

### 2.3.2: ICT enabled tools for effective teaching-learning process.

<b>Sl. No</b>	<b>Contents</b>	<b>Page</b>
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10	Participation of teachers in FDPs on ICT enabled Teaching 2021-22	26

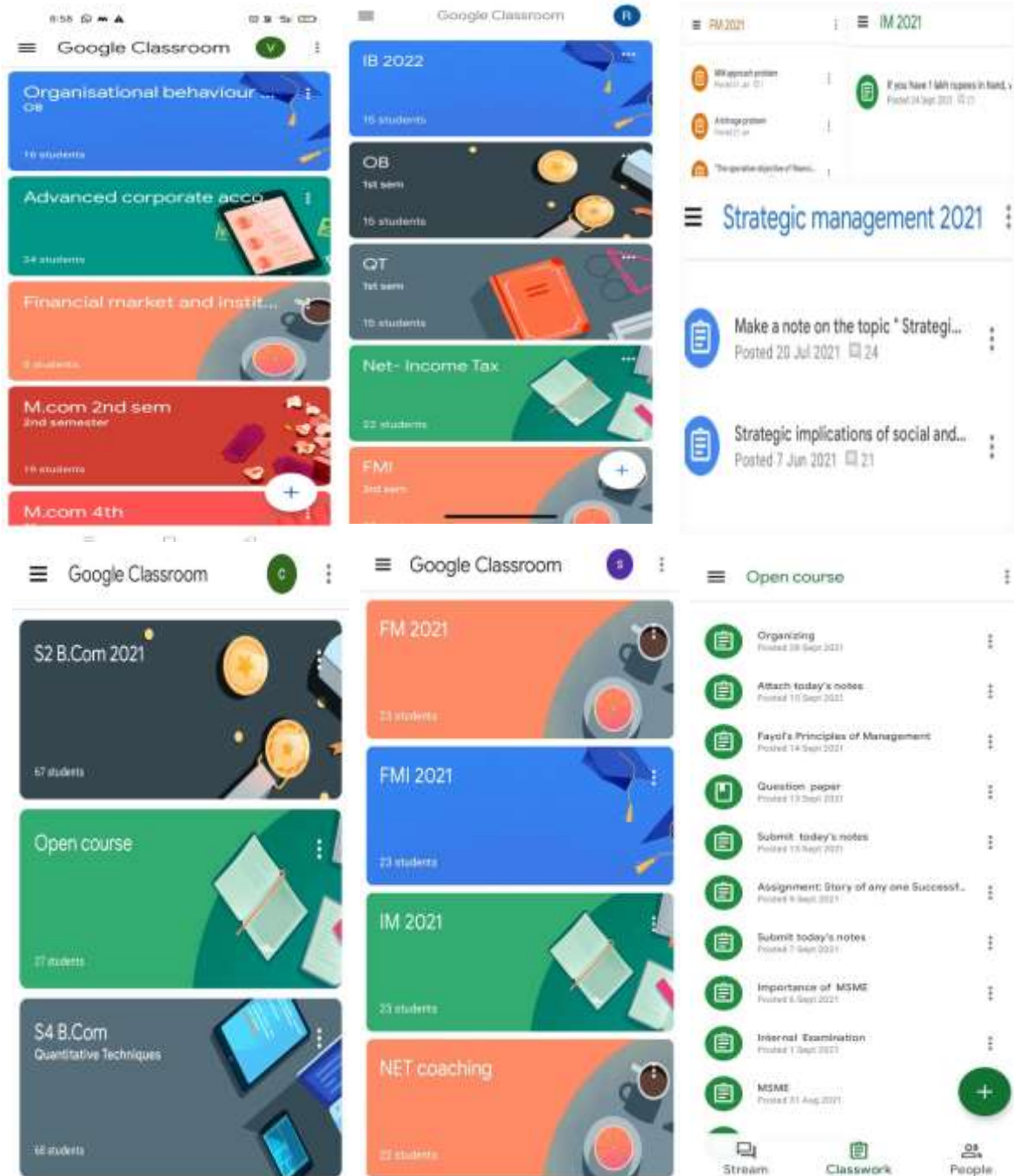
### 2.3.2 ICT TOOLS USED BY TEACHERS

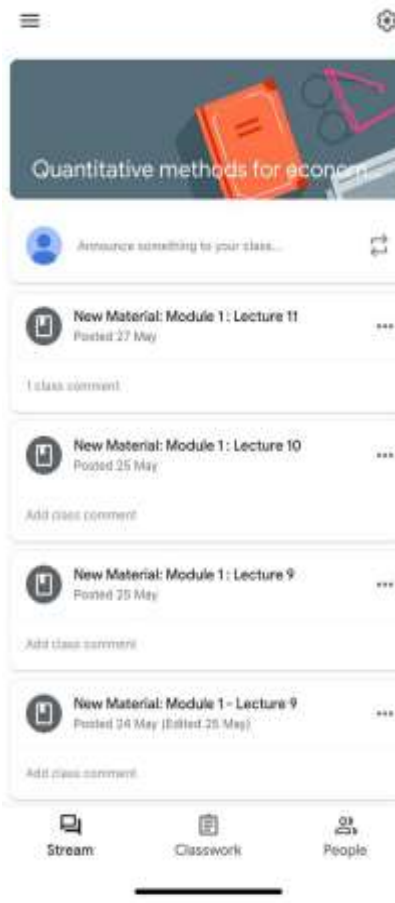
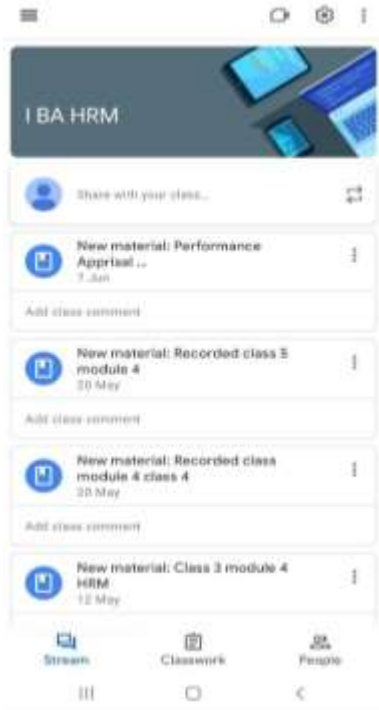
1.	Learning Management System (LMS)	Moodle
		Google Classroom
		Teachmint
2.	Evaluation and Assessment	Google Forms
		Moodle
		HotPots
		H5P
		Kahoot
		Quizizz.com
3.	Networked Communication Platforms	Google Meet
		Zoom
		YouTube
		Podcasts
		Telegram Channel
		Whatsapp Groups
		Blogs
4.	E-Learning Resources	SWAYAM, NPTEL
		N-LIST Programme of INFLIBNET
		e-PGPathshala
		LibreTexts
		Chemtube3D
		Edinformatics
		Com Dig Lib
5.	Interactive Learning Tools	PowerPoint Presentations
		Smart Boards
		Online White Board: <a href="https://whiteboard.fi/">https://whiteboard.fi/</a>
		JAM Board
		Simulation Softwares, apps and online virtual labs ( <a href="https://phet.colorado.edu/">https://phet.colorado.edu/</a> , <a href="https://virtual.edu.rsc.org/">https://virtual.edu.rsc.org/</a> , <a href="https://www.vlab.co.in/">https://www.vlab.co.in/</a> , <a href="https://vlab.amrita.edu/">https://vlab.amrita.edu/</a> , <a href="https://www.chemtube3d.com/">https://www.chemtube3d.com/</a> , <a href="https://ccnsb06-iiith.vlabs.ac.in/">https://ccnsb06-iiith.vlabs.ac.in/</a> )
6.	Other tools and apps	MS Office
		OBS Studio
		Adobe Photoshop
		Open Shot Video Editor
		Kdenlive Video Editor
		Kagaz Scanner
		Google Drive
		Grammerly
		Canva
		Insert Learning
		Powtoon

# ICT ENABLED TOOLS FOR EFFECTIVE TEACHING- LEARNING PROCESS

## ONLINE CLASS AND VIDEO LECTURING

### Google Classrooms





**INDIAN ECONOMY**  
2021 Admissions

62 students

**OPEN COURSE IN ECONO...**

53 students

**DEVELOPMENT ECONOMI...**

61 students

**CAPITAL MARKET**  
V SEMESTER

64 students

**SECOND SEMESTER**

**INDIAN ECONOMY**  
2021 Admissions

Share with your class...

**New assignment: Macro E- ISLM Model**  
Jun 30

Add class comment

**Vidya KT**  
Jun 24

Watch todays class on History of Planning in India

1 attachment

Add class comment

**Vidya KT**  
Jun 21

Please download the class to hear the

Stream    Classwork    People

**ICP - 2nd SEM**

82 students

**ICP- Sem 2 Economics 2022**

58 students

**sem 2 - PIR 2022**

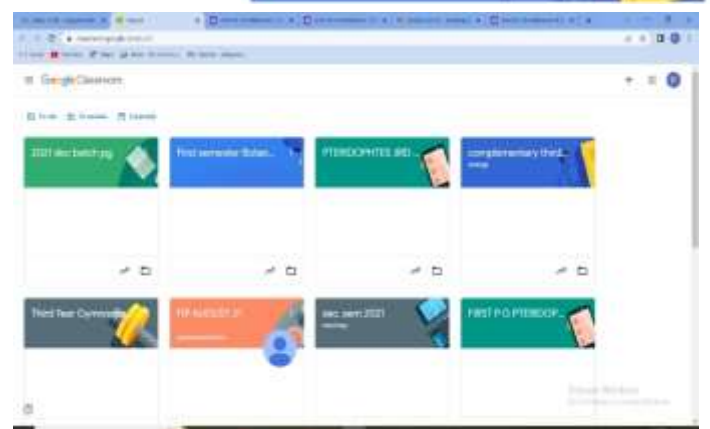
21 students

**Talks and Webinars**  
2021 July

9 students

**sem 1 - PIR 2021**

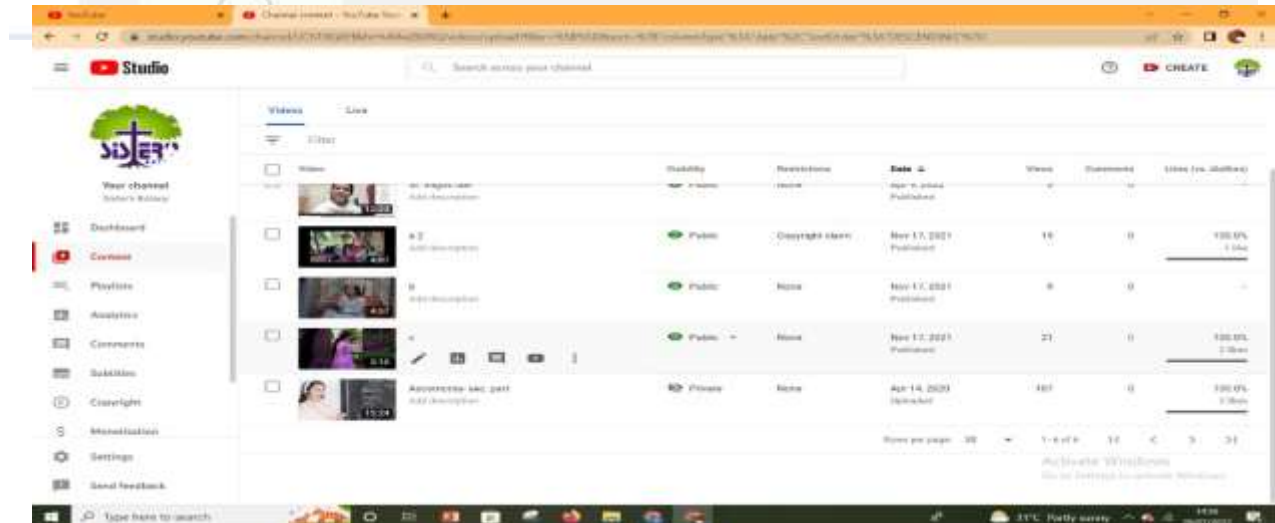
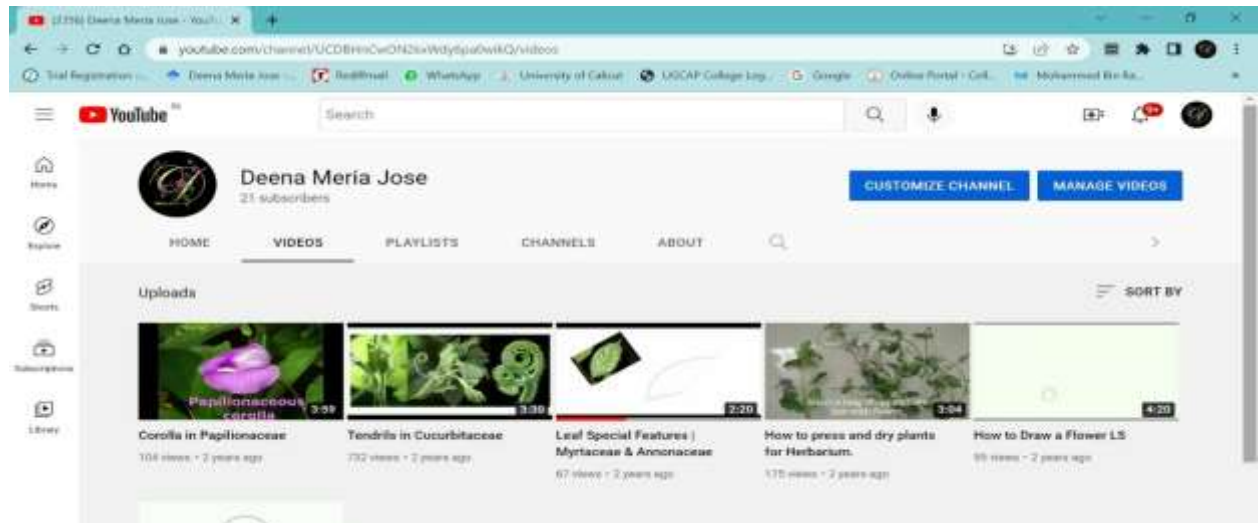
21 students



# Youtube Channels



Video	Visibility	Restrictions	Date	Views	Comments	Like (vs. dislike)
<input type="checkbox"/> Population genetics	Unlisted	None	Jun 23, 2021 Uploaded	18	0	100.0% 2 likes
<input type="checkbox"/> Quantitative Genetics - I	Unlisted	None	Jan 17, 2021 Uploaded	18	0	100.0% 1 like
<input type="checkbox"/> Quantitative Genetics - A	Unlisted	None	Jan 16, 2021 Uploaded	12	0	100.0% 2 likes
<input type="checkbox"/> 4. Genetics: Therapeutics	Unlisted	None	Apr 28, 2021 Uploaded	77	0	100.0% 4 likes



V

This screenshot shows the YouTube channel page for 'Prerna E-learning by Dr Priyadarini P', which has 567 subscribers. The channel is categorized under 'Education'. The 'Uploads' section displays a grid of 18 video thumbnails. The first row includes videos such as 'Impacts of the Revolt of 1857', 'The Course of the Great Revolt', 'Course and Impacts of the French Revolution', 'French Revolution: An Introduction', '14 January 2021', and 'Causes of the American War of Independence'. The second row features 'John Locke', 'The Restoration: the English Revolution and its Impacts', 'Consolidation of the British Empire (Final Part)', 'The Civil War, Puritan Revolution and Oliver...', 'Factors That Led To The Civil War in England', and 'Consolidation of the British Empire (Part 2)'. The third row shows 'The Rise of Absolutism in Europe', 'The Anglo-Mysorean Wars', 'The Rise of Science and Scientific Revolution', 'Consolidation of the British Empire - Part 2', 'England's Search With Europe - The Anglican Reformation', and 'Consolidation of the British Empire - Part 1'.

This screenshot shows the YouTube channel page for 'Commerce & management classes', which has 14 subscribers. The channel is categorized under 'Education'. The 'Uploads' section displays a grid of 12 video thumbnails. The first row includes 'Debit & credit', 'Product', 'Positioning', 'Change', 'Negotiable instrument act', and 'Negotiable instrument act 1'. The second row features 'Branch account- Final accounts system', 'Incorporation of branch trial balance in T&D books', 'Inter-branch transactions', 'writing memoing', 'Branch debitors account', and 'Branch account- Debitors system- Question'.

<https://www.youtube.com/channel/UCBiP80M7GLwJWxRgywgEK9A>

This screenshot shows the YouTube channel page for 'Commerce & management classes', which has 14 subscribers. The channel is categorized under 'Education'. The 'Uploads' section displays a grid of 12 video thumbnails. The first row includes 'Debit & credit', 'Product', 'Positioning', 'Change', 'Negotiable instrument act', and 'Negotiable instrument act 1'. The second row features 'Branch account- Final accounts system', 'Incorporation of branch trial balance in T&D books', 'Inter-branch transactions', 'writing memoing', 'Branch debitors account', and 'Branch account- Debitors system- Question'.

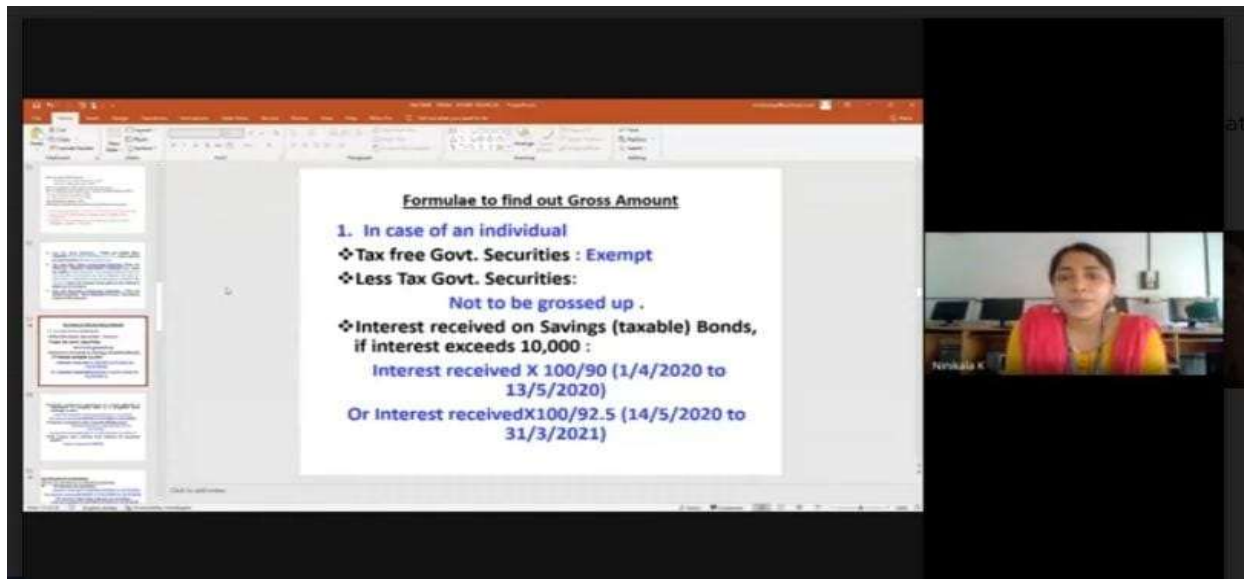
The screenshot shows the YouTube channel page for 'Commerce Class'. The channel banner features the text 'Commerce Class' in a stylized font and 'LEARN HAPPILY' below it. The channel name 'Commerce Class' and '412 subscribers' are displayed. A 'SUBSCRIBE' button is visible. Below the channel information, there are tabs for 'HOME', 'VIDEOS', 'PLAYLISTS', 'CHANNELS', and 'ABOUT'. The 'VIDEOS' tab is selected, showing a grid of video uploads. The first row of videos includes titles such as 'Commerce Class QUESTION 35 Piece wage system Tim...', 'Commerce Class QUESTION 36 Piece wage system Tim...', 'Commerce Class QUESTION 37 Piece wage system Tim...', 'Commerce Class QUESTION 38 Piece wage system Tim...', 'Commerce Class QUESTION 39 Time Wage Piece Wage...', and 'Commerce Class QUESTION 40 Labour Calculation of...'. Each video thumbnail includes a view count and an upload date.

This screenshot shows a different section of the 'Commerce Class' YouTube channel page. It displays a grid of video uploads with titles such as 'Commerce Class Price Elasticity Managerial...', 'Commerce Class Shift in Demand Managerial...', 'Commerce Class Elasticity in Demand Managerial...', 'Commerce class Movement along the demand curve...', 'Commerce class (8 COMBSALEARN HAPPILY)', 'Commerce class Merry Christmas Happy Christmas...', 'Commerce class Exceptions to Law of Demand', 'Commerce Class Why demand curve slope down...', 'Commerce class What is demand Schedule and...', 'COMMERCE CLASS (LAW OF DEMAND) Economics (8 CO...', 'COMMERCE CLASS TYPES OF ACCOUNTS AND...', 'Commerce Class Issue of shares at par solved question', 'Commerce Class Demand forecasting', 'Commerce Class Evolution of banking reasing...', 'Commerce Class Managerial economics', 'Commerce Class Internal rate of return question with...', 'Net present value problem and solution capital...', and 'Cash flow statement'. Each video thumbnail includes a view count and an upload date.

[https://www.youtube.com/channel/UCeF03tyjCdQM647rh\\_kTjPA](https://www.youtube.com/channel/UCeF03tyjCdQM647rh_kTjPA)



## Video Conferencing tool: Google Meet



The screenshot shows a Google Meet interface. On the left, a presentation slide is displayed with the following text:

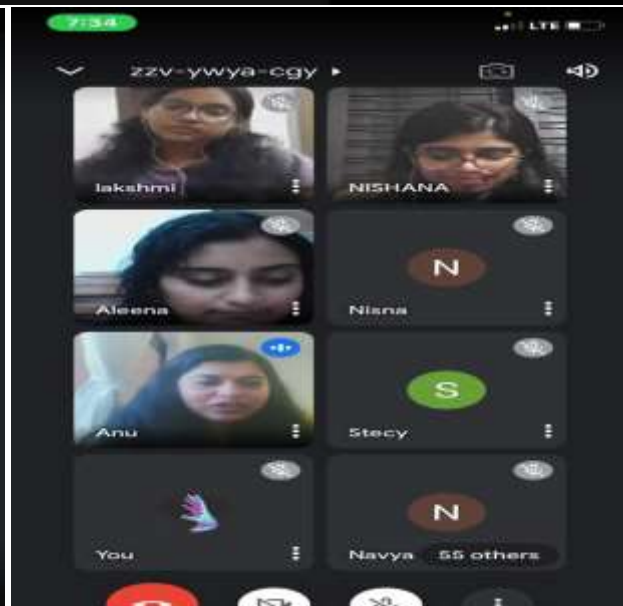
**Formulae to find out Gross Amount**

- In case of an individual**
  - ❖ Tax free Govt. Securities : Exempt
  - ❖ Less Tax Govt. Securities:
    - Not to be grossed up .
    - ❖ Interest received on Savings (taxable) Bonds, if interest exceeds 10,000 :
      - Interest received X 100/90 (1/4/2020 to 13/5/2020)
      - Or Interest received X 100/92.5 (14/5/2020 to 31/3/2021)

On the right, a video feed shows a participant with dark hair wearing a pink and yellow top.



This screenshot shows a mobile view of a Google Meet session. The interface includes a top status bar with the time 10:11 and battery level at 96%. The meeting ID is ayq-kddu-aqh. A grid of eight video thumbnails is visible, with names: Jashidha, ANUSREE, Afeeha, ANNA, SURYA, Meetha, You, and Chinnu & others. The bottom navigation bar contains icons for mute, video, chat, and help.



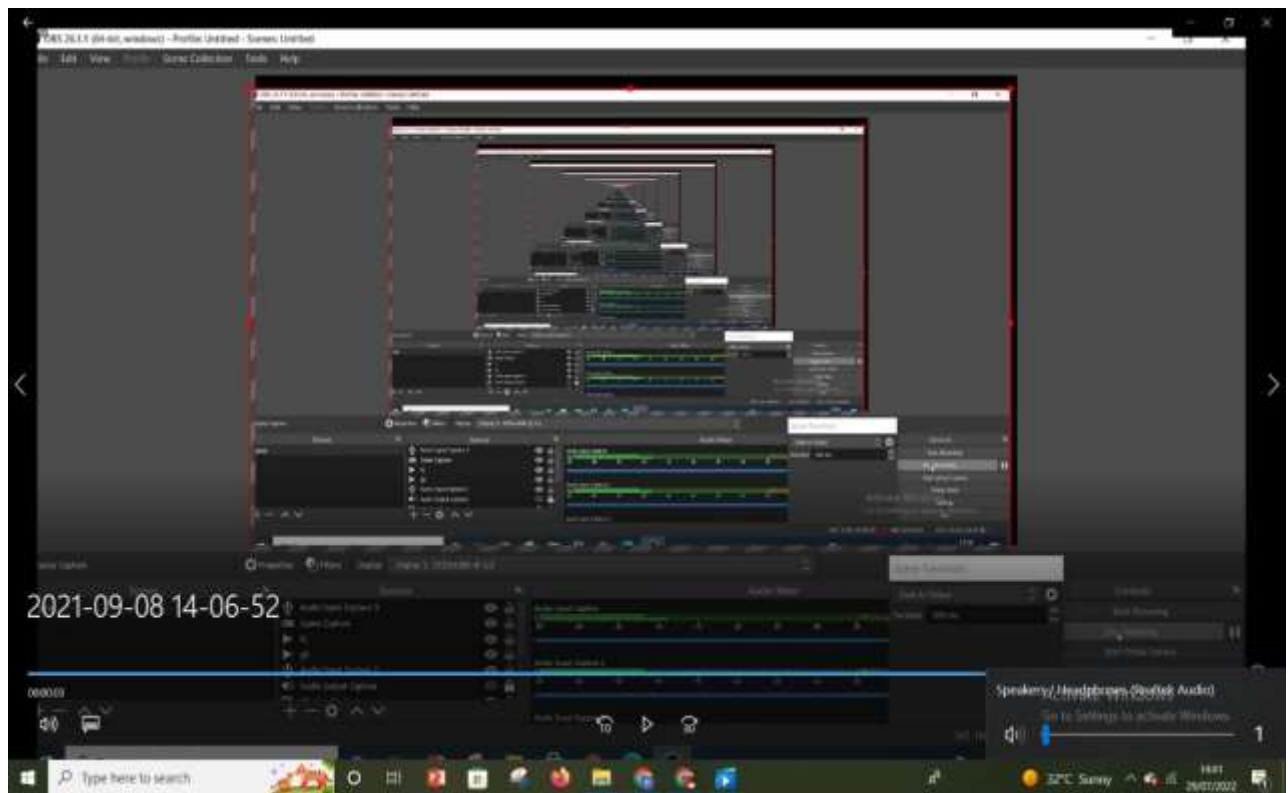
This screenshot shows another mobile view of a Google Meet session. The meeting ID is zzv-ywya-cgy. The grid contains eight thumbnails with names: lakshmi, NISHANA, Aleena, Nisara, Anu, Stecy, You, and Navya & 55 others. The bottom navigation bar is consistent with the previous screenshot.



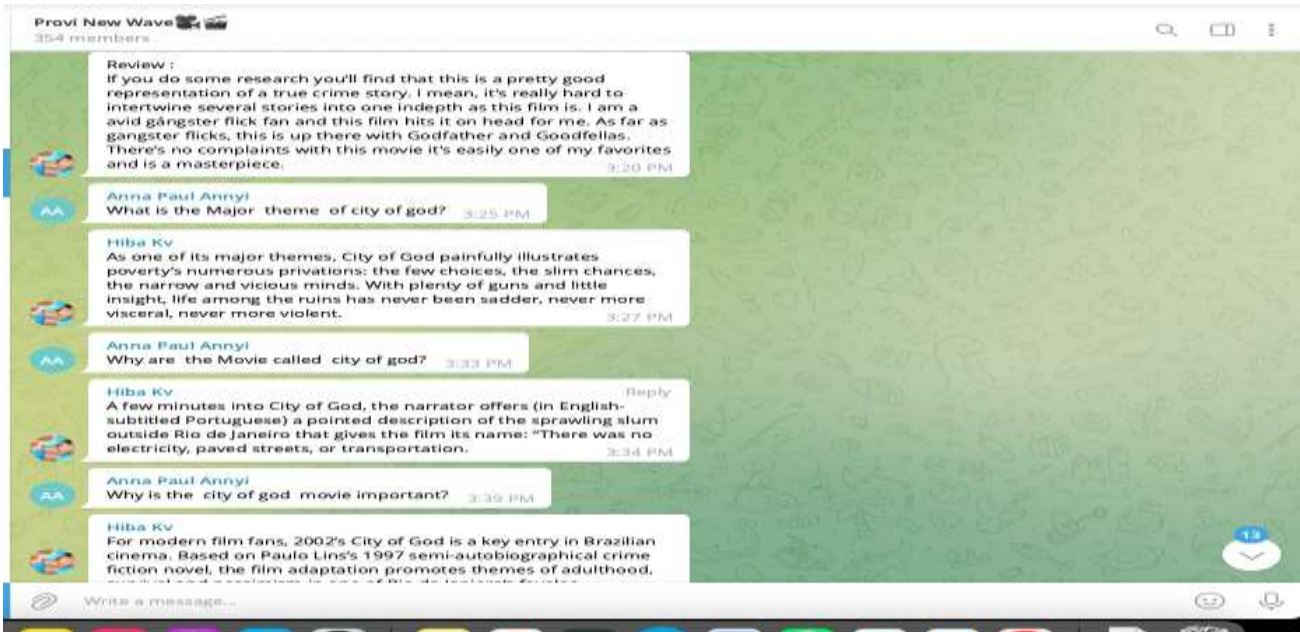
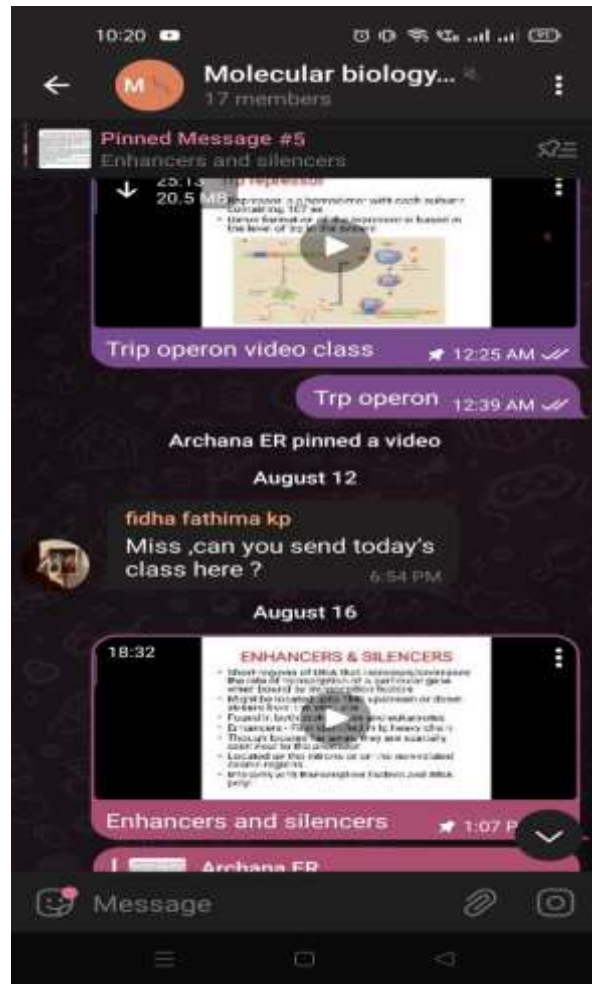
This screenshot shows a desktop view of a Google Meet session. The interface features a large grid of approximately 24 video thumbnails. At the bottom, a notification reads: "Tracking Started. To view this report, Click To Generate Report." The bottom navigation bar includes icons for mute, video, chat, and help.



## Open Broadcaster Software (OBS)



# Telegram Channel



## PRESENTATION APPLICATIONS AND TOOLS : Microsoft Powerpoint, Komodo Presentation and Google slides

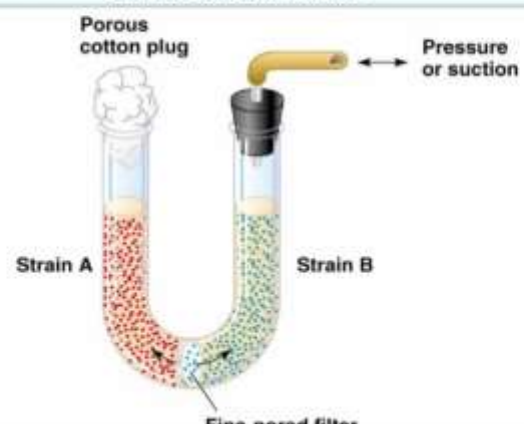
komodo decks.com/recordings/McDwOUjPHzjGNHAR

Problem Set #4 Sol... Consumption Funct... Charles D Kolstad L... Sign-in | Rakutan K... Environmental Econ... Home | clipchamp | Chaggy | Book Donation Dis... Video Trimmer - Fre...

KOMODO Login/Signup Download Komodo Free

+ Comment

**Bernard Davis experiment demonstrated that physical contact is required for bacterial recombination.**



Porous cotton plug

Pressure or suction

Strain A

Strain B

Fine-pored filter

komodo decks.com/recordings/McDwOUjPHzjGNHAR

Problem Set #4 Sol... Consumption Funct... Charles D Kolstad L... Sign-in | Rakutan K... Environmental Econ... Home | clipchamp | Chaggy | Book Donation Dis... Video Trimmer - Fre...

KOMODO Login/Signup Download Komodo Free

+ Comment

**Conjugation of high-frequency recombinant strains:**

1. No chromosomal DNA is transferred by standard sex factor  $F$ .
2. Transfer of chromosome DNA is facilitated by special strains of  $F^+$  integrated into the bacteria chromosome by crossing over.
3.  $Hfr$  strains = high frequency recombination strains.
4. Discovered by William Hayes and Luca Cavalli-Sforza.
5.  $Hfr$  strains replicate  $F$  factor as part of their main chromosome.
6. Conjugation in  $Hfr$  strains begins when  $F^+$  is nicked at the origin, and  $F^+$  and bacteria chromosomal DNA are transferred using the rolling circle mechanism.
7. Complete  $F^+$  sequence (or complete chromosomal DNA) is rarely transferred (1/10,000) because bacteria separate randomly before DNA synthesis completes.
8. Recombinants are produced by crossover of the recipient chromosome





## ONLINE ATTENDANCE TRACKER

OPTICS - 5TH SEM-2021

	Aug 5 In a Newton's...	Aug 5 Attendanc e...	Jul 30 Newton's rings are...	Jul 29 Write any two of...	Jul 3 How many percenta...	Jul 2 Attendanc e	Jul 1 Attendanc e	Jun 25 Attendanc e	Jun 19 Attendanc e	Jun 17 Attendanc e
Class average	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Abhinavdara AP	Missing	Missing	Missing	Missing	Missing	Missing	Missing	Missing	Turned In	Turned In (Done late)
Aiswarya MA	Turned In	Turned In	Turned In	Turned In	Turned In	Turned In	Turned In	Turned In	Turned In	Turned In
ARUNA JOHN	Turned In (Done late)	Turned In	Turned In	Turned In (Done late)	Turned In (Done late)	Turned In (Done late)	Turned In	Turned In	Turned In	Turned In (Done late)
Ambily Elizabeth John	Turned In (Done late)	Turned In (Done late)	Turned In (Done late)	Turned In	Turned In	Turned In	Turned In	Turned In	Turned In	Missing
AMITHA T A	Missing	Turned In	Turned In	Missing	Missing	Turned In	Turned In	Turned In	Turned In	Turned In
Aravatha Vinod	Turned In	Turned In	Turned In	Turned In	Turned In (Done late)	Turned In	Turned In	Turned In	Turned In	Turned In (Done late)
Anagha P	Turned In	Turned In	Turned In	Turned In	Turned In	Turned In	Turned In	Turned In	Turned In	Turned In
ANEENA A	Missing	Turned In	Turned In	Missing	Missing	Turned In	Turned In	Turned In	Turned In	Turned In





## E-LEARNING RESOURCES

**Google Classroom**

**Green Garden Journal Entries**

58 students

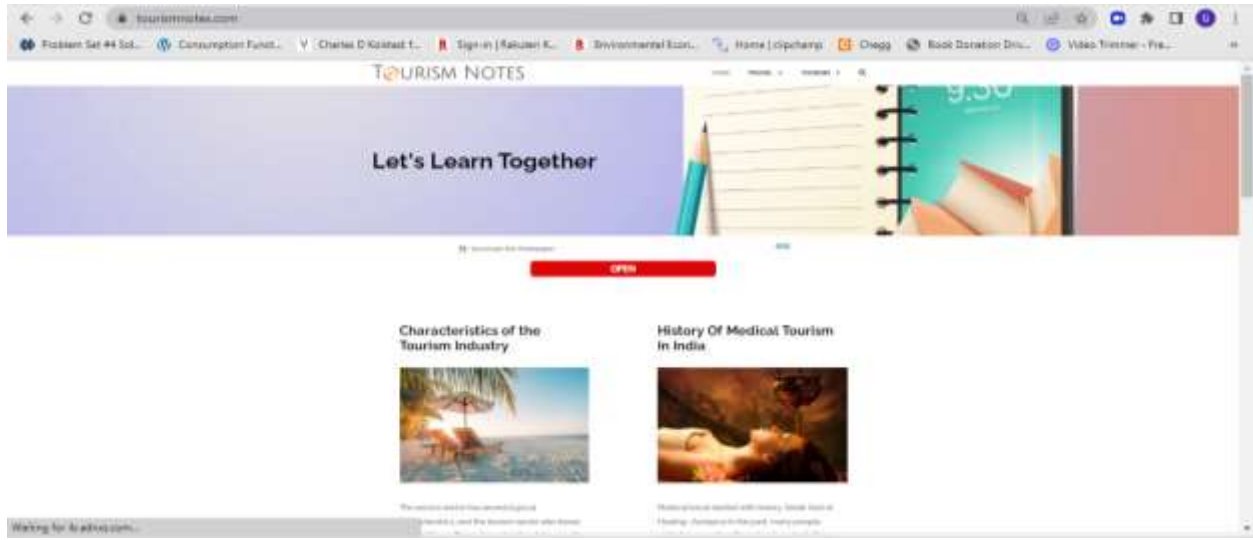
**Com Dig Lib**

113 students

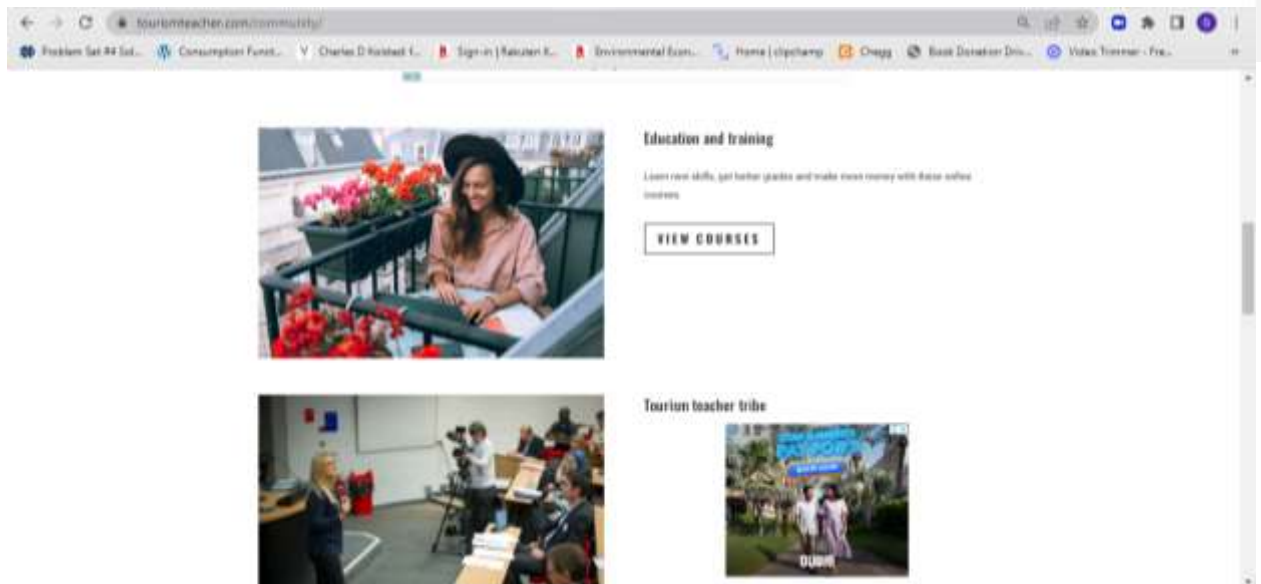
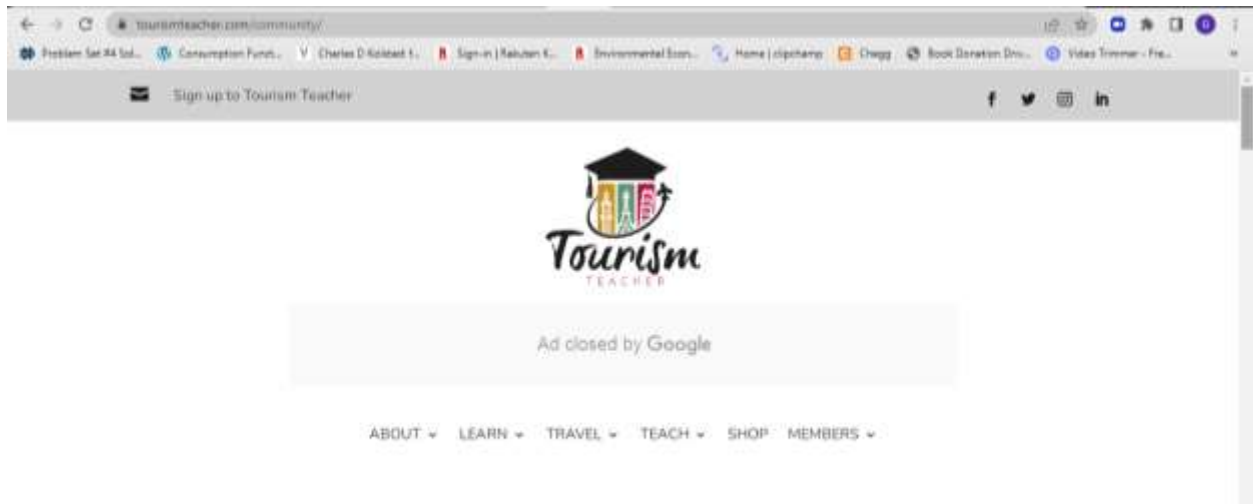
**Com Dig Lib**

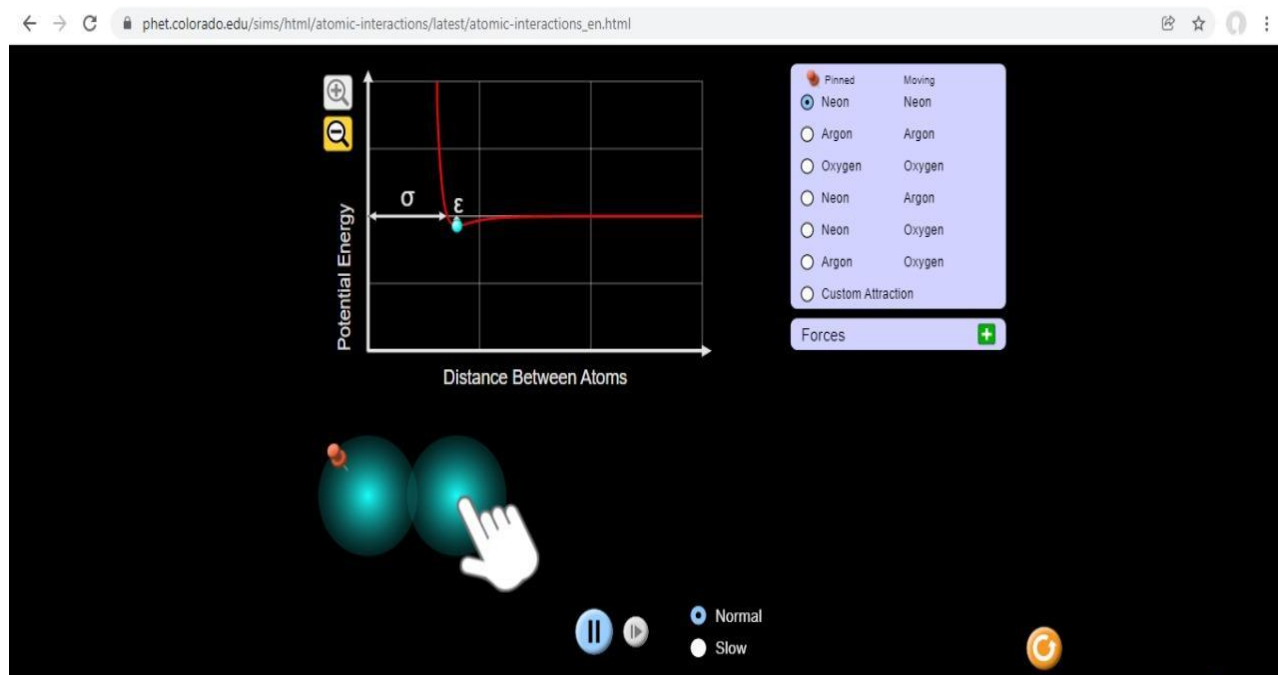
- Third semester Mcom Nov 2020 Questi...**  
Posted 6 Sept 2021
- Financial Derivatives- A study Material...**  
Posted 27 Aug 2021
- Financial Derivatives- M Ramesh**  
Posted 27 Aug 2021
- Financial Derivatives- IMF**  
Posted 27 Aug 2021
- Cost and Management Accounting- ICSI**  
Posted 27 Aug 2021
- Strategic Management- Richard Lynch**  
Posted 27 Aug 2021
- Strategic Management for Senior Lead...**  
Posted 27 Aug 2021
- Strategic Management**  
Posted 27 Aug 2021
- Strategic Management- Neil Ritson**  
Posted 27 Aug 2021
- Business Skills**  
Posted 27 Aug 2021





<https://tourismnotes.com/>





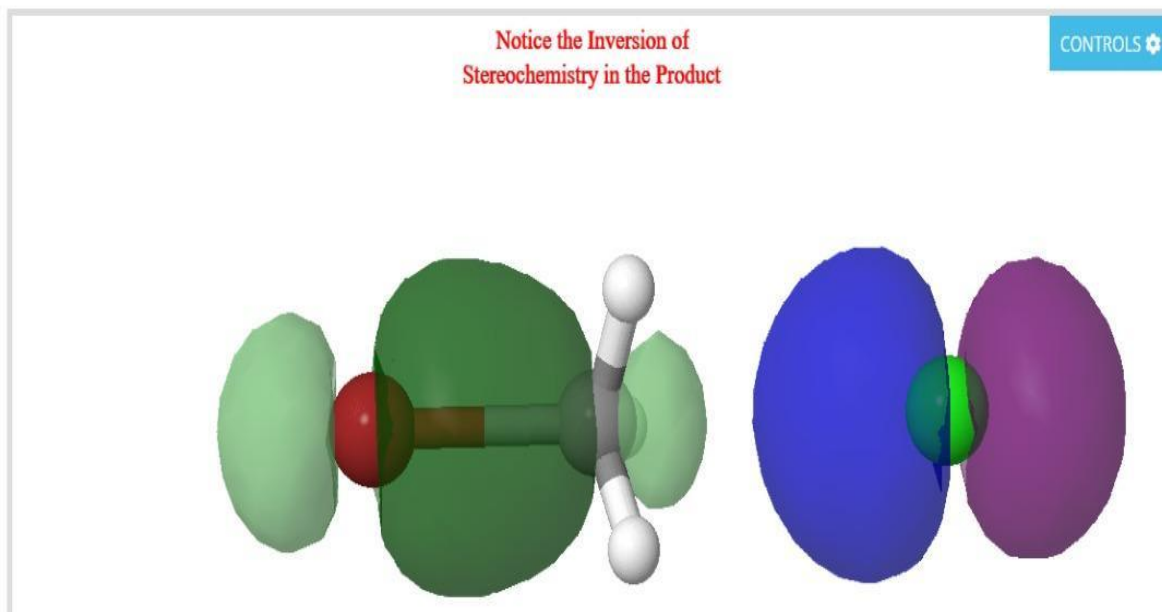
Atomic Interactions

PhET

## Chemtube3D

[chemtube3d.com/aibointro/](http://chemtube3d.com/aibointro/)[Home](#) / [Organic Reactions](#) / [Animated Molecular Orbitals](#) / Introduction to Animated Molecular Orbitals

## Introduction to Animated Molecular Orbitals



## Edinformatics

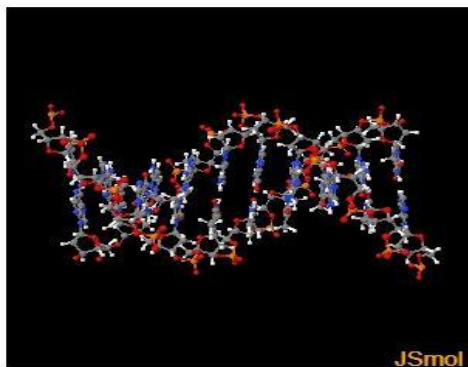
making all the structures and materials the body needs to function.

DNA is organized as two complementary strands, head-to-toe, with bonds between them that can be "unzipped" like a zipper, separating the strands.

The sugar-phosph

ate backbones spiral around the outer surface of DNA.

Between these backbones are two different sized grooves, designated the major and minor grooves. The major groove is approximately 50% wider than the minor.



### DNA Structure

Major grooves in a helix refer to the larger of the unequal grooves that are formed as a result of the double-helical structure of DNA.

Minor grooves in a helix refer to the smaller of the unequal grooves that are formed as a result of the double-helical structure of DNA.

### Try this to see the two grooves!!

Click the right mouse button over the image  
Render --> Schemes --> CPK

## Virtual Labs

virtual.edu.rsc.org/titration/experiment/2/5

Experiments home Titration home Register Log in

Dissolve the sodium hydroxide with distilled water. Transfer it to the volumetric flask (which has already been rinsed with distilled water) and make up the solution to exactly 250.0 cm<sup>3</sup>. Remember to rinse the beaker so that all of the sodium hydroxide goes into the flask.

Check

Il Compli Chem 2021-23  
Anu, Sr, Subramannian, +91 6238 100 975, +91 6238 156 790, +91 6238 566 296, +91 6282 100 431, +91 6282...

virtual.edu.rsc.org  
https://virtual.edu.rsc.org/titration/experiment/2/5  
virtual.edu.rsc.org

➔ Prelab Assignment  
Listen to the video given in the link and finish the activity, download the report and upload in moodle  
<https://virtual.edu.rsc.org/titration/experiment/2/5>

11:26 PM ✓

## Gravimetric Estimation of Barium

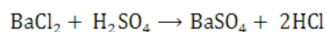


### Objective:

To estimate the amount of barium in the whole of the given solution of barium chloride.

### The Gravimetric Estimation of Barium:

The given barium chloride solution is made up to a definite volume. A measured volume of it is then treated with dilute sulphuric acid and then treated with dilute sulphuric acid and barium precipitated as barium sulphate.



The precipitated barium sulphate is separated and weighed. The mass of Barium in the whole of the given solution is calculated knowing that 233.36 g of barium sulphate contains 137.36 g of barium.

**Note:** For more details refer the theory of "Gravimetric Estimation of Nickel."



## Identification of Anions

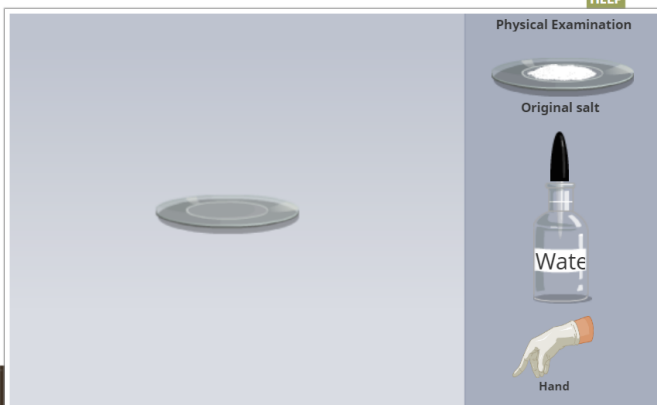
Select the preliminary test:

Physical Examination

Select the confirmation test:

--Select--

Reset



Developed by Amrita University Under research grant from Department Of Electronics & Information Technology



III Chem 2020-23

Agna, Ajanya, Amaya, Amaya, Amrutha, Anjusha, Anu, Anugraha, Aparna, Aparna, Archana, Arsha, Aryananda, ...

Qualitative Analysis of Anions (Simulator) : Class 11 : Chemistry : Amrita Online Lab  
amrita.olabs.edu.in

<http://amrita.olabs.edu.in/?sub=73&brch=7&sim=31&cnt=4>

9:54 AM ✓✓

All of you should go the the above link and do the analysis step by step and write a report on it when you come tomorrow

9:55 AM ✓✓

# LMS – MOODLE

Virtual Learning Space of Providence Women's College, Calicut

You are not logged in. (Log in)

## LMS@Providence Women's College

**Sign In**

Username

Password

**Log in**

[Forgotten your username or password?](#)

**Main menu**

- Site news

**Course categories**

- Undergraduate Courses
- Post Graduate Courses
- Miscellaneous
- Trainings and FDPs
- NAAC
- All courses ...

<https://lms.providencecollegcalicut.ac.in/>

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Course: Entrepreneurship development

Virtual Learning Space of Providence Women's College, Calicut

My Courses

Entrepreneurship development

Home > My courses > Entrepreneurship

Turn editing on

- 2nd internal examination
- Announcements
- RETEST

Module 3

- Critical path method: CPM
- CPM Illustration
- PERT
- Financial Analysis
- Techniques of financial Analysis
- Project financing
- Ed

https://vms.providencecollegecalicut.ac.in/course/view.php?id=51#section-0

Virtual Learning Space of Providence Women's College, Calicut

My Courses

Home

Dashboard

Calendar

Private files

Content bank

My courses

RM CHE2C01

V Semester Organic Chemistry

Outside department

Periodic Table

Skill\_Water Quality

Course categories:

Undergraduate Courses / Chemistry / V semester / Theory Courses

Search courses

Available courses

- PEER ASSESSMENT
- V SEMESTER INORGANIC CHEMISTRY I
- V SEMESTER ORGANIC CHEMISTRY

Add a block

Add...

Virtual Learning Space of Providence Women's College, Calicut

My Courses

Deepthi Jose Chemistry

CHE2C01

Participants

Badges

Competencies

Grades

General

Atomic Structure and Chemical Bonding

Nuclear Chemistry

Module I: Analytical Chemistry

Module IV Bioinorganic Chemistry

Internal Evaluation

General Chemistry

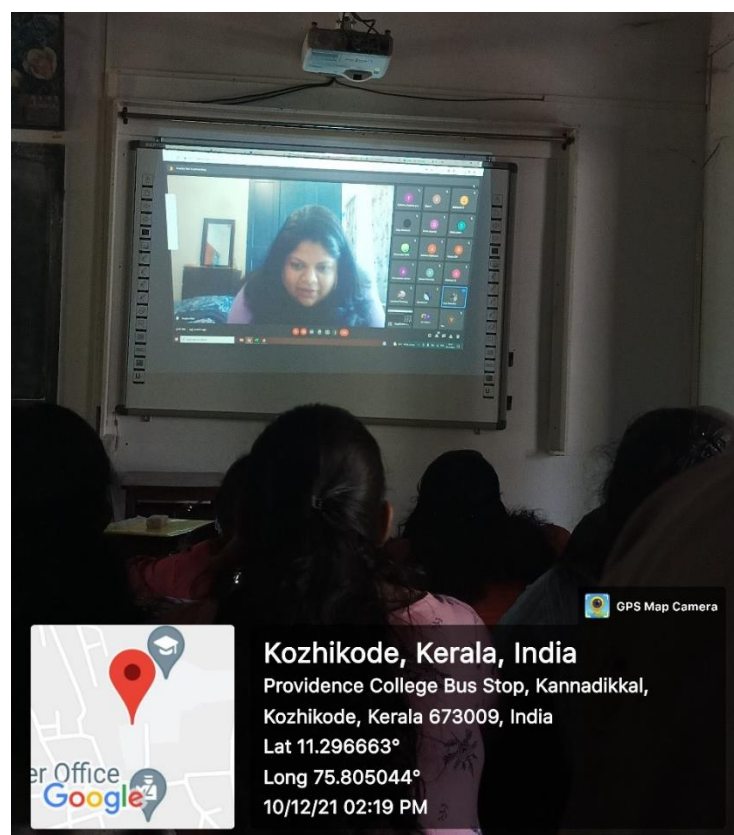
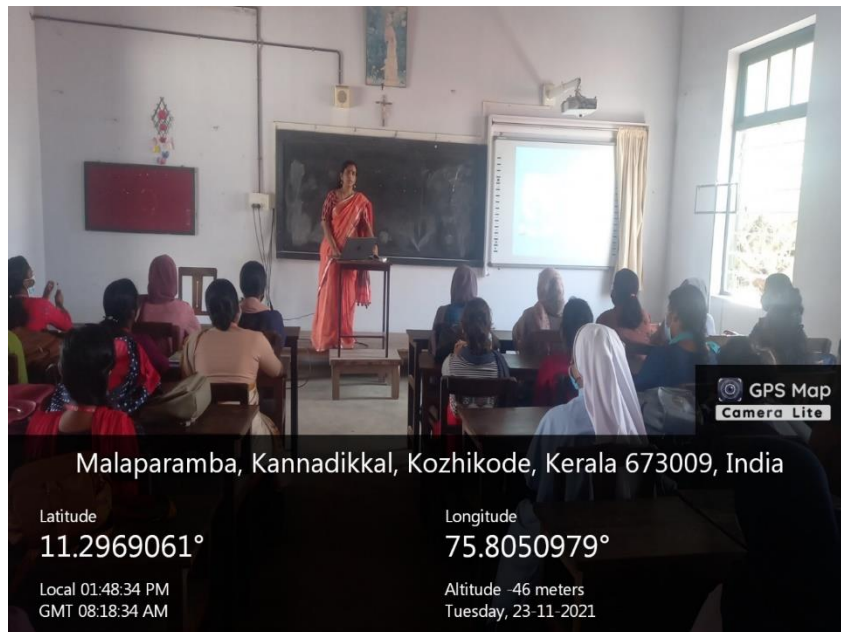
Home > My courses > CHE2C01

Turn editing on

Course Blocks

- Announcements
- Syllabus
- Done
- Evaluation Scheme
- Done
- Question paper
- Mark as done

**Smart Classrooms:** All the departments are equipped with Smart classrooms



**E Repository:** Access to E resources is provided by college library through the N-list programme (Inflibnet, E-ShodhSindhu, NDL) and DELNET. In addition, DigiDrive: a repository of e-books, videos created by teachers and study materials, is also provided to students.

The screenshot shows the N-LIST Admin Dashboard for Providence Women's College, Calicut. The header includes the N-LIST logo and navigation links: College Admin Login, Licences and Fair Use, FAQs, Downloads, and Awareness Programme. The main navigation bar contains HOME, ABOUT, MEMBERS, REGISTER, E-RESOURCES, and SEARCH. The dashboard title is "PROVIDENCE WOMEN'S COLLEGE, CALICUT" with links for Home and Admin Dashboard.

**DASHBOARD**

Providence Women's College, Calicut  
 Address: Providence Women's College, Calicut, Calicut, Kerala - 673009  
 Website: www.providencecollegecalicut.com  
 AISHE Code: C-44532  
 GST No: Not Found [Add GST No](#)

543 Active Users	31 Expired Users
1068 Pending Users	0 Delete Request


Principal Details | N-LIST College Admin Details | Technical Person Details

The screenshot shows the N-LIST E-Resources page. The header is identical to the dashboard view. The "E-RESOURCES" tab is selected, displaying two columns of available resources:

E-Journals (Fulltext)	E-Books
✓ American Institute of Physics [18 titles]	✓ Cambridge Books Online [1800 titles]
✓ Annual Reviews [33 titles]	✓ E-brary [185000+ titles]
✓ Economic and Political Weekly (EPW) [1 title]	✓ EBSCoHost-Net Library [936 titles]
✓ Indian Journals [180+ titles]	✓ Hindustan Book Agency [65+ titles]
✓ Institute of Physics [46 titles]	✓ Institute of South East Asian Studies(ISEAS) Books [382+ titles]
✓ JSTOR [2500+ titles]	✓ Oxford Scholarship [1402+ titles]
✓ Oxford University Press [262 titles]	✓ Springer eBooks [2300 titles]
✓ Royal Society of Chemistry [29 titles]	✓ Sage Publication eBooks [1000 titles]
✓ H. W. Wilson [3000+ titles]	✓ Taylor Francis eBooks [1800 titles]
✓ Cambridge University Press [224 titles] (2010-2016)	



← → ↻ nlist.inflibnet.ac.in/veresources.php



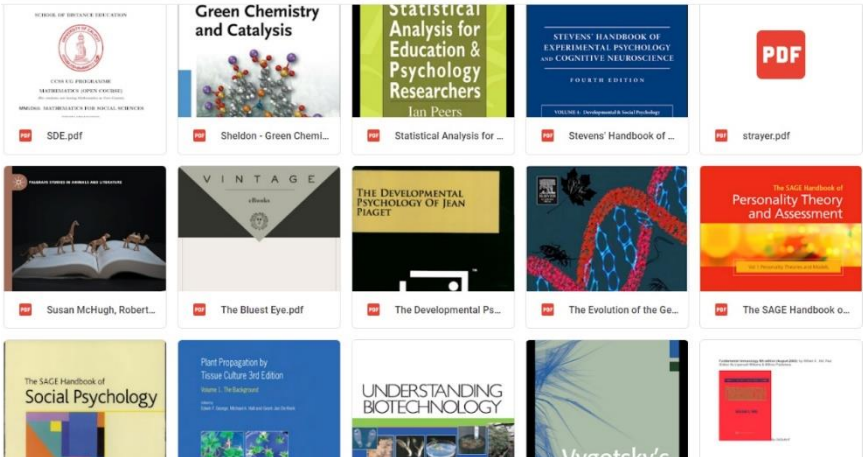
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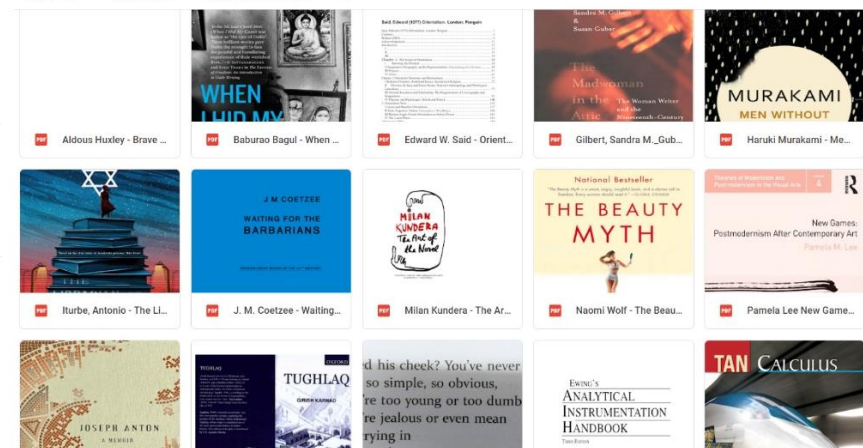
- Indian Journals [180+ titles]
- Institute of Physics [46 titles]
- JSTOR [2500+ titles]
- Oxford University Press [262 titles]
- Royal Society of Chemistry [29 titles]
- H. W. Wilson [3000+ titles]
- Cambridge University Press [224 titles] (2010-2016)
- Institute of South East Asian Studies(ISEAS) Books [382+ titles]
- Oxford Scholarship [1402+ titles]
- Springer eBooks [2300 titles]
- Sage Publication eBooks [1000 titles]
- Taylor Francis eBooks [1800 titles]
- Mylibrary-McGraw Hill [1124 titles]
- South Asia Archive [through NDL]
- World e-Books Library [Now Available through NDL only]

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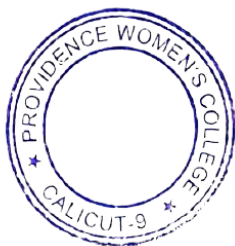


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## Participation of teachers in FDPs on ICT enabled Teaching 2021-22

Sl. No	Name of Teacher	Programme Attended with Date	Organizing Institution
1.	Nishana C M	The Best Practices for Online Teaching: Classrooms, Courseware and Tools 19/04/2022 to 25/04/2022	Mar Sleeva College of Arts and Science, Murickassery
2.	Dr. Divya T T	The Best Practices for Online Teaching: Classrooms, Courseware and Tools 19/04/2022 to 25/04/2022	Mar Sleeva College of Arts and Science, Murickassery
3.	Dr. Minoo Divakaran	Strategies to Enhance Potential through Capacity Building among Teaching Fraternity 23/11/2021 to 27/11/2021	AICTE Training and Learning (ATAL) Academy



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