Pollutant, Classification of Pollutant, Primary and secondary Pollution, Qualitative and Quantitative pollution, Degradable and biodegradable pollution, Natural Pollution and Artificial Pollution, Air Pollution, Soil Pollution, Noise Pollution.</li> </ul>
Unit 4	<b>Water Pollution</b> <ul style="list-style-type: none"> <li>• Water: Use And overexploitation of surface and ground water</li> <li>• Water pollution: types</li> <li>• Source of water pollution, point source or a non-source point of water pollution. Sewage and domestic waste water, Pathogens, Dye pollution, Pesticides and Herbicides Fertilizer, Petroleum Hydrocarbon, Toxic metals</li> <li>• Effect of water pollution</li> </ul>
Unit 5	<b>Water Managements</b> <ul style="list-style-type: none"> <li>• Rain Water Harvesting, Groundwater Recharge, Drip Irrigation, Sewage Water Treatment</li> <li><b>Wastewater recycling</b> Use water purification methods ultrafiltration, evaporation, precipitation, electrolytic process, solvent extraction, electro dialysis, reverse osmosis, ion exchange and adsorption.</li> </ul>
Unit 6	<b>Environmental Policies &amp; Practices</b> Environment Laws - Environment Protection Act; Air (Prevention & Control of Pollution) Act; Water (Prevention and control of Pollution) Act; The Chemical, Weapons Convention (CWC).
Unit 8	<b>Field work</b> <ul style="list-style-type: none"> <li>• Visit to an area to document environmental assets; lake, river, pond and well, etc.</li> <li>• Visit to a local polluted site – Rural/Industrial/Agricultural.</li> </ul>

  
 Course Coordinators **Head**  
**Department Of Chemistry**  
**Y.C. College, Lakhnadur**  
**Dist. Bhandara - 491008**  
 Dr. Sudhir Kumar  
 Assistant Professor Department of Chemistry  
 Email: [sudhirraj2011@gmail.com](mailto:sudhirraj2011@gmail.com)

  
**Principal**  
**Y.C. College, Lakhnadur**  
**Dist. Bhandara**

Certificate Course in Environmental & Water Management

- Course Duration :- 45 day  
Total Intake :- 35  
Eligibility of Participants :- B.Sc. -I year regular students are eligible.


Course Objectives

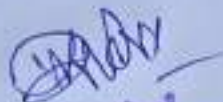
- **Awareness:** To acquire an awareness and sensitivity to the total environment and water management
- **Knowledge:** To gain a variety of experiences in and acquire a basic understanding of the environment and water management and its associated problems;
- **Skills :** To acquire the skills for identifying and solving environmental and water crisis problems;
- **Participation:** To encourage students to be actively involved at all levels in working toward resolution of environmental and water management problems.

Learning Outcomes

At the completion of the course, participants will be able to:

- Define terms associated with the environment and water management.
- Understand current impact on the environmental and water crisis problems.
- Promote green practice about environment and water management at home and at work.
- Describe what is being done and what we all can do to help prevent harm to the environment and water crisis.

  
Head  
Department Of Chemistry  
Y.C. College, Lakhadur  
Dist. Bhandara-481000

  
Principal  
Y. C. College, Lakhadur  
Dist. Bhandara



**ADD ON COURSE****SUBJECT- BASIC CONCEPT OF ACCOUNTING AND STATISTICS****SESSION - 2022-23****DEPARTMENT OF COMMERCE****ADD ON COURSE**

<b>SR.NO.</b>	<b>NAME OF STUDENT</b>	<b>CLASS</b>
1	CHETAN SHRIKRUSHNA SATIMESHAM	B.A.1ST
2	DULICHAND ISHWAR DUMBHE	B.A.1ST
3	RANBIR VIJAY DIGHORE	B.A.1ST
4	LAV DINDAYAL RAUT	B.A.1ST
5	PUJA REWANDAS SHAHARE	B.A.1ST
6	STUTI ISHWAR DONADKAR	B.A.1ST
7	VAISHNAVI DILIP PRADHAN	B.A.1ST
8	ABHIJIT NAGO GHAVALE	B.A.1ST
9	ADITYA VILAS BORKAR	B.A.1ST
10	CHANDRASHEKHAR VIJAY THAKARE	B.A.1ST
11	DIKSHA BALIRAM MANKAR	B.A.1ST
12	DIPAK RAMDAS DIGHORE	B.A.1ST
13	GANESH NATTHU URKUDE	B.A.1ST
14	GANESH SADARAM GABHANE	B.A.2ND
15	PRAFUL SUDHAKAR BHOYAR	B.A.2ND
16	PRASHANT DHANRAJ TUPATE	B.A.2ND
17	PRATIK MANOHAR VITHOLE	B.A.2ND
18	PRITAM VINOD KAMBLE	B.A.2ND
19	SHITAL SHAMRAO KUMBHARE	B.A.2ND
20	SHUBHAM GOPAL FUNDE	B.A.2ND
21	TEJAS RAMCHARAN SUTAR	B.A.2ND
22	VIDYA BHAGWAN MESHAM	B.A.2ND
23	ANIKET SUKHADEO PARSHURAMKAR	B.A.2ND
24	DEVCHAND CHINTAMAN SHAHARE	B.A.2ND
25	GANESH DURYODHAN UIKEY	B.A.2ND
26	GAYATRI SHIVAJI SHAHARE	B.A.2ND
27	GAYATRI SHIVAJI SHAHARE	B.A.2ND
28	PAYAL MUNESH TANDEKAR	B.A.2ND
29	PAYAL PURUSHOTTAM MURTELI	B.A.2ND
30	RINA BALKRUSHNA NAGRIKAR	B.A.2ND
31	TEJAS GOPICHAND BHAGADKAR	B.COM1ST
32	AMOL VINAYAK BORKAR	B.COM1ST
33	PRIYANKA ANIL SANGU	B.COM1ST
34	POONAM NAMDEO AJBALE	B.COM1ST
35	CHETANA MANOJ DONODE	B.COM1ST

DR.RITA R.RAUT  
HEAD OF COMMERCE DEPT.

**YASHWANTRAO CHAWHAN ARTS, COMMERCE AND SCIENCE COLLEGE LAKHANDUR**

**DIST- BHANDARA**

**SYLLABUS FOR**

**CERTIFICATE COURSE IN BASIC CONCEPTS OF ACCOUNTING AND STATISTICS**

**DURATION 45 DAYS**

**SESSION 2022-23**

<b>SR.NO.</b>	<b>Paper No.</b>	<b>TOTAL HOURS</b>	<b>MAX MARKS</b>	<b>INTERNAL MARKS</b>	<b>EXTERNAL MARKS</b>	<b>MINI-PASS MARKS</b>
1	Paper I Theory	25 Hours	50	10	40	20
2	Paper II Theory	25 Hours	50	10	40	20

Note- Internal Assessment for Theory shall be based on performance in Unit Test and Assignment.

**Paper-I**

Lectures to be delivered	25	Max.Marks	50
Periods per Week	05	Mini.Marks for Passing	20

**UNIT-1: BASIC OF FINANCIAL ACCOUNTING**

An Overview of basic of books keeping and accountancy. Objective, Importance, Advantages, Limitations and Functions of Accounting. Double Entry System, Branches of Accounting. Capital and Revenue Receipts & Expenditure, Preparation of Journal, Ledger's, Simple Cash Book, Trial Balance. (Theory & Numerical)

**UNIT-II: ACCOUNTING CONCEPTS.**

Meaning, objectives and principles of Accounting, Accounting

**Paper-II**

Lectures to be delivered	25	Max.Marks	50
Periods per Week	05	Mini.Marks for Passing	20

**UNIT I: BASICS OF COMPUTERS**

- 1.Computer Hardware
  - 2.Computer Software
- Computerised Accounting and Networking

**UNIT II: STATISTICAL TECHNIQUES**

Descriptive Statistics, Collection of Statistical Data, Classification, Tabulation and Presentation of Data. Statistical Averages

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Lakhandur, Dist. Bhandara

# Syllabus of Basic Fundamental of Computer (Add on Course)

Academic Session 2022-2023

## Department Of Computer Science

### UNIT – I Introduction to Computers

**Computer system:** characteristics and capabilities. Computer Hardware and Software: Block Diagram of a Computer, Different Data Processing: Data, Data Processing System, Storing Data, Processing Data. Types of Computers: Analogue, Digital, Hybrid, General and Special Purpose Computers. Generation of Computers. Computer Systems: Micros, Minis & Main-frames. Limitations of Micro Computer.

### UNIT – II Computer Peripherals

**Introduction to Input Devices:** Categorizing Input Hardware, Keyboard, Direct Entry — Card Readers, Scanning Devices O.M.R., Character Readers, Thumb Scanner, MICR, Smart Cards, Voice Input Devices, Pointing Devices — Mouse, Light Pen, Touch Screen.

### UNIT – III Basic Components & Storage

**Central Processing Unit:** The Microprocessor, control unit, A.L.U., Registers, Buses, Main Memory, Main Memory (RAM) for microcomputers, Read Only Memory(ROM).

**Storage Devices:** Storage Fundamentals, Primary and Secondary Storage, Data Storage and Retrieval Methods — Sequential, Direct & Indexed Sequential, Tape Storage and Retrieval Methods Tape storage Devices, characteristics and limitations, Direct access Storage and Microcomputers – Hard Disks, Disk Cartridges, Direct Access Storage Devices for large Computer systems, Mass storage systems and Optical Disks, CD ROM.

### UNIT – IV Computer Software & Languages

**System Software:** System software Vs. Application Software, Types of System Software, Introduction and Types of Operating Systems. Boot Loader, Diagnostic Programs, BIOS, Utility Programs.  
**Application Software:** Microcomputer Software, Interacting with the System, Trends in PC software, Types of Application Software, Difference between Program and Packages. **Computer Languages:** Definition, Generations of computer languages, Types of Languages, Language Processors: Assembler, Interpreter, Compiler, Linker and Loader. Programming constructs Algorithm & flowchart.

### UNIT – V Introduction to MS DOS & Windows

**Introduction to DOS:** History and versions of DOS. Fundamentals of DOS: Physical Structure of the Disk, Compatibility of drives, Disks & DOS versions, Preparing Disks for use, Device Names. Getting Started with DOS: Booting Process (DOS, Windows, Unix), System Files and Command.com, Internal DOS Files & Directories, Elementary External DOS Commands, Creating a Batch Files, Additional Commands.

**Microsoft Windows:** Operating system-Definition & functions, basics of Windows. Basic components of windows, icons, types of icons, taskbar, activating windows, using desktop, title bar, running applications, exploring computer, managing files and folders, copying and moving files and folders. Control panel—display properties, adding and removing software and hardware, setting date and time, screen saver and appearance. Using windows accessories.

H  
Co-ordinator  
(Dept of Computer Science)

प्राचार्य  
महेश्वरराव चव्हाण महाविद्यालय  
लाखांदुर जि. भंडारा

YASHWANTRAO CHAWHAN ARTS, COMMERCE & SCIENCE

COLLEGE, LAKHANDUR

LIST OF STUDENTS FOR "ADD ON COURSE"

DEPARTMENT OF COMPUTER SCIENCE

SUBJECT: BASIC FUNDAMENTAL OF COMPUTER

ACADEMIC SESSION 2022-2023

SR.NO.	LIST OF STUDENTS	CLASS
1	AAKANSHA AMOL MESHAM	B.SC I
2	ACHAL JAYENDRA BADOLE	B.SC I
3	ACHAL SHANKAR TONDARE	B.SC I
4	AKANSHA PRASHANT GAJAPURE	B.SC I
5	ANKITA MADHUKAR BURADE	B.SC I
6	ANSHU MANOHAR BHARRE	B.SC I
7	GAYATRI MOHAN BHAVE	B.SC I
8	LAXMI VIJAY TARONE	B.SC I
9	LAXNI GOPAL BAGMARE	B.SC I
10	UJWALA NARESH DONADKAR	B.SC III
11	PRACHI VINOD DIWATHE	B.SC I II
12	VEDANTI ANIL GHORMODE	B.SC III
13	UJWALA GOPAL DIWATHE	B.SC III
14	MOHINI TIKARAM BADOLE	B.SC I
15	PRITI VILAS THAKARE	B.SC I
16	SANI RAJU DAHAKA	B.SC I
17	SHREYA KHEMRAJ BARDE	B.SC I
18	PUJA YUVRAJ RAYPURE	B.SC I
19	SARIKA DILIP THAKARE	B.SC I
20	TRUPTI TAJMUL TONDARE	B.SC I
21	VISHAKHA DILIP GAJBHE	B.SC I
22	DIMPAL SOMESHWAR DESAI	B.SC I
23	KHUSHI NARSHINGH KACHWAH	B.SC I
24	ASHISH HARICHADRA KHARKATE	B.SC I
25	AYUSH WAMAN MESHAM	B.SC I
26	SANSKAR SACHIN KHARKATE	B.SC I
27	DEVENDRA GANESH KORE	B.SC I
28	KARTIK LILADHAR AGARE	B.SC I
29	KRUSHNA HEMRAJ RAUT	B.SC I
30	BINAND BIJAN GAIN	B.SC I



(Co-ordinating  
dept. of Computer Science)



प्राचार्य  
यशवंतराव चव्हाण प्रतिष्ठान  
लाखणूर जि. भंडारा

**Yashwantrao Chawhan Arts, Commerce & Science College  
Lakhandur**

**Department of English**

**Syllabus for**

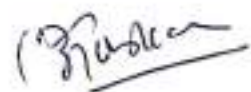
**Add On Certificate Course in Spoken English (2022-23)**

**Objectives:**

- To enable the learners to understand simple texts and vocabulary.
- To develop competence among the students to speak fluent English.
- To enable learners to understand debates, dialogues, lectures, speeches etc. delivered in English.
- To help the economically, socially backward students of the rural area develop basic English language speaking skills.
- To aim at the personality development of the students through English speaking skills.

**Learning Outcomes:**

- The students will be able to listen and comprehend the English language
- The students will be able to communicate in English
- The students will be able to construct grammatically correct sentences in English
- The students will be more confident about the English language
- The students will be able to deliver the speeches
- The students will be able to take part in various stage related activities



## **Syllabus:**

### **Topics:-**

#### **Introduction to English**

- Importance of English language in the present world of globalization.
- Difference between spoken english and written english
- Introduction to basic english reading and writing skills

#### **Understanding Grammar**

- Parts of Speech, Person, Gender, Number.
- Use of Tense , Adjectives

#### **Enhancement of Word Power**

- Vocabulary
- Commonly used words and phrases
- Constructing sentences


#### **Practice Session**

- Introduction to public speaking and overcoming the stage fright
- Engage in effective basic interaction with english speakers.
- Presentation skills
- Practice basic tasks like greeting asking and answering questions.

### **Eligibility:**

**Open to all**

**Course Duration: - 07 Weeks (40 Hours)**

 (Dr. Sumna)

**Yashwantrao Chawhan Arts, Commerce & Science College  
Lakhandur**

**Department of English**

**Add On Certificate Course in Spoken English (2022-23)**

**List of Students:-**

Sr. No	Name of Students	Class
1	Miss. PUNAM ATMARAM WADHAI	B.A. Ist
2	Miss. KRUTIKA KOTHIRAM KHETRE	B.A. Ist
3	Miss. BHAGYASHRI SAHADEO UKE	B.A. Ist
4	Miss. ANSHUL VISHVAJIT BANSOD	B.A. Ist
5	Mr. ASHWIN SHANKAR DIGHOR	B.A. Ist
6	Mr. SACHIN KUSAN GANVIR	B.A. Ist
7	Miss. DURGA VILAS BHUTE	B.A. Ist
8	Miss. GAUREE TEJRAM TUPATE	B.A. Ist
9	Mr. GIRISH BALDEO THAKARE	B.A. Ist
10	Mr. KULDIP RATNAKAR BAGADE	B.A. Ist
11	Miss. VAISHNAVI NARESH BAGMARE	B.Com-I
12	Miss. VAISHNAVI SANJAY KAWALE	B.Com-I
13	Miss. ALISHA ANIL SAKHARE	B.Com-II
14	Mr. ANIKET UTTAM KHOBRAGADE	B.Com-II
15	Miss. KALYANI PARASRAM LANJE	B.Com-I
16	Miss. KARISHMA WARUSAIN MESHARAM	B.Com-II
17	Mr. MOHIT MADHORAO MADAVI	B.Com-II
18	Mr. NIKHIL HARISHCHANDRA NEWARE	B.Com-II
19	Miss. NIKITA LOKCHAND RAUT	B.Com-II
20	Miss. SONAM RAJESH PURANKAR	B.Com-II
21	Miss. KHUSHI NARSINGH KACHHAWAH	B.Sc.-I
22	Miss. KAJAL SANJAY RAUT	B.Sc.-I
23	Mr. KUNAL NANDLAL DHAKATE	B.Sc.-I
24	Mr. MAHESH UDDHAO AMBADE	B.Sc.-I
25	Miss. MANISHA BHAGWAN SAMRUTWAR	B.Sc-I
26	Miss. AKANKSHA SANJAY TEMBHURNE	B.Sc-II
27	Miss. AKSHITA ANILKUMAR YEWALE	B.Sc-II
28	Mr. AMAN VIJAYKUMAR MESHARAM	B.Sc-II
29	Miss. ANKITA ASHOK BHENDARKAR	B.Sc-II
30	Miss. DAMINI BHASHKAR IRALE	B.Sc-II

*[Handwritten Signature]*

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**YASHWANTRAO CHAWHAN ART, COMMERCE AND SCIENCE COLLEGE  
LAKHANDUR, DIST-BHANDARA**

**SYLLABUS FOR**

**CERTIFICATE COURSE IN DISASTER RISK AND MANAGEMENT**

**DURATION 45 DAYS**

**SESSION 2022-2023**

Sr. No.	Paper	Total Workload	Max Marks	Internal Marks	External Marks	Mini Pass Marks
1.	Paper Theory	25 Hours	50	10	40	20

**Note- Internal Assessment for Theory shall be based on performance in Unit Test and Assignment.**

**Theory Paper**

Lectures to be delivered	25	Max Marks	50
Period Per Week	05	Mini- Marks for passing	20

Unit-I	Introduction –What is disaster, the concept of disaster management and mitigation, earth events to cause the disaster risk?
Unit-II	Types and devastation by disasters earthquake, tsunami, landslide, cyclones, Flood and famine, intensity of disaster.
Unit-III	Mitigation procedures-preventive measures flood, earthquake, tsunami, landslide, famine.
Unit-IV	Disaster Management Procedures ( Government rules and lows)-NDRF

  
**Dr. Snehal G. Juare**  
H.O.D.  
Dept of Geology  
Yashwantrao Chawhan College  
Lakhandur, Dist. Bhandara



**YASHWANTRAO CHAWHAN ART, COMMERCE AND SCIENCE COLLEGE  
LAKHANDUR, DIST-BHANDARA**

Department of Geology

Add-On Course

**Certificate Course in Disaster risk and management**

**List of Students (Ssion-2022-23)**

Sr. No.	Name of Students	Class
1	Laxmi Tilakasinha Bais	B. Sc. I
2	Sumedh Barsagade	B. Sc. I
3	Shilpa Bhendarkar	B. Sc. I
4	Bharti pralhad Dahiwale	B. Sc. I
5	Supriya Rajendra Dighore	B. Sc. I
6	Kajal Kailash Dongarwar	B. Sc. I
7	Usha Dongarwar	B. Sc. I
8	Sandesh Khardekar	B. Sc. I
9	Sanjana Kumbhare	B. Sc. I
10	Laxmi Gangadhar Maind	B. Sc. I
11	Neha Naresh Mankar	B. Sc. I
12	Suraj Bhaurao Meshram	B. Sc. I
13	Mayur Vasant Nagose	B. Sc. I
14	Diya Nandeshwar	B. Sc. I
15	Dipak Parshuramkar	B. Sc. I
16	Nikita Birensingh pawar	B. Sc. I
17	Sandesh Khardekar	B. Sc. I
18	Sanjana Kumbhare	B. Sc. I
19	Gaurav Maniram Meshram	B. Sc. I
20	Suraj Bhaurao Meshram	B. Sc. I

  
**Dr. Snehal G. Juare**  
H.O.D.  
Dept. of Geology  
Yashwantrao Chawhan College  
Lakhandur, Dist. Bhandara

YASHWANTRAO CHAWHAN ART, COMMERCE AND SCIENCE COLLEGE  
LAKHANDUR, DIST-BHANDARA

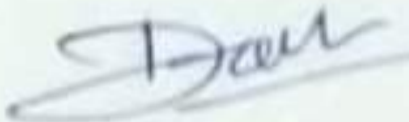
Department of HOME ECONOMICS

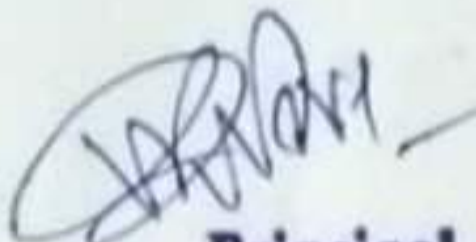
Add-On Course

Certificate Course in Food & Nutrition

List of Students (Session-2022-23)

Sr. No.	Name of Students	Class
1	Sandhya Damodhar Raut	
2	Puja Vilas Raut	
3	Punam Shyamsunder Narade	
4	Kalyani Bhagvan Vidhate	
5	Pratikshya Suresh Rangari	
6	Shruti Shyamrao Raut	
7	Snehal Chopram Bansod	
8	Kalyani Ravindra Diwathe	
9	Nirasha Dodhaku Pilare	
10	Krunika Koneram Khetre	
11	Snehal Suresh Nangare	
12	Snehal Dhyaneshwar Meshram	
13	Divya Rajkumar Sauskar	
14	Prajakta Ramesh Sauskar	
15	Pratikshya Prakash Dhande	
16	Puja Vasanta Gurnule	
17	Nikita Ashok Pilewan	
18	Trupti Yograj Meshram	
19	Rajashri Sevak Mandhare	
20	Pranali Dilip Diwathe	

  
Associate Professor  
Dept. of Home-Economics  
Y. C. College Lakhandur  
Dist. Bhandara

  
Principal  
Y. C. College, Lakhandur  
Dist. Bhandara

YASHWANTRAO CHAWHAN ART, COMMERCE AND SCIENCE COLLEGE  
LAKHANDUR, DIST-BHANDARA

SYLLABUS FOR  
CERTIFICATE COURSE IN FOOD AND NUTRITION

DURATION 45 DAYS

SESSION 2022-2023


Sr. No.	Paper	Total workload	Max Marks	Internal Marks	External Marks	Mini-Pass marks
1	Paper Theory	25 Hours	50	10	40	20


Note- Internal Assessment for Theory shall be based on performance in Unit Test and Assignment.

Theory Paper

Lectures to be delivered	25	Max Marks	50
Period Per week	05	Mini- Marks for passing	20

- Unit-I**      **Nutrients**  
1) Carbohydrates, 2) Fats, 3) Proteins- Functions, Sources, Recommended, dietary allowances, Deficiency and excess.
- Unit-II**      **Balanced Diet**  
Definition, Factor affecting Balanced Diet, Different Nutrients in Balanced Diet, Principles of meal planning.
- Unit- III**      **Basic Food Group**  
Sources and importance of cereals, Pules, Oil Seeds, Vegetables, Fruits, Milk Products, Sugar and Jiggery, Eggs, Fish, Meat.
- Unit-IV**      **Improving Nutritional Quality of Foods**  
Germination, Fermentation, Supplementation, Fortification and Enrichment.

  
**Associate Professor**  
Dept. Of Home-Economics  
Y. C. College Lakhandur  
Dist. Bhandara

  
**Principal**  
**Principal**  
Y. C. College, Lakhandur  
Dist. Bhandara

YASHWANTRAO CHAWHAN ARTS, COMMERCE & SCIENCE  
COLLEGE, LAKHANDUR

LIST OF STUDENTS FOR "ADD ON COURSE"

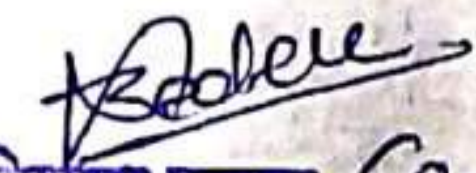
DEPARTMENT OF MARATHI

SUBJECT : TEACHING IN MARATHI LANGUAGE FOR NON -  
MARATHI

ACADEMIC SESSION 2022-2023

SR. NO.	NAME OF STUDENT	CLASS
1	PRATIK ANIL ANANDIKAR	B. A. I
2	KAUNEN MUSTAKKHAN PATHAN	B. A. I
3	PRAJWAL SUNILSINH BAGHEL	B. A. I
4	ATHARV RANJIT SHINDE	B. COM. I
5	GOVIND KISHOR SAHAJWANI	B. COM. I
6	AKASH AWATARSING RAMGADE	B. COM. I
7	KHUSHI NARSINGH KACHHAWAH	B. SC. I
8	BINAND BIJAN GAIN	B. SC. I
9	NIKITA BIRENSINGH PAWAR	B. SC. I
10	ULHAS SUPDO MANDAL	B. SC. I
11	PRITAM NEPAL SIKDAR	B. SC. I
12	SHAFIYAPARVEEN RAFIQUE SHEIKH	B. SC. I
13	SHEIKH MOHD ADNAN	B. SC. I

  
Principal  
Y. C. College, Lakhndur

  
Co-ordinator  
Add-on - Course  
मराठी विभाग  
यशवंतराव चव्हाण महाविद्यालय

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यशवंतराव चव्हाण कला, वाणिज्य व विज्ञान  
महाविद्यालय, लाखांदूर जि. भंडारा

मराठी विभाग

सत्र :-

विषय:- अमराठी भाषिकांना मराठी भाषेचा अभ्यास

अभ्यासक्रम:-

घटक - १


- १) मराठी भाषेतील वर्णमाला
- २) मराठीतील स्वर व व्यंजने
- ३) मराठीतील उच्चार स्थानानुसार वर्गीकरण
- ४) मराठी भाषेतील अलंकार


घटक - २

- १) मराठी साहित्याची निर्मिती प्रक्रिया  
अ) शब्दशक्ती व अर्थविचार  
ब) रसविचार
- २) मराठीतील साहित्य प्रयोजन

घटक - ३

- १) आधुनिक कवी केशवसुत
- २) मराठीतील संत साहित्य
- ३) मराठीतील दलित साहित्य

  
Principal  
Y. C. College, Lakhandur  
Dist. Bhandara

  
मराठी विभाग प्रमुख  
यशवंतराव चव्हाण महाविद्यालय  
लाखांदूर, जि. भंडारा

Yashwantrao Chawhan College Lakhandur, Dist.- Bhandra.

List of "Add On Course"

"PREPERATION OF BIOFERTILIZER AND BIOPESTICIDES"

Run by Department of Microbiology

Academic Session 2022-2023

Sr. No.	Name of Students
1	Anisha Madhav Nandekar
2	Ankita Madhav Nandekar
3	Devkanya Ramesh Borkar
4	Divya Yuvraj Raipure
5	Kajal Ramaji Tapare
6	Kalyani Wasudeo Ambagade
7	Khushbu Bhudev Ghonmode
8	Khushi Bhajan Bawankule
9	Manisha Bhagwan Samrutwar
10	Minal Bala Thakare
11	Pallavi Ashok Banpurkar
12	Payal Purushottam Raut
13	Prajakta Bandu Bonre
14	Pranali Ashok Chimankar
15	Priya Hiranman Kamble
16	Rashmi Shankar Rajgire
17	Sakshi Pralhad Gothe
18	Tejaswini Rajesh Sathawane
19	Triveni Prabhu Kuranjekar
20	Vaishnavi Ramchandra Misar
21	Ashish Lochan Burde
22	Janhavi Shamrao Thakare
23	Shailesh Digamber Bhagadkar
24	Aditya Devidas Bhave
25	Supriya Sanjay Tupte



**Co-Coordinator**  
Dr. Rakesh U. Thakare  
Assistant Professor & Head  
Dept. of Microbiology  
Y. C. College, Lakhandur,  
Dist. Bhandara.

YASHWANTRAO CHAWHAN ARTS, COMMERCE AND SCIENCE COLLEGE LAKHANDUR

DIST-BHANDARA

ADD ON COURSE

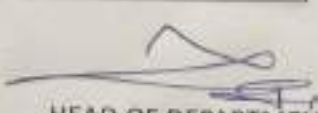
SUBJECT- PALI LANGUAGE SPEAKING COURSE

Department of Pali

SESSION: 2022-23

STUDENTS LIST

Sr.No.	Name of Students
1	AARTI PANDURANG MESHRAM
2	ABHAY DASHRATH KHARKATE
3	ABHIJIT NAGO GHAWADE
4	ABHISHEK ARUN DESAI
5	ABHISHEK PRAMOD BORKAR
6	ADITYA LILADHAR SAWARKAR
7	ADITYA RAJKUMAR MESHRAM
8	ANJALI MANOHAR BURADE
9	AARTI ASARAM KURANJEKAR
10	BHAGYASHRI SAHADEO UKEY
11	BHARATI VILAS BAWANKAR
12	BHUWANESHWARI VILAS HEMANE
13	CHNANDRASHEKHAR VIJAY THAKARE
14	CHETNA MANGALAM KAMBALE
15	DAMINI ASHOK SAYYAM
16	DATTU DASHEATH MARBATE
17	DIKSHA SUDHAKAR MADAVI
18	GAURAV YASHWANT KHOBRAGADE
19	GAYATRI SHIVAJI SHAHARE
20	JIVAN BHARAT NANDANWAR

  
HEAD OF DEPARTMENT

Dr. H.G. BORKAR

Associate Professor

YASHWANTRAO CHAWHAN ARTS, COMMERCE AND SCIENCE COLLEGE LAKHANDUR  
DIST-BHANDARA  
SYLLABUS FOR  
CERTIFICATE COURSE IN PALI LANGUAGE SPEAKING COURSE  
DURATION 45 DAYS Session 2022-23

SESSION 2021-22 Sr. No.	Paper No.	Total Workload	Max Marks	Internal Marks	External Marks	Mini-Pass Marks
1	Paper I Theory	25 Hours	50	10	40	20
2	Paper II Theory	25 Hours	50	10	40	20

Note- Internal Assessment for Theory shall be based on performance in Unit Test and Assignment.

Paper-I Lectures to be delivered	25	Max.Marks	50
Periods per Week	05	Mini.Marks for Passing	20

- Unit -I Varna Parichaya (Swar, Vyanjan and Visheshan)  
Unit-II Shabda Parichay (Vibhatti, Linga, Vachan, Shabda, Rupa, Nam)  
Unit-III Kriya (Present Tense, Past Tense and Future Tense)  
Unit-IV Akarant Napunsakling Shabda

Paper-II Lectures to be delivered	25	Max.Marks	50
Periods per Week	05	Mini.Marks for Passing	20

- Unit -I Vibhatti (Akarant, Ikarant, Ukarant and Okarant)  
Unit-II Sandhi (Swar, Vyanjan and Niggahit Sandhi)  
Unit-III Samas (Avyahibhav, Tatpurush, Karamadharay, Bahuvrihi, Kriyarth and Dvandva Samas)  
Unit-IV Avyaya (Upsarga, Purvakalik, Taddhitant)



Head of Department

Dr. H.G. Borkar  
Associate Professor



**YASHWANTRAO CHAWHAN ARTS, COMMERCE AND SCIENCE COLLEGE  
LAKHANDUR**

**DEPARTMENT OF PHYSICS**

**ADD-ON COURSE**

**"BASIC INSTRUMENTATION IN PHYSICS"**

**SYLLABUS**

**UNIT I**

Introduction to Instrumentation, units and measurements. Meter scale, vernier caliper, Screw gauge, Spherometer, Calculations of L.C., Use of travelling Microscope, telescope, thermometer, spherometer, spectrometer, etc.

**Unit II**


Errors in Measurements of travelling Microscope, telescope, thermometer, spherometer, spectrometer, etc.

**Unit III**

Introduction to basic electronics equipment, voltmeter, Ammeter, Galvanometer, Digital Multimeter (AC and DC measurements)

**Unit IV**

Component testing Register, Diode, Transistor, Capacitor, Resistance Box, Inductor, Rheostat, Transformer, LED, etc., CRO calibration and its application

  
**Head**  
**Dept. of Physics**  
Y. C. College, Lakhandur  
Dist. Bhandara (M.S.)

Yashwantrao Chawhan Arts, Commerce and Science College, Lakhandur

List of Students for ADD-ON Course

"BASIC INSTRUMENTATION IN PHYSICS"

Department of Physics  
Academic Session 2022-23

Sr. No.	Name of Student	Signature
1	ANJALI TUKDU BANSOD	
2	ISHA DHANPAL BEDRE	I Bedre
3	JAYASHRI YASHWANT NANHE	Jayashri
4	JAYSHRI CHHAGAN CHEPATE	J. C. Chopate
5	KAJAL GOPAL SELOTE	Kajal Selote
6	KALYANI RAMESH THAKARE	K. Thakare
7	KARISHMA PRAKASH MISAR	Karishma
8	KAVITA DULARAM TARHEKAR	K. D. Tarhekar
9	KHUSHALI ISHWAR THAKARE	
10	LINA KHUSHAL MENDHE	Lina Mendhe
11	SNEHAL DEVIDAS GOMASE	S. Gomase
12	SONALI DAMODHAR RAUT	S. Raut
13	UJWALA GOPAL DIWATHE	
14	UJWALA NARESH DONADKAR	U. Donadkar
15	USHA KESHAV TUPATE	U. Tupate
16	VEDANTI ANIL GHORMODE	V. A. Ghormode
17	YAMINI KISHOR RAUT	Y. Raut
18	AMIT BHARAT MANKAR	
19	ANIKET ARVIND ADHIKARI	A. Adhikari
20	ANIKET PUNDALIK PETKULE	A. Petkule
21	ANKIT NARAYAN SAWARBANDHE	A. N. Sawarbandhe
22	BHAVESH KUSHABRAO GAJBHIYE	B. GaJBhiye
23	BHUMESHWAR GANASHYAM GURNULE	B. Gurnule
24	BHUSHAN PADMAKAR KORE	
25	BHUWAN PANDHARI DONGARWAR	

Course Coordinator  
Dept. of Physics  
Y. C. College, Lakhandur  
Dist. Bhandara (M.S.)