



Maratha Vidya Prasarak Samaj

G. M. D. Arts, B. W. Commerce and Science College, Sinnar, Dist. Nashik

Affiliated to Savitribai Phule Pune University, Pune

Best College Awarded by SPPU2012-13

ISO 9001:2015 Certified College

www.gmdcollege.in

Id.No.PU/NS/ASC/013/1969

AISHE:C-41292

sinnarcollege001@yahoo.com

INTERNAL QUALITY ASSURANCE CELL

CRITERION 2: TEACHING LEARNING AND EVALUATION

2.3.1. Student centric methods such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences.



Detail of student centric methods used for learning process



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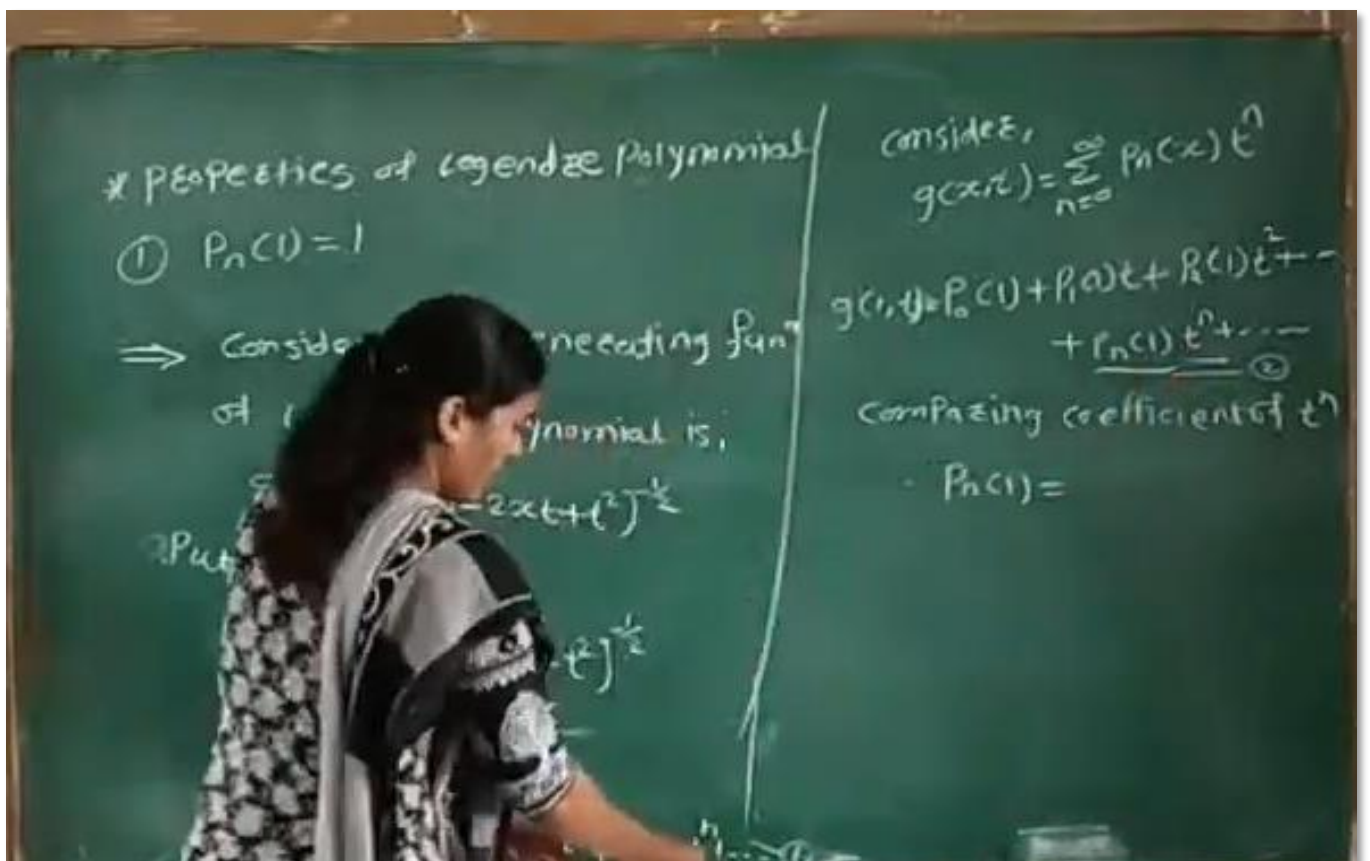
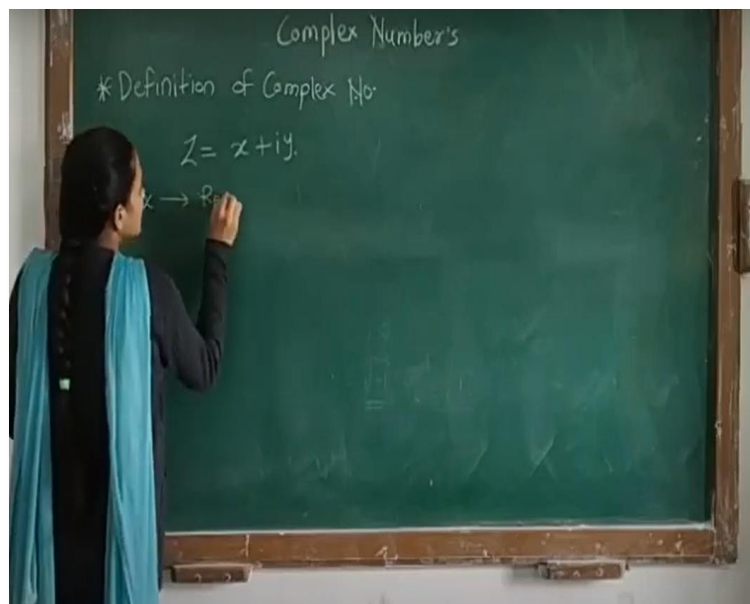
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2.3.1 Student centric methods such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences using ICT enable tools including online resources for effective teaching and learning process

Index

Sr. No.	Academic Year	Department	Method used for teaching
1	2023-24	Physics	Chalk & Talk Method ICT Enabled Teaching Method
		Zoology	ICT Enabled Teaching Method
		Botany	ICT Enabled Teaching Method
		Mathematics	ICT Enabled Teaching Method
		Microbiology	Chalk & Talk Method Experiential Learning Method ICT Enabled Teaching Method
		Computer Science	ICT Enabled Teaching Method
		B. Voc LPM	Experiential Learning Method ICT Enabled Teaching Method
		B. Voc FPP	Experiential Learning Method ICT Enabled Teaching Method
		Commerce	ICT Enabled Teaching Method
		English	ICT Enabled Teaching Method
		Marathi	Chalk & Talk Method
		Geography	ICT Enabled Teaching Method
		History	ICT Enabled Teaching Method
		Economics	ICT Enabled Teaching Method
		Defense	ICT Enabled Teaching Method
Political Science	ICT Enabled Teaching Method		

Chalk Talk Method:



Department of Zoology (Year 2023-24)

ICT Enabled Teaching Method:



Chalk Talk Method:



WhatsApp group created for T.Y.B.Sc Mathematics student



Practical Demonstration

Department of Computer Science (2023-24)

Solo song performance at Yuva Spandan By Rahul Jagadhane (F.Y.B.Sc Comp. Sci.)



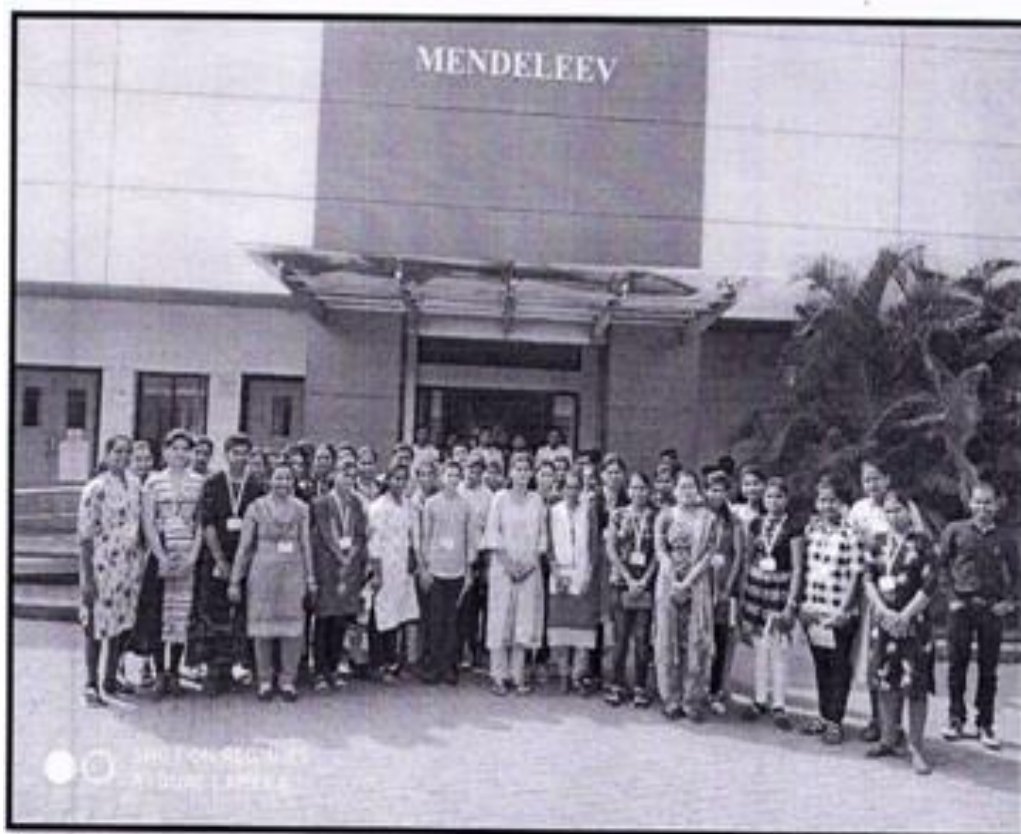
Industrial Visit at Marco Cables Pvt. Ltd., Musalgaon, Sinnar

Department of Geography (2023-24)

ICT Enabled Teaching Method:



Experiential Learning through Field visit:



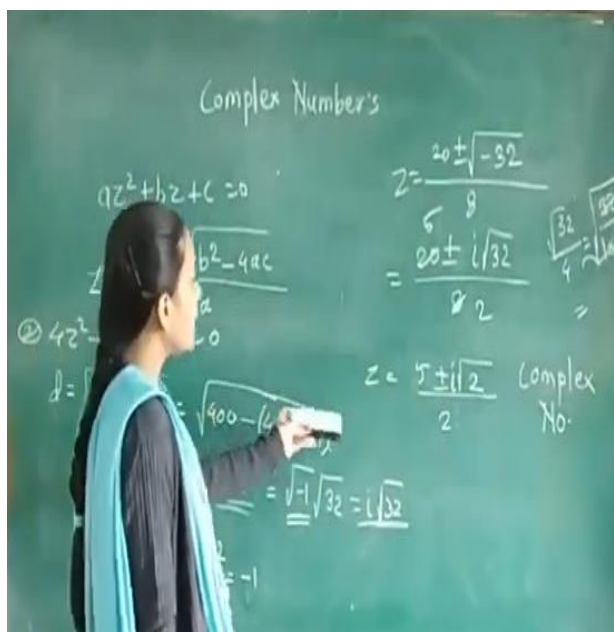
A study tour at MENDELEEV, Pune

Chalk Talk Method:



Department of Physics (2023-24)

Chalk Talk Method:



Department of Zoology (2023-24)

Experiential Learning thorough Field work:



Maintenance of Vermicomposting by students



Organic farming visit



Students working in Laboratory

ICT Enabled Teaching Method:



Students watching video on NPTL



Students using resources like National Digital Library, DOAJ, DEL Net etc.



Teaching using Smart Board



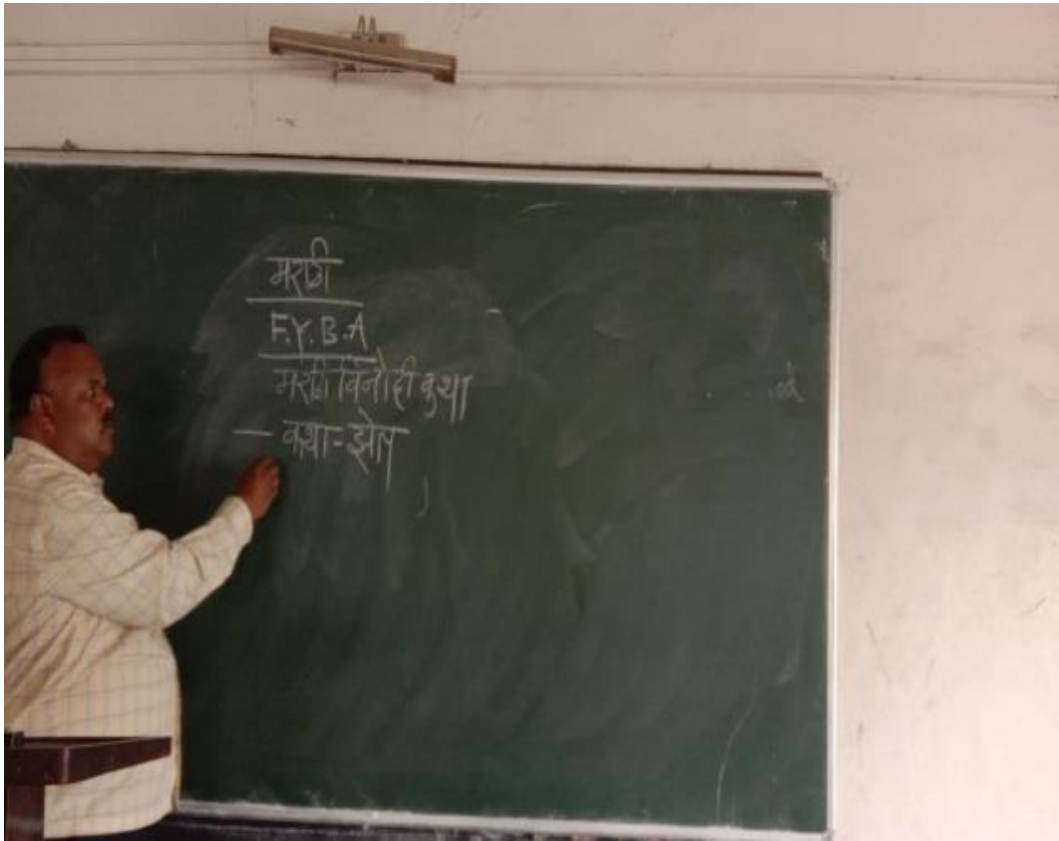
Practical Demonstration using LCD Projector

Chalk Talk Method:



Department of Marathi (2023-24)

Chalk Talk Method:



Department of Geography (2018-19)

ICT Enabled Teaching Method:



Department of History (2023-24)

ICT Enabled Teaching Method:



ICT Enabled Teaching Method:



ICT Enabled Classroom

REACTION INTERMEDIATES

By:
Swati Martand Chatur
M. Sc. SET
Asst. Prof. Dept. Of Chemistry,
MVP's GMD Arts, B. W. Commerce and
Science College, Sinnar, Nashik.

PPTs used for lectures

Electroneutrality Principle

$[Fe(H_2O)_6]^{3+}$

Pratiksha Dinkar Garud
(Assistant Professor)
MVP's GMD Arts, BW Commerce
& Science College, Sinnar, Nashik

Synthesis of (R) and (S) Epichlorohydrins from Glyceraldehyde

(R)-Epichlorohydrin

$$\begin{array}{c}
 \text{CHO} \\
 | \\
 \text{H} - \text{C} - \text{OH} \\
 | \\
 \text{CH}_2\text{OH}
 \end{array}
 \xrightarrow{\text{Acetone}}
 \begin{array}{c}
 \text{CHO} \\
 | \\
 \text{H} - \text{C} - \text{O} \\
 | \quad \diagup \\
 \text{O} \quad \text{O} \\
 | \quad \diagdown \\
 \text{O} \quad \text{O}
 \end{array}
 \xrightarrow[\text{MeOH/H}_2\text{O}]{\text{NaBH}_4}
 \begin{array}{c}
 \text{CH}_2\text{OH} \\
 | \\
 \text{H} - \text{C} - \text{O} \\
 | \quad \diagup \\
 \text{O} \quad \text{O} \\
 | \quad \diagdown \\
 \text{O} \quad \text{O}
 \end{array}
 \xrightarrow{\text{TsCl/py}}
 \begin{array}{c}
 \text{CH}_2\text{OTs} \\
 | \\
 \text{H} - \text{C} - \text{O} \\
 | \quad \diagup \\
 \text{O} \quad \text{O} \\
 | \quad \diagdown \\
 \text{O} \quad \text{O}
 \end{array}$$

PPTs used for lectures

Experiential Learning Method:



Laboratory Work

Department of Physics (2023-24)

ICT Enabled Teaching Method:

Physics - YouTube | Google Account | Slow & fast learner photo - bp3f | MSC I MMP Special function Pr...

youtube.com/watch?v=XrjiajGwpFA

https://youtu.be/XrjiajGwpFA

Properties of Legendre Polynomial -
 $(1) P_n'(x) + P_{n-1}'(x) = 2xP_n'(x) + P_n(x)$
 $(2) (n+1)P_{n+1}(x) = (2n+1)xP_n(x) - nP_{n-1}(x)$
 \Rightarrow consider the generating funⁿ of Legendre Polynomial is
 $g(x,t) = (1-2xt+t^2)^{-1/2} = \sum_{n=0}^{\infty} P_n(x)t^n$
 differentiate

MSC I MMP Special function Properties of Legendre Polynomial Lect3

GMD College Sinnar 3.16K subscribers

Queue 2/3

- MSC II Solid State Physics Module 3 Lecture No 2 9:22 GMD College Sinnar
- MSC I MMP Special function Properties of Legendre Polynomial Lect3 16:00 GMD College Sinnar
- MSC II Solid State Physics Module 3 Lecture No 3 7:22 GMD College Sinnar

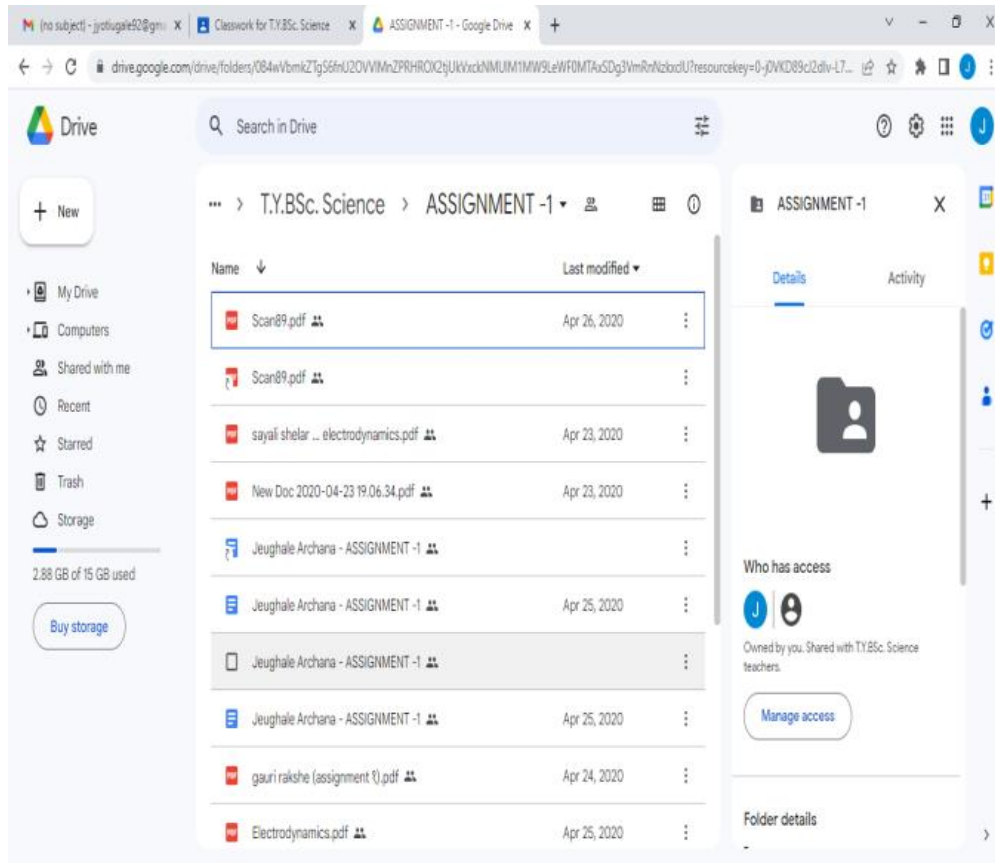
The Right Tone Moves Projects Forward

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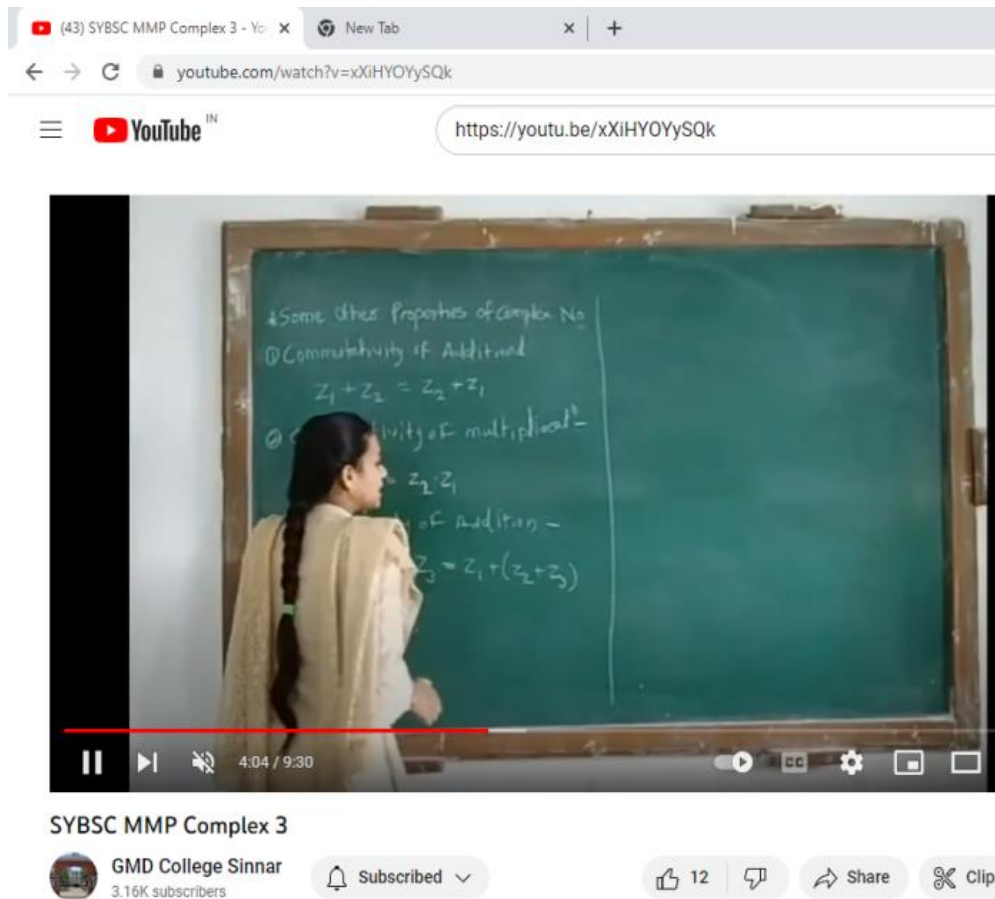
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Google Classroom



YouTube Videos

Department of Zoology (2023-24)

ICT Enabled Teaching Method:



ICT Enabled Classroom

ICT Enabled Teaching Method:

Introduction to Biostatistics:



- a. Definition
- b. Statistical terms : Population, sample, primary and secondary data, qualitative and quantitative data, parameter and statistics, attributes, variables, discrete and continuous variables, statistical error, linear and non-linear functions of statistics, frequency, and its distribution.
- c. Scope, applications and uses of biostatistics

Department of Computer Science (2019-20)

ICT Enabled Teaching Method:

<u>Relation Between α and β</u>	<u>Characteristics of Common Emitter Configuration</u>
<p>$\beta = \frac{\Delta I_C}{\Delta I_B}$, at constant V_{CE}</p> <p>$I_E = I_C + I_B$</p> <p>$\Delta I_E = \Delta I_C + \Delta I_B$</p> <p>$\Delta I_B = \Delta I_E - \Delta I_C$</p> <p>$\beta = \frac{\Delta I_C}{\Delta I_E - \Delta I_C}$</p>	<p>■ <u>Input Characteristics:</u></p>
<p>Divide numerator and denominator by ΔI_E</p> $\beta = \frac{\frac{\Delta I_C}{\Delta I_E}}{\frac{\Delta I_E - \Delta I_C}{\Delta I_E}}$ $\alpha = \frac{\Delta I_C}{\Delta I_E}$ <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> $\beta = \frac{\alpha}{1 - \alpha}$ </div>	

PPTs are prepared for teaching



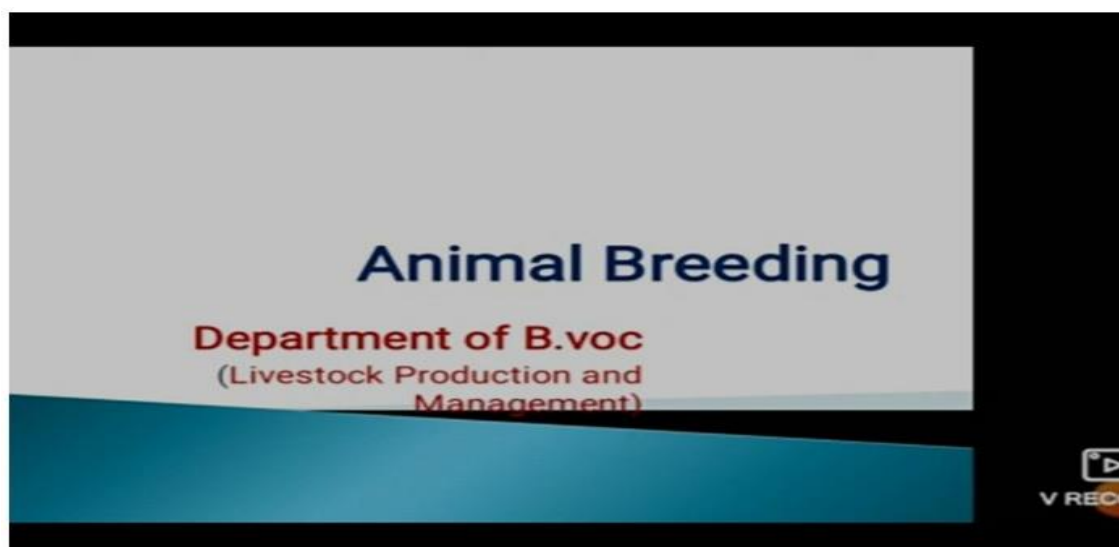
Demonstration of free E-resources like DELNET- N-List

Experiential Learning:

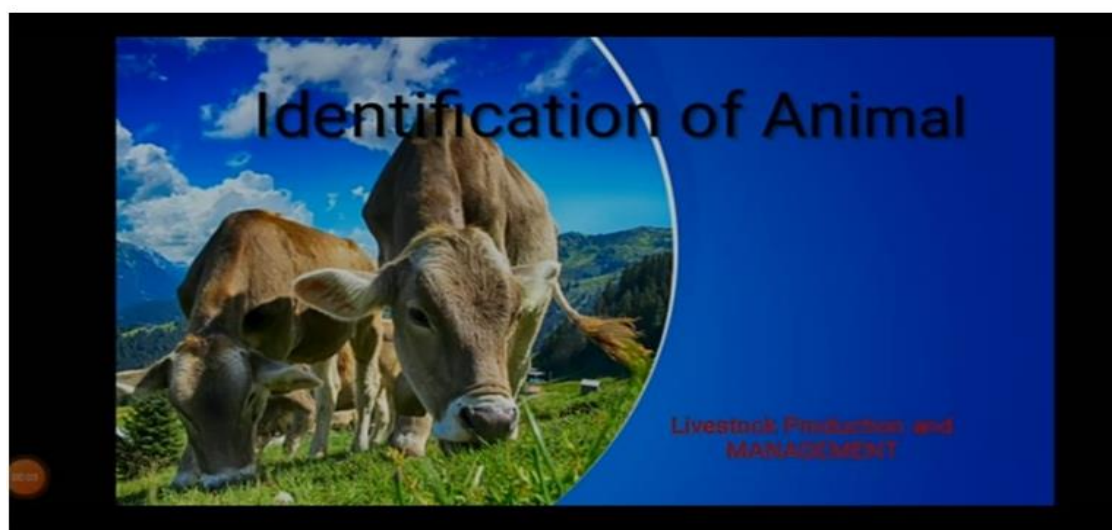


Seminars by Students

ICT Enabled Teaching Method:



S.Y LPM (B.VOC)
Topic – Animal Breeding
You Tube Video lecture



F.Y LPM (B.VOC)
Topic – Identification of animals

You Tube Video lecture

Department of B.Voc (FPP) (2023-24)

ICT Enabled Teaching Method:



ICT Enabled classroom

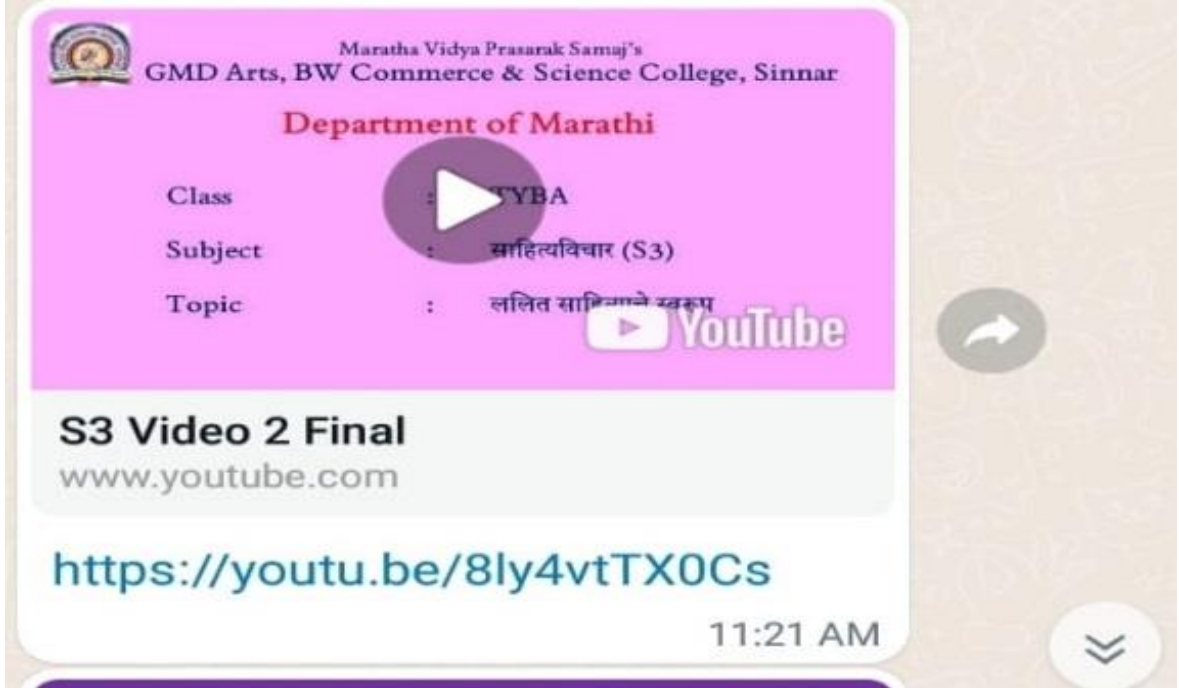
Experiential learning Method:



Practical Work

Department of Marathi (2023-24)

ICT Enabled Teaching Method:



YouTube Video lectures

Department of Geography (2023-2024)

ICT Enabled Teaching Method:



ICT Enabled classroom

Department of History (2023-24)

ICT Enabled Teaching Method:



ICT Enabled Teaching

Department of Economics (2023-24)

ICT Enabled Teaching Method:

सूक्ष्म आर्थिक विश्लेषण

पूर्ण स्पर्धा (Perfect Competition)

Mr. Yogesh Bharaskar
Assistant Professor,
Dept. of Economics, Sinnar
College, Sinnar, Dist- Nashik

पूर्ण स्पर्धा - Perfect Competition by Prof. Yogesh Bharaskar

Arth Vishva - अर्थ विश्व
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2.5K views 2 years ago

Arth Vishva - अर्थ विश्व
21:18 879 views · 2 years ago

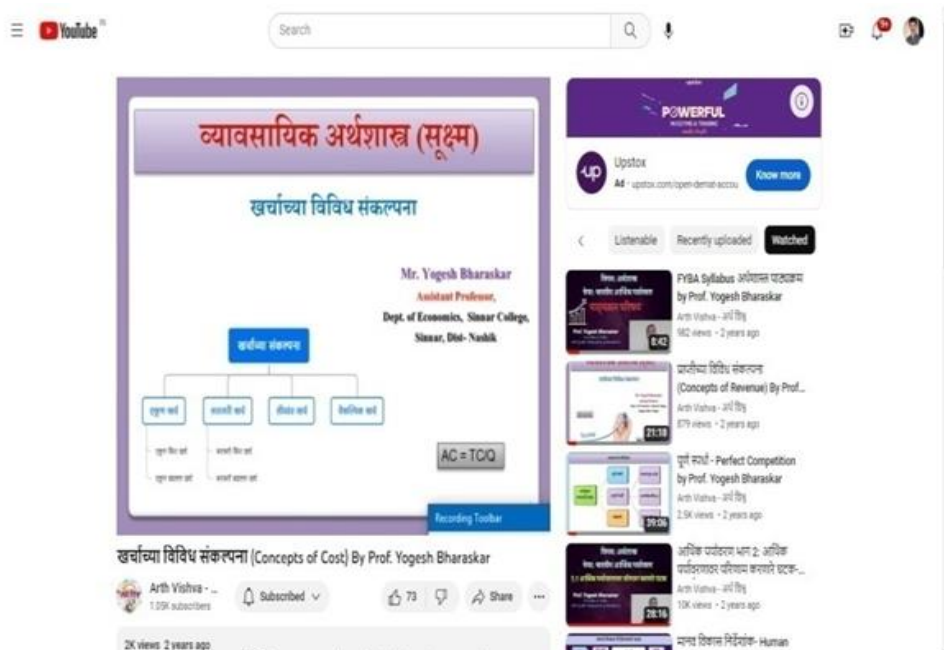
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15:50 2K views · 2 years ago

Arth Vishva - अर्थ विश्व
23:34 1.5K views · 2 years ago

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28:16 10K views · 2 years ago

Arth Vishva - अर्थ विश्व
8:42 982 views · 2 years ago

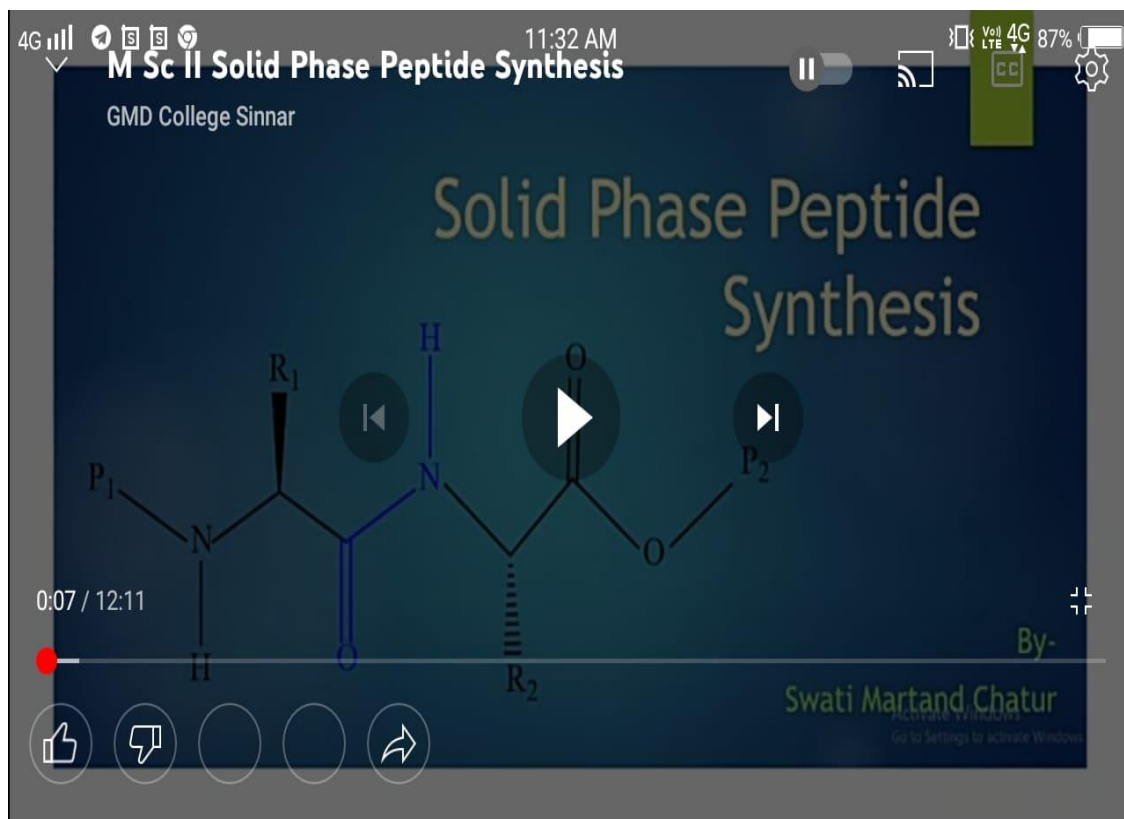
Arth Vishva - अर्थ विश्व
4:02 16K views · 2 years ago



YouTube Video lectures

Department of Chemistry (2023-24)

ICT Enabled Teaching Method:



Carbohydrates



4G 1:09 PM
Protection & Deprotection Lecture 3
 GMD College Sinar

- Tetrahydropyranyl Ethers: (THP)

It is readily introduced by reaction of the enol ether dihydropyran with an alcohol in the presence of an acid catalyst such as TsOH, BF₃, POCl₃. THP group is readily hydrolyzed under aqueous acidic conditions with AcOH-THF, TsOH, Dowex-H (cation exchange resin)

Formation: DHP, PPTS, CH₂Cl₂

Cleavage: PPTS, EtOH
 Amberlyst H-15, MeOH

Reaction scheme: R-OH + dihydropyran <=>[H^+, PhH] R-O-THP

Reaction scheme: R-O-THP + HOR <=>[20^\circ C] R-OH + dihydropyran

1:49 / 7:56

Diastereomers are possible.

Reaction scheme showing the equilibrium between Ethyl α-D-glucopyranose α-anomer, Open chain form, and Ethyl β-D-glucopyranose β-anomer.

Video lectures

Video lectures

Department of Physics (2023-24)

ICT Enabled Teaching Method:

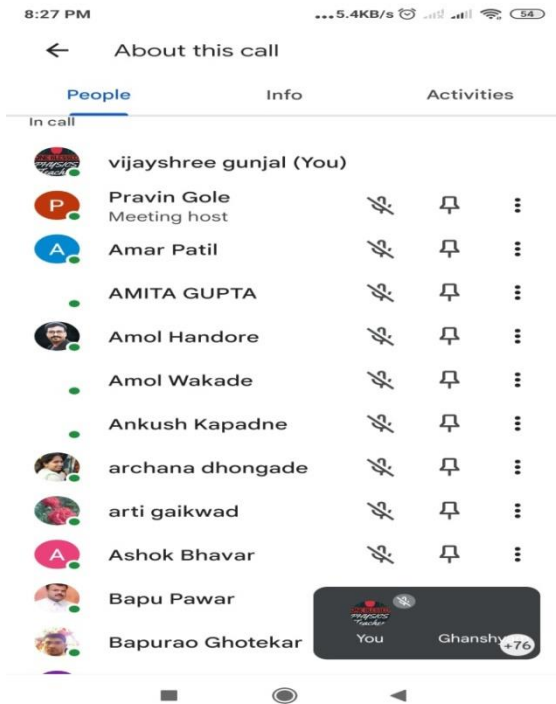
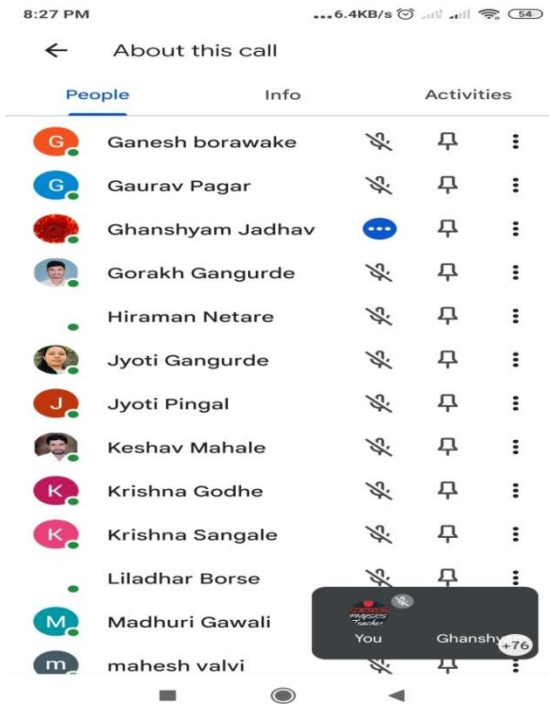
Rutherford's Atomic model

Rutherford concluded that:

- The entire positive charge and mass of the atom is concentrated in a small central core called nucleus.
- The diameter of the nucleus was found to be about 10^{-6} m.
- The diameter of an atom is about 10^{-10} m. Thus, the nucleus occupies a volume which is only a millionth part of an atom. This shows that there is a lot of empty space in the atom which is difficult to imagine.
- The nucleus is surrounded by a cloud of electrons whose total negative charge is equal to the positive charge, so that the atom is electrically neutral.

Video lectures

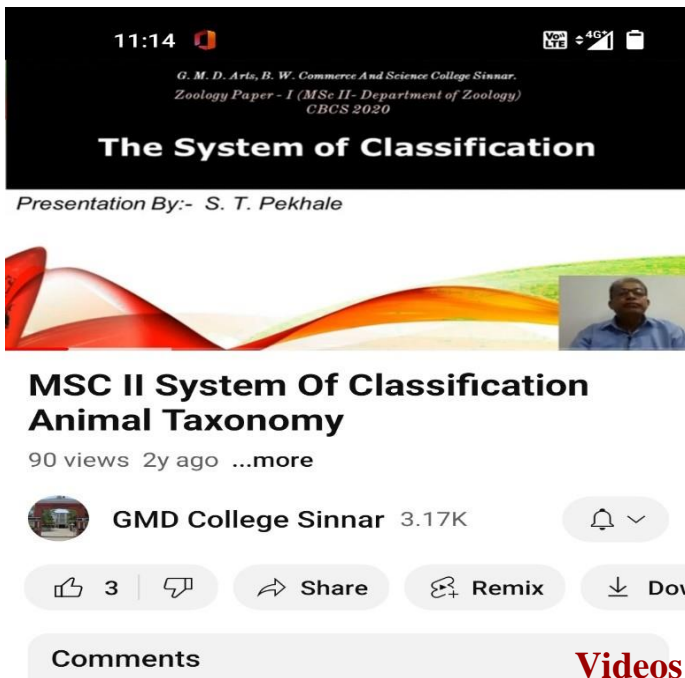
Videos on YouTube



Google Meet Attendance

Department of Zoology (2023-24)

ICT Enabled Teaching Method:



11:14

G. M. D. Arts, B. W. Commerce And Science College Sinnar,
Zoology Paper - I (MSc II- Department of Zoology)
CBCS 2020

The System of Classification

Presentation By:- S. T. Pekhale

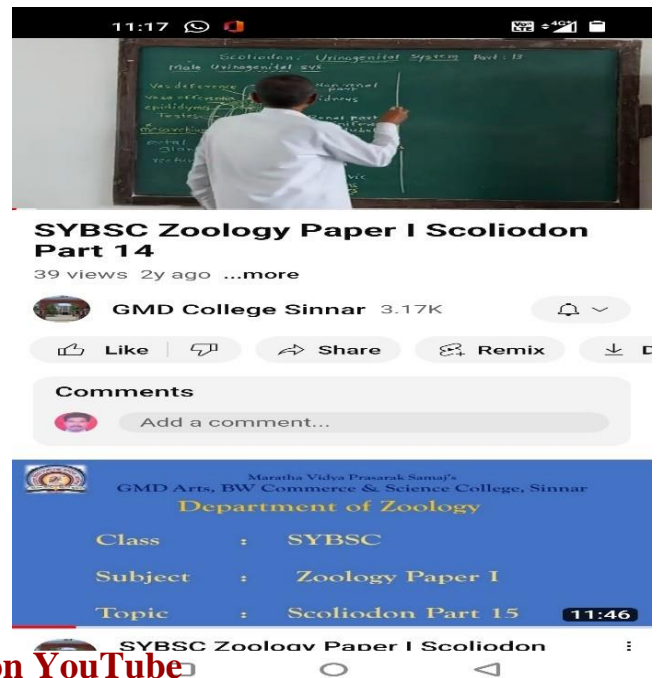
MSC II System Of Classification
Animal Taxonomy

90 views 2y ago ...more

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Comments



11:17

SYBSC Zoology Paper I Scoliodon Part 14

39 views 2y ago ...more

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Comments

Add a comment...

Maratha Vidya Prasarak Samaj's
GMD Arts, BW Commerce & Science College, Sinnar
Department of Zoology

Class : SYBSC
Subject : Zoology Paper I
Topic : Scoliodon Part 15

11:46

SYBSC Zoology Paper I Scoliodon

Videos on YouTube

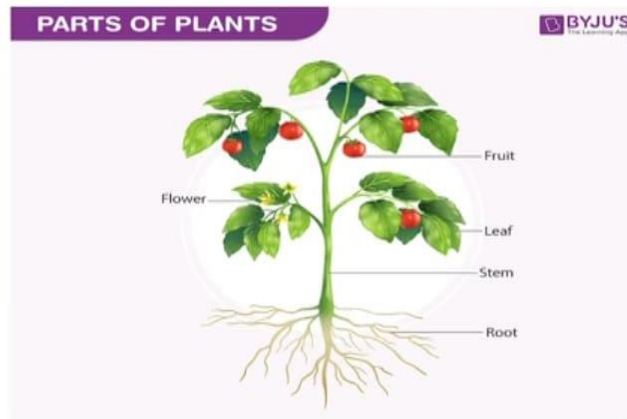
Department of Botany (2023-24)

ICT Enabled Teaching Method:



Google Meet video lecture by Asst. Prof. R. K. Patil

➤ Parts Of Plants :-

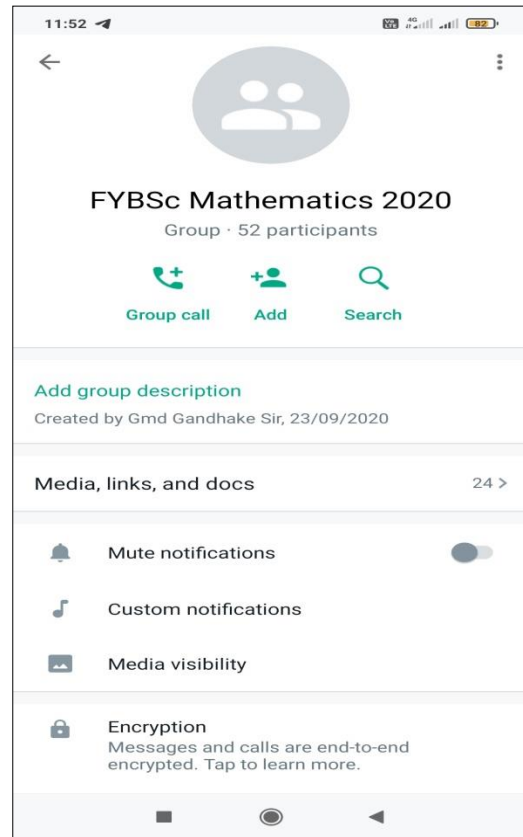
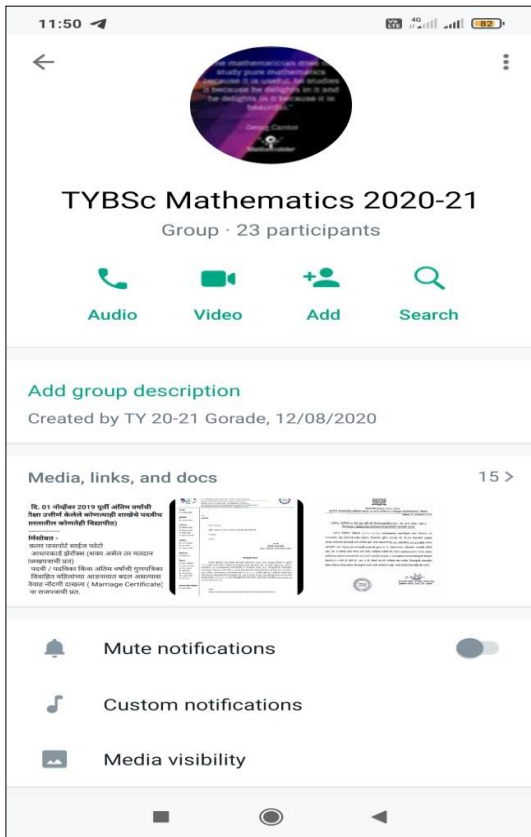


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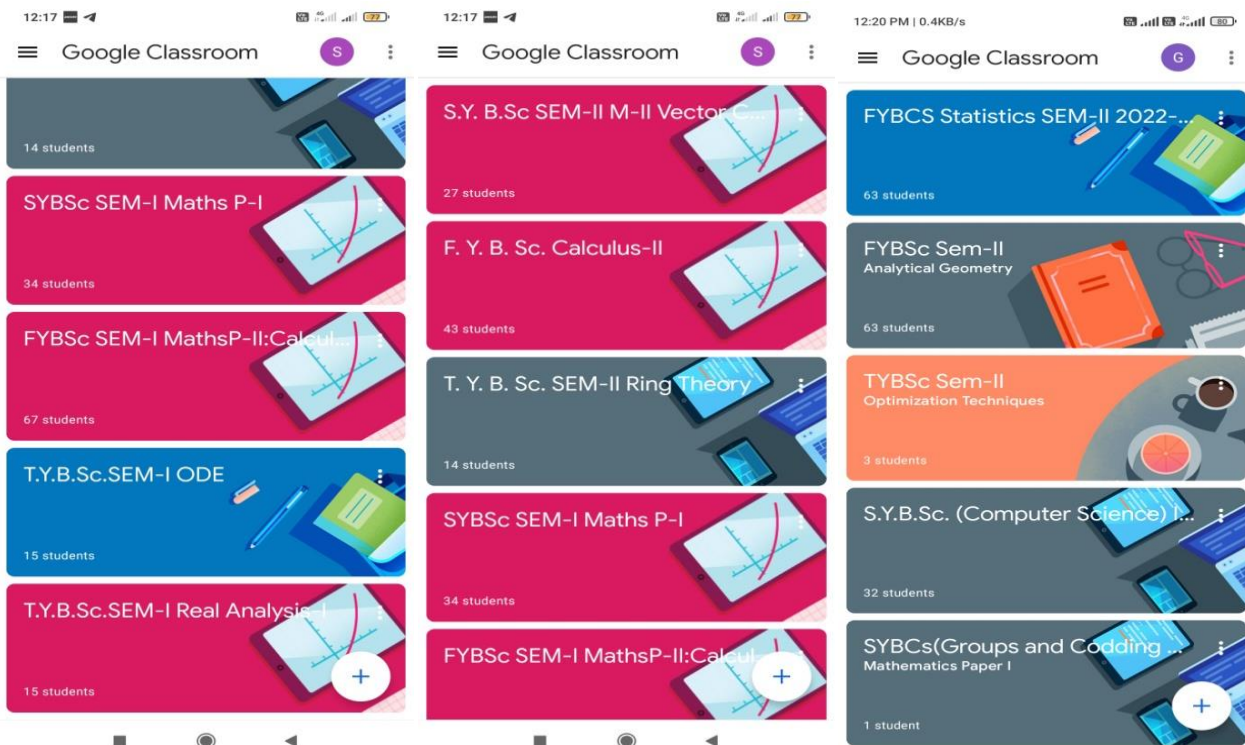
Asst. Prof. A.V. More .

**Google Meet video lecture using PPT
by Asst. Prof. A. V. More**

ICT Enabled Teaching Method:



WhatsApp group created for student



Google Classrooms Created for students

ICT Enabled Teaching Method:

YouTube <https://www.youtube.com/watch?v=Lhtkp2VMhHE> 🔍 🔊 ⋮ 🔗 Sign in

BASIC TECHNIQUES IN MICROBIOLOGY



**Class :- F.Y.B.Sc
Paper - II**

**Topic-
Standard Units
(SI Units)**



Mr. Bhushan A. Khairnar
M.Sc -Microbiology,
CSIR-UGC NET/JRF
(AIR-50), MH-SET

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Study of Pathogen Candida albicans
Academy For Life Science
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MEDICAL MICROBIOLOGY & IMMUNOLOGY
Academy For Life Science
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Hugh Jeffreys
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Rajendra Karwa, Ph.D.
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Miyamoto Musashi Meditation: Enter Flow State For 1 Hour
The Way Of The Chosen Man
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2 SI Units

YouTube <https://www.youtube.com/watch?v=xH3oSEo-U0Q> 🔍 🔊 ⋮ 🔗 SI

INTRODUCTION TO MEDICAL MICROBIOLOGY

Class :- S.Y.B.Sc
Subject :- Medical Microbiology & Immunology

Topic

Study of pathogens with respect to –Classification, Morphological, Cultural and Biochemical characters, Antigenic structure, Viability characteristics, Pathogenicity, Pathogenesis, Symptoms, Laboratory diagnosis, Epidemiology, Prophylaxis and Chemotherapy:

Pathogen:- *Candida albicans*



Mr. Bhushan A. Khairnar
M.Sc - Microbiology
CSIR-UGC NET/JRF (AIR-50), MH-SET

Study of Pathogen S aureus
Academy For Life Science
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Microbiology 585 c Candida SDA agar germ tube test...
MBBS VPASS
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4. Descriptive and Analytical Studies | CPP NCD...
Brian P. Mangum
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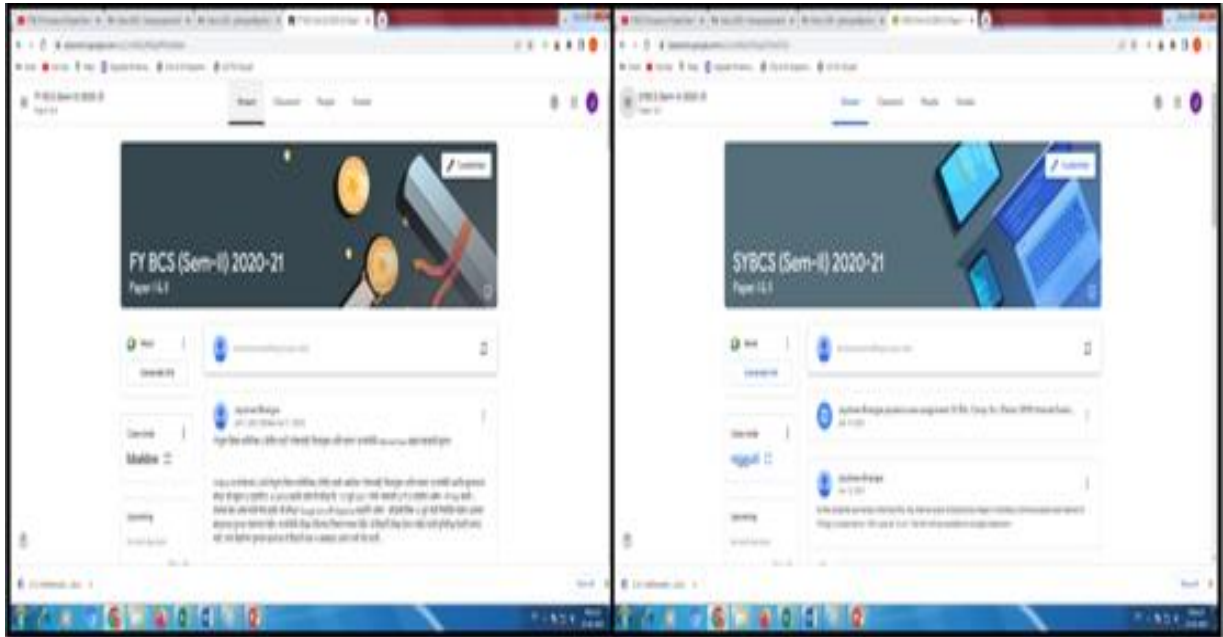
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Study of Pathogen Candida albicans

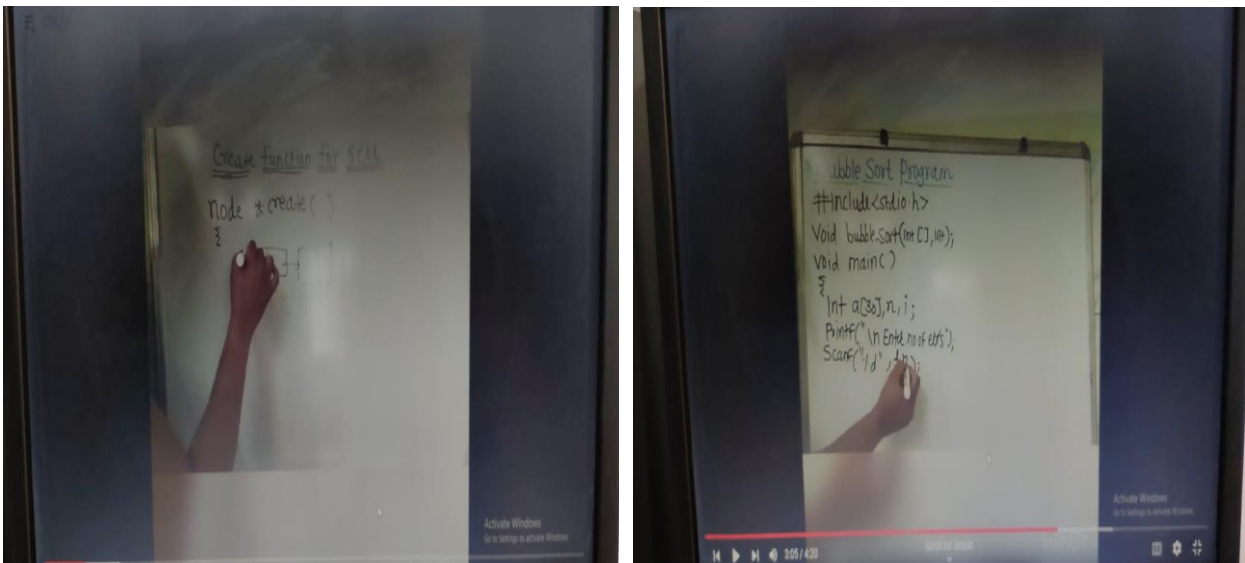
Department of Computer Science

ICT Enabled Teaching Method:



Google Classroom for F.Y. & S.Y. B.Sc.

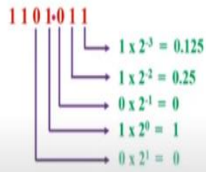
Comp. Science



Online Lectures

Binary (Fraction) to Decimal Conversion

Example: Convert $(1101.011)_2 = (?)_{10}$



Octal to Binary Conversion

The conversion from octal to Binary is performed by converting each octal digit to its 3-bit binary equivalent.

Example: $(365)_8 = (?)_2$

$(365)_8 = (011\ 110\ 101)_2$



Example: $(523.7)_8 = (?)_2$

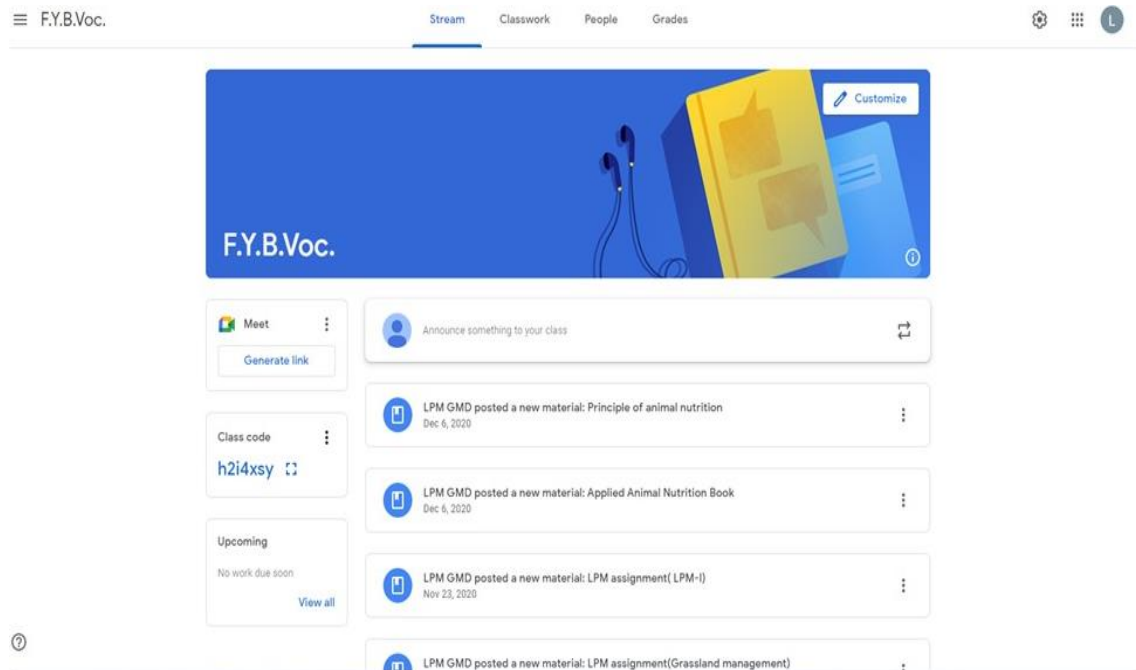


Octal	Binary
0	000
1	001
2	010
3	011
4	100
5	101
6	110
7	111

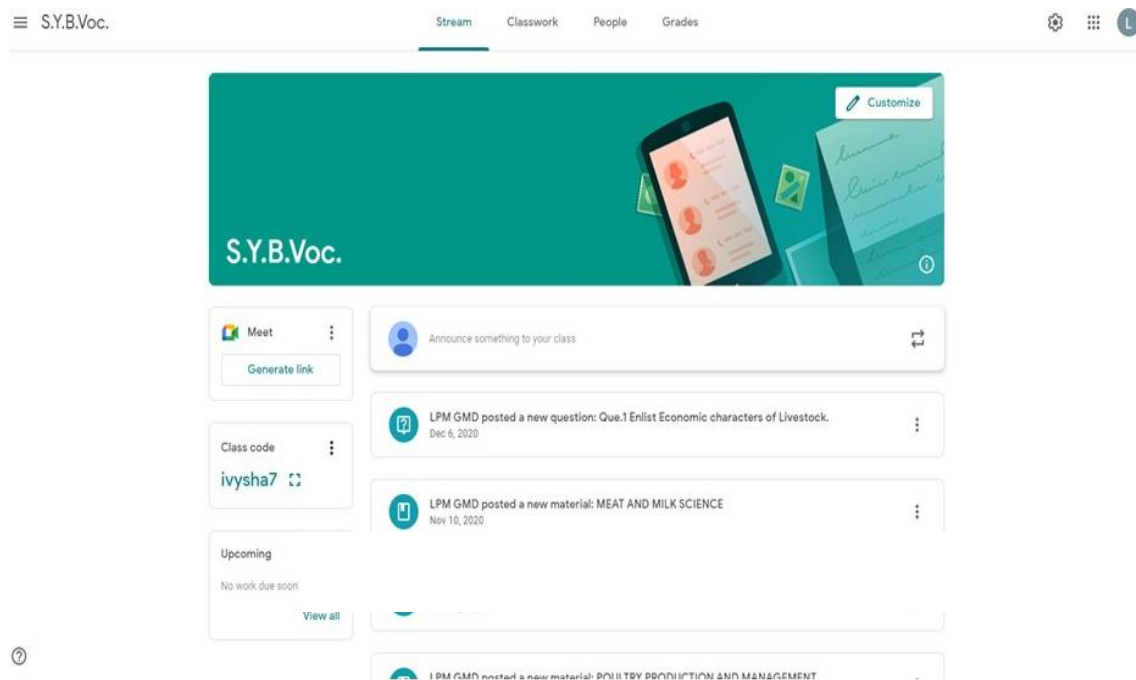
- Online Video Lectures Conducted during Pandemic

Department of B.Voc (LPM) (2023-24)

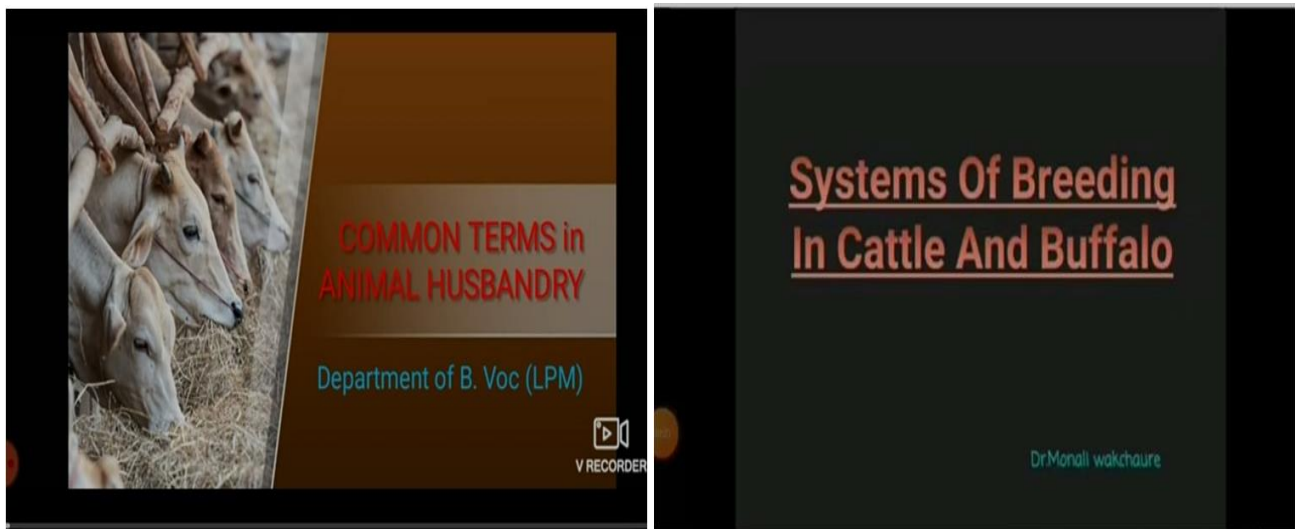
ICT Enabled Teaching Method:



F.Y. B.Voc (LPM) Google Classroom



S.Y. B.Voc (LPM) Google Classroom



Video Lectures

 Maratha Vidya Prasarak Samaj's
GMD Arts, BW Commerce & Science College, Sinnar
B. Voc.
Livestock Production and Management
Class : F. Y. B. Voc.
Subject : Livestock Production & Management
Topic : Health Management of Cattle & Buffalo

F.Y . B.VOC (LPM)
Topic – Health management of
cattle & Buffalo
You Tube Video Lecture

Leguminous Fodder Crops

F.Y. B.VOC (LPM)

**Topic – Leguminous fodder
Crops**

You tube Video Lecture

Department of B.Voc (FPP)

ICT Enabled Teaching Method:



YouTube Video Lectures

Department of Commerce (2023-24)

ICT Enabled Teaching Method:



Maratha Vidya Prasarak Samaj's
GMD Arts, BW Commerce & Science College, Sinnar

Department of Commerce

Class : TYBCOM

Subject : Marketing Management II

Topic : Chapter 4 - **Lecture 7** 20:12



TYBCOM Marketing Management II
Chapter 4 Lecture 7

:



Maratha Vidya Prasarak Samaj's
GMD Arts, BW Commerce & Science College, Sinnar

Department of Commerce

Class : T.Y.B.Com.


Subject: Advance Accounting

Topic : Insurance Claim A/c (**Lect.- 3**) 23:05



TYBCOM Advance Accounting Insurance
Claim Alc Lecture 3

:



Maratha Vidya Prasarak Samaj's
GMD Arts, BW Commerce & Science College, Sinnar

Department of Commerce

Class : TYBCOM


Subject : Business Administration II

Topic : Chapter 4 - **Lecture 6** 12:59



TYBcom Business Administration III
Chapter 4 lecture 6

:



Maratha Vidya Prasarak Samaj's
GMD Arts, BW Commerce & Science College, Sinnar

Department of Commerce

Class : FYBCOM

Subject: Consumer Protection & Business Ethics

Topic : Chapter 3 - **Lecture 24** 15:22



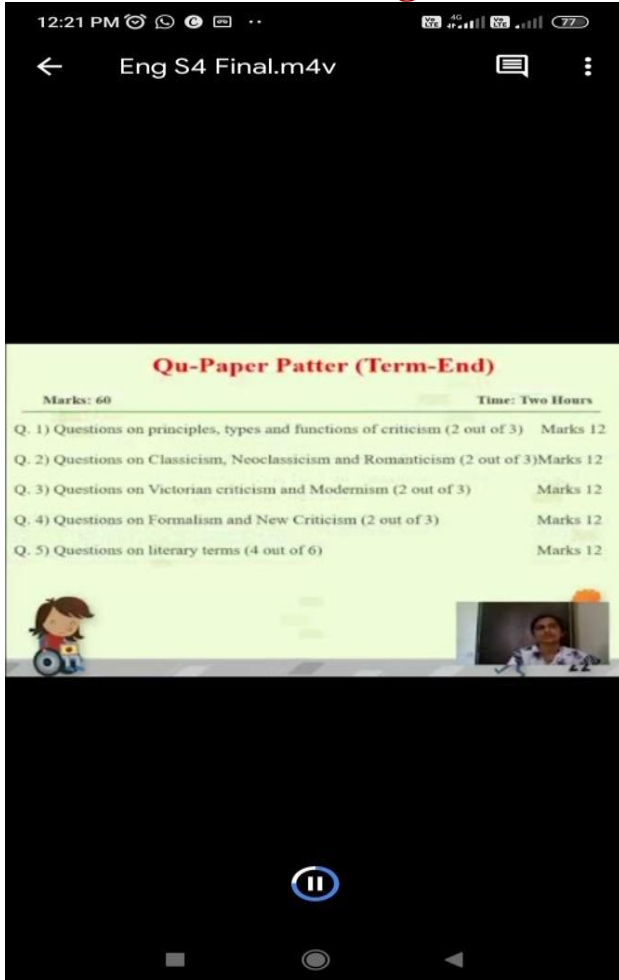
F Y Bcom Consumer Protection &
Business Ethics Chapter 3 Lecture 24

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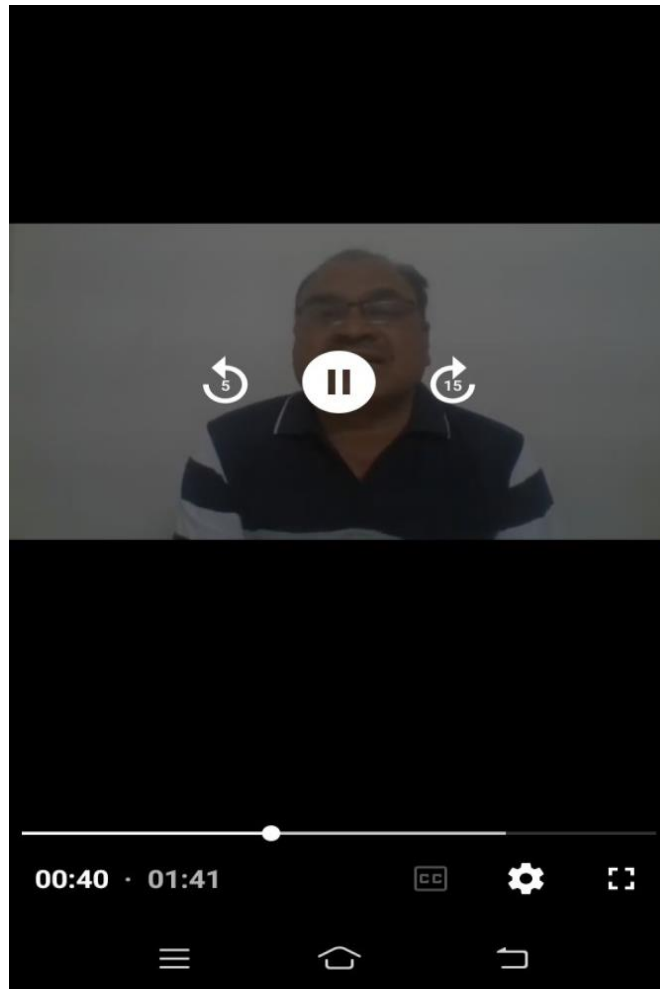
YouTube Video Lectures

Department of English (2023-24)

ICT Enabled Teaching Method:



Video Lectures by S.R. Shinde for TYBA and FYBA



Video Lecture by Dr. C. E. Gurule (MA)

Department of Marathi (2023-24)

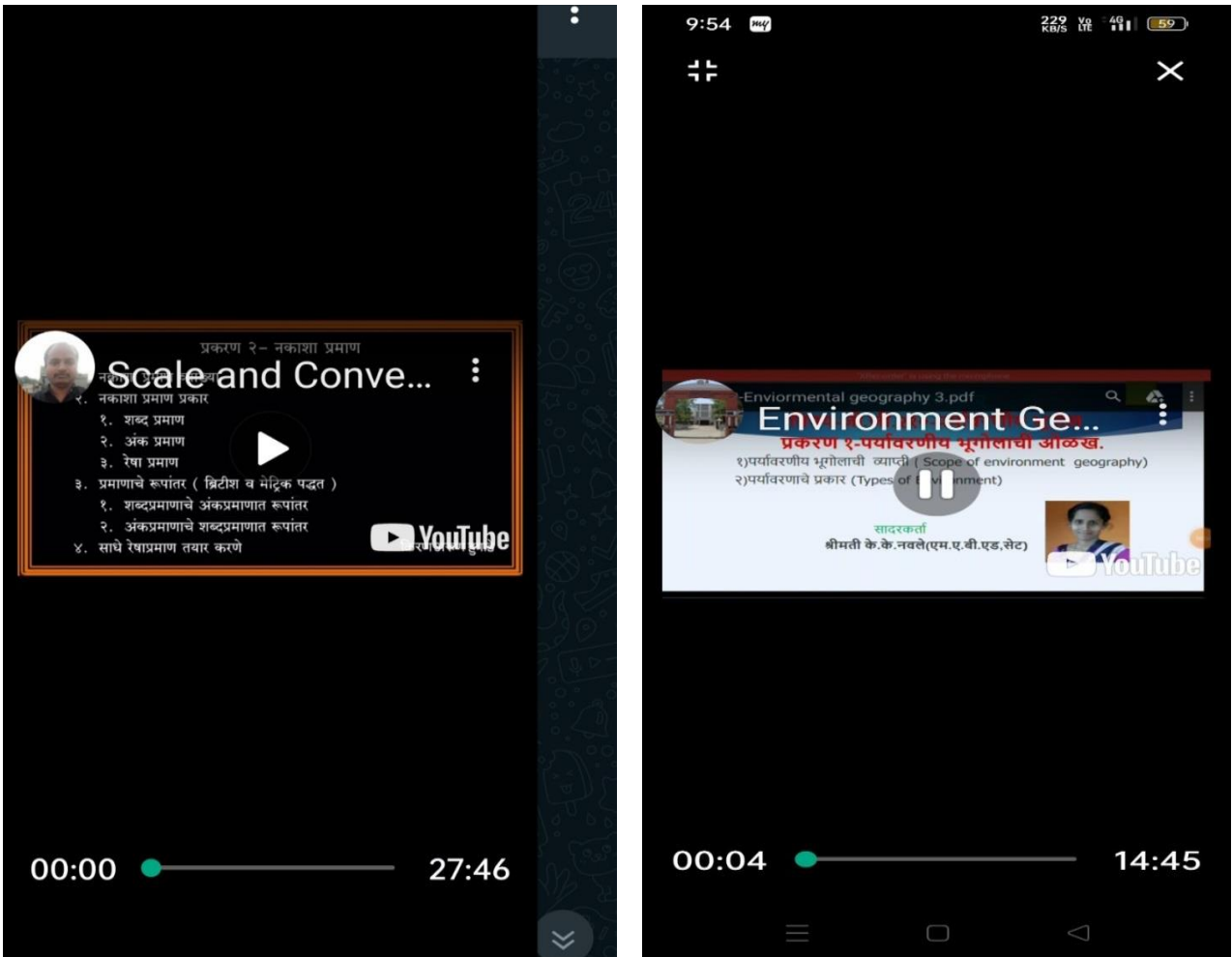
ICT Enabled Teaching Method:



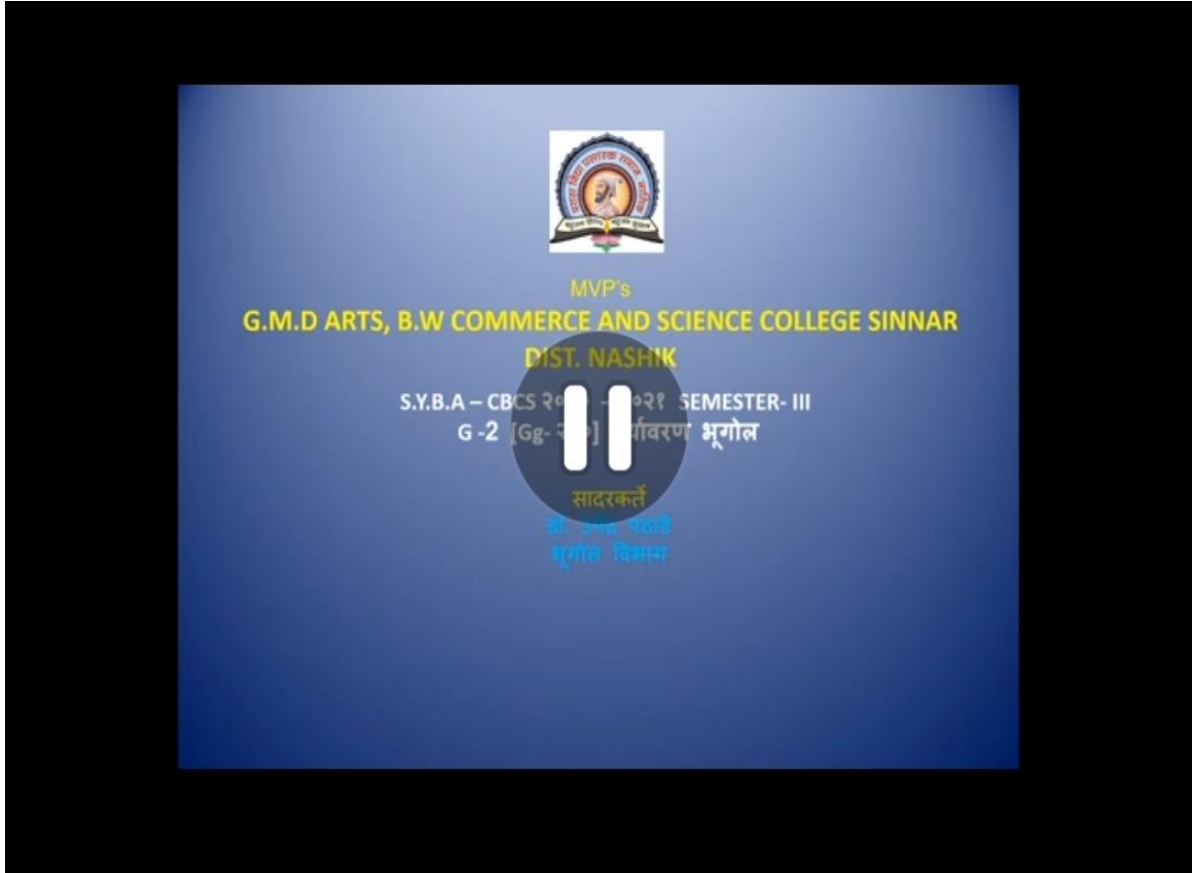
YouTube Video Lectures

Department of Geography (2023-24)

ICT Enabled Teaching Method:



You Tube Videos





You Tube Videos

Department of History (2023-24)

ICT Enabled Teaching Method:

गुरुवर्य मामासाहेब दांडेकर काला, भगवंतराव वाजे वाणिज्य
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PPTs for teaching

Department of Economics (2023-24)

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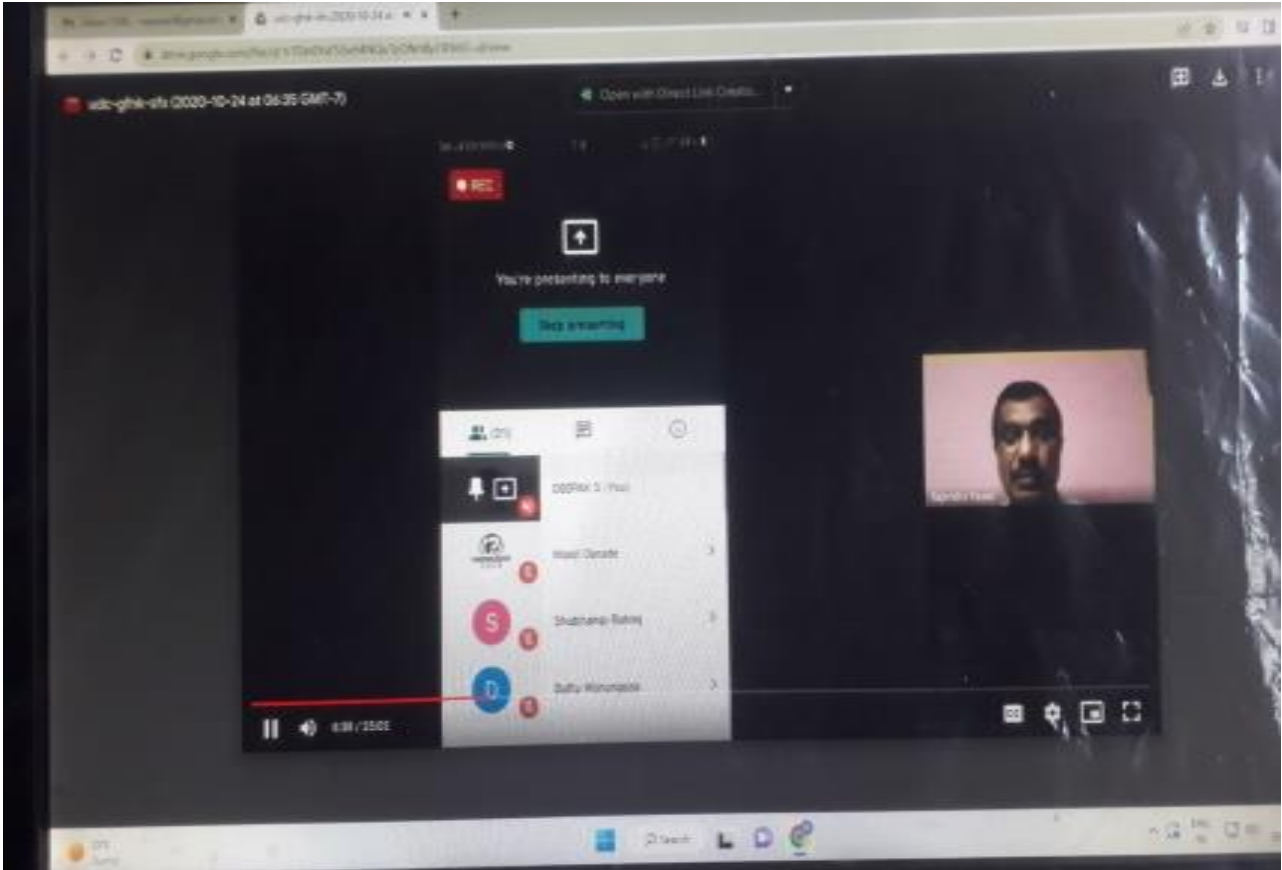
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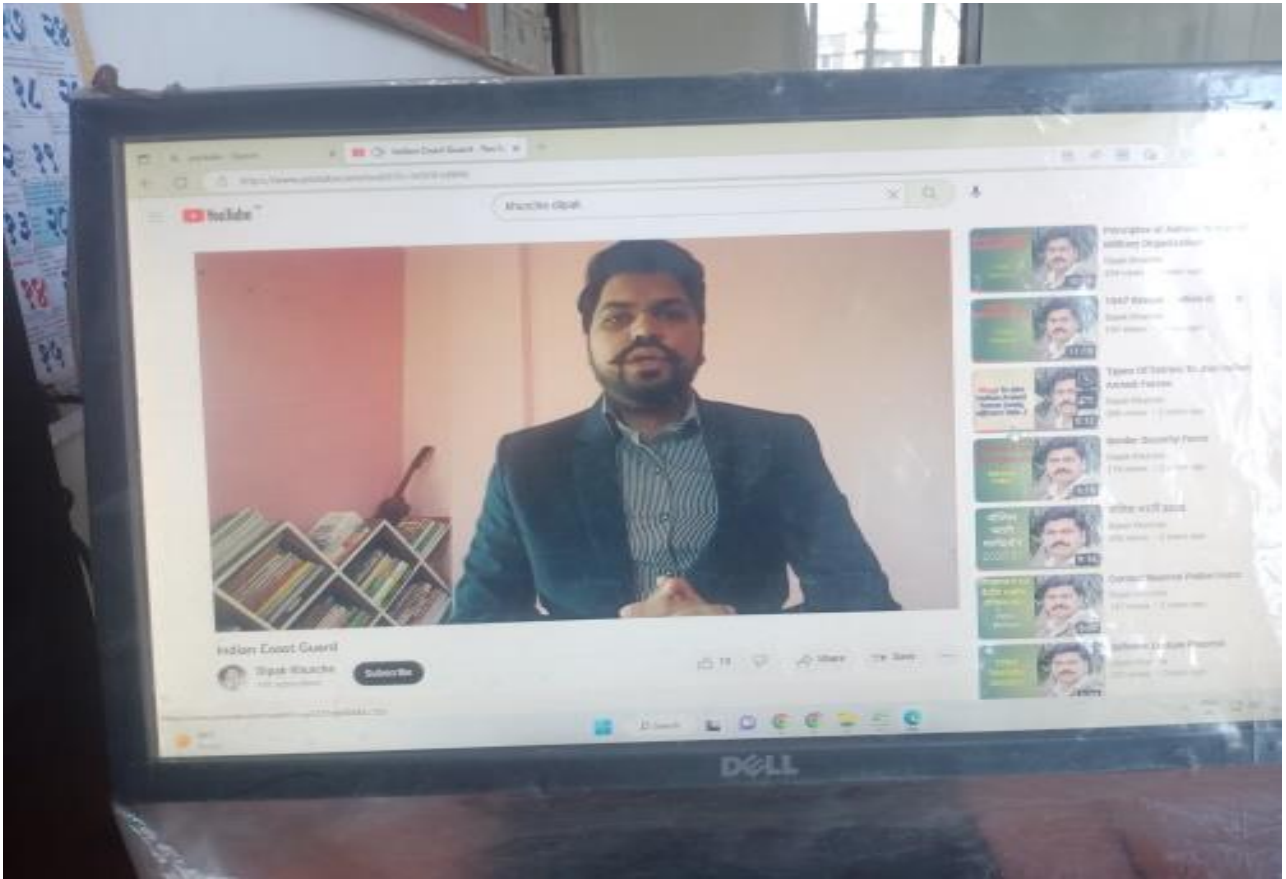
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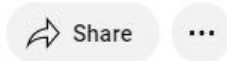
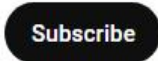
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