

#### Maratha Vidya Prasarak Samaj

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

Affiliated to Savitribai Phule Pune University, Pune

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

AISHE:C-41292

Best College Awarded by SPPU2012-13

sinnarcollege001@yahoo.com

ISO 9001:2015 Certified College

www.gmdcollege.in

#### 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 using ICT enable tools including online resources for effective teaching and learning process



Detail of student centric methods used for learning process using ICT tools



Maratha Vidya Prasarak Samaj's G.M.D. Arts, B.W. Commerce & Science College, Sinnar

Tal. Sinnar, Dist. Nashik - 422 103 (M.S.) INDIA

Best College Award by Savitribai Phule Pune University 2012-13 Dr. P. V. Rasal

(M.A., LL.B., Ph.D.)

Member : B.O.S. (Psychology)

Savitribai Phule Pune University

E-mail: rasalpundlik@gmail.com

Affiliated to Savitribai Phule Pune University ID No.: PU/NS/ASC/013/(1969)

Junior College No. J.13.13.001

HTE Sevaarth ID - 06220100119\_AST AISHE - C - 41292

Ref. No. 537/2023-24

Date: 13/07/2023

#### **DECLARATION**

This is to declare that the information, reports, true copies of the supporting documents, numerical data, provided links, institutional data, photographs etc. submitted/presented herewith is verified by Internal Quality Assurance Cell (IQAC) of this college and is correct as per the records. This declaration is for the purpose of NAAC accreditation of HEI for the 4<sup>th</sup> Cycle during the period from 2017-2018 to 2021-2022.

Date: 13/07/2023

Place: Sinnar

Dr. C. E. Gurule
Coordinator, IQAC
Co-ordinator
IQAC

G. M. D. Arts, B.W. Commerce & Science College, Sinnar, Dist. Nashik 422103



Dr. P. V. Rasal Chairman, IQAC and Principal

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

• Email - sinnarcollege001@yahoo.com / iqac@gmdcollege.in • Website - www.gmdcollege.in © Office: (02551) 220099 • Fax: (02551) 220114



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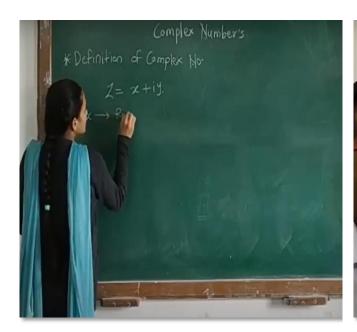
2.3.1 Student centric methods such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences using ICT enable tools including online resources for effective teaching and learning process

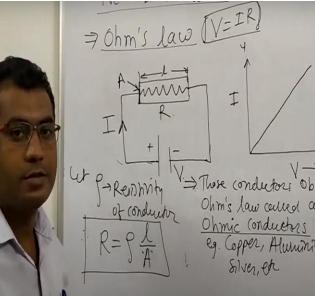
#### **Index**

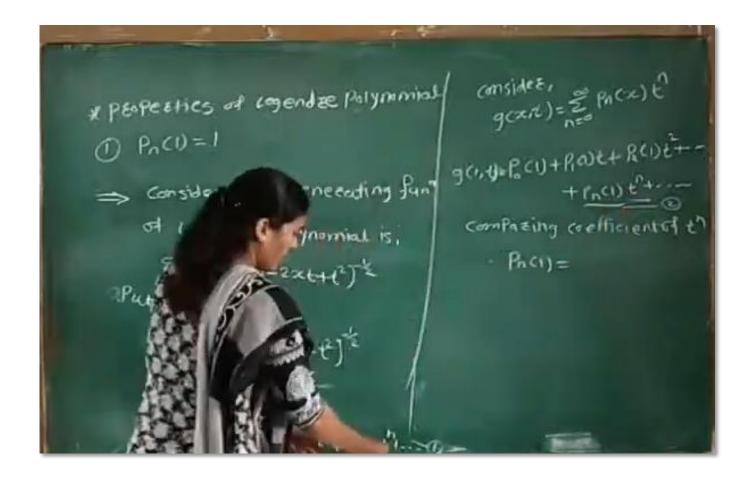
Se. N.	Academic Year	Department	Method used for teaching
1	2017-18	Physics	Chalk & Talk Method
		Zoology	Chalk & Talk Method
			Experiential Learning Method
			ICT Enabled Teaching Method
		Botany	Chalk & Talk Method
		Mathematics	Chalk & Talk Method
			ICT Enabled Teaching Method
		Computer Science	Experiential Learning Method
			ICT Enabled Teaching Method
		Geography	ICT Enabled Teaching Method
	2018-19	Chemistry	Chalk & Talk Method
			Experiential Learning Method
			ICT Enabled Teaching Method
		Physics	Chalk & Talk Method
			ICT Enabled Teaching Method
		Zoology	Experiential Learning Method
2		Botany	Chalk & Talk Method
		Computer Science	Chalk & Talk Method
			Experiential Learning Method
ļ			ICT Enabled Teaching Method
		Marathi	Chalk & Talk Method
		Geography	ICT Enabled Teaching Method
		History	ICT Enabled Teaching Method
	2019-20	Chemistry	Experiential Learning Method
3			ICT Enabled Teaching Method
		Physics	ICT Enabled Teaching Method
		Zoology	Experiential Learning Method
			ICT Enabled Teaching Method
		Botany	ICT Enabled Teaching Method
		Microbiology	ICT Enabled Teaching Method
		Computer Science	Experiential Learning Method
			ICT Enabled Teaching Method
		B. Voc LPM	ICT Enabled Teaching Method
		B. Voc FPP	Chalk & Talk Method
			Experiential Learning Method

			ICT Enabled Teaching Method
		Marathi	ICT Enabled Teaching Method
		Geography	ICT Enabled Teaching Method
		History	ICT Enabled Teaching Method  ICT Enabled Teaching Method
		Economics	
			ICT Enabled Teaching Method
	2020-21	Chemistry	ICT Enabled Teaching Method
		Physics	ICT Enabled Teaching Method
		Zoology	ICT Enabled Teaching Method
		Botany	ICT Enabled Teaching Method
		Mathematics	ICT Enabled Teaching Method
		Microbiology	ICT Enabled Teaching Method
		Computer Science	ICT Enabled Teaching Method
		B. Voc LPM	ICT Enabled Teaching Method
4		B. Voc FPP	ICT Enabled Teaching Method
		Commerce	ICT Enabled Teaching Method
		English	ICT Enabled Teaching Method
		Marathi	ICT Enabled Teaching 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
	2021-22	Chemistry	Experiential Learning Method
			ICT Enabled Teaching Method
		Physics	Chalk & Talk Method
		Jana	ICT Enabled Teaching Method
		Zoology	ICT Enabled Teaching Method
		Botany	ICT Enabled Teaching Method
		Mathematics	ICT Enabled Teaching Method
		Microbiology	Chalk & Talk Method
		Wheresteragy	Experiential Learning Method
			ICT Enabled Teaching Method
		Computer Science	ICT Enabled Teaching Method
5		B. Voc LPM	Experiential Learning Method
3		B. VOCEIVI	ICT Enabled Teaching Method
		B. Voc FPP	Experiential Learning Method
		B. V 60 111	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

#### **Department of Physics (Year2017-18)**







## **Department of Zoology (Year 2017-18)**

## **Experiential Learning thorough Field work:**





Apiculture practices S.Y.B.Sc. (Zoology) students actively participated ICT Enabled Classroom

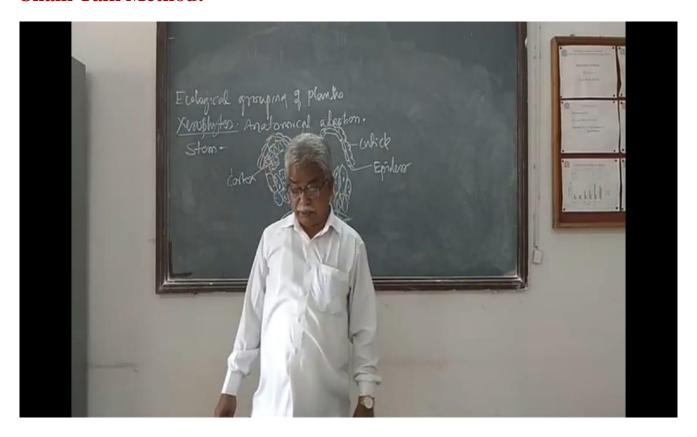
# **ICT Enabled Teaching Method:**







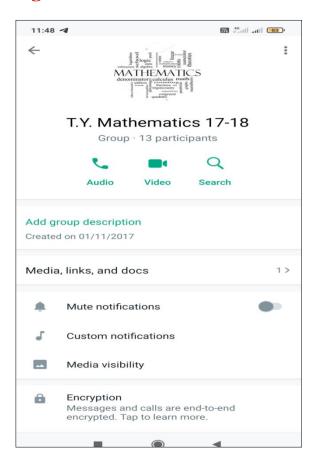
## Department of Botany (2017-18)



Dr. D.M. Jadhav Deliver the lecture to T.Y.B.Sc student

#### Department of Mathematics (2017-18)

## **ICT Enabled Teaching Method:**



#### WhatsApp group created for T.Y.B.ScMathematics student



**Practical Demonstration** 

#### Department of Computer Science (2017-18)

## **Experiential Learning:**



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 (2017-18)

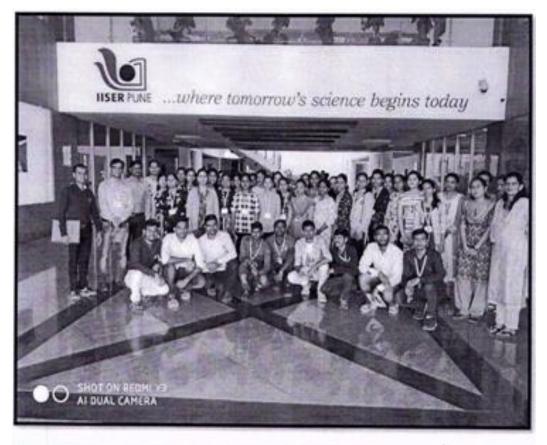






## Department of Chemistry (2018-19)

## **Experiential Learning through Field visit:**





A study tour at MENDELEEV, Pune

#### **ICT Enabled Teaching Method:**

- The observed magnetic moment of the complex (μ) = 2.95 BM
- · The calculated magnetic moment of the complex

$$\mu = \sqrt{n(n+2)}$$
 $= \sqrt{2(2+2)}$ 
 $= \sqrt{8}$ 
 $= \sqrt{24}$ 
 $= 2.82 \text{ BM}$ 

- · The two values are closeby.
- This shows that the complex ion has two unpaired electrons hence it is paramagnetic in nature.

Pratiksha D. Garud

#### **PPTs for lectures**



#### Department of Physics (2018-19)

#### **Chalk Talk Method:**







**PPTs for lectures** 

## Department of Zoology (2018-19)

## **Experiential Learning thorough Field work:**



**Maintenance of Vermicomposting by students** 



**Organic farming visit** 



**Students working in Laboratory** 

## Department of Botany (2018-19)

#### **Chalk Talk Method:**



Dr. D.M. Jadhav Deliver the lecture to T.Y.B.Sc

Department of Computer Science (2018-19)



#### Students watching video on NPTL



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



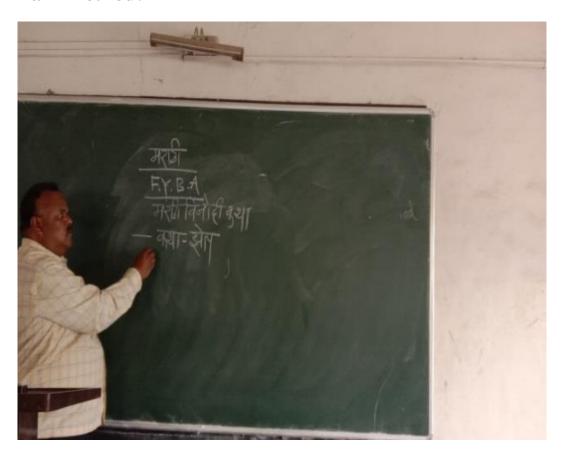
**Teaching using Smart Board** 

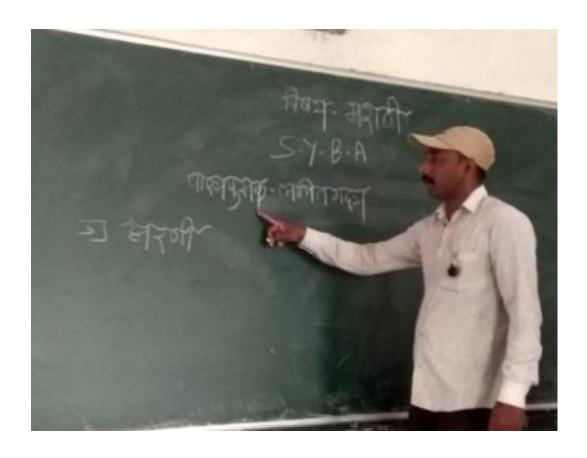


**Practical Demonstration using LCD Projector** 



# Department of Marathi (2018-19)





# Department of Geography (2018-19)





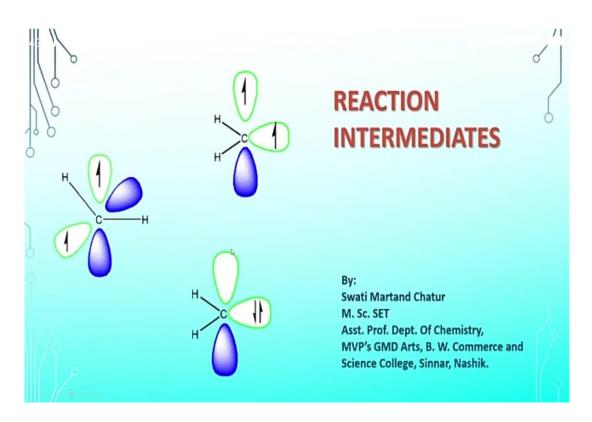
# Department of History (2018-19)



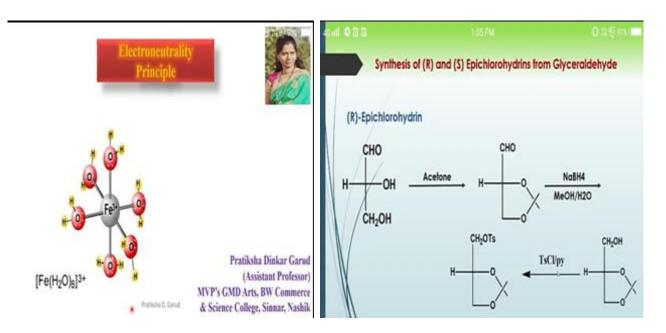
## Department of Chemistry (2019-20)



**ICT Enabled Classroom** 



PPTs used for lectures



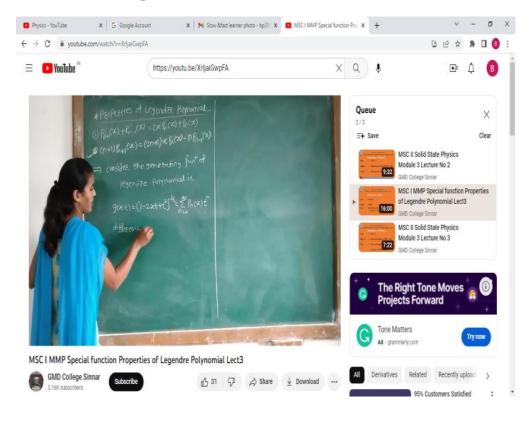
**PPTs used for lectures** 

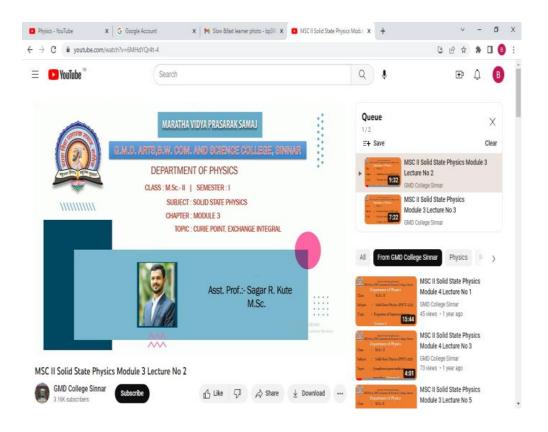
## **Experiential Learning Method:**

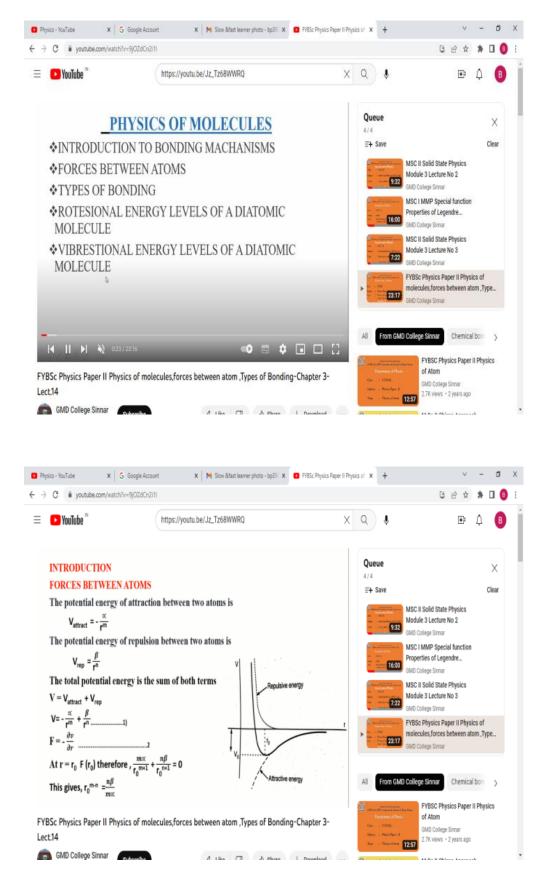


**Laboratory Work** 

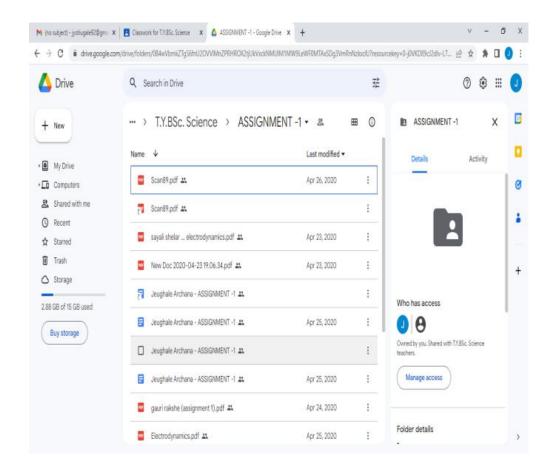
#### Department of Physics (2019-20)

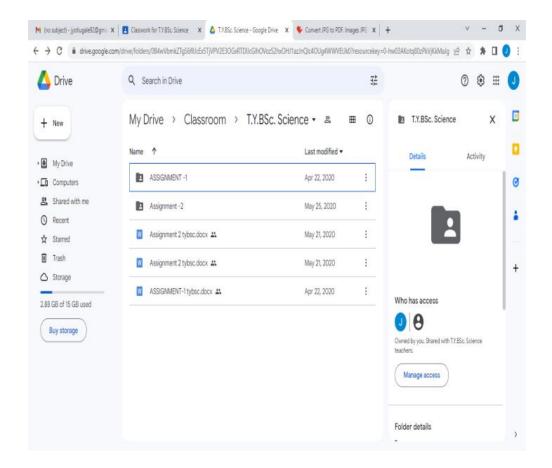




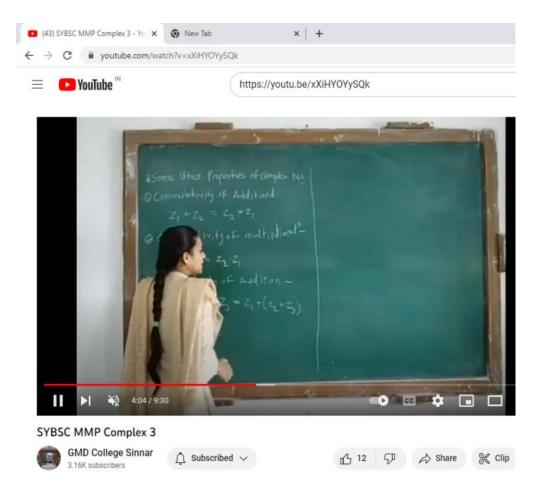


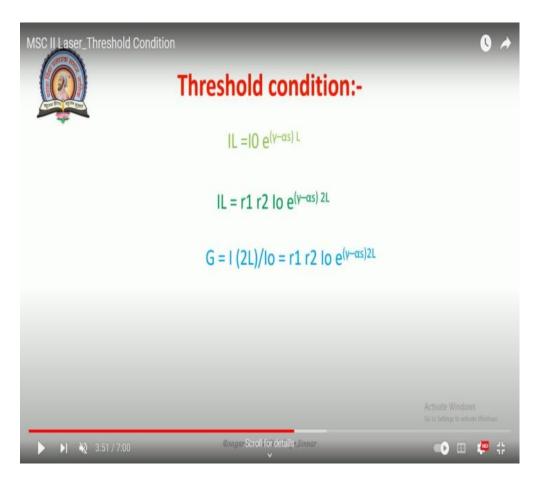
Videos uploaded on YouTube





**Google Classroom** 





YouTube Videos

## Department of Zoology (2019-20)

## **ICT Enabled Teaching Method:**



**ICT Enabled Classroom** 

# **Experiential Learning Method:**



**Seminars by students** 

#### Department of Botany (2019-20)

#### **ICT Enabled Teaching Method:**

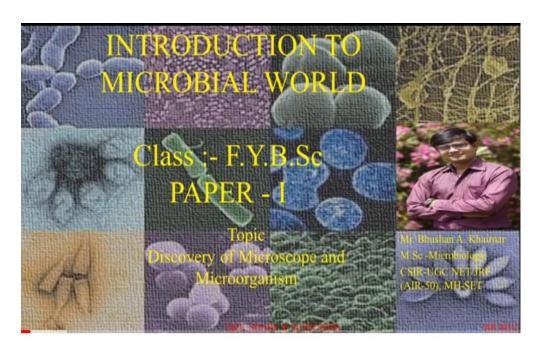
#### Introduction to Biostatistics:



- · 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

PPTs used for lectures

#### **ICT Enabled Teaching Method:**



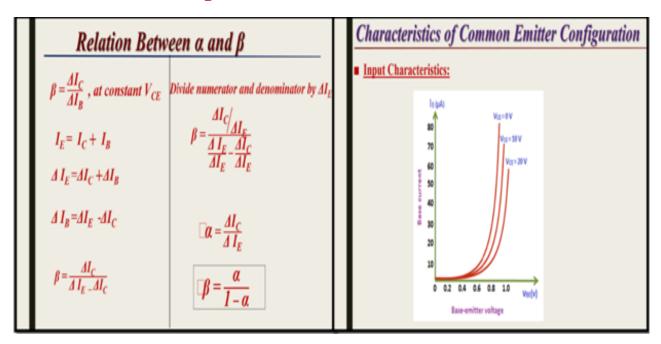
# 2 Discovery of Microscope and Microorganism



# Introduction to Papper II Microbiology Syllabus

Video lectures for F.Y. B.Sc. Students

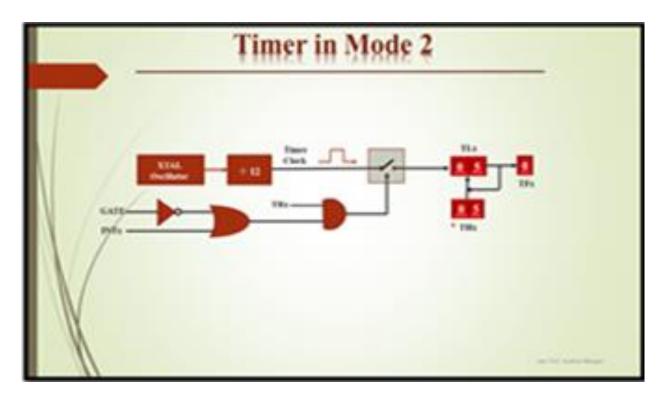
#### Department of Computer Science (2019-20)



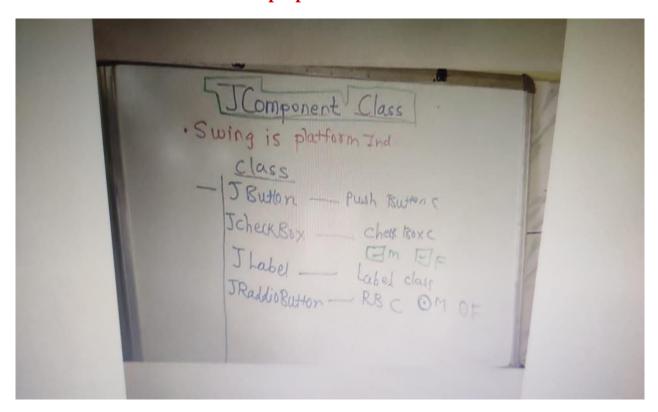
PPTs are prepared for teaching



**Practical Demonstration using LCD Projector** 



PPTs prepared for lectures



**Online Lectures** 



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

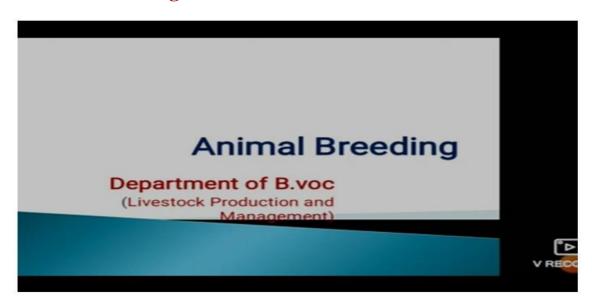
## **Experiential Learning:**



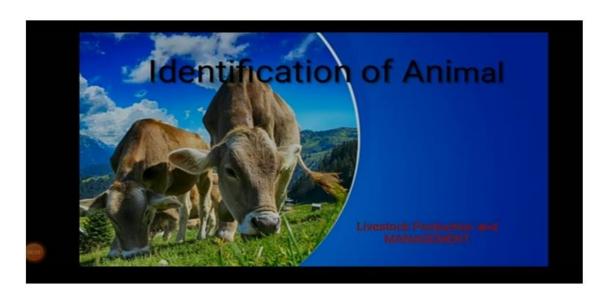
**Seminars by Students** 

#### Department of B.Voc (LPM) (2019-20)

#### **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) (2019-20)

#### **Chalk and Talk Method:**





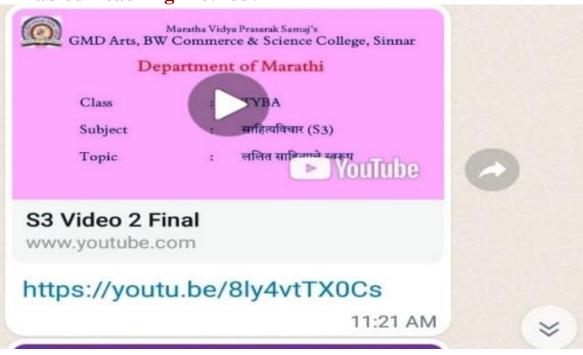
**ICT Enabled classroom** 

# **Experiential learning Method:**



**Practical Work** 

### Department of Marathi (2019-20)

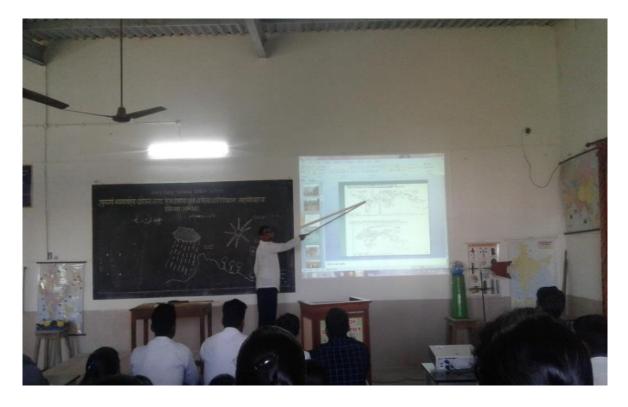




YouTube Video lectures

# Department of Geography (2019-20)





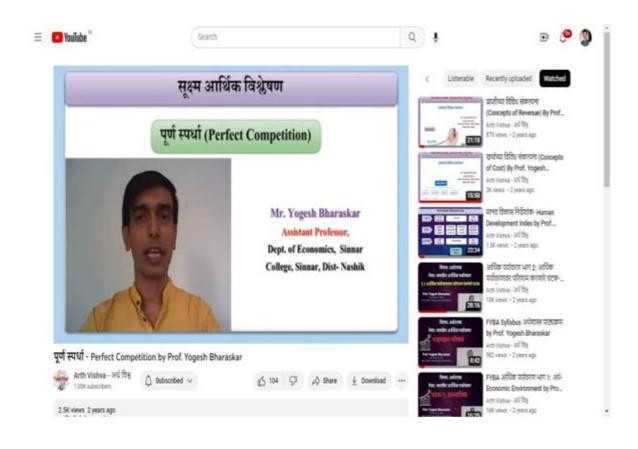
**ICT Enabled classroom** 

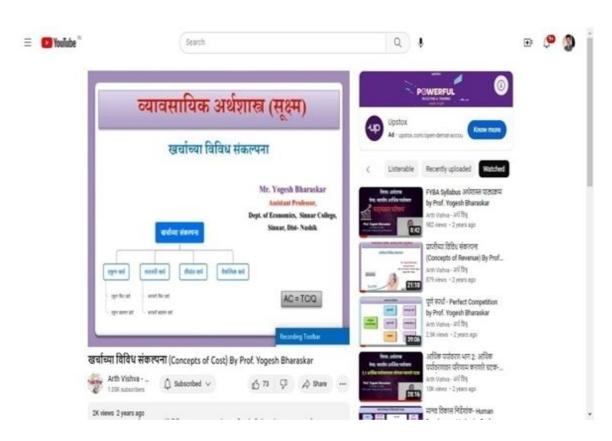
# Department of History (2019-20)



**ICT Enabled Teaching** 

## Department of Economics (2019-20)

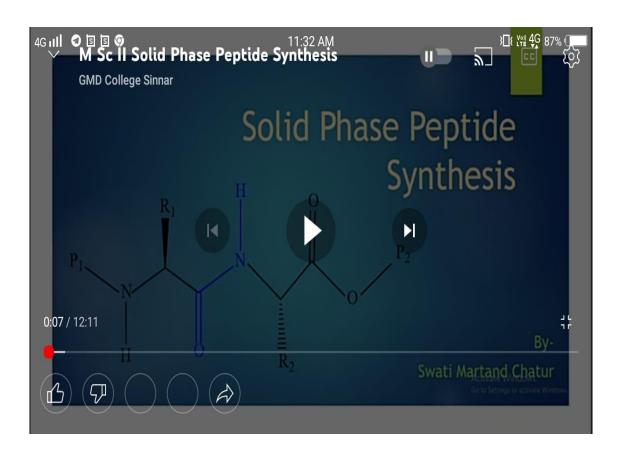


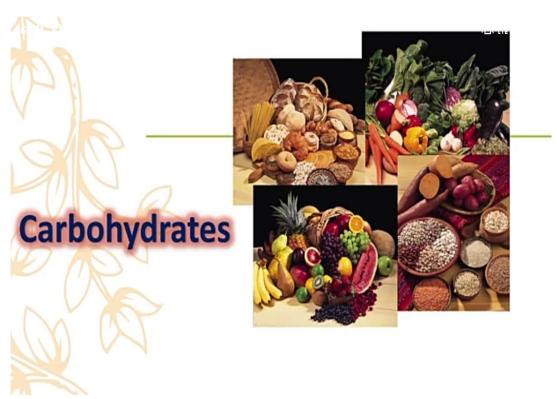


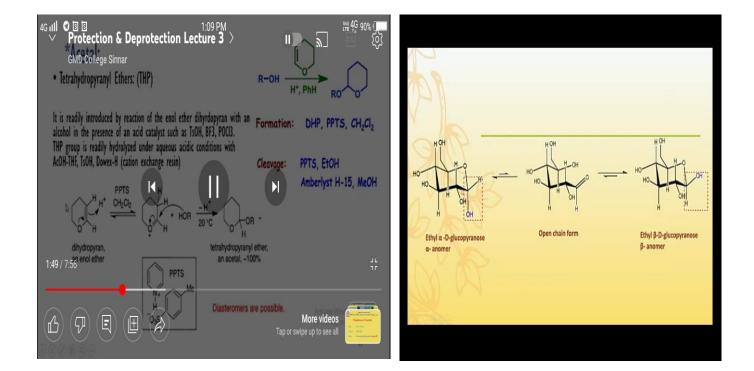


YouTube Video lectures

## Department of Chemistry (2020-21)

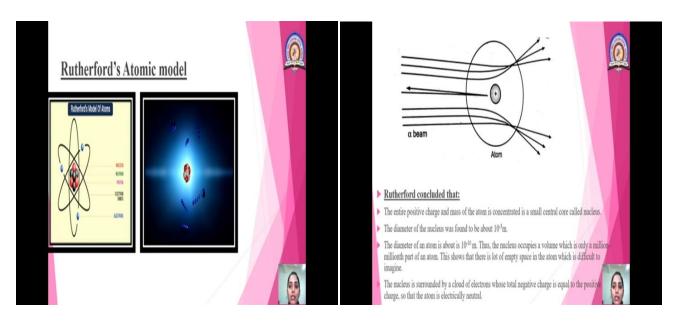




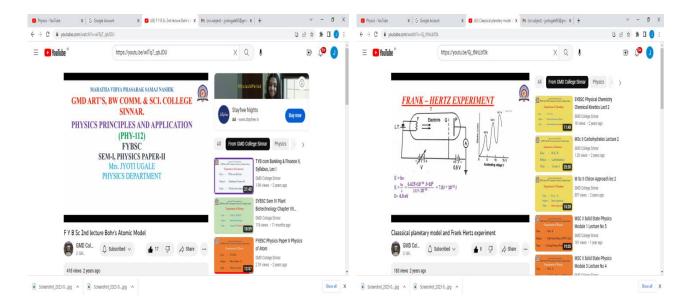


Video lectures

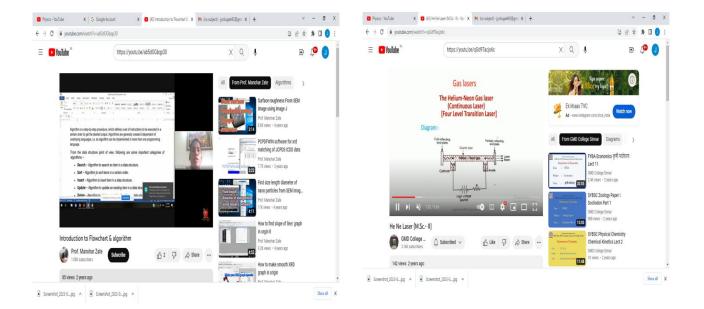
## Department of Physics (2020-21)



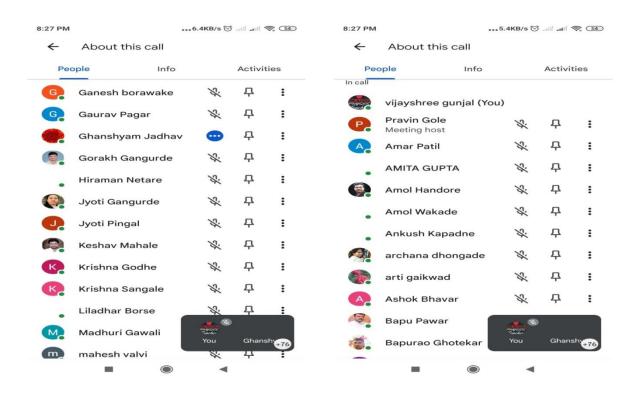
Video lectures



Videos on YouTube

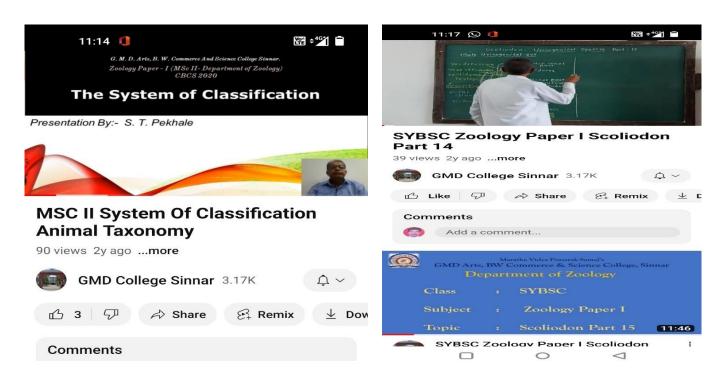


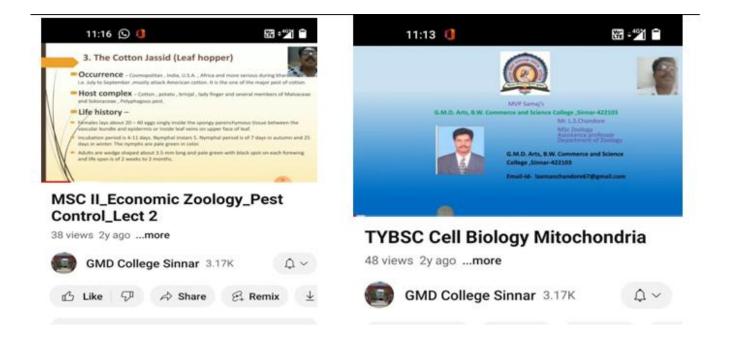
#### Videos on YouTube



**Google Meet Attendance** 

### Department of Zoology (2020-21)

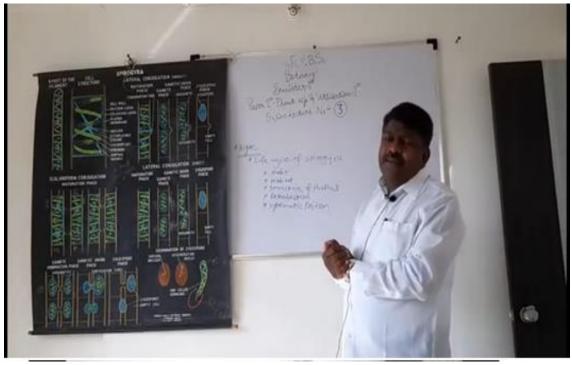




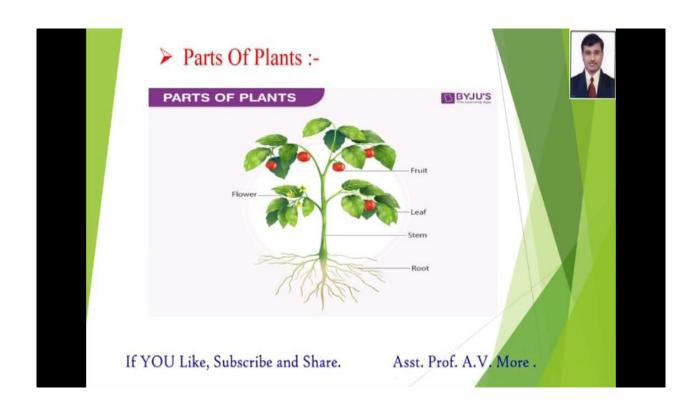
Videos on YouTube

# Department of Botany (2020-21)





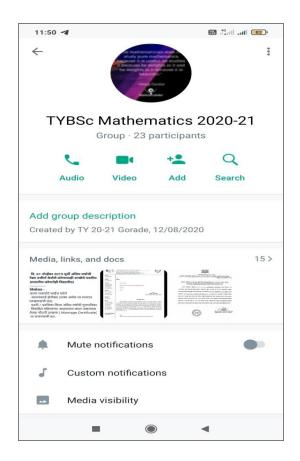
Google Meet video lecture by Asst. Prof. R. K. Patil

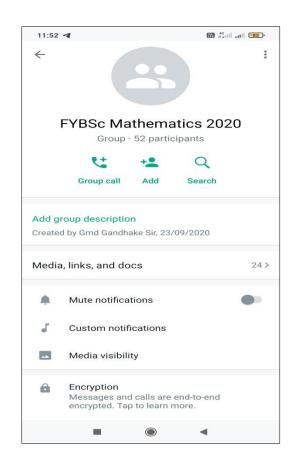


Google Meet video lecture using PPT by Asst. Prof. A. V. More

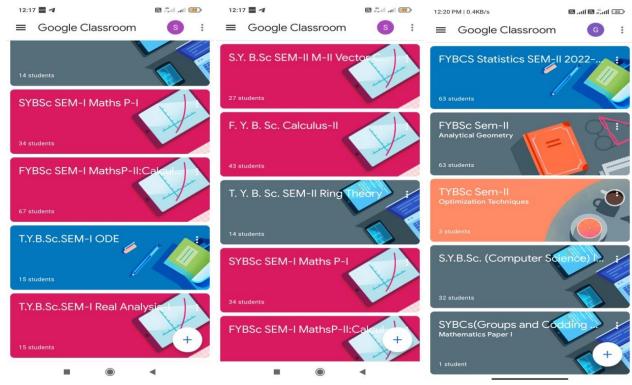
## Department of Mathematics (2020-21)

## **ICT Enabled Teaching Method:**



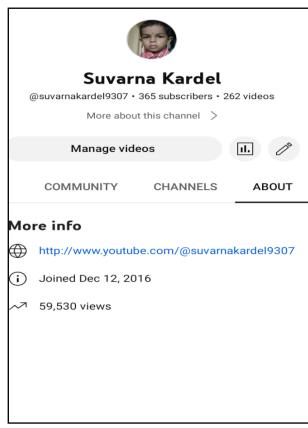


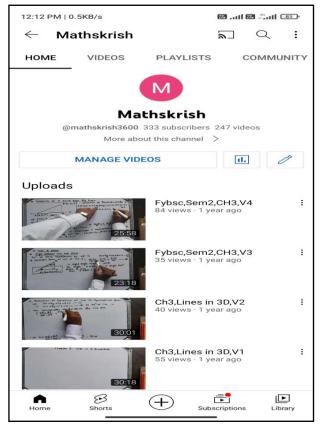
### WhatsApp group created for student

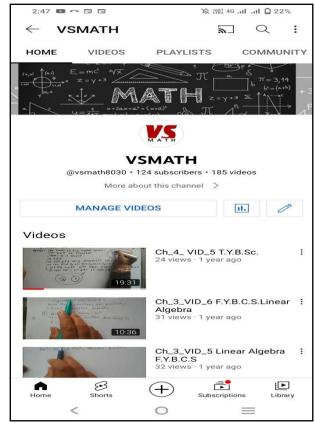


**Google Classrooms Created for students** 



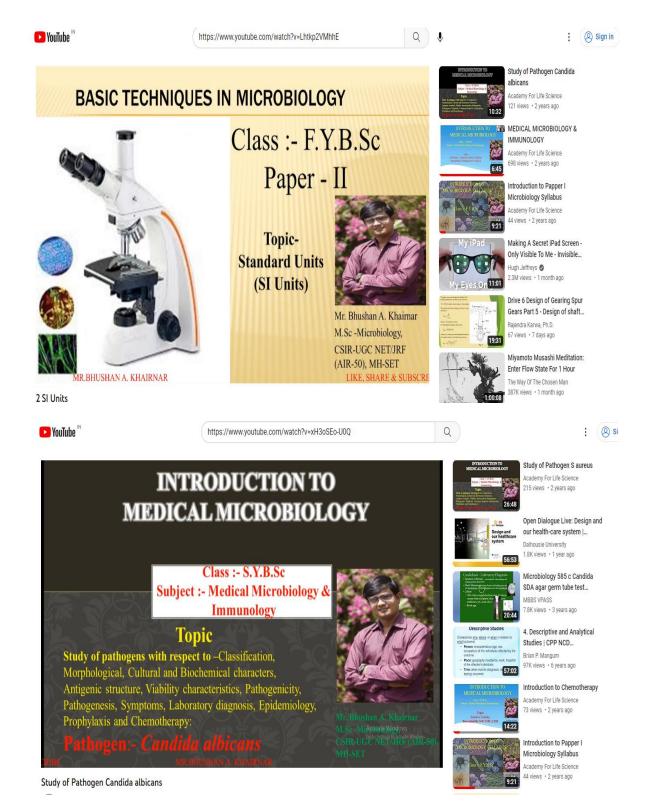


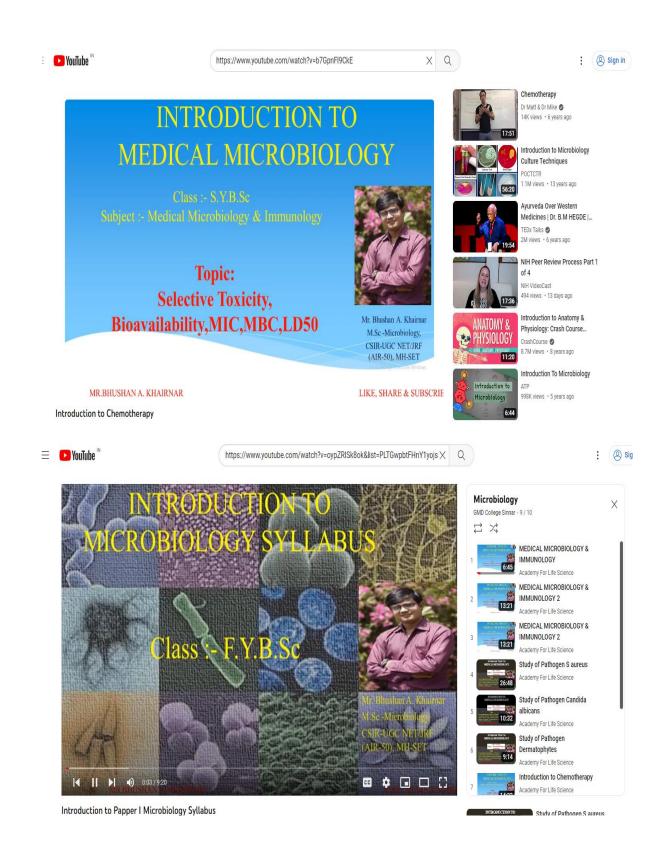




**YouTube Channels** 

### Department of Microbiology (2020-21)

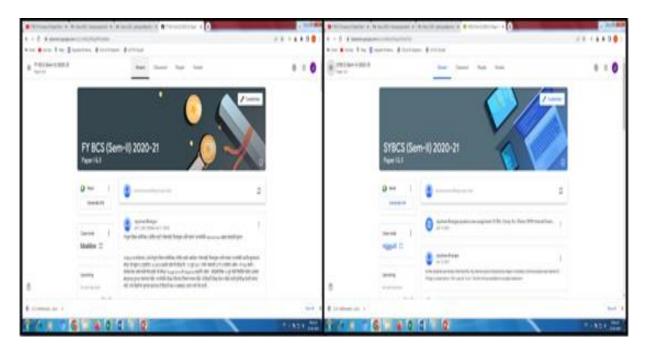




Lecture series on YouTube for F.Y.B. Sc. & S.Y.B .Sc. on various topics

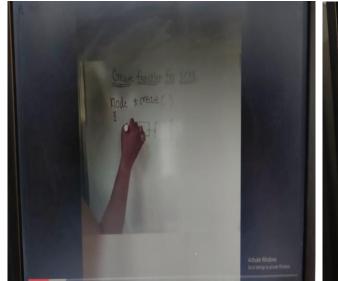
## Department of Computer Science (2020-21)

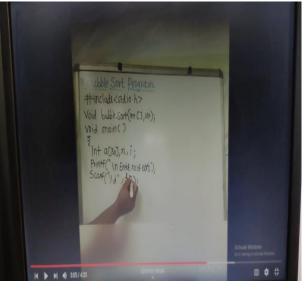
## **ICT Enabled Teaching Method:**



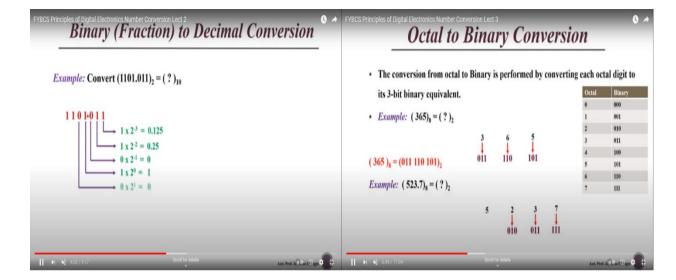
Google Classroom for F.Y. & S.Y. B.Sc.

Comp. Science

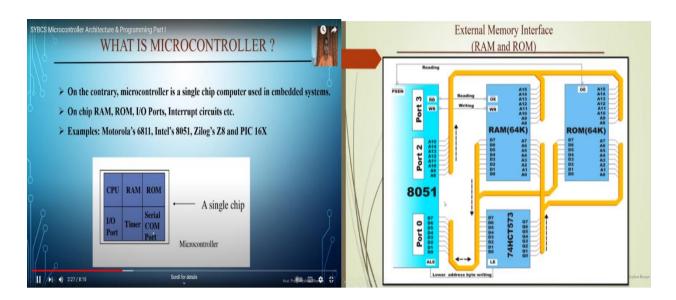




**Online Lectures** 

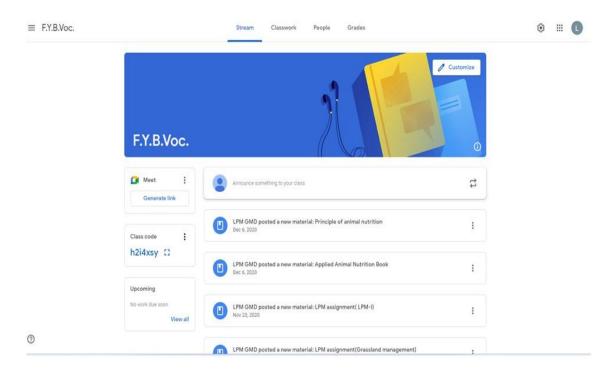


Online Video Lectures Conducted during Pandemic

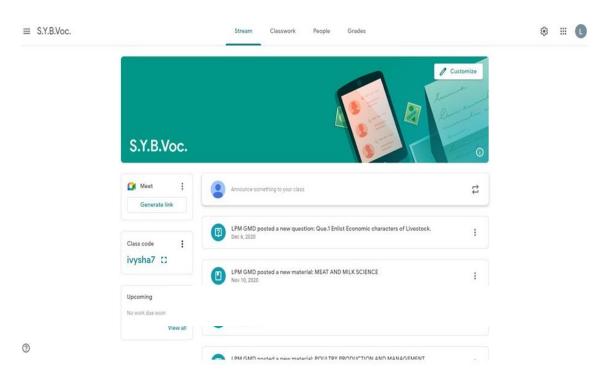


Online Video Lectures Conducted during Pandemic

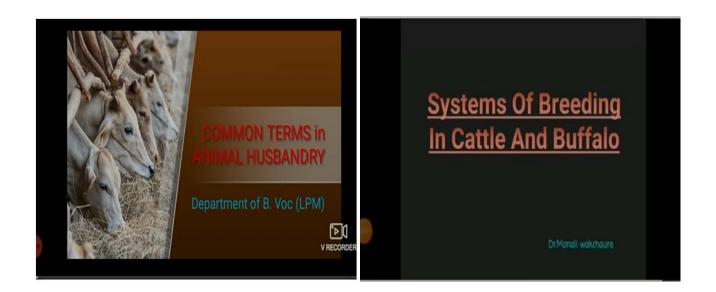
## Department of B.Voc (LPM) (2020-21)



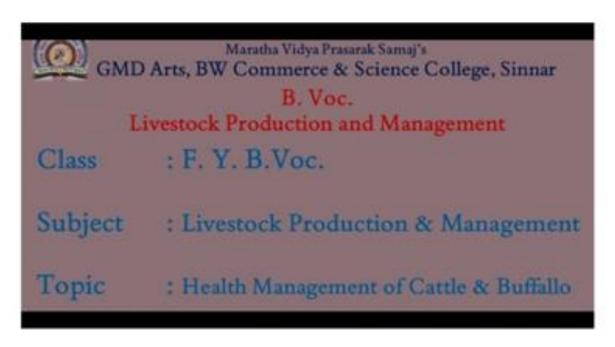
F.Y. B.Voc (LPM) Google Classroom



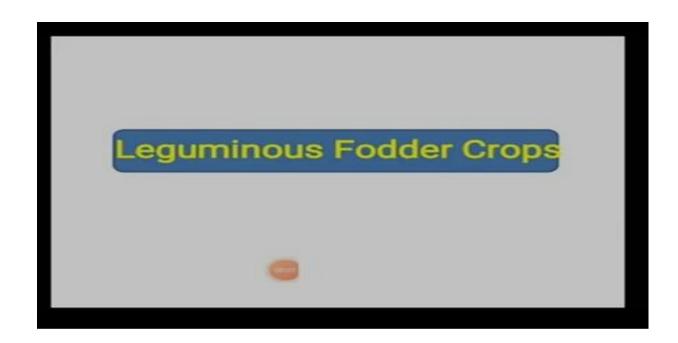
S.Y. B.Voc (LPM) Google Classroom



#### **Video Lectures**



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



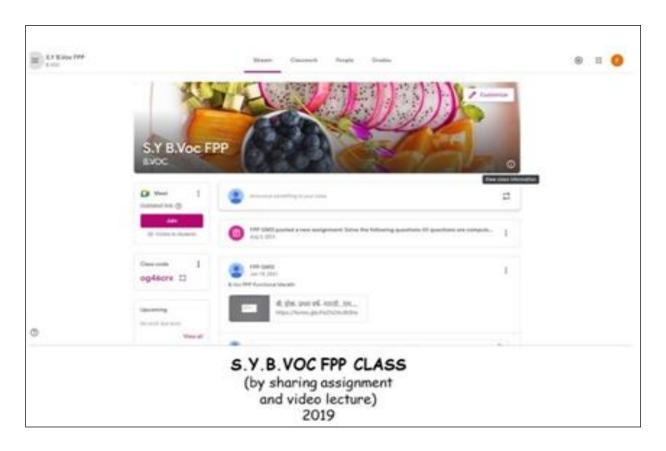
F.Y. B.VOC (LPM)

Topic – Leguminous fodder

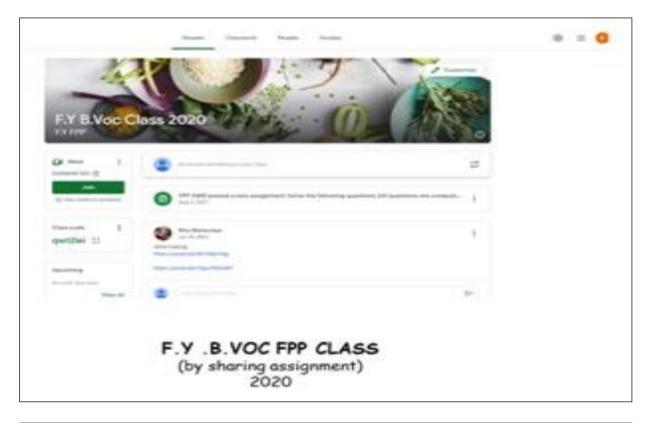
Crops

You tube Video Lecture

## Department of B.Voc (FPP) (2020-21)





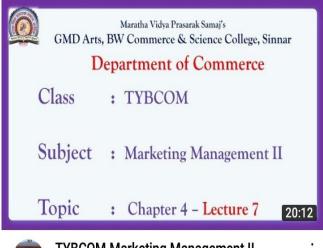




YouTube Video Lectures

## Department of Commerce (2020-21)

### **ICT Enabled Teaching Method:**







TYBCOM Marketing Management II Chapter 4 Lecture 7



TYBCOM Advance Accounting Insurance Claim Alc Lecture 3

Maratha Vidya Prasarak Samaj's

GMD Arts, BW Commerce & Science College, Sinnar

Department of Commerce



COM Class: FYBCOM

Business Administration II Subject: Consumer Protection & Business Ethics

Topic : Chapter 4 - Lecture 6 12:59

Topic: Chapter 3 - Lecture 24



TYBcom Business Administration III Chapter 4 lecture 6

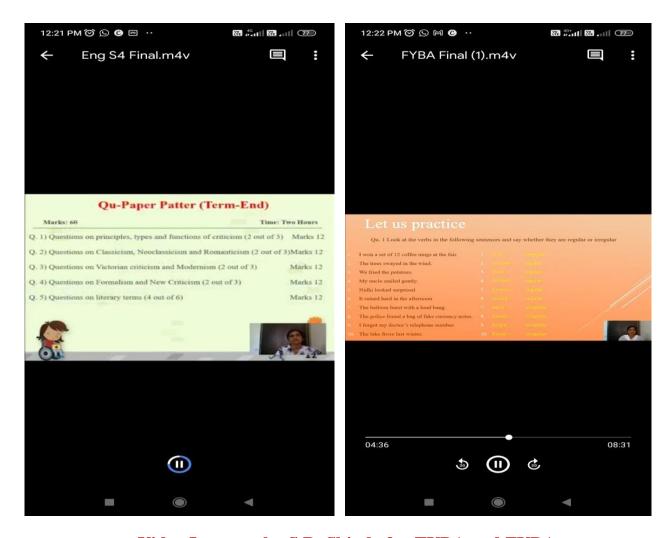


F Y Bcom Consumer Protection & Business Ethics Chapter 3 Lecture 24

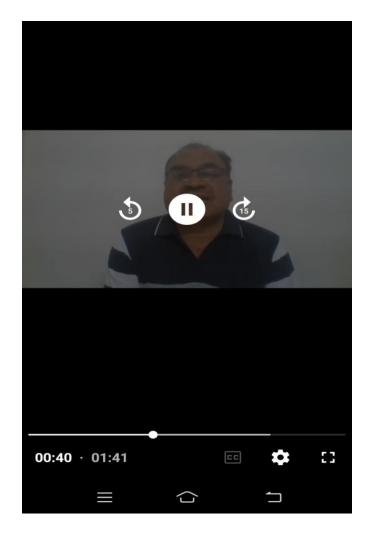
YouTube Video Lectures

15:22

## Department of English (2020-21)



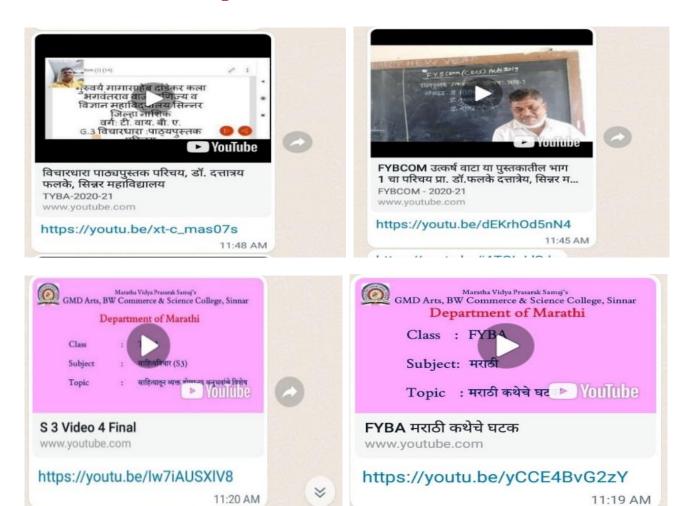
Video Lectures by S.R. Shinde for TYBA and FYBA



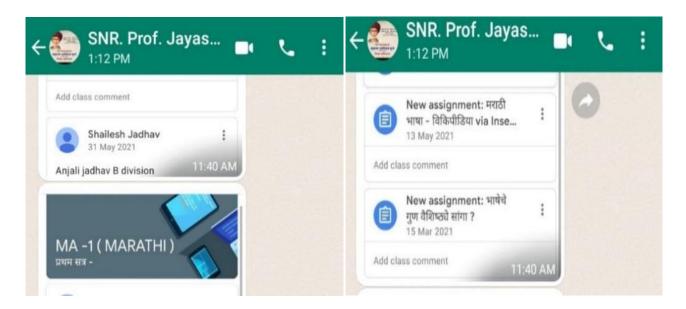
Video Lecture by Dr. C. E. Gurule (MA)

### Department of Marathi (2020-21)

### **ICT Enabled Teaching Method:**

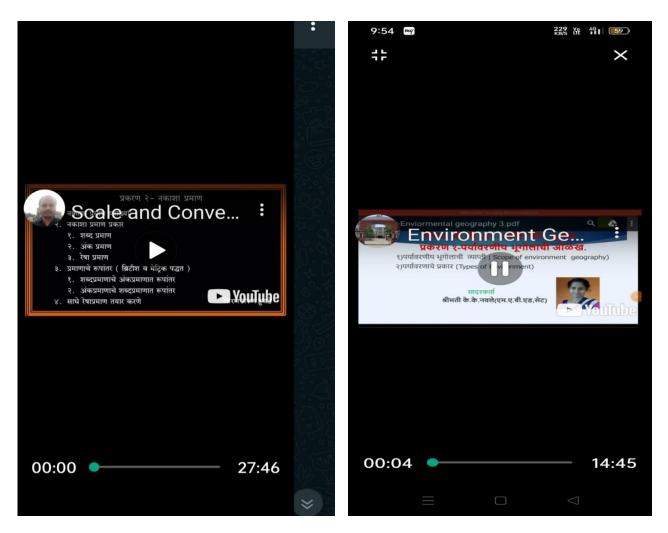


#### YouTube Video Lectures

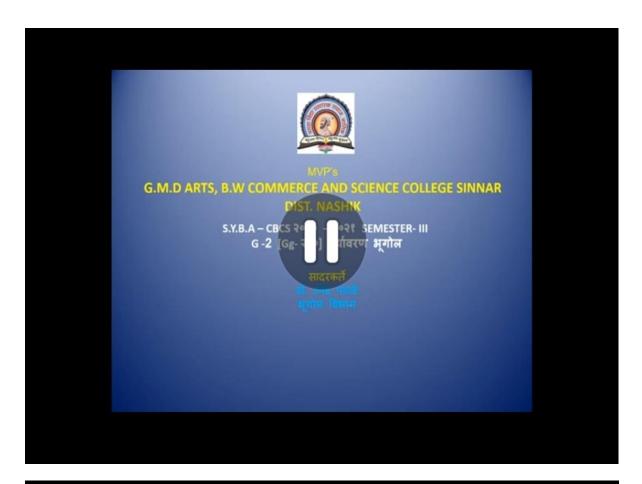


**Google Classroom** 

## Department of Geography (2020-21)



**You Tube Videos** 





**You Tube Videos** 

## Department of History (2020-21)

### **ICT Enabled Teaching Method:**

गुरुवर्य मामासाहेब दांडेकर काला, भगवंतराव वाजे वाणिज्य व विज्ञान महाविद्यालय सिन्नर

वर्ग : द्वितीय वर्ष कला

विषय : इतिहास - मध्ययुगीन भारत सुलतान

काळ

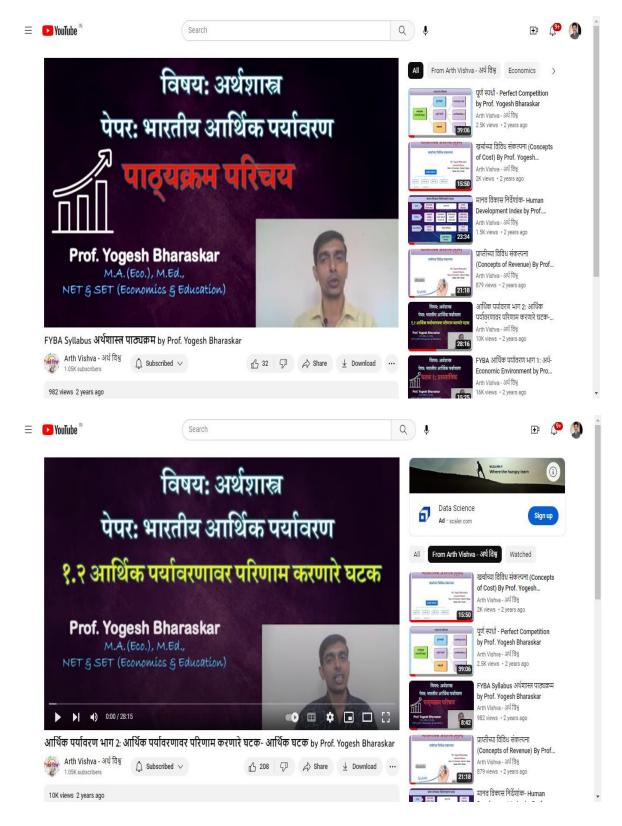
**S-1** 

# अल्लाउद्दीनचे अंतर्गत धोरण

- १. बंडे व त्यावरील उपाययोजना
- २. संपतीचे अपहरण
- ३. गुप्तहेर यंत्रणा
- ४. मद्यपान
- ५. वैवाहिक संबंध
- ६. हिंदुंचा छळ

**PPTs for teaching** 

### Department of Economics (2020-21)

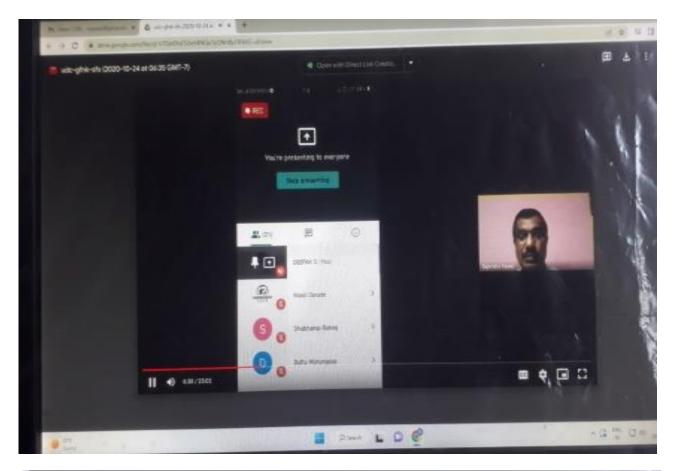


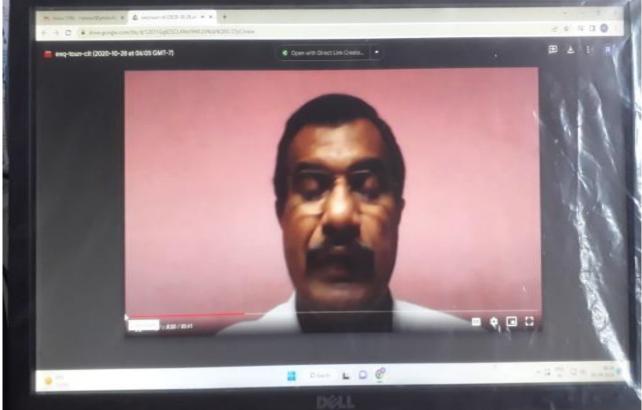
You Tube Videos



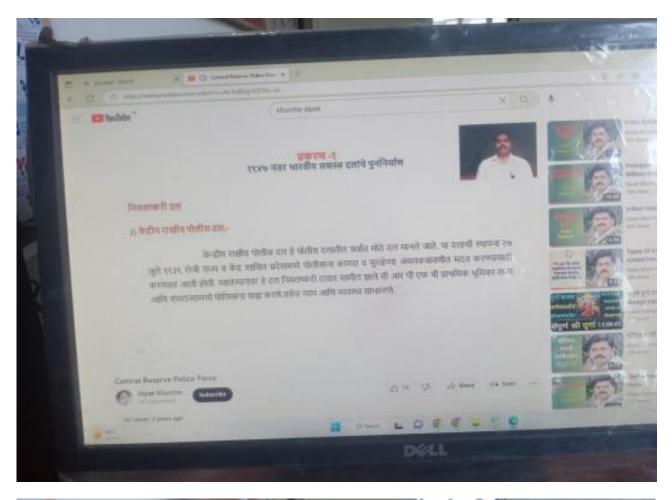
You Tube Videos

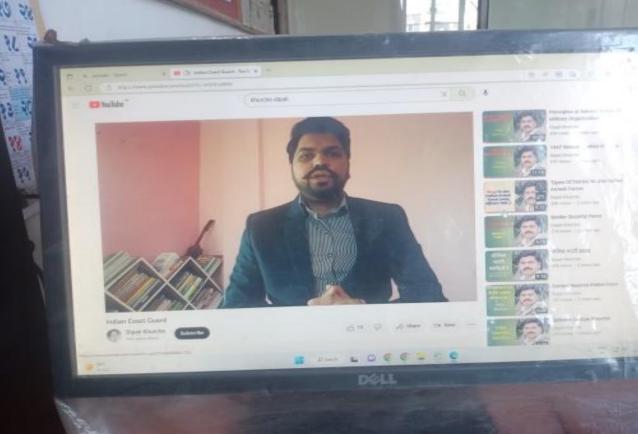
# Department of Defense (2020-21)





**Online lectures** 





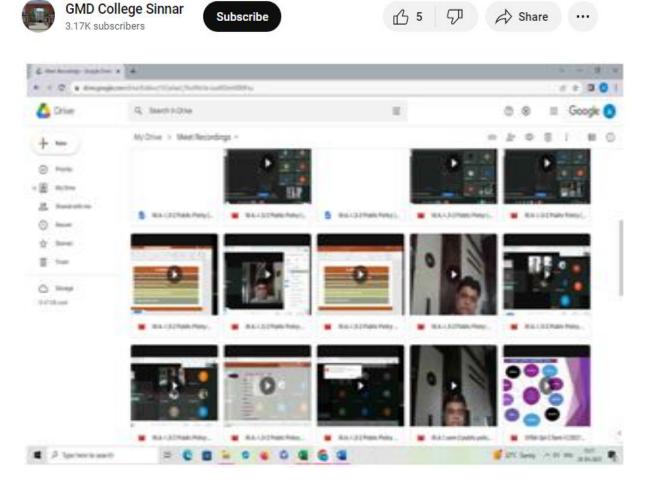
**YouTube Videos** 

## Department of Political Science (2020-21)

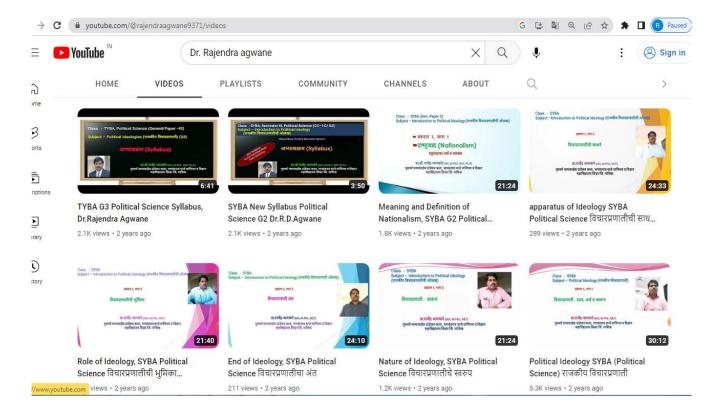
### **ICT Enabled Teaching Method:**



## MA II Sem 3 आधुनिक राजकीय विचार डॉ बाबासाहेब आंबेडकर Lect 1



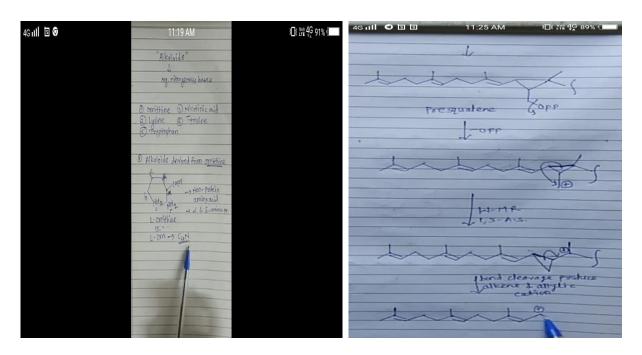
YouTube Videos



YouTube Videos

### Department of Chemistry (2021-22)

#### **ICT Enabled Teaching Method:**



**Online Teaching** 

#### i)Stomach or internal insecticides:-

those insecticides which are eaten by insects are called as stomach insecticides. e.g. Arsenates (Calcium or lead ) control pest like eelworm and spider mites.

#### ii) Contact or external insecticides:-

Those insecticides which kill the insects by means of external contact are known As contact insecticides.

e.g. BHC, DDT, Nicotine etc.

They are soluble in plant, insect oil, waxes and also animal fats.

#### iii)fumigants:-

those insecticides which exert their action in the gaseous state are called  $\mbox{\sc As}$  fumigants.

They are applied to plants in enclosed spaces or in green houses.

Liq. Nicotine, naphthalene, hydrocyanic acid, Carbon disulphide Etc.

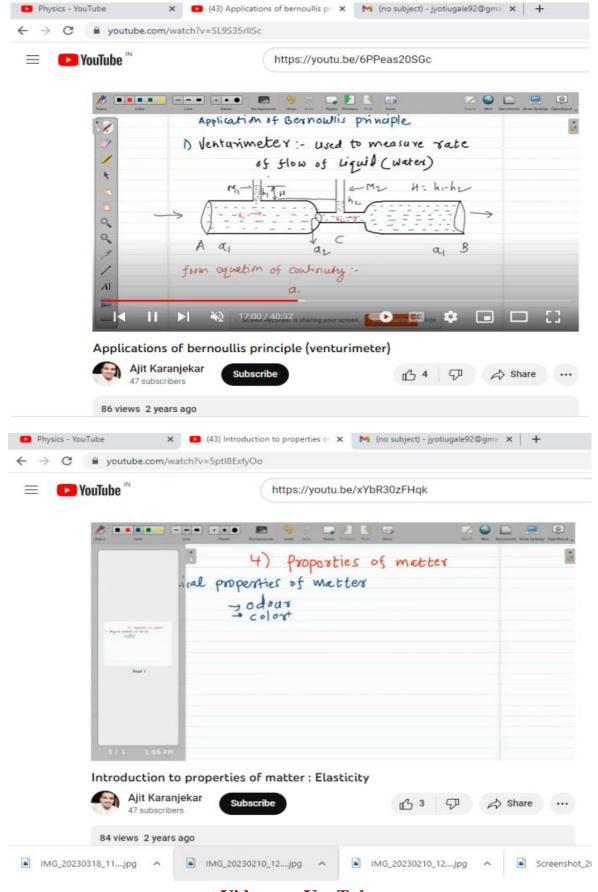
#### **PPTs for Teaching**

# **Experiential Learning Method:**

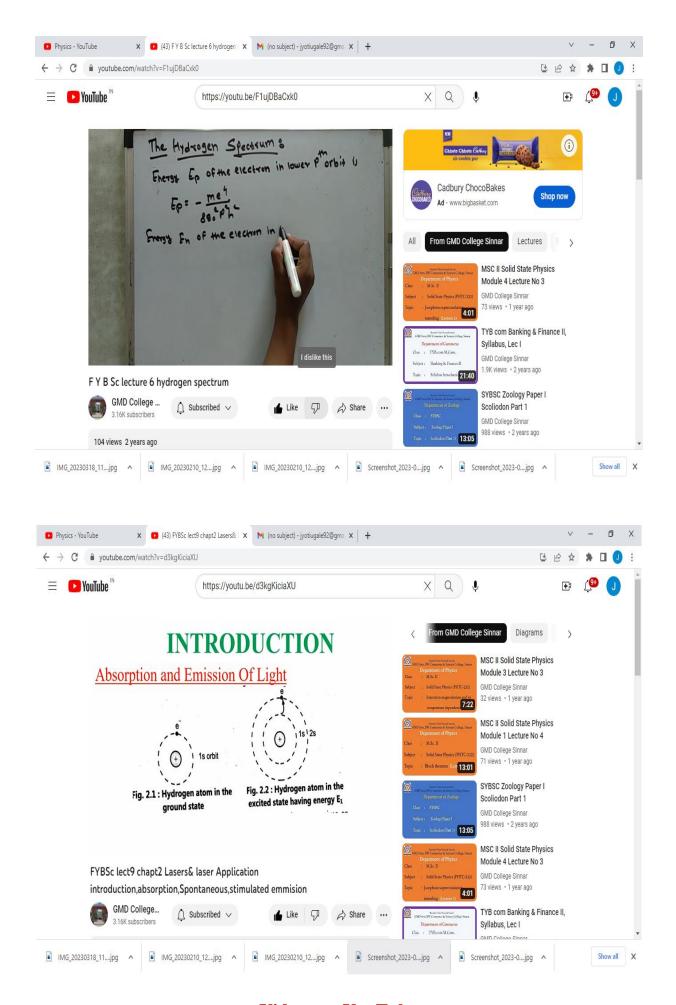


**Laboratory work** 

### Department of Physics (2021-22)



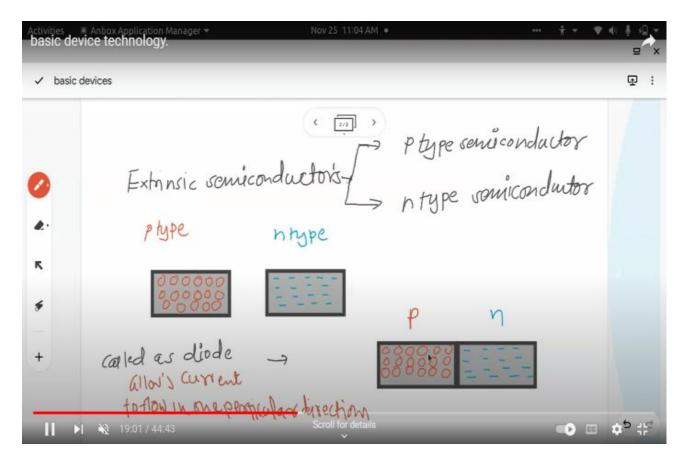
Videos on YouTube



Videos on YouTube



**Zoom Meeting links** 



Video for teaching

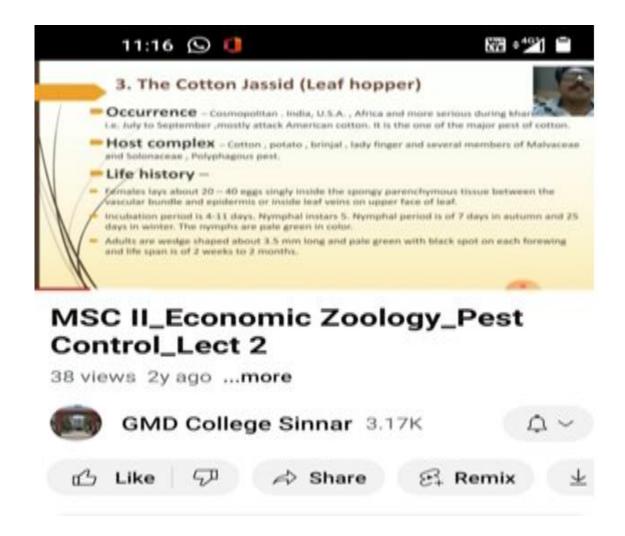
## Chalk & Talk Method:





**Chalk and Board Method** 

#### Department of Zoology (2021-22)



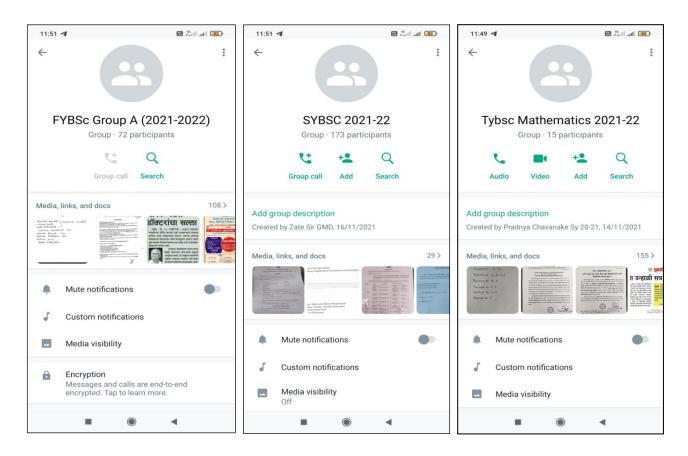
**Videos on YouTube** 

## Department of Botany (2021-22)

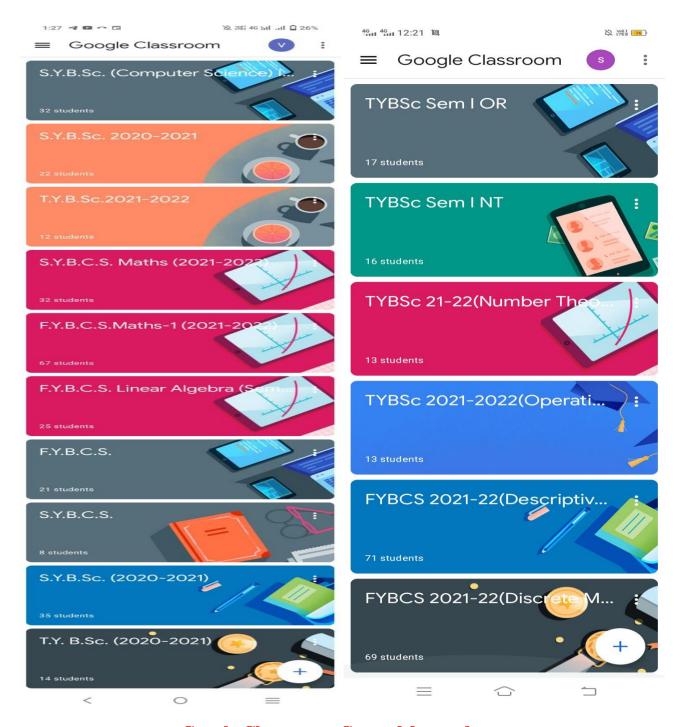


Asst. Prof. A.V. More deliver the onlinelecture to F.Y.B.Scstudents

## Department of Mathematics (2021-22)



WhatsApp group created for students



**Google Classrooms Created for students** 

# Department of Microbiology (2021-22)

### **Chalk & Talk Method:**



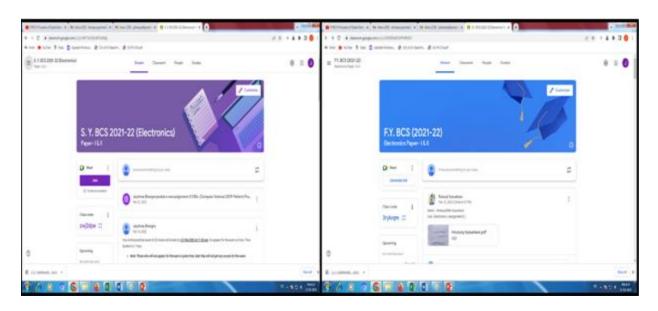
Lecture given to T.Y. B.Sc. Students

# **Experiential Learning Method:**

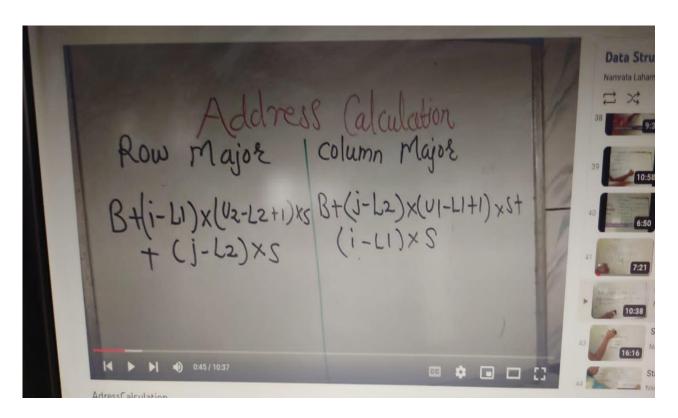


**Practical Demonstration** 

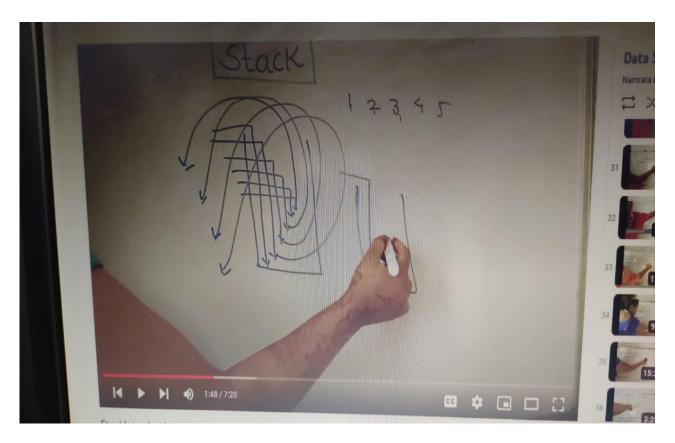
#### Department of Computer Science (2021-22)



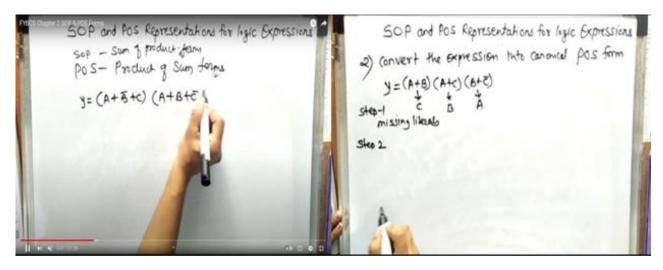
Google Classroom created for F.Y. & S.Y. B.Sc. Computer Science Students

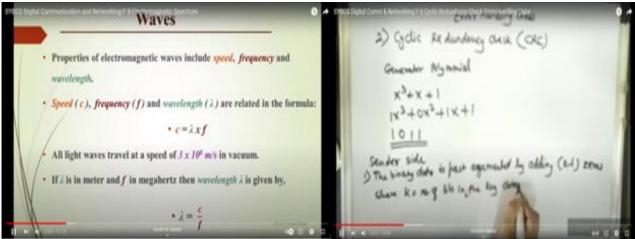


Videos on YouTube



#### Videos on YouTube

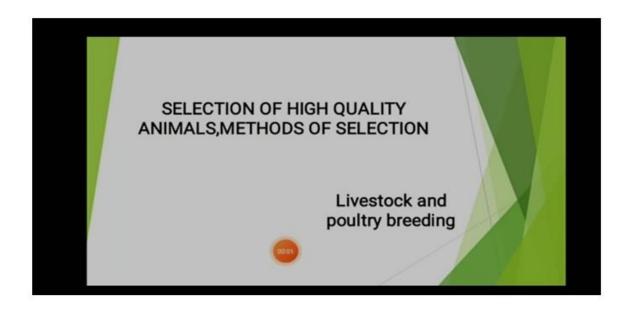




Video Lectures conducted during pandemic

## Department of B.Voc.(LPM) (2021-22)

### **ICT Enabled Teaching Method:**



S.Y B.VOC (LPM)
Topic – Selection of high quality
animals, methods of selection.
You Tube Video Lecture

## **Experiential Learning Method:**



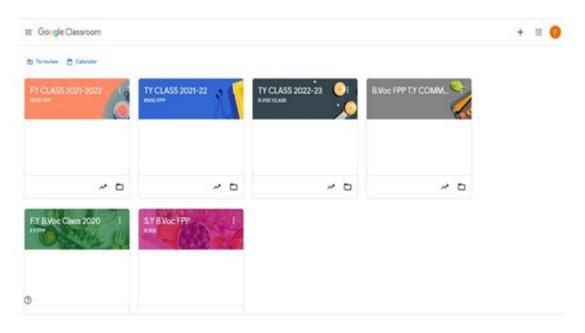
LPM student's field visit



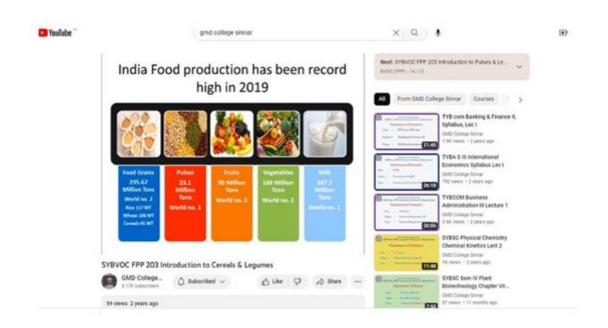
LPM student's practical

### Department of B. Voc.(FPP) (2021-22)

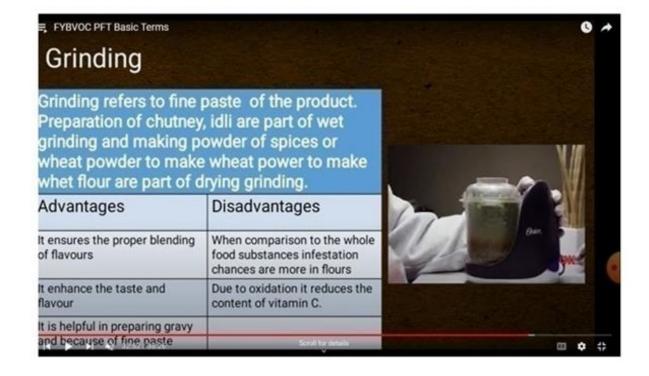
### **ICT Enabled Teaching Method:**



#### GOOGLE CLASSROOM



S.Y.B.VOC FPP (YOU-TUBE Video Lectures)



F.Y.B.VOC FPP (YOU-TUBE Video Lectures)

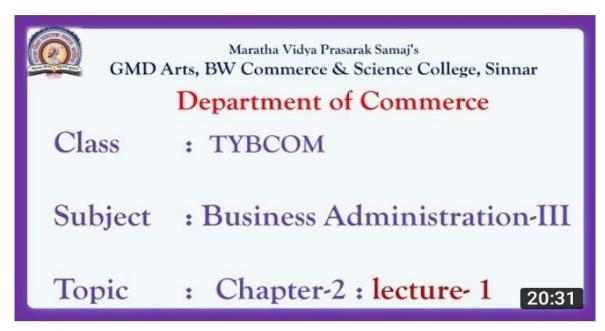
### **Experiential Learning Method:**



T.Y.B.VOC FPP (Practical Method)

#### Department of Commerce (2021-22)

### **ICT Enabled Teaching Method:**





## TYBcom Business Administration III Chapter 2 lecture 1

GMD College Sinnar · 236 views · 2 years ago



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

#### Department of Commerce

Class : M. Com. II

Subject : Advanced Accounting & Taxation

Topic : Chapter 3 - Lecture 1

15:07



Mcom II Advanced Accounting & Taxation Chapter 3 Lecture 1

GMD College Sinnar · 18 views · 2 years ago



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

Department of Commerce

Class: TYBCOM

Subject: Marketing Management II

Topic : Chapter 3 - Lecture 2

20:06



TYBCOM Marketing Management II

:

Advanced Accounting and Taxation.

(Advanced Auditing)Total Credit-4

(Cource Paper code - 303)

Mcom-2(Sem-3)

Chapter -2 Audit of Limited

Company



Presented By. P. B. Gole

GMD, Arts BW commerce and Science college

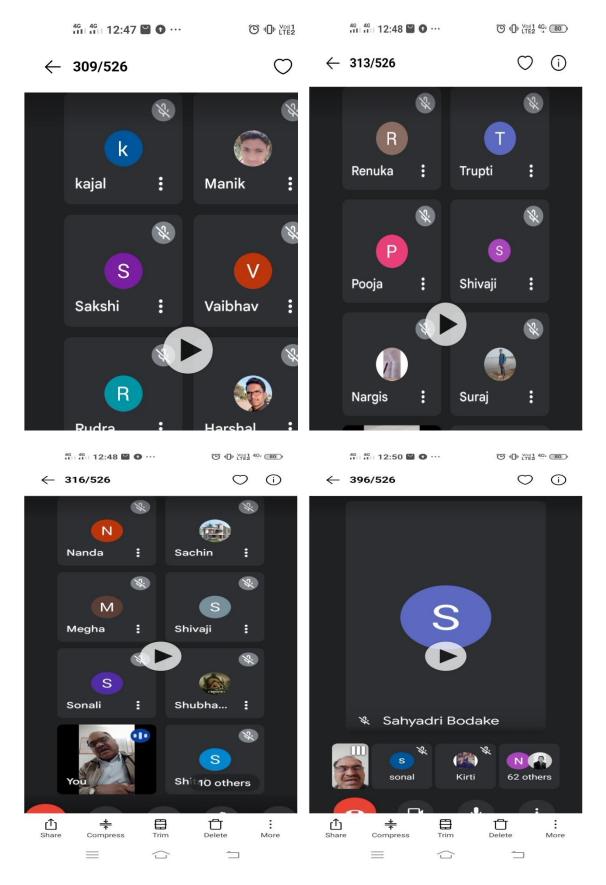
Sinnar.

Mcom II Advanced Accounting & Taxation Chapter 2 Lecture 10



YouTube Videos

## Department of English (2021-22)



**Online Lectures using Google Meet** 

# Department of Marathi (2021-22)

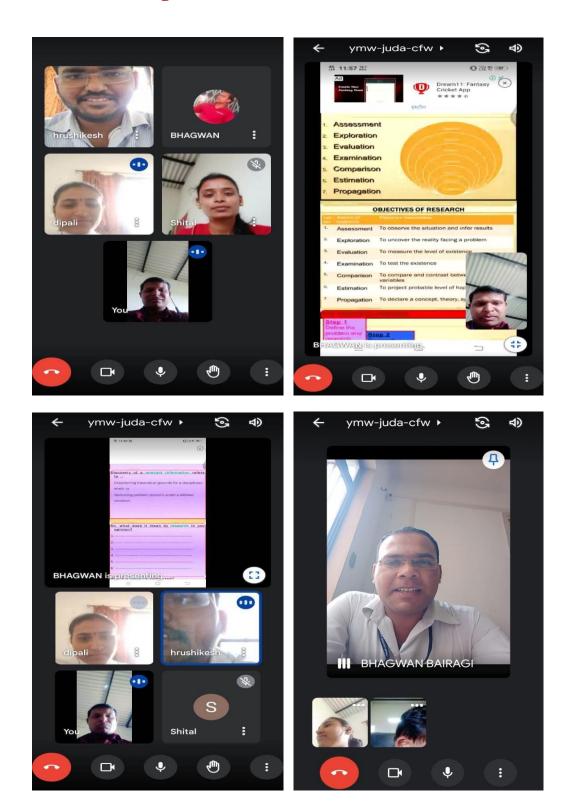
### **Chalk & Talk Method:**





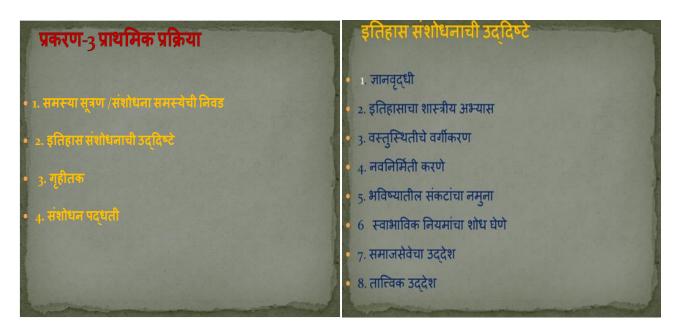
**Chalk and Board Method** 

## Department of Geography (2021-22)

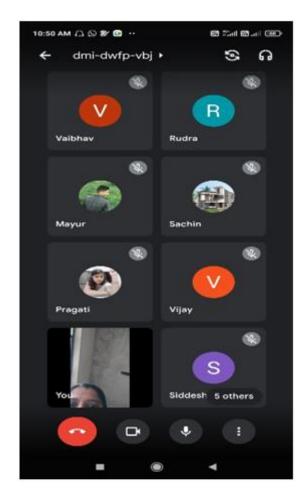


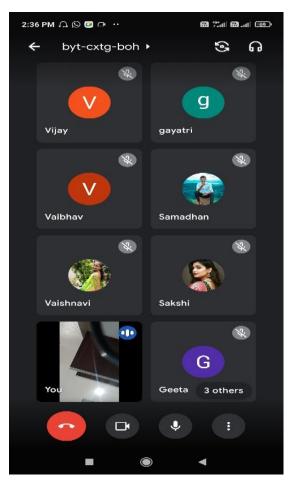
Online teaching using Google meet

### Department of History (2021-22)



**PPTs for teaching** 





Online teaching using Google meet

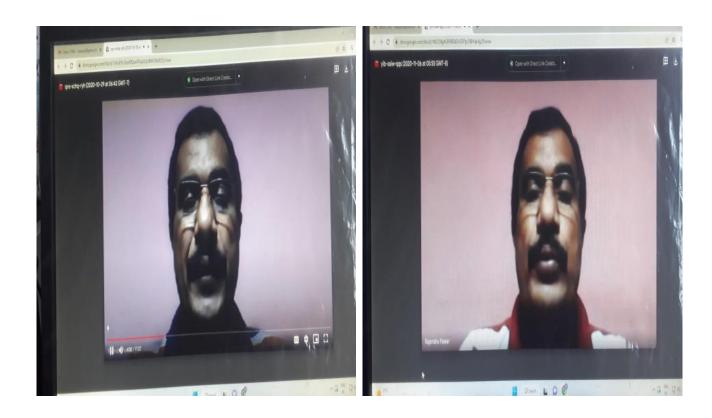
#### Department of Economics (2021-22)





YouTube Videos

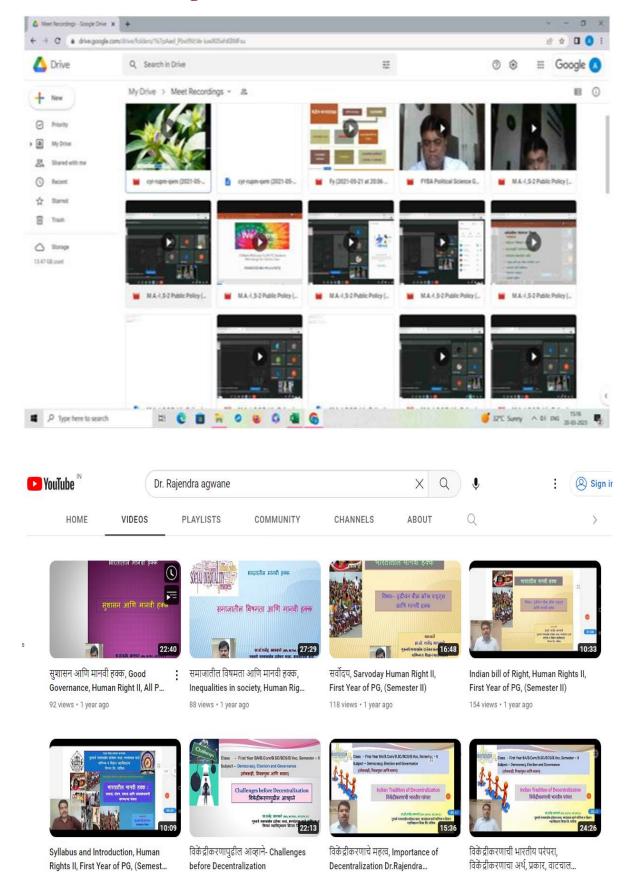
# Department of Defense (2021-22)



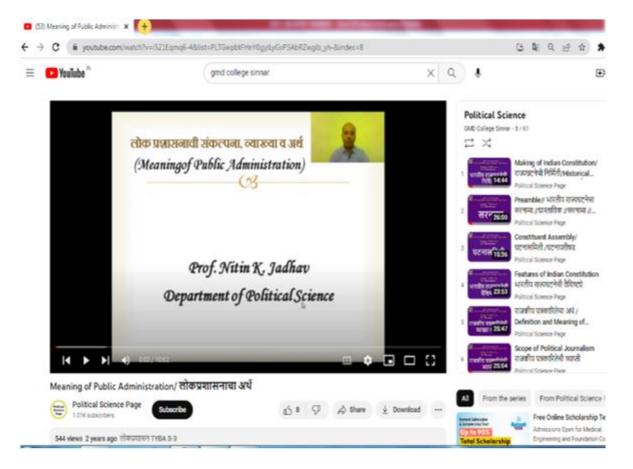
**Online Teaching** 

### Department of Political Science (2021-22)

#### **ICT Enabled Teaching Method:**



#### YouTube Videos



YouTube Videos