



# FATIMA COLLEGE

(Autonomous)

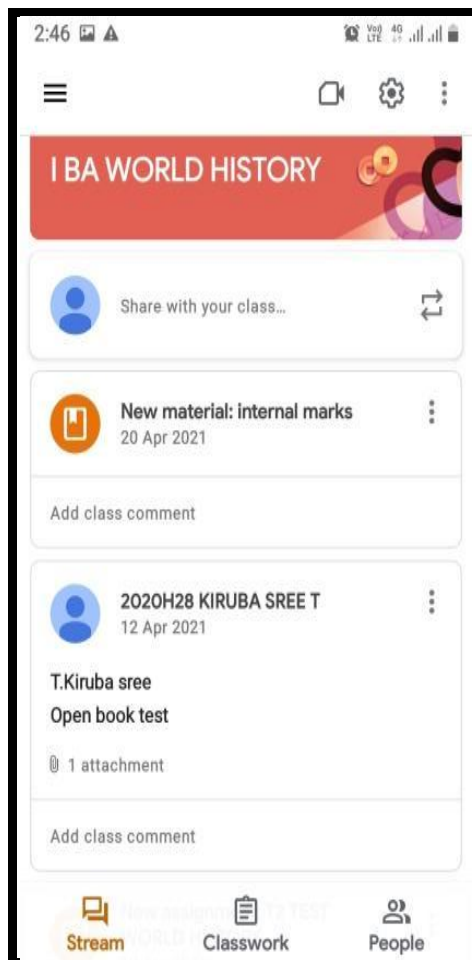
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## ICT ENABLED TOOLS

### DEPARTMENT OF HISTORY

**ICT USAGE – Supportive Documents for (Audio Visuals material, Power Point, Google Classroom and Online Test Applications)**

#### Google Class Room



**Dr.J.Saral Evangelin**



**Ms.S.Rajalakshmi**



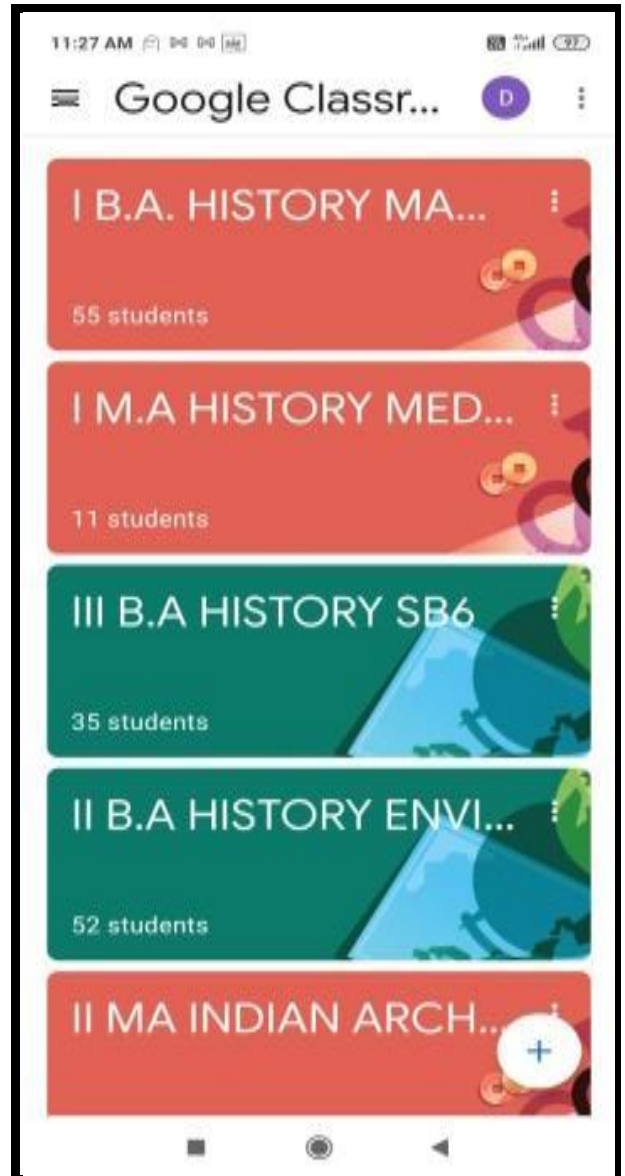
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**Dr.W.Shyamala**



**Dr.M.Vijaya Shanthi**



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## E-Content Videos

- Women's Studies is an interdisciplinary study of women and society from the standpoint of women's lived experiences.
- It provides a counterpoint to the historically established theories in the various branches of human knowledge and challenges the predominantly male centric understanding of social institutions and processes.
- In its essence, Women's Studies is both a perspective and a discipline: it challenges the notions of objectivity of knowledge.
- A body of literature that embodies the concern for women's equality and development and seeks to find explanations and remedies for the unequal position of women in the society; a set of research and analysis which enquires into the origin and basis of these discriminatory practices against women, which has come to be concisely defined as Women's Studies.

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SCREENCAST  
O MATIC



**Dr.J.Saral Evangelin**



**Dr.M. Vijaya Shanthi**



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INDIAN HISTORY  
ADVENT OF EUROPEANS

**Advent of Europeans**

Lectur  
Dr.B.Poornimasethu  
Assistant professor in His  
Fatima Col

RECORDED WITH  
SCREENCAST  
0:50 / 7:38

**Dr. B. Poornima Sethupathi**

**AIM**

- To lit the political interest of non- brahmins
- Uplift the depressed & downrodden

**GOAL:**

- Freedom ,
- Equal opportunity
- Equal status

**MOTTO:**

- Equalisation in education
- Revivalism
- Reduce the high handness of brahmins

**Mrs. S. Arunjunai Devi**





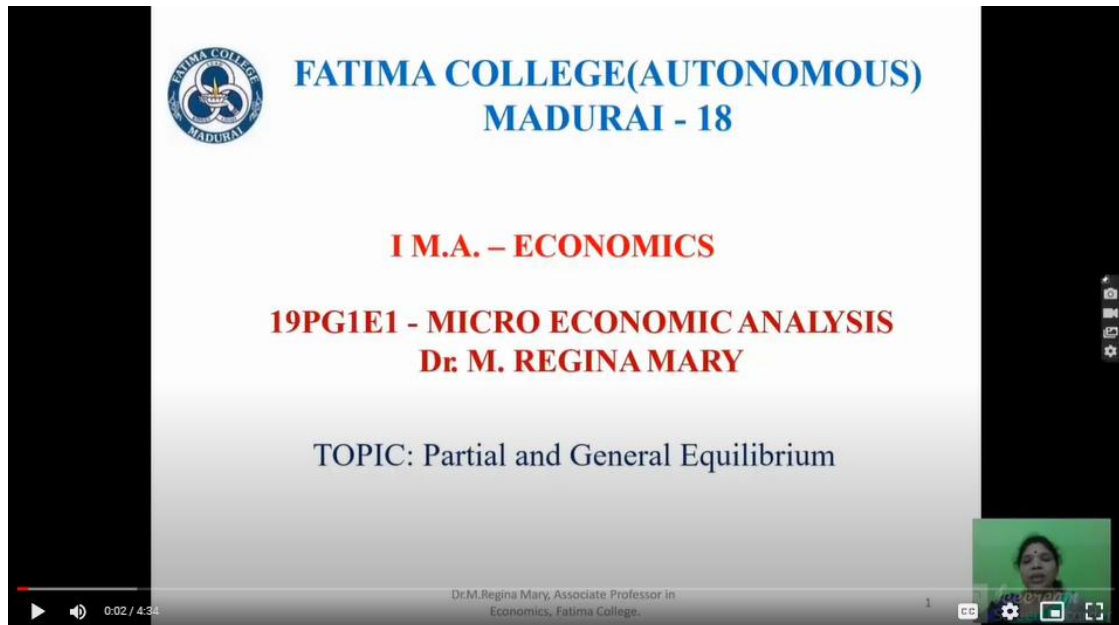
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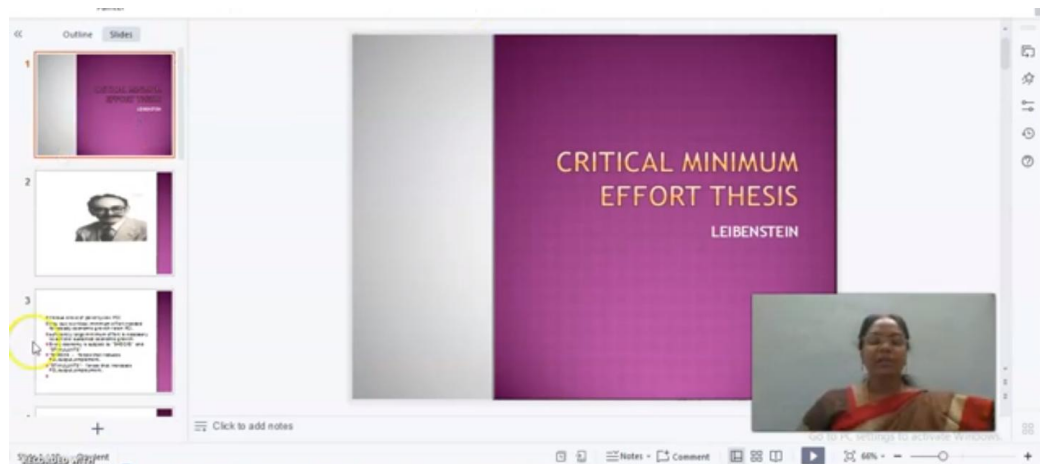
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## THE RESEARCH DEPARTMENT OF ECONOMICS

### E-Content Videos



**Dr. M. Regina Mary**



**Dr. S. Ivy Jeno**



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Ms. A. Gracy Rani

**TYPES OF HYPOTHESIS**

- SIMPLE HYPOTHESIS
- COMPLEX HYPOTHESIS
- NULL HYPOTHESIS
- ALTERNATIVE HYPOTHESIS
- LOGICAL HYPOTHESIS
- EMPIRICAL HYPOTHESIS
- STATISTICAL HYPOTHESIS

Dr. P. Anita



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**Dr. C. Sahaya Mary Sophia**



**Dr. K. Selvalakshmi**



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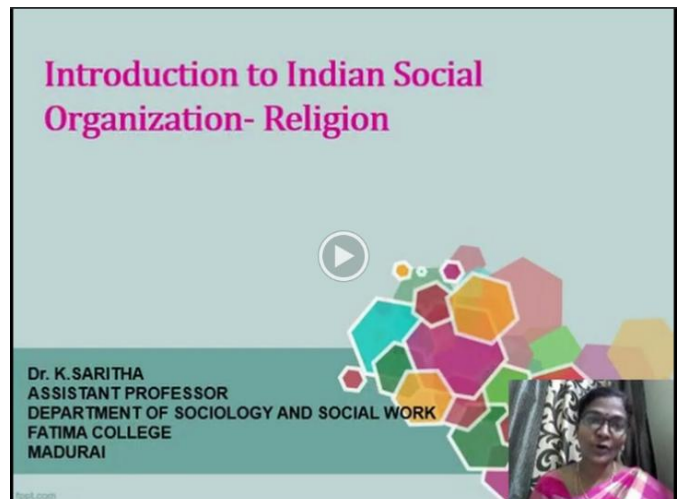
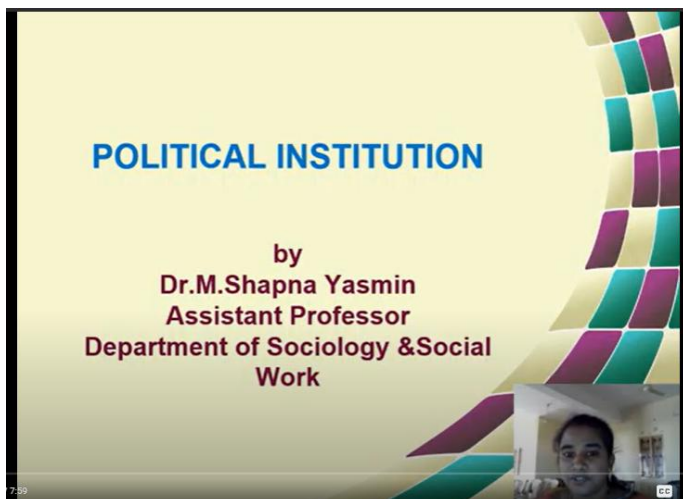
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## DEPARTMENT OF SOCIOLOGY AND SOCIAL WORK

### Teachers handling ICT Tools in the smart classroom



### E-Content Videos developed







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## THE RESEARCH CENTRE OF ENGLISH

### Photos/Screenshots of ICT Usage by Faculty and Students



### Quiz for Part II English Students using PPT



### PPT seminar presentation by students



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**III UG Project Viva held at Smart Room- External Evaluation by Dr. Elangovan, Associate Professor, Thiagarajar College, Madurai.**



**Students watching a video text at Language Lab II**

Both Colonialism and Imperialism mean economic and political domination of the other. As a result, both are hard to differentiate at times.

Yet they are two words with totally different meanings. Colonialism is where one country physically exerts complete control over another country and Imperialism is formal or informal economic and political domination of one country over the other.

In a nutshell, colonialism can be thought of as the practice of domination and imperialism as an idea behind the practice.

DIFFERENCES

**Screenshot of e-content submitted by M.A. English students**



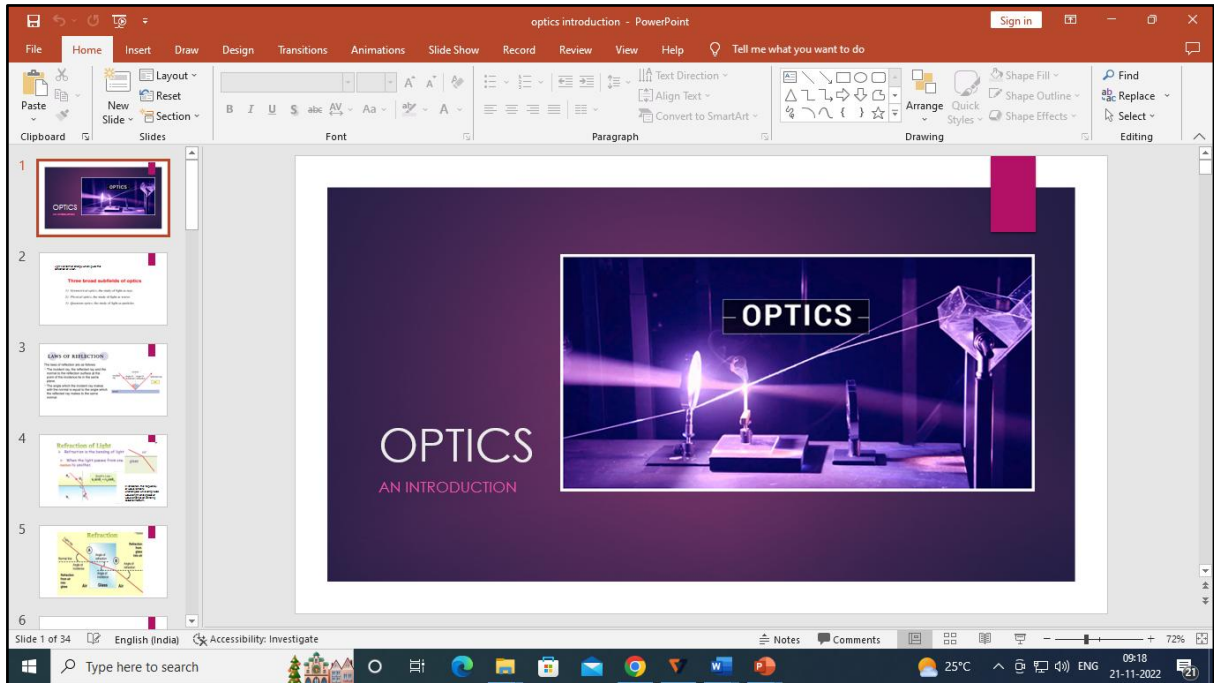
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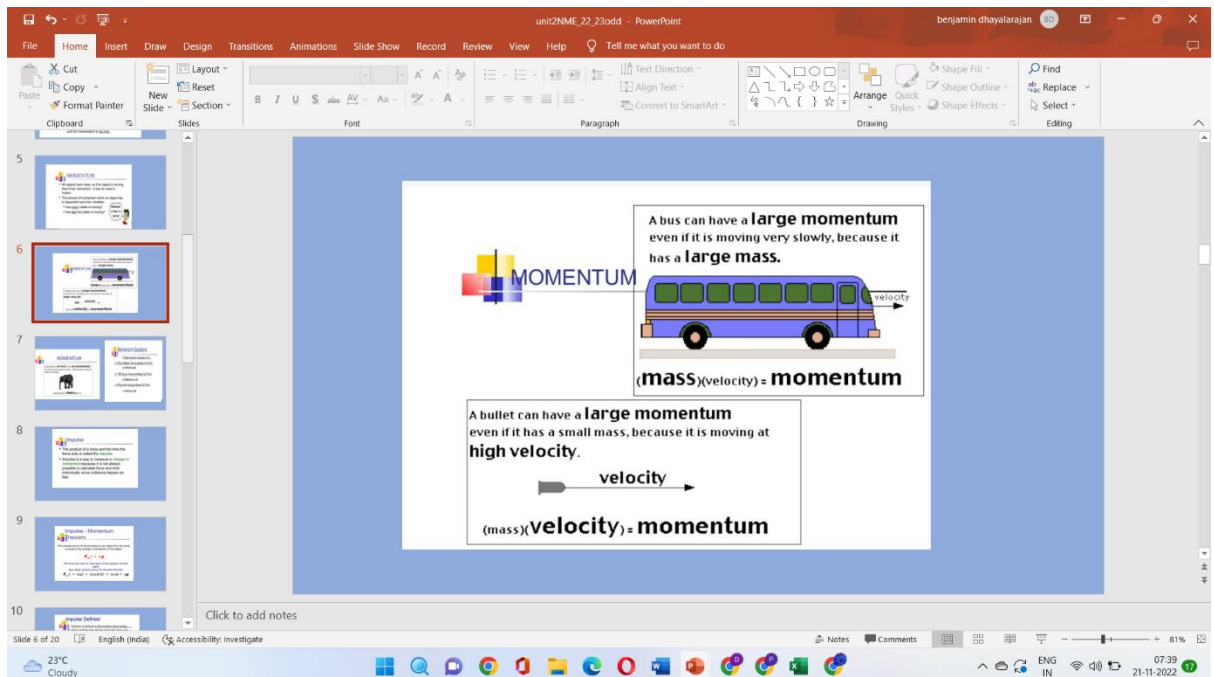
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## DEPARTMENT OF PHYSICS

### Screenshots of ICT Usage by Faculty



Dr. M.V. Leena Chandra



Dr. Ancemma Joseph

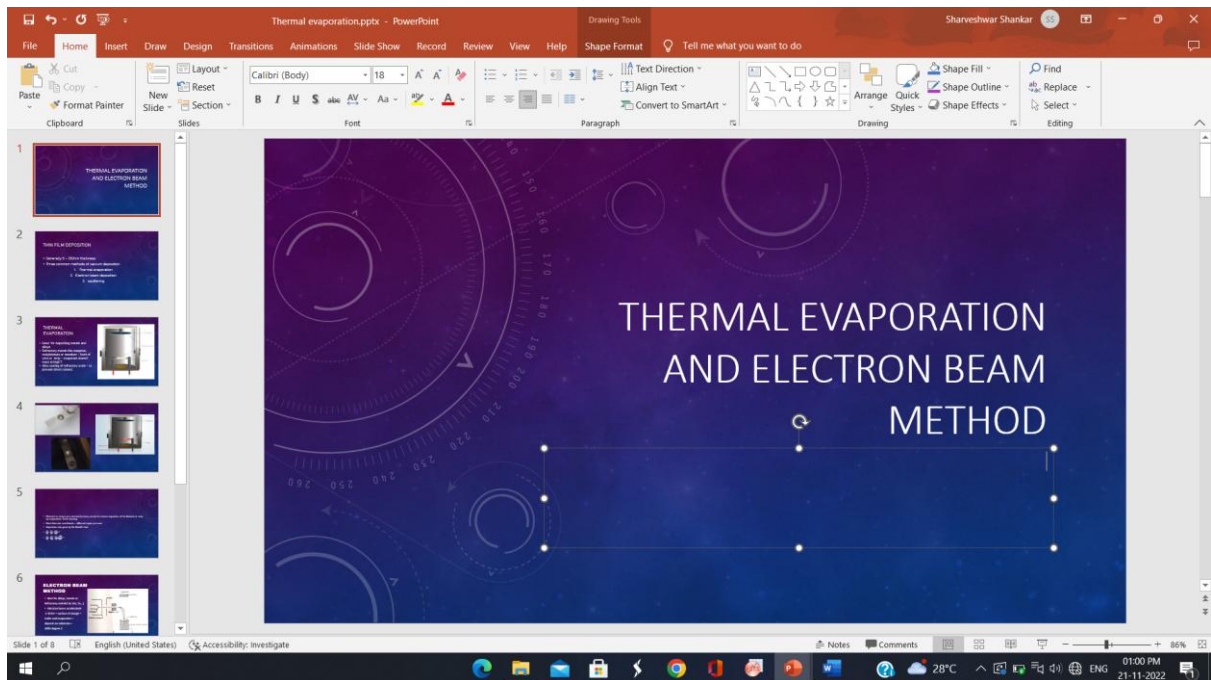




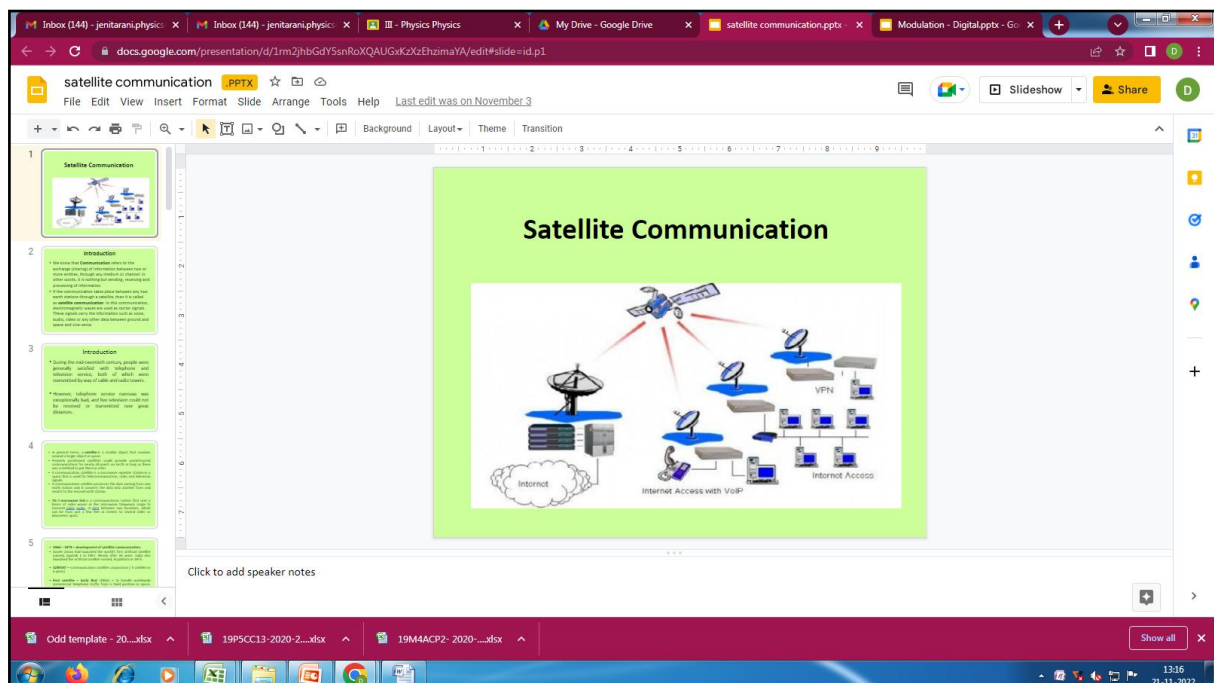
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**Dr. I. Jeya Sheela**



**Dr. Sr. G. Jenita Rani**





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## GOOGLE CLASSROOMS FOR LEARNING

**Mrs. Alphonsa Fernando-Applied Electronics**

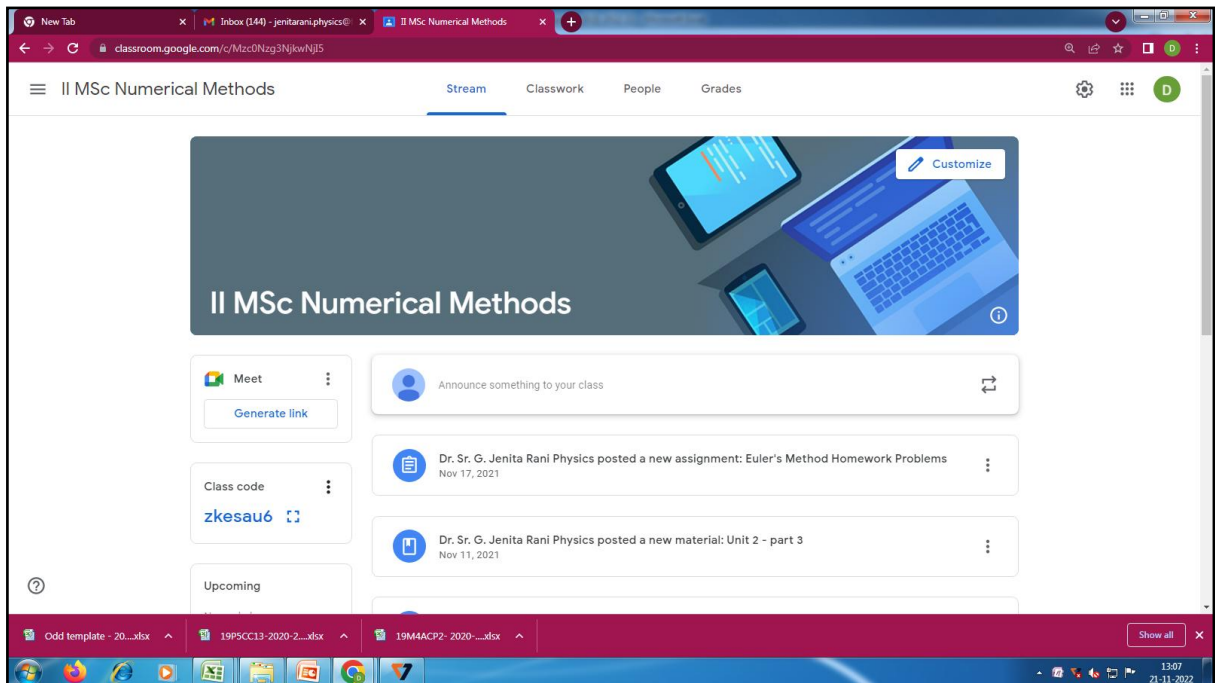
**Dr. R. Jothi Mani**



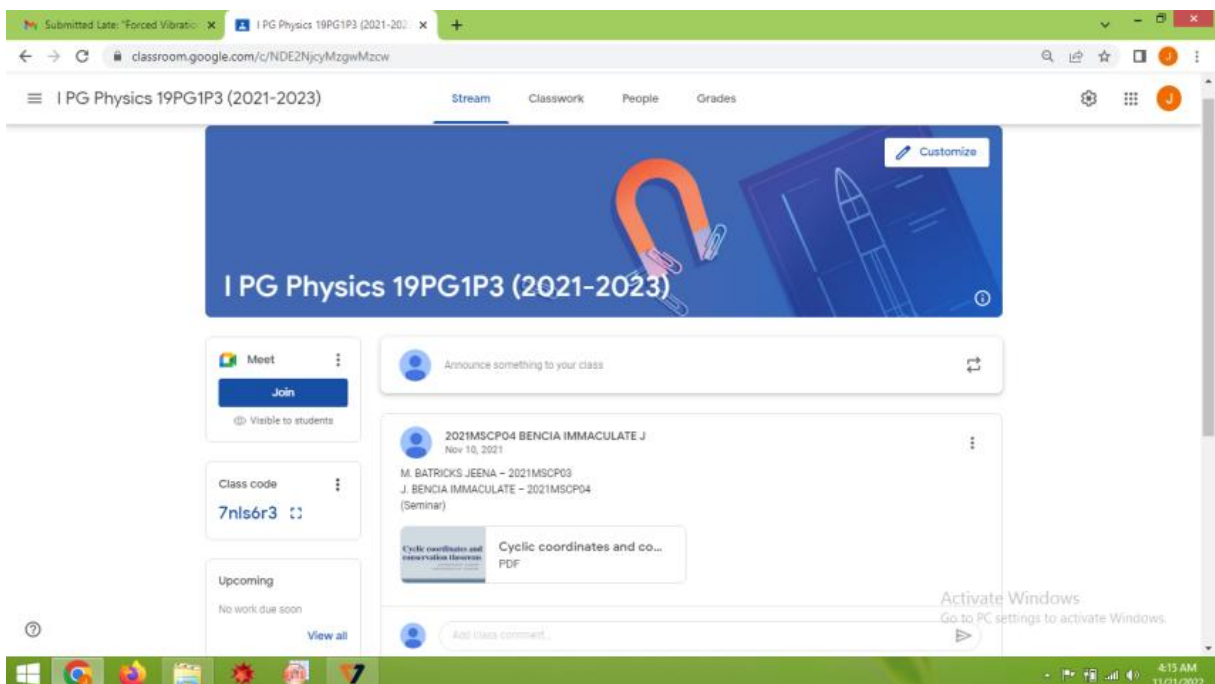
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**Dr. Sr. G. Jenita Rani**



**Ms. Janet Shirly**



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## DEPARTMENT OF CHEMISTRY

### ICT enabled classrooms



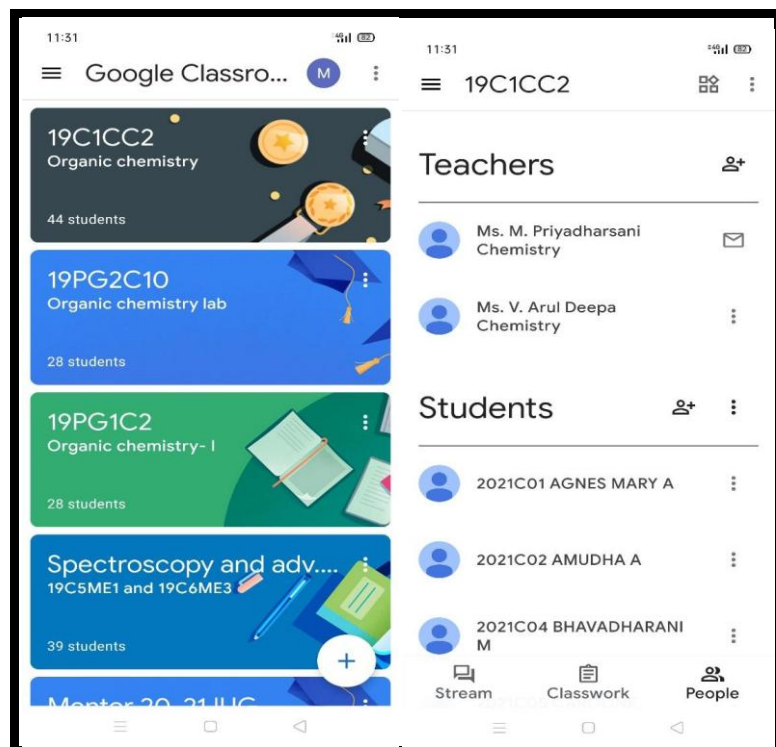
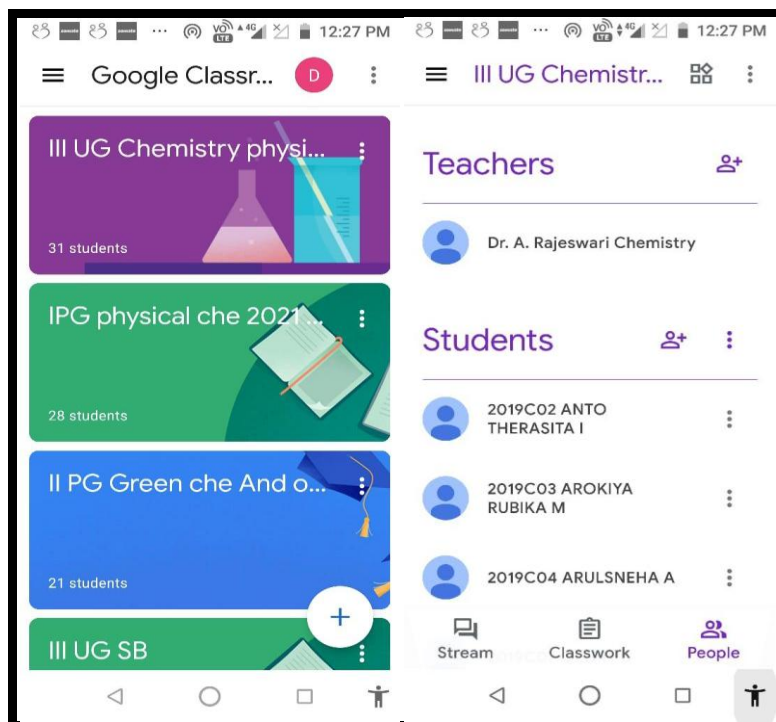


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## Screen shots of Google Classrooms







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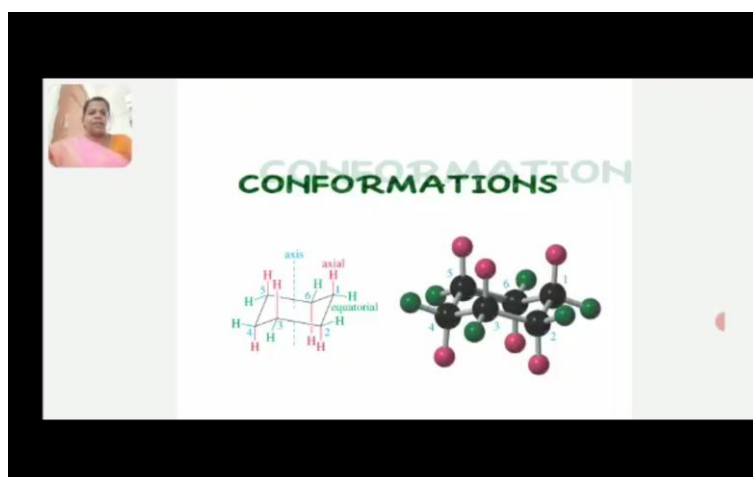
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## E-Contents developed

PRESENTATION  
O  
Basic Differences between  
com  
by  
Dr. B. SUGANTHANA  
ASSISTANT PROFESSOR  
DEPARTMENT OF CHEMISTRY  
FATIMA COLLEGE  
MADURAI

Dr. B. Suganya



Dr. M. Priyadharshini

10:34  
SCRIBD - aishwarya  
Access the ultimate library with Scribd.  
INDUCTIVE EFFECT  
The inductive effect (I Effect) refers to the polarity produced in a molecule as a result of higher electronegativity of one atom compared to another.  
Simply we can say,,  
Inductive effect is defined as permanent displacement of shared electron pair in carbon chain towards more electronegative atom or group.

Dr. V. Arul Deepa



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## DEPARTMENT OF ZOOLOGY

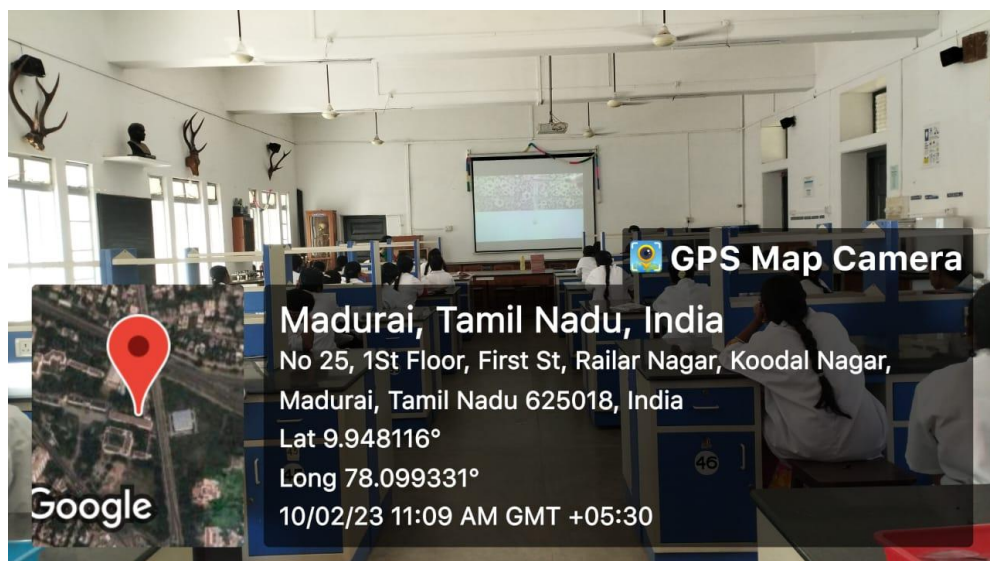
### ICT Enabled Teaching

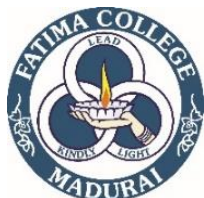
The department of Zoology has adopted ICT enabled teaching-learning approach. ICT-enabled teaching in the institute helps to enhance the learning experience of the students and encourages their active involvement in the learning process.

- The department has a spacious lab with **LCD projectors, high-speed internet connection, and an audio system**. Teachers use these modern pedagogy tools to deliver the course effectively.



**Dr.Antony Amala Jayaseeli delivers a lecture during the practical classes for I B.Sc students of the Zoology department.**



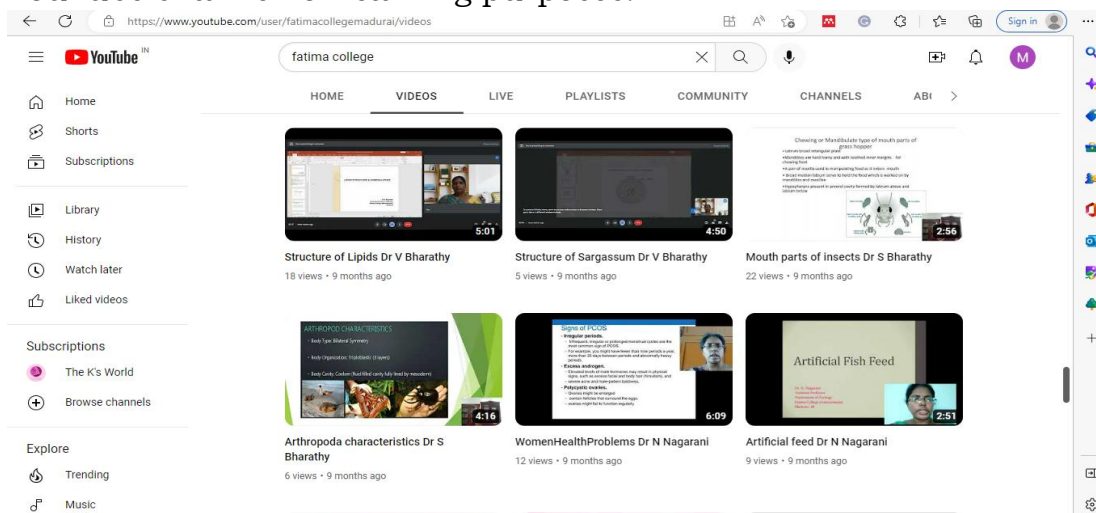


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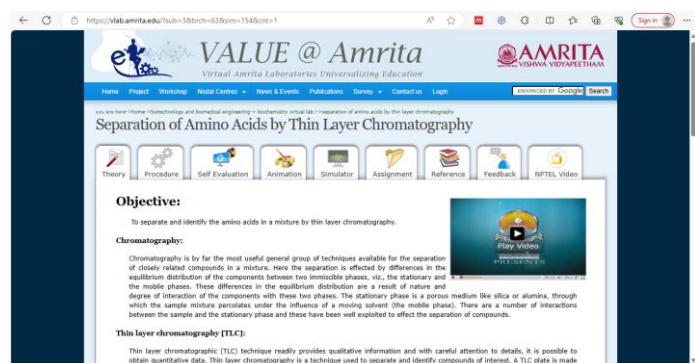
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- The students are encouraged by their class teachers and mentors to enrol in various online courses conducted by **Swayam, or NPTEL**.
- The lecture videos prepared by the staff members are uploaded to the YouTube channel for learning purposes.

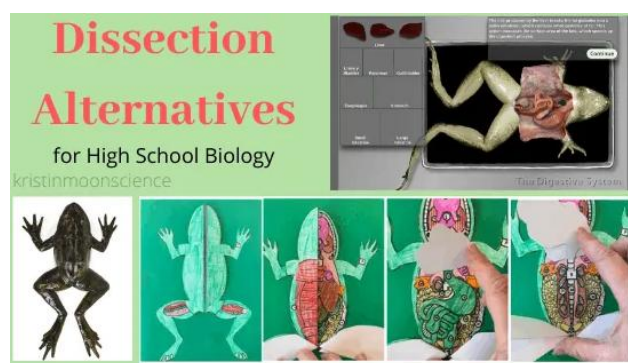


**Screenshot of the video uploaded in YouTube**

For conducting the experiments online, demonstration videos on YouTube channel and virtual labs from various Universities and open educational resources are used.



**Screenshot of virtual lab used to teach practical classes**



**Screenshot of Digital frog software used to teach dissection**

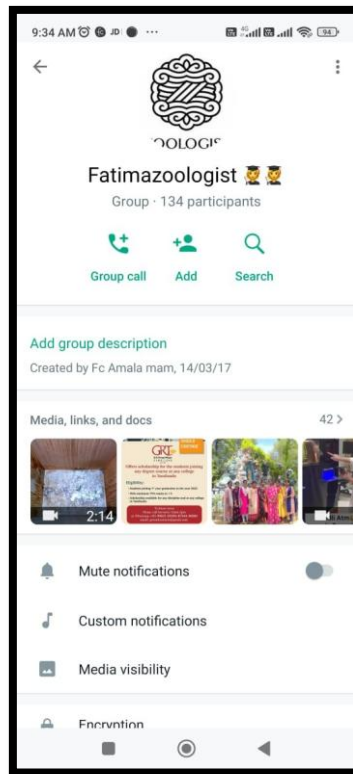


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- The department uses **social media platforms like Facebook, WhatsApp and Blog** effectively for the dissemination of information



**Screenshot of WhatsApp group created to share information with the students and alumnae of the Zoology department**



**Screenshot of the homepage of Facebook created by the department of Zoology**

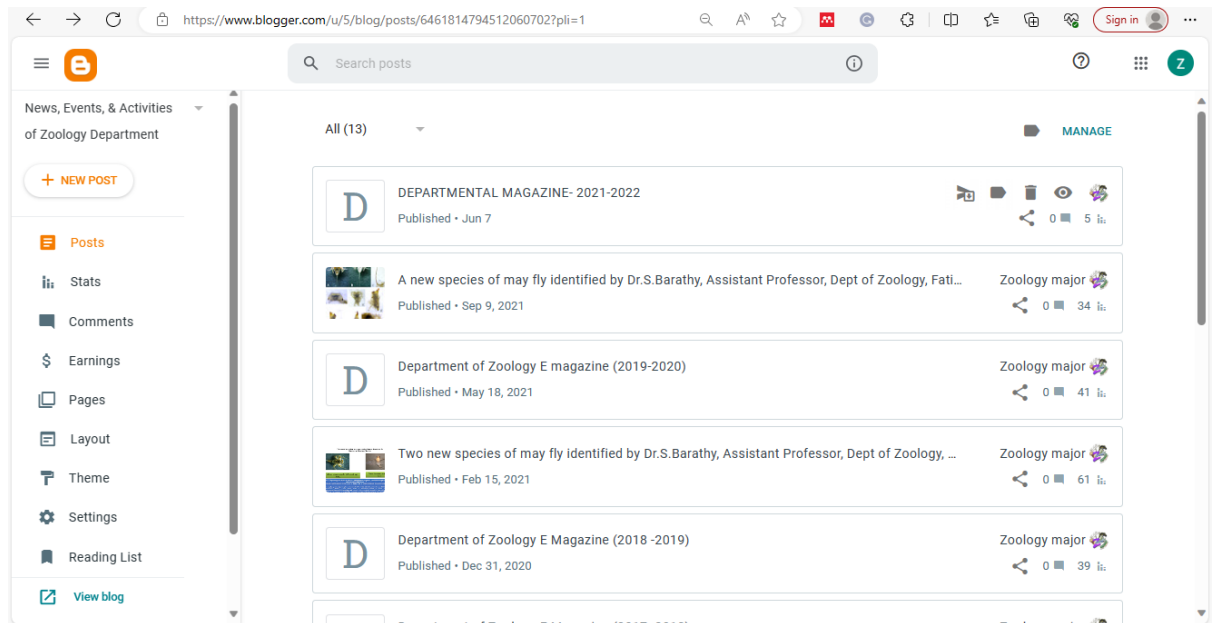




# FATIMA COLLEGE

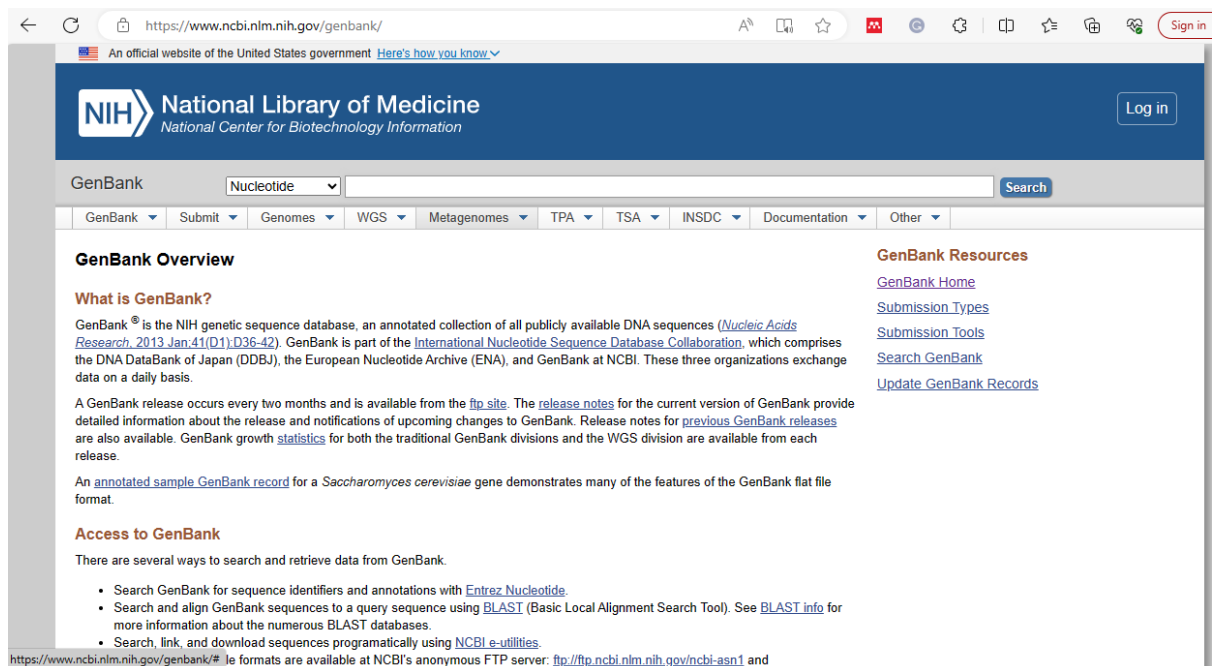
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**Screenshot of the homepage of Blog created by the department of Zoology**

- Online Softwares& databases are used to teach Bioinformatics for III UG students



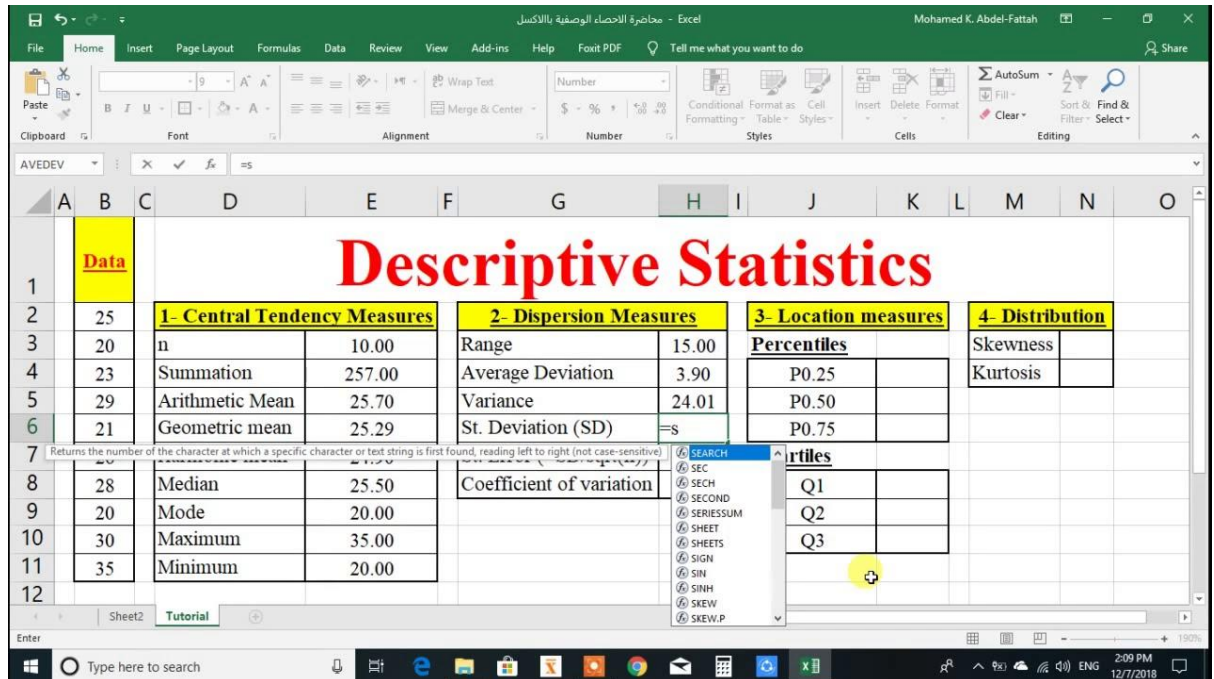


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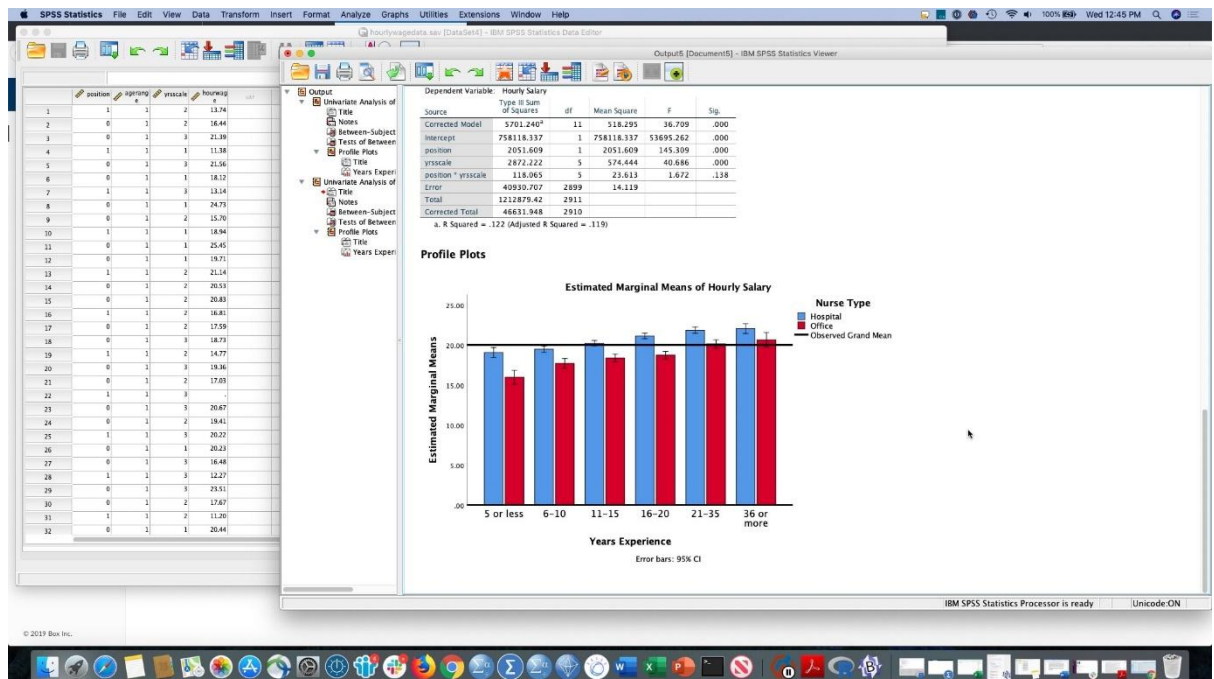
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- Teaching Biostatistics using MS-Excel



- Teaching SPSS using the software package



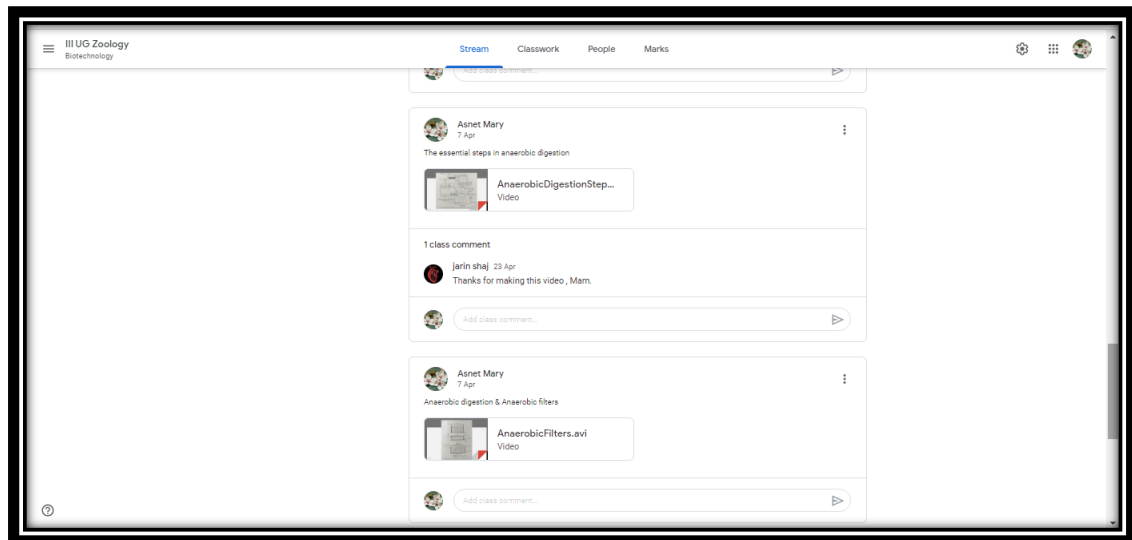


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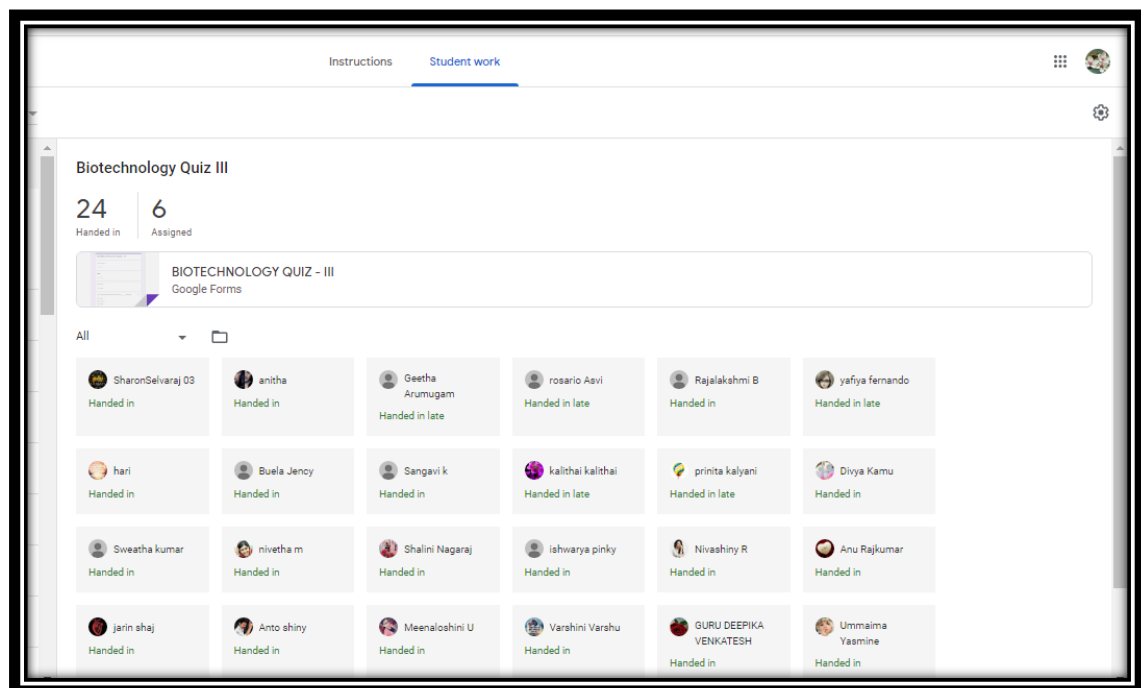
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- For academic planning, distribution of course material and conducting quiz tests **Google classroom** is used as a learning management system.



Sharing of lecture videos in Google classroom



Conduction of online test in Google classroom



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## Snapshot of Google forms and Google classrooms for conducting quiz and assignment submission

10:24 AM

III UG 2022-23

Share with your class...

Unknown user  
26 Mar

Saranya.A  
2020z29  
Entomology  
1 attachment

Add class comment

15 Mar

A.SARANYA  
2020Z29  
BIO TECHNOLOGY  
1 attachment

Add class comment

Stream Classwork People

docs.google.com/forms/d/e/1FAI...

Microbiology -  
19Z4CC10

Quiz Test I  
\* Required

Name & Reg. no \*

Your answer

1. Nutrient broth is an example of 1 point

☐ a) defined media  
☐ b) undefined media  
☐ c) Selective medium  
☐ d) differential medium

4:25 PM | 35.5KB/s

100 points

Instructions Student work

41 Handed in 0 Assigned

☐ Handed in

☐ 2019Z01 ANTONETTE S... Handed in

☐ 2019Z02 ANUMITHA S Handed in

☐ 2019Z03 CHITHRA DEV... Handed in

☐ 2019Z04 DEVI SUBBUL... Handed in

☐ 2019Z05 DHANALAKS... Handed in

☐ 2019Z06 DHARANI R Handed in

☐ 2019Z07 GOPIKAA RB Handed in

☐ 2019Z08 GOWRI V Handed in





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## E-content Videos Developed

Biochemistry Amino acids

### Amino Acids

- Amino acids are building blocks of proteins
- They have a central  $\alpha$ -carbon and  $\alpha$ -amino and  $\alpha$ -carboxyl groups
- 20 different amino acids
- Same core structure, but different side group (R)

NC(R)C(=O)O

Dr.Mrs. A.Tamilselvi

Migration of Birds

- The periodic migration of birds from place to another & back, for breeding is called bird migration
- It is a 2-way migration, involving emigration & immigration
- emigration is outward migration from the feeding ground to breeding ground
- immigration is inward migration or return migration from the breeding ground to feeding ground

Dr. Mrs. Antony Amala Jayaseeli

### Excretory system

- Excretion – the separation and elimination of nitrogenous wastes from the body.
- The wastes eliminated are called excretory products.
- The organs concerned with excretion are called excretory organs.
- The excretory system is a **passive biological system** that removes excess, unnecessary materials from the body fluids of an organism, so as to help maintain internal chemical homeostasis and prevent damage to the body.

Dr.Sr.Biji Cyriac



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## THE RESEARCH CENTRE OF HOME SCIENCE

### ICT Enabled Teaching



**Dr. S Santhi**



**DR. K Kathiga**



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**DR. C. Helen**



**Dr. C. Priyalatha**





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**Mrs. D. Mouna**



**Mrs. J. Josephine Jecintha**



**Dr. M. Angel**





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## DEPARTMENT OF COMPUTER SCIENCE

### E-Content Videos

**Data Mining Techniques**

- Anomaly Detection
- Association Learning
- Clustering Analysis
- Classification Analysis
- Regression Analysis
- Choice Modeling
- Rule Induction
- Neural Networks

Dr. T. Vasantha  
Assistant Professor  
Department of Computer Science  
Fatima College.

Dr. T. Vasantha

**PROGRAMMING WITH C**

POINTERS

COURSE TEACHER : Dr. A. Vimala

Dr. A. Vimala



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## Intensity Transformations

Digital Image Processing

Dr.P.Meenakshi Sundari

Asst. Professor,

Department of Computer Science,

Fatima College, Madurai

Ref: Digital Image Processing, Gonzales and Woods

**Dr. P. Meenakshi**



Sr.B.Margaretmary

Assistant professor

Department of Computer Science

Fatima college

Madurai-18

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SCREENCAST  
MATIC

**Sr.B.Margaret Mary**



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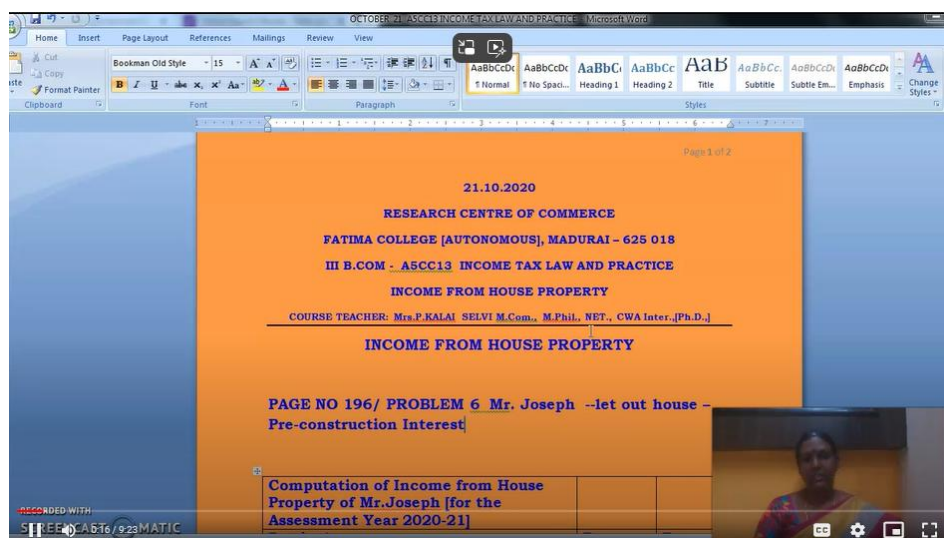
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## THE RESEARCH CENTRE OF COMMERCE

### Google Classroom



### E-content Video



**Dr. P. Kalaiselvi**



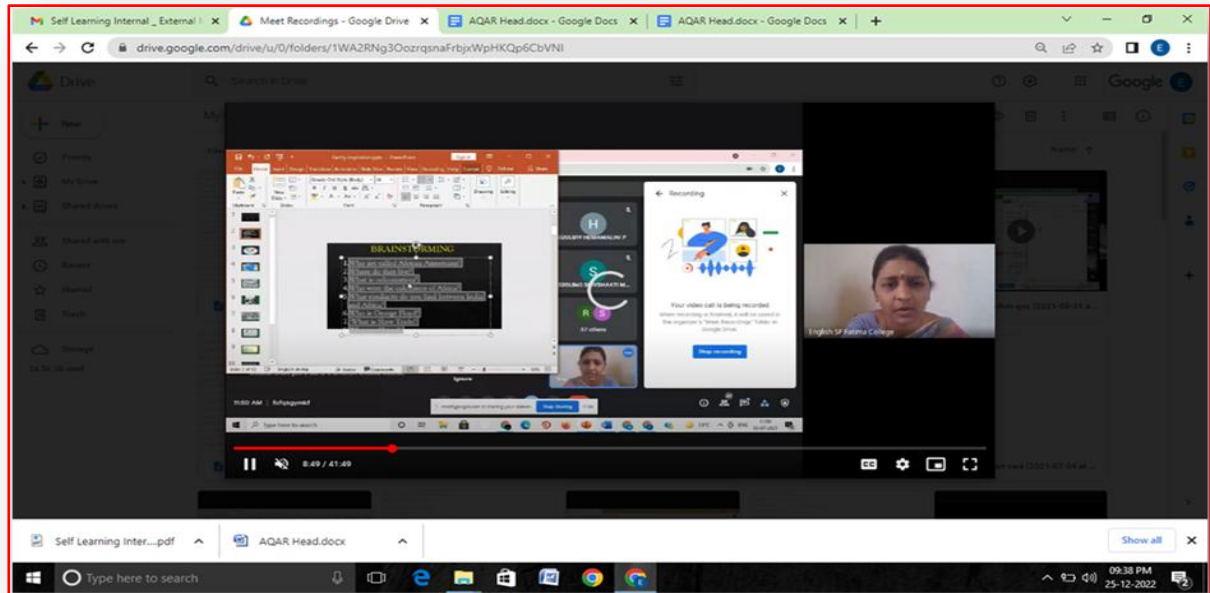
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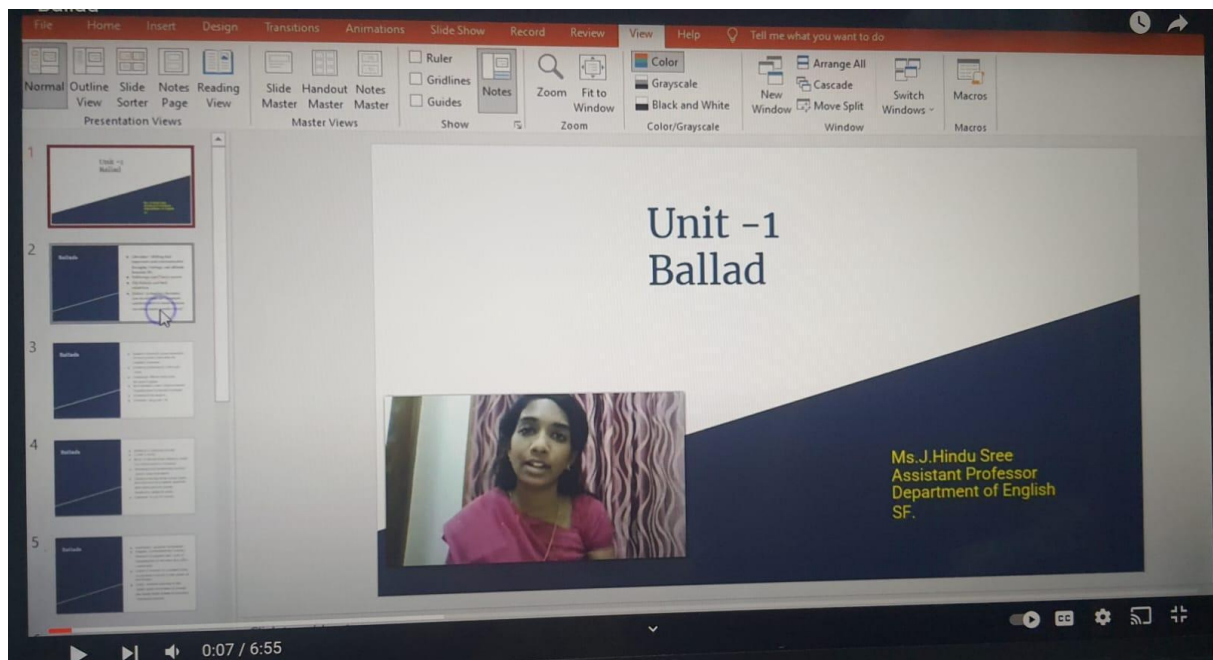
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## DEPARTMENT OF ENGLISH (SF)

### SCREENSHOTS FOR GOOGLE CLASSROOM INTERACTIONS



Mrs. B. Sumedha



Ms. J. Hindu Sree

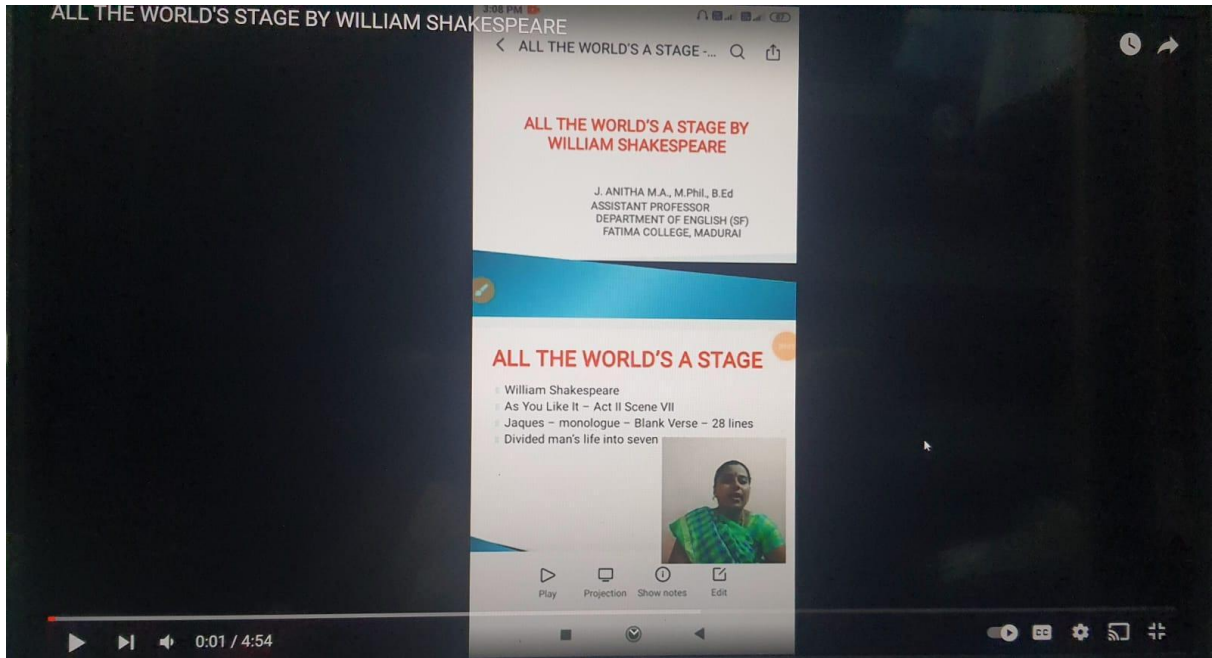




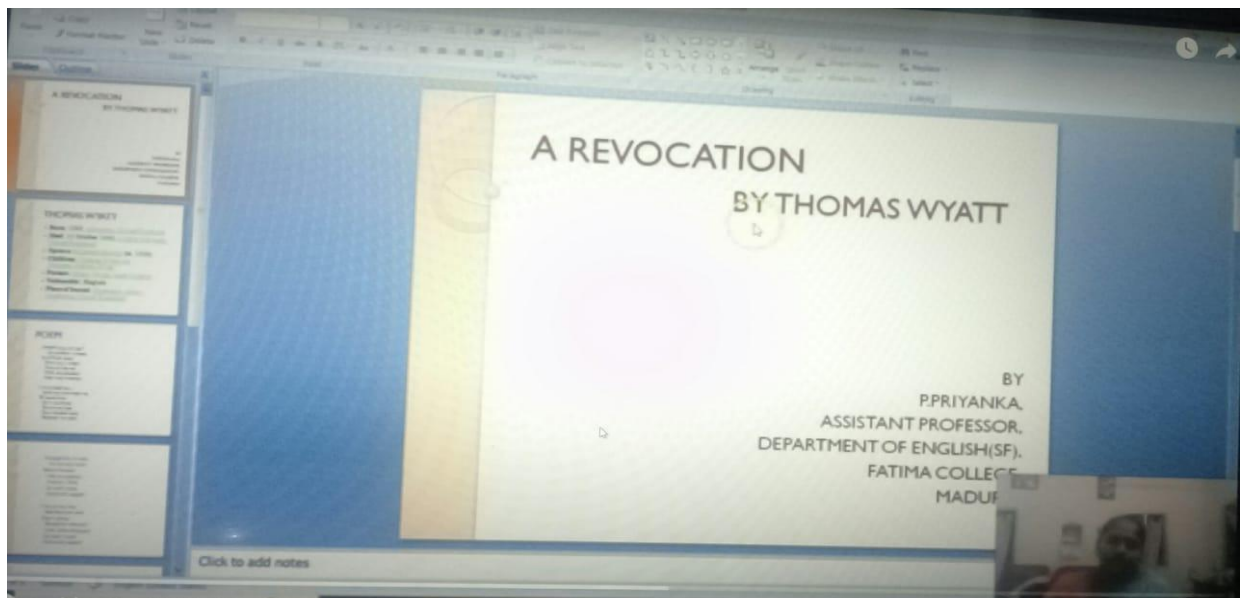
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**Dr. K. Priyanka**





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## DEPARTMENT OF BUSINESS ADMINISTRATION

### E-contents Developed

TAX LAWS- HRA .pptx - Google Slides.webm - VLC media player

Media Playback Audio Video Tools View Help

HRA is given by the employer to meet the housing needs of employee. It is partially taxable.

**Exemption Limit:**

- a. 50% of salary if the house is located in metropolitan cities and 40% of salary for other places.
- b. House rent allowance actually received by the employee
- c. excess of rent paid over 10% of salary

The least of the above is exempted

00:30 03:32

10:52 16-11-2022

**Dr. S.L.Kumari**

Correlation Analysis

Correlation deals with the association between two or more variables

- It attempts to determine the 'degree of relationship' between the variables
- Correlation is an analysis of the co variation between two or more variables

**Classification of correlation**

Positive or Negative correlation (direction of change)

Simple and multiple correlation (no. of variables)

Linear or non linear correlation (rate of change between the variables)

RECORDED WITH SCREENCAST-O-MATIC

16

**Dr. M. Meenachi**



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Principles of Marketing

## Introduction

- ⊗ Promotion is a type of communication between the buyer and the seller.
- ⊗ The seller tries to persuade the buyer to purchase their goods or services through promotions
- ⊗ It helps in making the people aware of a product, service or a company.
- ⊗ It also helps to improve the public image of a company
- ⊗ This method of marketing may also create interest in buyers and can also generate loyal customers

RECORDED WITH SCREENCAST MATIC 00:14

10:51 16-11-2022

**Ms. A. Rosary Infanta**

INDUSTRIAL RELATIONS - SEM-VI

00:30

## Meaning of trade unions

- A trade union is an association of workers formed with the object of improving the conditions of workers. It is formed for protecting the interests of workers.

00:28

10:50 16-11-2022

**Ms. R. Abinaya**

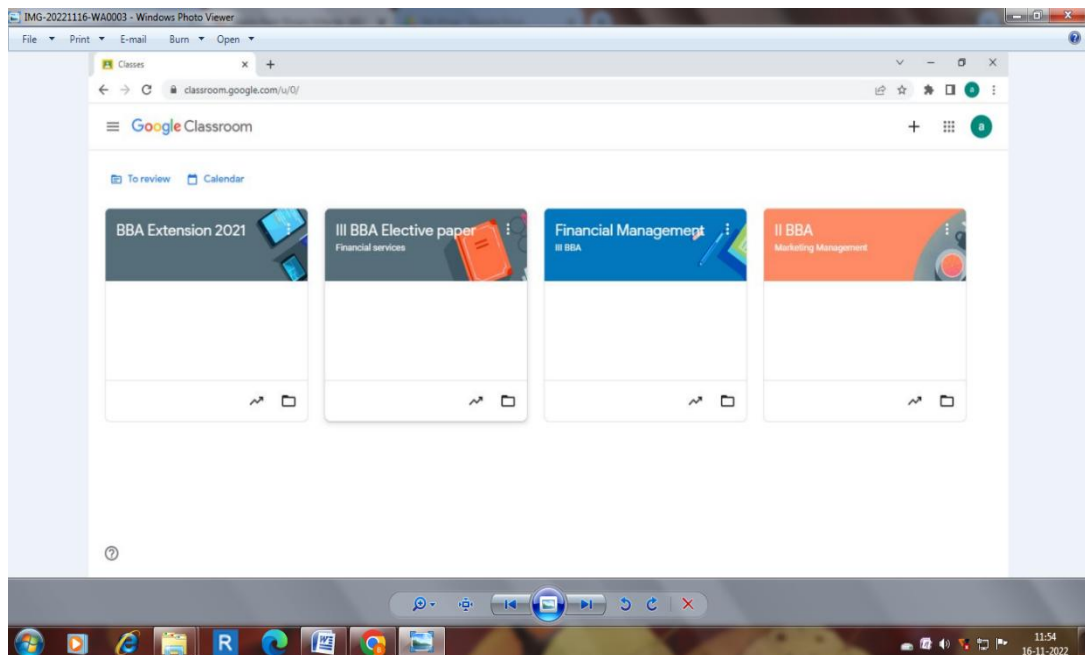
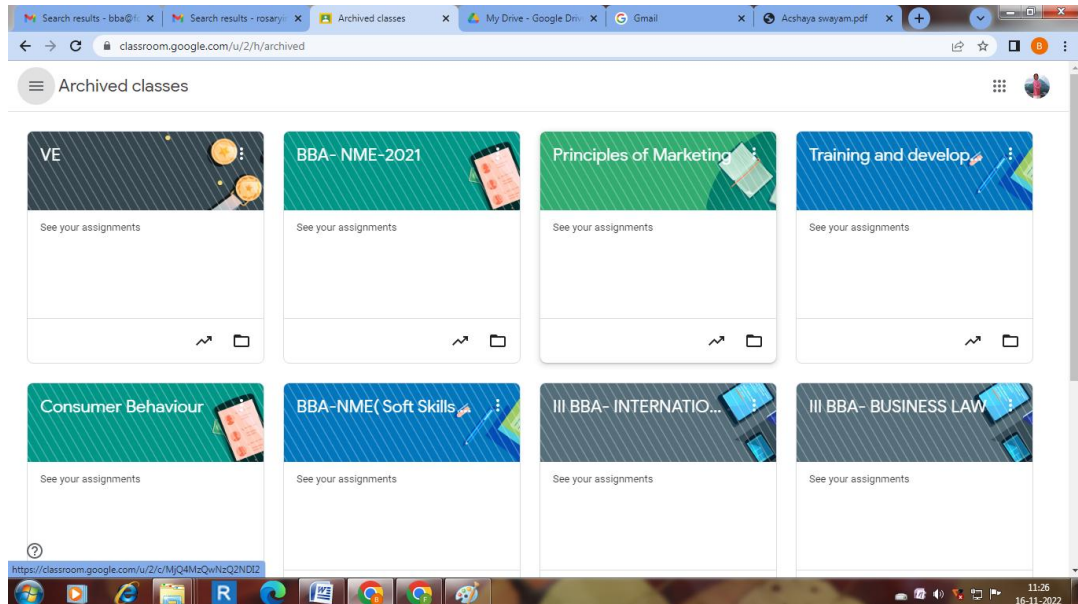


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## Screen Shots of Google Class Room







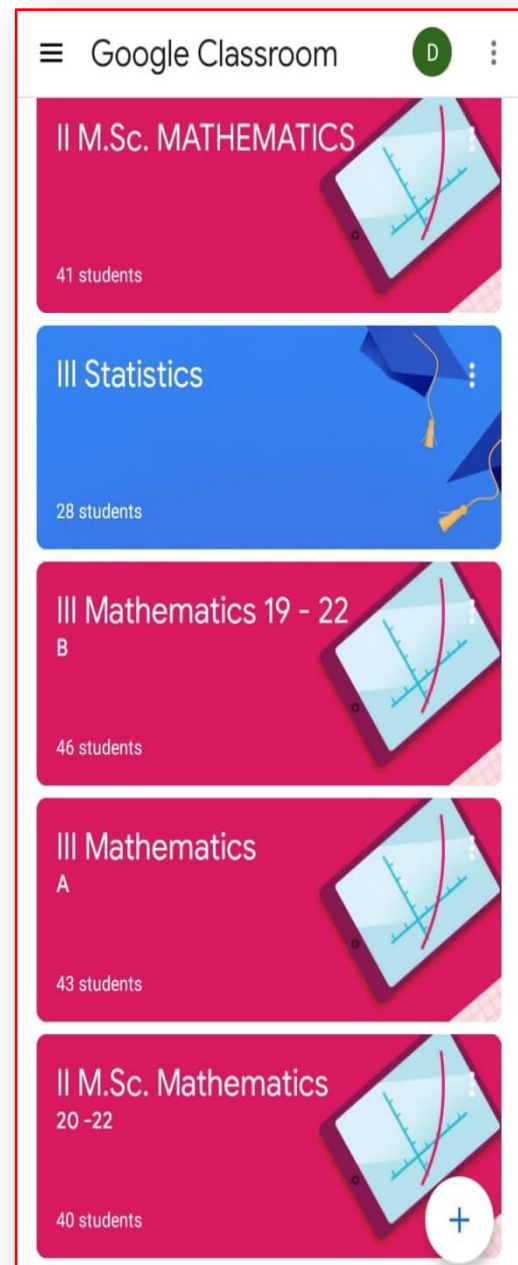
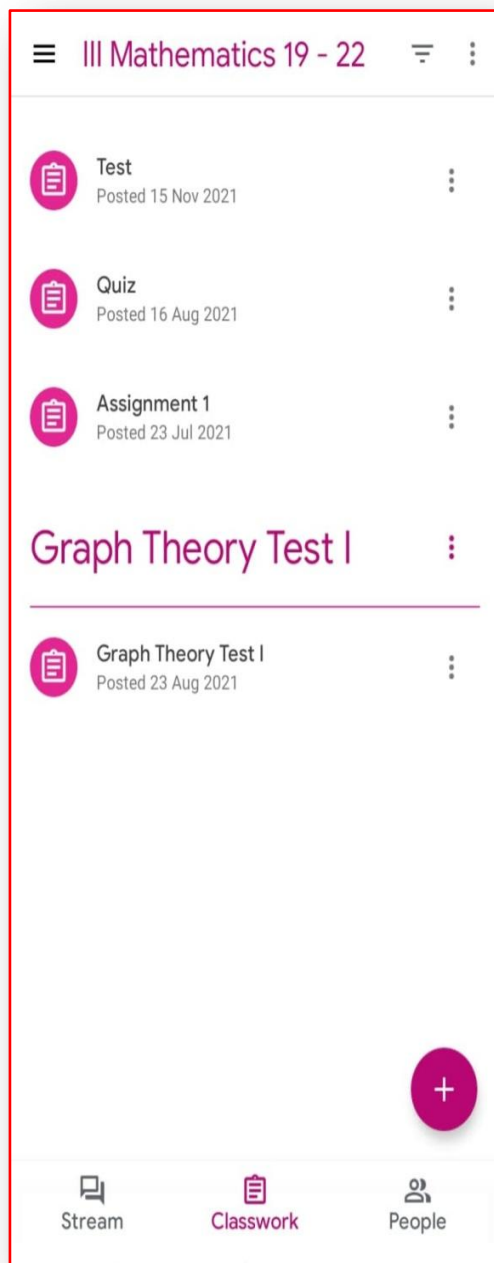
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## DEPARTMENT OF MATHEMATICS (SF)

### Google classrooms - Screenshots



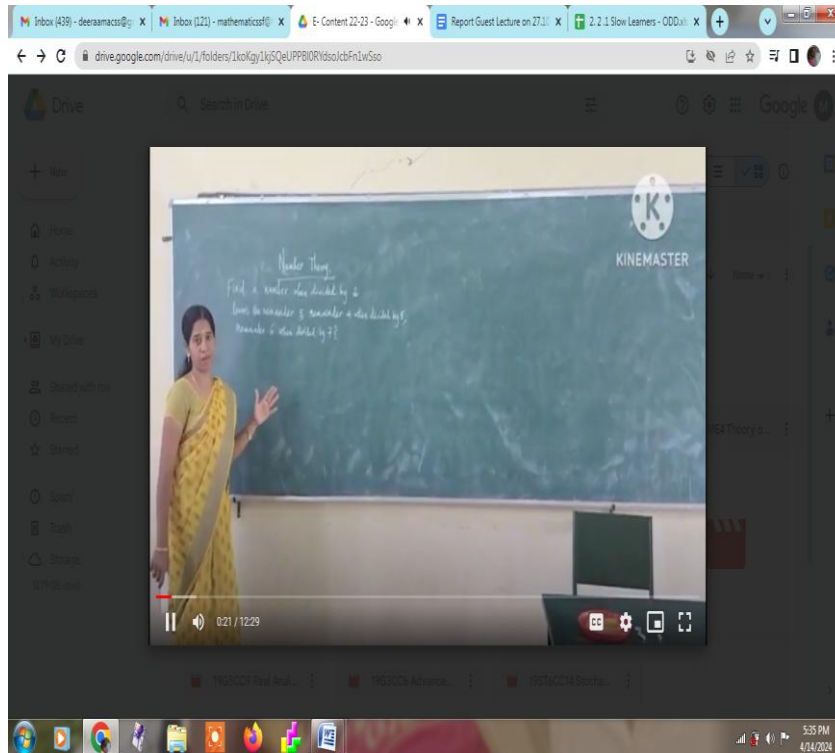


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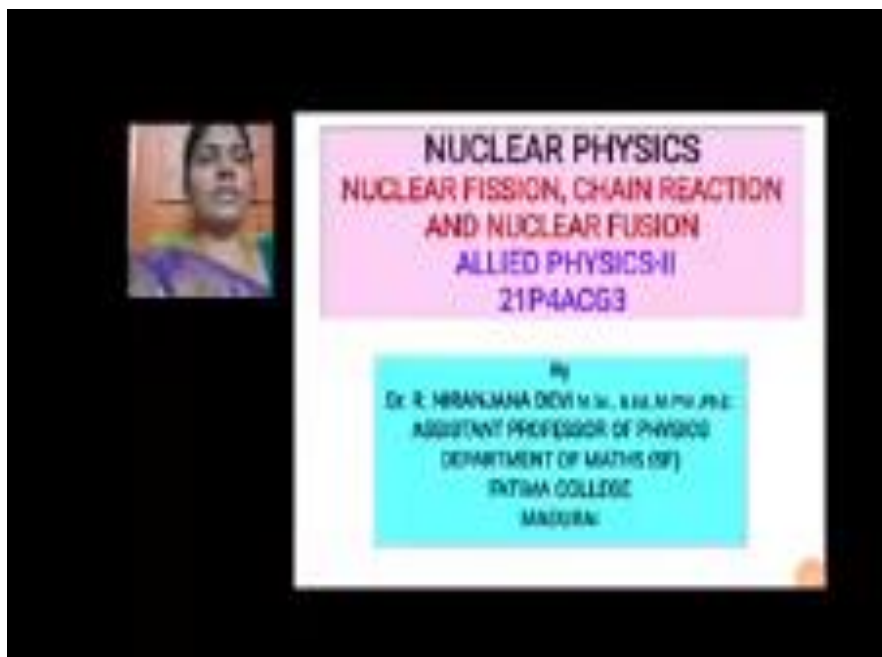
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## Videos uploaded on Google Classroom



**Ms. J. Annaal Mercy**



**Dr. R. Niranjana Devi**



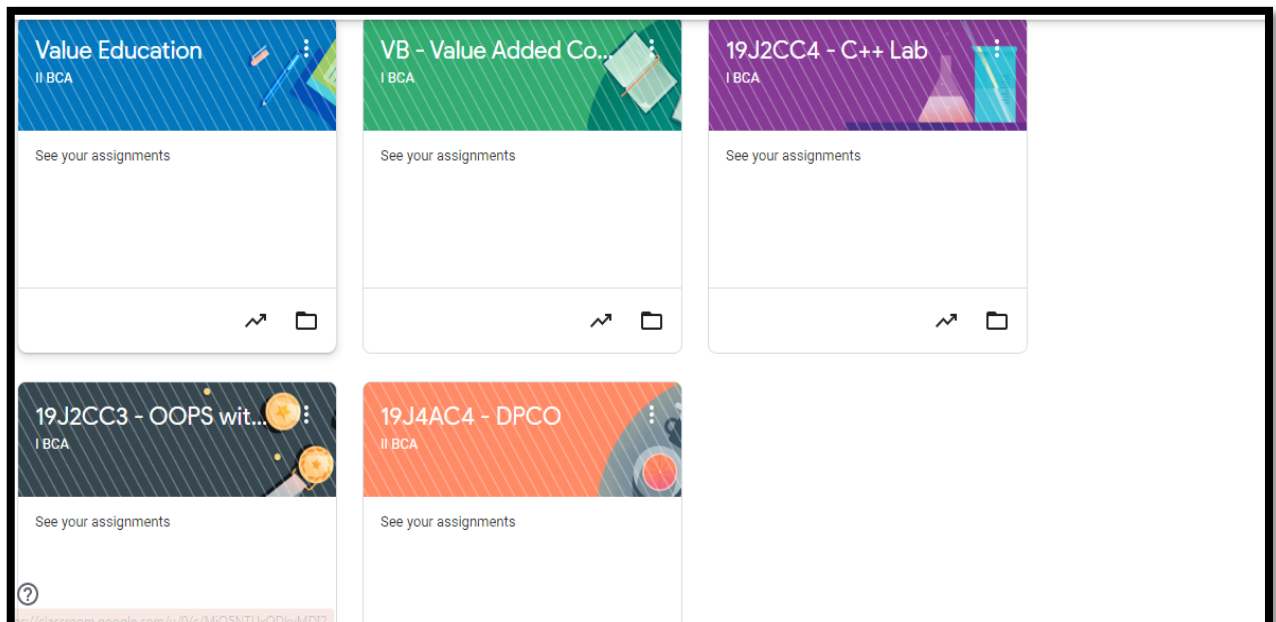
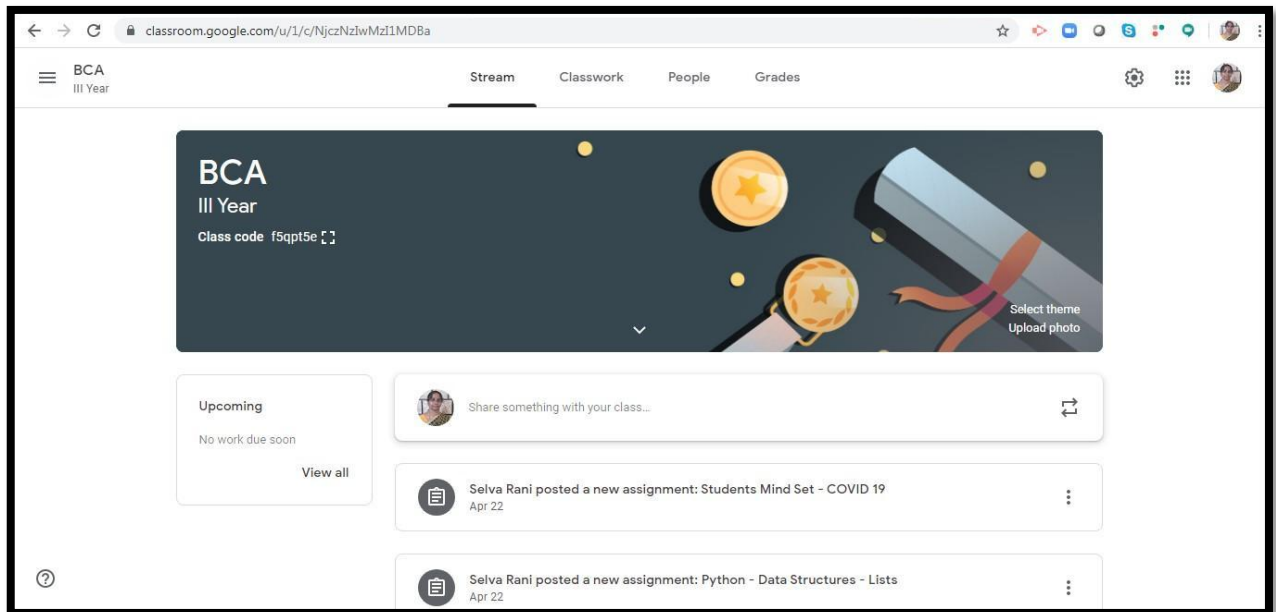
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## DEPARTMENT OF BCA

### GOOGLE CLASSROOMS

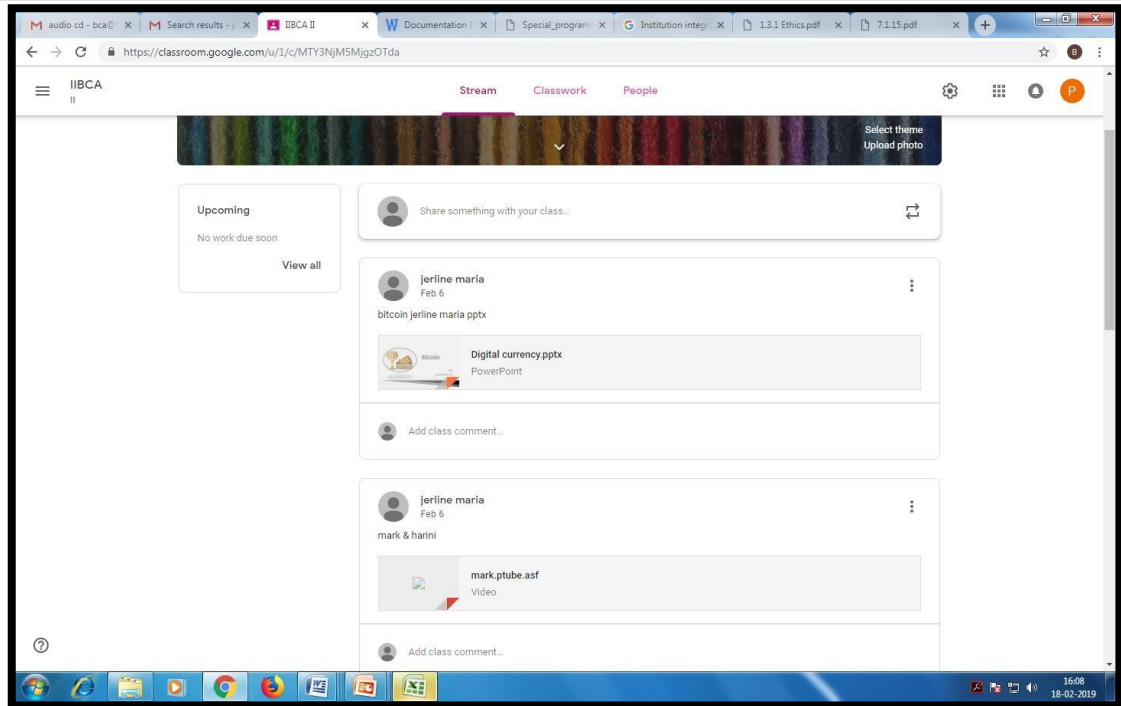




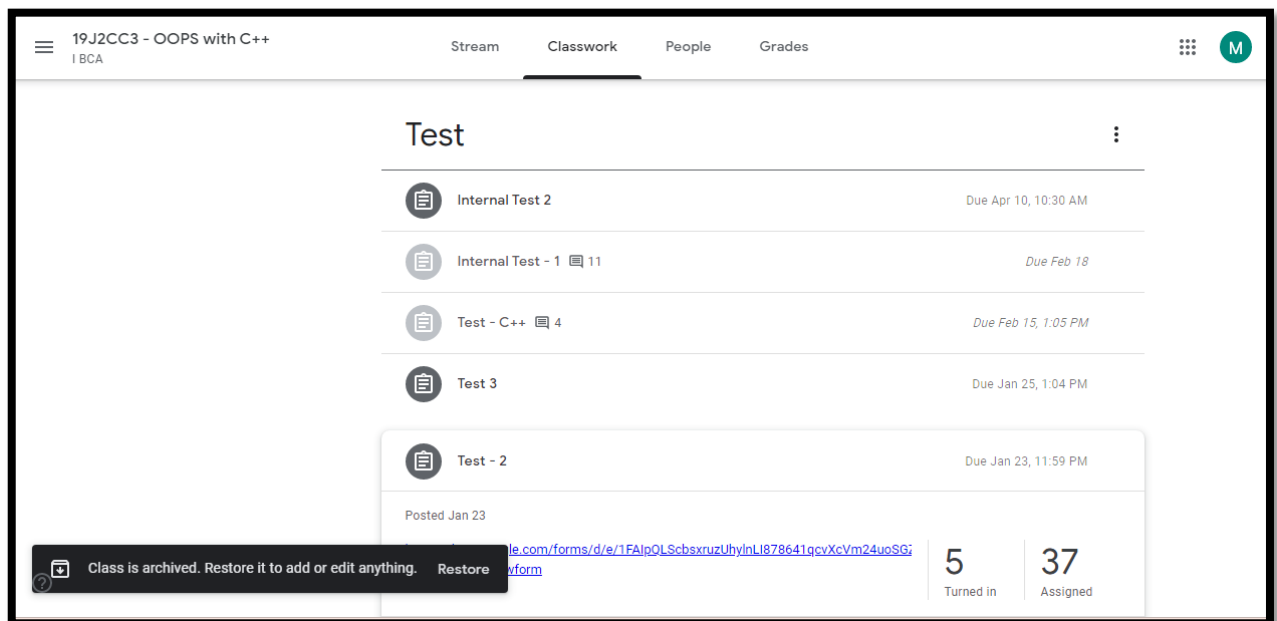
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## Assignments & Tests







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OS - Scheduling video

View Edit

Submitted by SELVARANIS on Sat, 05/09/2020 - 20:51

Thank you for trying out HSP. To get started with HSP read our [getting started guide](#).

The average waiting time is....

☐ 5.2 ms

☐ 5.4 ms

☐ 5.6 ms

Check

Can you tell the average waiting time?

P1 (3) P2 (2) P3 (4) P4 (1) P5 (5)

RECORDED WITH SCREENCAST-O-MATIC

CPU is doing the Process

CPU is Free

3:39 5:42

New to HSP? Read the [installation guide](#) to get HSP on your own site.

19J2CC4 - C++ Lab

Stream Classwork People Grades

All topics

Test

Programs on inheritance	Posted Mar 6
Exercises constructor	Posted Feb 8
Programs using Arrays in C++	Due Feb 7
Write a C++ program to do Library Manage...	Due Jan 22
Write a C++ program to calculate Student G...	Due Jan 22, 12:30 PM
Write a C++ program to calculate Employee ...	Due Jan 18, 1:00 PM
Do with classes and objects	Edited Jan 4
Course Content	Posted Jan 3



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19J4AC4 - DPCO  
II BCA

StreamClassworkPeopleGrades

Google CalendarClass Drive folder

All topicsAssignment 1Test

Do the attached sums and submitPosted Mar 26

Prepare a Truths table for the following bool...Posted Mar 11

Course ContentPosted Jan 3

Assignment 1

Written Assignment - Flip FlopsDue Apr 8

...Due Jan 18, 7:30 AM

Class is archived. Restore it to add or edit anything. Restore

19J4AC4 - DPCO  
II BCA

StreamClassworkPeopleGrades

Test

Internal Test 2Due Apr 12, 9:30 AM

Octal Number ExerciseDue Feb 26

Binary NumbersDue Feb 11, 10:10 AM

Internal Test - 1Due Feb 18

Written Test 4Due Feb 3, 11:59 PM

Test 3Due Jan 27

## E-Content Videos

Quick accessDesktopDownloadsDocumentsPictures

dictonaries

DoubleColumnCashbo  
okM1

Edmodo

Network Simulator NS2

Networks Introduction

TRIPLE COLUMN CASH  
BOOK



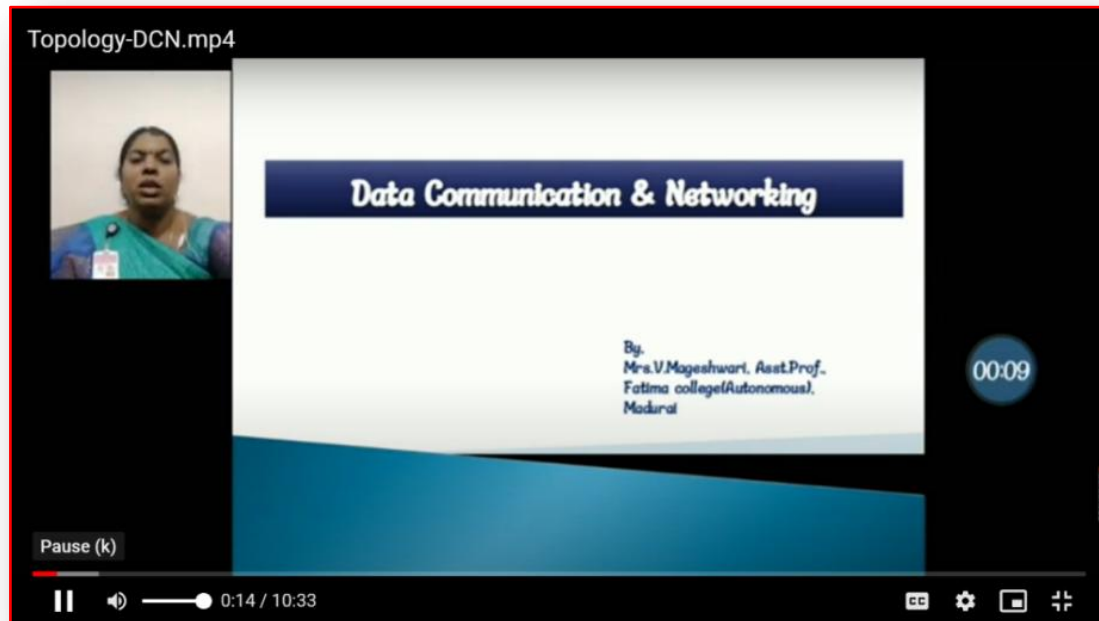
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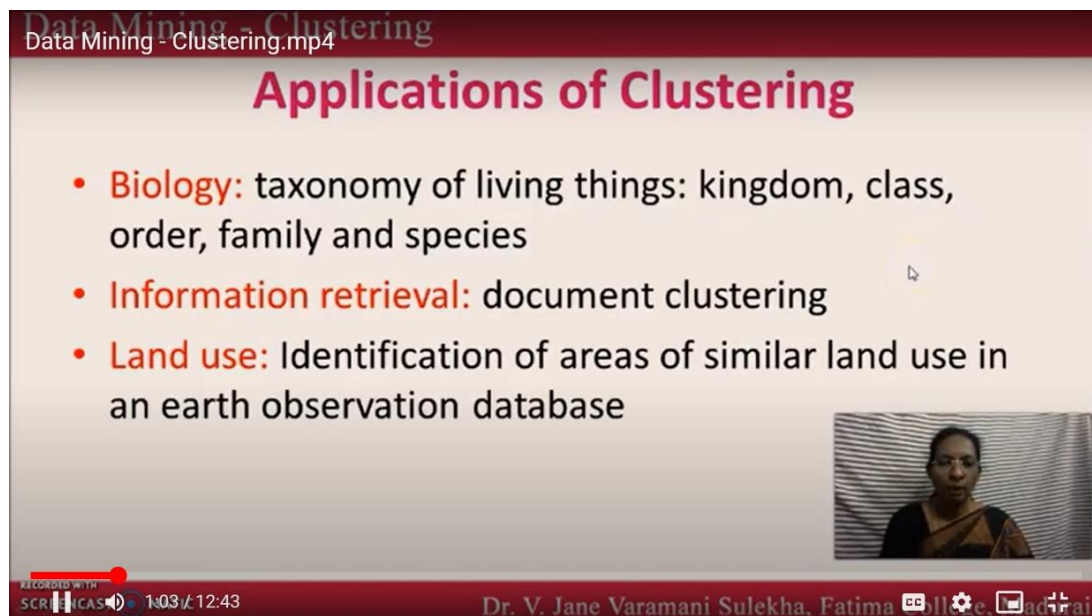
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## DEPARTMENT OF INFORMATION TECHNOLOGY

### Sample Screenshots: Screen Cast-O-Matic



**Mrs. V. Mageshwari**



**Dr. V. Jane Varamani Sulekha**

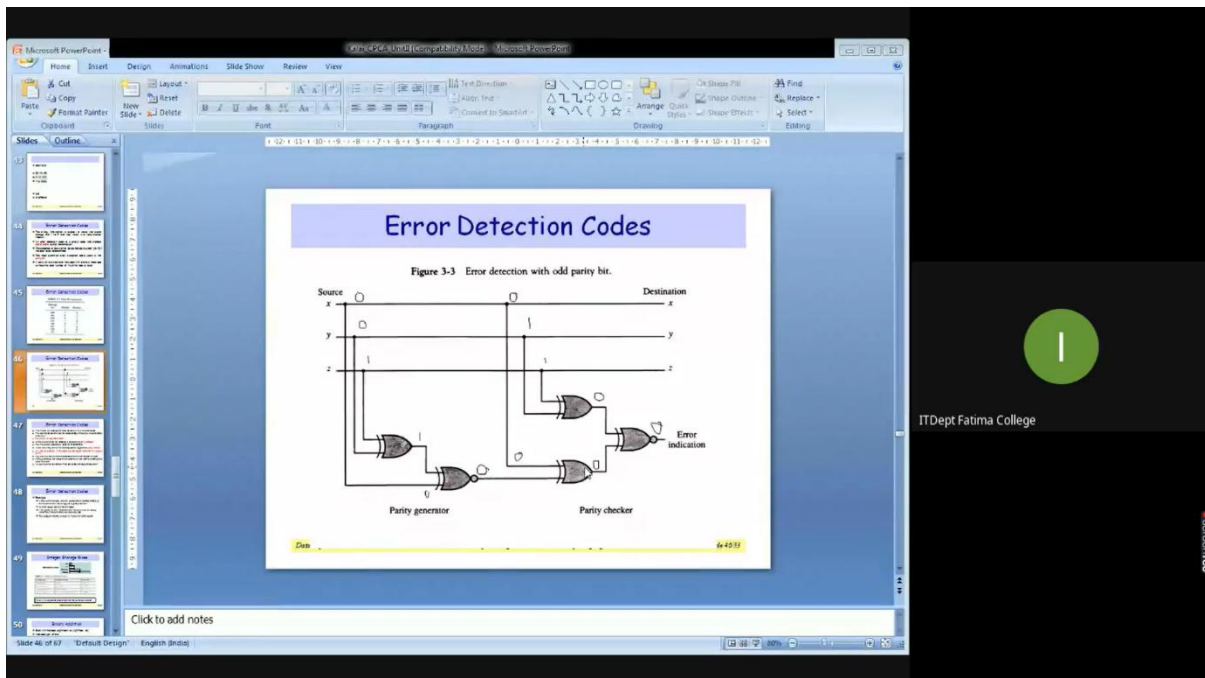
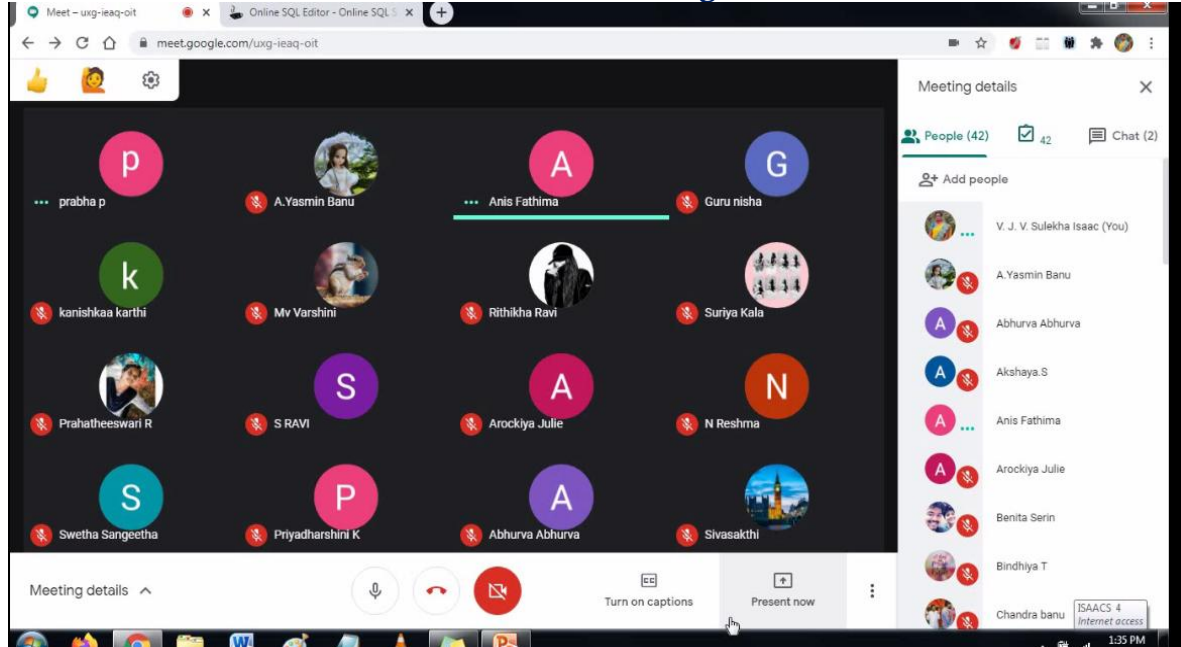


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## Classes on Google Meet







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## Google Classroom

DPCA II B.Sc IT

Return 100 points

Sort by status

Turned in

2020IT01 AARTHI M 100

2020IT02 AKANTHYA E 100

2020IT03 ASHA R 100

2020IT04 EBINESA R 100

2020IT05 FATHIMA NOOR NISHA G 100

2020IT06 GOKILA R 100

40 Turned in 2 Assigned

2020IT01 AARTHI M 2 attachments Turned in

2020IT02 AKANTHYA E 2 attachments Turned in

2020IT03 ASHA R 2 attachments Turned in

2020IT04 EBINESA R 2 attachments Turned in

2020IT05 FATHIMA NOOR NISHA G 2 attachments Turned in

2020IT06 GOKILA R 2 attachments Turned in

2020IT07 HARSHA B 2 attachments Turned in

2020IT08 HARSHINE B 2 attachments Turned in

2020IT09 JANANI MAHALAKSHMI A 2 attachments Turned in

2020IT10 JANNATHUL FIRTHOUS G 2 attachments Turned in

SD-2.3.2-ICT Tool...docx SD-2.3.2-ICT enab...pdf scratch.docx Removed Show all

PG I Years (2020-2022) Test

Return 50 points

Abaruna068 Abaruna068 50

Aruna Devi 50

bobby bobby 50

Darshna Balaguruvan 50

Dhana Ishwarya 50

Gayathri Murugan 50

Hema Latha 50 Done late

Irene Arthur 50

Keerthana T 50

19PGIT103 Turned in

DBMS.pdf Turned in

DBMS TEST\_17.11.20... Turned in

Adobe Scan 17-Nov-2... Turned in

19pgit02:2020mei02... Turned in

Gayathri Murugan 1605592296271\_Doc... Turned in

Hema Latha 1605593546516\_160... Turned in late

monthly 2 DSM.pdf Turned in

2020MSIT03\_19pgit0... Turned in

H Mubeen baru-2020... Turned in

Priya Priya

ratchana ratchu

siva meena

Vaishnavi Vaish

SD-2.3.2-ICT Tool...docx SD-2.3.2-ICT enab...pdf scratch.docx Removed Show all

## PowerPoint Presentation:

**WEB TECHNOLOGY**

**JAVA SCRIPT**

Mrs.T.Charanya Nagammal,  
Assistant Professor,  
Department of IT,  
Fatima College, Madurai.

1 Department of IT, Fatima College, Madurai



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## Online GDB C++ Editor:

The screenshot shows the Online GDB C++ Editor interface. The browser address bar displays [https://www.onlinegdb.com/online\\_c++\\_compiler](https://www.onlinegdb.com/online_c++_compiler). The interface includes a sidebar with navigation links: OnlineGDB beta, code, compile, run, debug, share, IDE, My Projects, Classroom (new), Learn Programming, Programming Questions, Sign Up, and Login. The main editor area shows a C++ program in `main.cpp` with the following code:

```
1 - /*****  
2  
3  
4  
5  
6  
7  
8  
9 #include <iostream>  
10  
11 using namespace std;  
12  
13 int main()  
14 {  
15     cout<<"Hello World";  
16  
17     return 0;  
18 }  
19
```

Below the code editor, there is an input field for the command line and a section for standard input with radio buttons for Interactive Console (selected) and Text. At the bottom, there are advertisements for SMB Collaboration tools and Shutterstock.

## Online R Compiler:

The screenshot shows the myCompiler.io interface. The browser address bar displays [mycompiler.io/new/](https://mycompiler.io/new/). The interface includes a sidebar with navigation links: myCompiler, Guides, Recent, Login, and Sign Up. The main editor area shows an R script in the editor with the following code:

```
1 x <- seq(-pi, pi, 0.1)  
2 plot(x, cos(x))
```

Below the code editor, there is a "Program input" field and a "Run" button. The output section displays a plot of  $\cos(x)$  versus  $x$ , showing a cosine wave. The x-axis ranges from -1.0 to 1.0, and the y-axis ranges from -1.0 to 1.0. At the bottom, there is an advertisement for Shutterstock.



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## Online SQL Editor:

The screenshot shows the Programiz Online SQL Editor interface. The input field contains a SQL query: `SELECT * FROM Customers;`. The output displays a table with 5 rows of customer data. The 'Available Tables' section on the right lists 'Customers', 'Orders', and 'Shippings' with their respective column structures.

customer_id	first_name	last_name	age	country
1	John	Doe	31	USA
2	Robert	Luna	22	USA
3	David	Robinson	22	UK
4	John	Reinhardt	25	UK
5	Betty	Doe	28	UAE

order_id	item	amount	customer_id
1	Keyboard	400	4
2	Mouse	300	4
3	Monitor	12000	3
4	Keyboard	400	1
5	Mousepad	250	2

shipping_id	status	customer
1	Pending	2

## JDoodle Online .net Editor:

The screenshot shows the JDoodle Online VB.Net Compiler IDE. The code editor contains a VB.NET program that calculates the sum of x and y. The 'Execute' button has been clicked, and the output shows the result: 'Sum of x and y = 35'. The interface also displays the compiler version (Visual Basic .Net Compiler version 0.0.0.5943) and the execution time (CPU Time: 0.02 sec(s), Memory: 16820 kilobyte(s)).

```
1 Imports System
2
3 Public Class Test
4     Public Shared Sub Main()
5         Dim x, y as Integer
6         x = 10
7         y = 25
8         System.Console.WriteLine("Sum of x and y = " & (x+y))
9     End Sub
10 End Class
```

Result

CPU Time: 0.02 sec(s), Memory: 16820 kilobyte(s)

Visual Basic .Net Compiler version 0.0.0.5943 (Mono 4.8 - makepkg/e31cb782)  
Copyright (C) 2004-2010 Rolf Bjarne Krvinge. All rights reserved.

Assembly 'jdoodle, Version=0.0, Culture=neutral, PublicKeyToken=null' saved successfully to '/home/jdoodle.exe'.

Compilation successful  
Compilation took 00:00:00.9757770  
Sum of x and y = 35



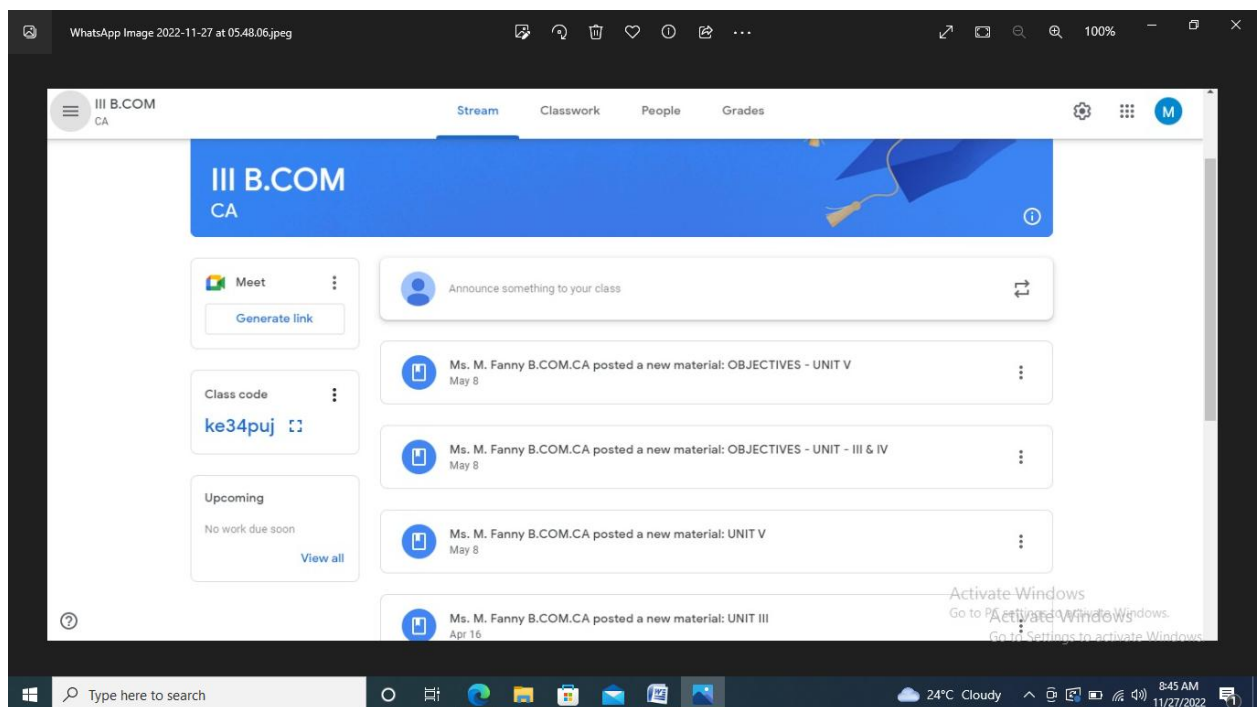
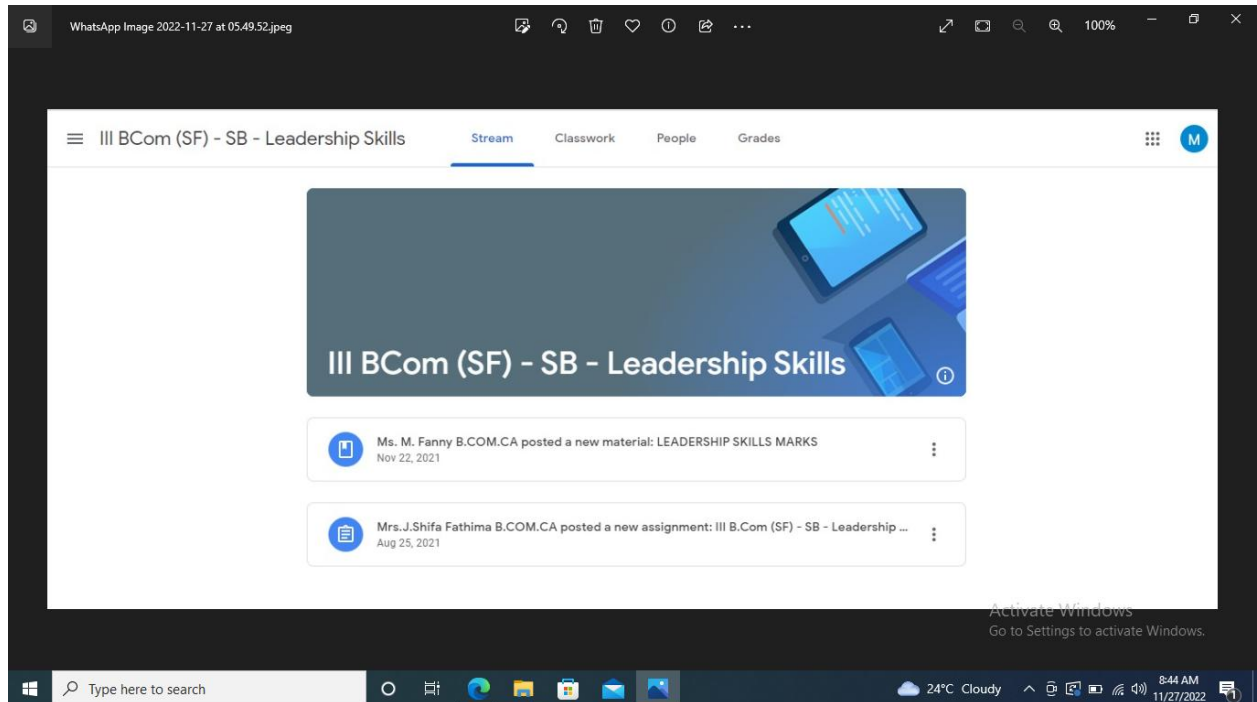
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## DEPARTMENT OF COMMERCE (SF)

### Google Classrooms:







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III B.COM  
S.F.

Stream Classwork People Grades

+ Create

Google Calendar Class Drive folder

Material	Posted
Page 4 & 5	Posted Mar 28
Objectives of GST	Posted Mar 22
SYLLABUS	Posted Mar 21

Activate Windows  
Go to PC settings to activate Windows.

classroom.google.com/u/7/c/MzUzNDYzOTMxOTk3

III BCom (SF) - SB - Leadership Skills

Stream Classwork People Grades

III BCom (SF) - SB - Leadership Skills

Post	Date
Ms. M. Fanny B.COM.CA posted a new material: LEADERSHIP SKILLS MARKS	Nov 22, 2021
Mrs.J.Shifa Fathima B.COM.CA posted a new assignment: III B.Com (SF) - SB - Leadership ...	Aug 25, 2021

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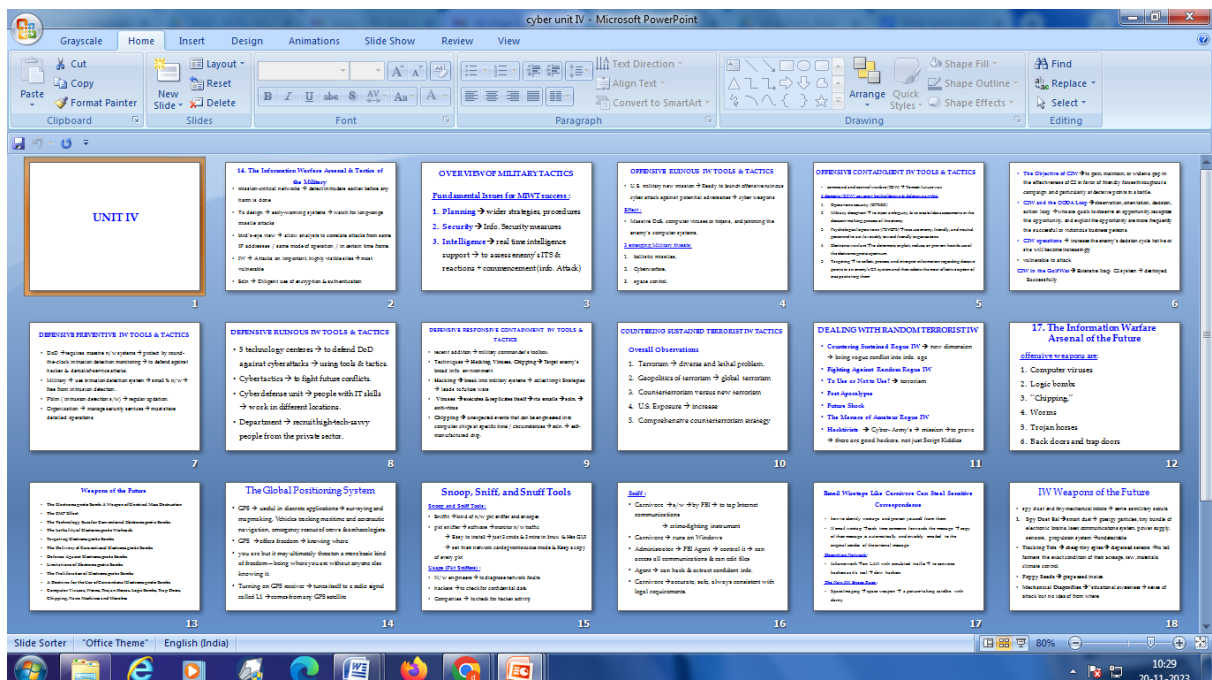
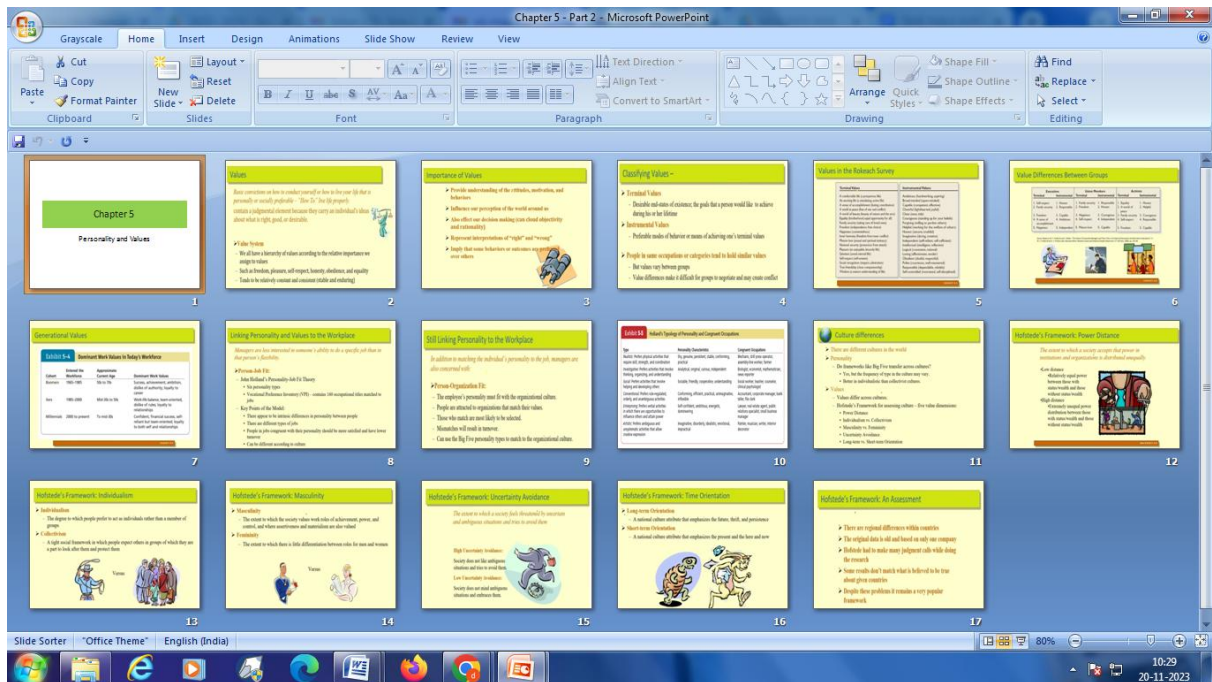
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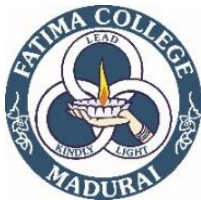
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**DEPARTMENT OF MCA**

## Photos/Screenshots of ICT

## Power Point Presentations





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Chapter 9 - Classes and Objects (I) - Microsoft PowerPoint

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Find Replace Select

Chapter 9  
Classes and Objects

Introduction

- In OOP → data & functions → combined to form a class
- Python use class & simple way → define & use classes
- Classes and Objects → 2 main aspects of OOP
- Class → basic building block  
→ provides a blueprint / template → objects are created.

Defining Classes

Syntax:

```
class class_name:  
    class_variable  
    class_method
```

- Variables defined inside class → class variables
- Functions defined inside class → class methods
- Class Variable & Class Methods → class members → accessed through objects

Creating Objects

Syntax:

```
Object_name = Class_Name()
```

- Creating an object / instance of a class → class instantiation
- To access a class member, use Object\_name.Class\_Member\_Name

Data Abstraction & Hiding

- to avoid to expose data & methods → Private data access by other function
- Access Levels → access rights
- 1. Lowest level → access is public → accessed by function in any class
- 2. Highest Level → access is private → accessed only by the class in which it is defined
- Private variable → prefixed with `__`  
Eg: `__var`

Class Method & self argument

- Class methods → same as ordinary functions but it have the 1st argument as self
- No need to pass value to self → refers to object

`__init__()` → class constructor

- `__init__()` → executed automatically when an object is created
- initialize the vars of the class object

Syntax:

```
def __init__(self, args):
```

Class variables

- Class Vars → owned by class
- If a class has 1 class var → 1 copy of that var
- Objects(class) → share the class var
- Obj made to class var → reflected in other objects

Object variables

- Object vars → owned by objects
- If a class has n objects → n separate copies of the object var
- Obj made to class var → not shared b/w objects
- Obj made to obj var by 1 obj → not be reflected in other object

The `__del__()` method

- `__del__()` → automatically called when an object goes out of scope

Other Special methods

- `__repr__()` → string representation (object)
- `__copy__()` / `__deepcopy__()` → to compare 2 class objects
- `__len__()` → returns length of an object
- `__call__()` → class can like a function
- `__iter__()` → iteration over objects. Eg for loop
- `__getitem__()` → used for indexing
- `__setitem__()` → to assign an item to indexed values

Public & Private Data Members

- Public Vars → accessed from anywhere using dot operator
- Private Vars → accessed within class & not from outside the class

Classification - Microsoft PowerPoint

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Find Replace Select

Classification Outline

Goal: Provide an overview of the classification problem and introduce some of the basic algorithms

- Classification Problem Overview
- Regression
- Similarity Measures
- Bayesian Classification
- Decision Trees
- Rules
- Neural Networks

Classification Problem

- Given a database D={t<sub>1</sub>, t<sub>2</sub>, ..., t<sub>j</sub>} and 2 set of classes C={C<sub>1</sub>, ..., C<sub>k</sub>}, the Classification Problem is to define a mapping f: D → C where each t<sub>j</sub> is assigned to one class
- Actually divides D into equivalence classes
- Prediction is similar, but may be view as having infinite number of classes

Classification Examples

- Teachers classify students' grades as A, B, C, D, or F
- Identify mushrooms as poisonous or not
- Predict when a river will flood
- Identify individuals with credit risks
- Speech recognition
- Pattern recognition

Classification Ex: Grading

- If x < 50 then grade = F
- If 50 <= x < 60 then grade = D
- If 60 <= x < 70 then grade = C
- If 70 <= x < 80 then grade = B
- If 80 <= x < 90 then grade = A
- If x >= 90 then grade = A+

Classification Ex: Letter Recognition

View letters as constructed from 5 components

Letter	Component 1	Component 2	Component 3	Component 4	Component 5
A	Letter A	Letter B			
B		Letter B	Letter C		
C	Letter C		Letter D		
D			Letter D	Letter E	
E	Letter E			Letter F	

Classification Techniques

- Approach
- 1. Create specific model by evaluating training data (or using domain experts' knowledge)
- 2. Apply model developed to new data
- Classes must be predefined
- Most common techniques use DTs, NNs, or are based on distances or statistical methods

THREE BASIC METHODS USED TO SOLVE THE CLASSIFICATION PROBLEM:

- Identifying boundaries: Dividing input into regions → one class
- Using Probability distributions → For any given class C<sub>j</sub>, P(x|C<sub>j</sub>)
- Using posterior probabilities

Defining Classes

Distance Based

Issues in Classification

- Missing Data
- ignore
- Replace with assumed value
- Measuring Performance
- Classification accuracy on test data
- Confusion matrix
- ROC Curve

Height Example Data

Name	Gender	Height	Output1	Output2
Kristina	F	1.6m	Short	Medium
Jim	M	2m	Tall	Medium
Margie	F	1.6m	Medium	Tall
Stephenie	F	1.7m	Short	Medium
Bob	M	1.5m	Medium	Medium
Kathy	F	1.6m	Short	Medium
Clark	M	1.7m	Short	Medium
Wendy	M	2.2m	Tall	Tall
Steven	M	2.1m	Tall	Tall
Debbie	F	1.6m	Medium	Medium
Todd	M	1.5m	Medium	Medium
Kim	F	1.6m	Medium	Tall
Andy	F	1.5m	Medium	Medium
Wynette	F	1.75m	Medium	Medium

Classification Performance

True Positive, False Negative, False Positive, True Negative

Confusion Matrix Example

Using height data example with Output1 correct and Output2 actual assignment

Actual \ Assignment	Short	Medium	Tall
Short	0	4	0
Medium	0	5	0
Tall	0	1	2





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clustering-unit-IV - Microsoft PowerPoint

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Clustering Outlines

- Cluster: Grouping of objects that share common attributes.
- Clustering Problem: Given a set of objects, group them into clusters such that objects in the same cluster are similar to each other and dissimilar to objects in other clusters.
- Clustering Parameters: Distance, Similarity, Linkage, Number of clusters, etc.

Clustering Examples

- Clustering of customer information based on various features.
- Clustering of documents based on their content.
- Clustering of images based on their visual features.

Clustering Houses

Clustering vs. Classification

- Clustering: An unsupervised learning technique where the algorithm does not know the class labels in advance.
- Classification: A supervised learning technique where the algorithm is trained on labeled data to predict the class of new data points.

Clustering Issues

- Cluster handling: Dealing with outliers, noise, and overlapping clusters.
- Interpretability: Making the results of clustering understandable.
- Scalability: Handling large datasets efficiently.

Impact of Outliers on Clustering

Clustering Problem

Types of Clustering

- Partitioning: Dividing the dataset into a fixed number of clusters.
- Centroid-based: Clusters are defined by their centroids.
- Distance-based: Clusters are defined by a distance threshold.
- Model-based: Clusters are defined by a statistical model.
- Density-based: Clusters are defined by regions of high density.
- Outlier-based: Clusters are defined by excluding outliers.
- Probabilistic: Clusters are defined by probabilistic models.

Clustering Approaches

Cluster Parameters

Distance Between Clusters

Hierarchical Clustering

Hierarchical Algorithms

Dendrogram

Levels of Clustering

Agglomerative Example

MST Example

Agglomerative Algorithms

Single Link

MST Single Link Algorithm

Single Link Clustering

Partitional Clustering

Partitional Algorithms

MST Algorithm

Squared Error

Squared Error Algorithm

K-Means

K-Means Example

K-Means Algorithm

Nearest Neighbor

Nearest Neighbor Algorithm

PAM

PAM Algorithm

BEA

BEA Algorithm

Gaussian Algorithm Example

GA Algorithm

Slide Sorter Blue Diagonal

Wednesday, November 22, 2023 9:53 AM 11/22/2023

EAD-UNIT I-CLIENT SERVER ARCHITECTURE - Microsoft PowerPoint

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Clipboard Paste Cut Copy Format Painter New Slide Delete Layout Slides Font Paragraph Text Direction Drawing Shape Fill Shape Outline Shape Effects Find Replace Select Editing

EAD UNIT - I  
CLIENT SERVER ARCHITECTURE

Structure of a Client Server System

- Client: A computer or device that requests services from a server.
- Server: A computer or device that provides services to clients.
- Network: A system of interconnected computers and devices.

Two - Tier Model

- The two tier architecture consists of two parts, a client tier and a server tier.
- The client tier sends a request to the server tier and the server tier responds with the desired information.

Illustration of the Two-Tier

Three - Tier Model

- The three tier architecture has three layers: client, application and data layers.
- The client layer is the user that requests the information. In this case it could be the GUI, web browser, etc.
- The application layer acts as an interface between the client and data layers. It helps in communication and data processing.
- The data layer is the user that actually contains the required data.

Illustration of the three-tier

Advantages of Three - Tier Client Server Structure

- Some of the advantages of the three tier client server structure are -
- The structure is quite easy to maintain and modify.
- The communication between the client and server is in the form of request response messages in plain text.
- Disadvantages of Three - Tier Client Server Structure
- It is a major disadvantage of the three tier client server structure -
- If the client nodes are increased beyond capacity in the structure, then the server is not able to handle the request overhead and performance of the system degrades.

N-Tier Model

- The N-tier model is a stack of layers or tiers used for client-server architecture.
- The N-tier model is a stack of layers or tiers used for client-server architecture.
- The N-tier model is a stack of layers or tiers used for client-server architecture.

Illustration of the N-Tier Model

Advantages of N-Tier Client Server Structure

- Some of the advantages of the N-tier client server structure are -
- The structure is quite easy to maintain and modify.
- The communication between the client and server is in the form of request response messages in plain text.
- Disadvantages of N-Tier Client Server Structure
- It is a major disadvantage of the N-tier client server structure -
- If the client nodes are increased beyond capacity in the structure, then the server is not able to handle the request overhead and performance of the system degrades.

Slide Sorter Jon Boardroom

2:11 PM 11/22/2023



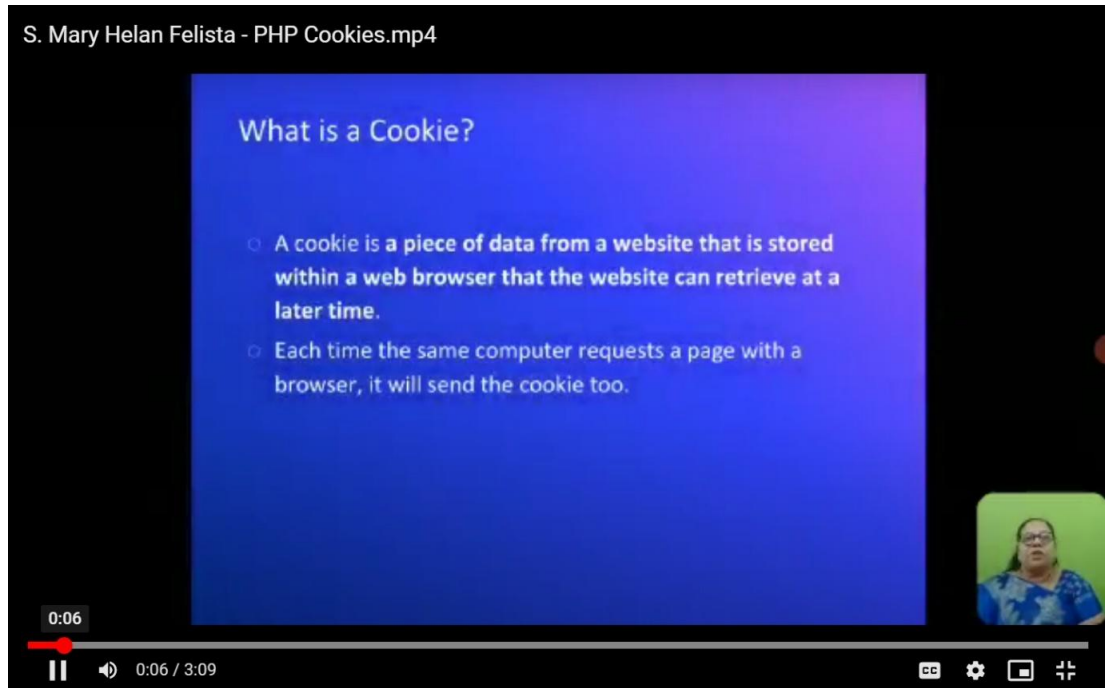


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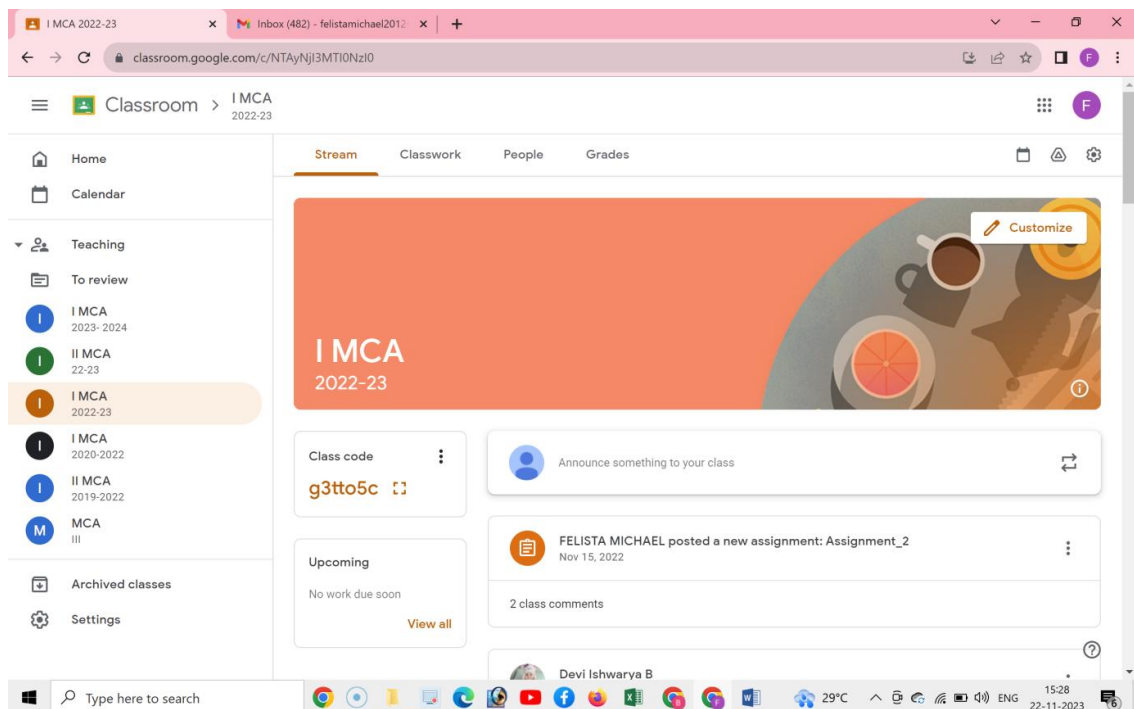
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## E-Content



## Google Classroom





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## Google Classrooms

People in II MCA 22-23 | Big Data Analytics - Assignment | Inbox (482) - felistamichael2012 | +

classroom.google.com/r/NTayNji2ODk2ODk1/sort-last-name

Classroom > II MCA 22-23

Home | Calendar | Teaching | To review | I MCA 2023-2024 | **II MCA 22-23** | I MCA 2022-23 | I MCA 2020-2022 | II MCA 2019-2022 | MCA III | Archived classes | Settings

Stream | Classwork | **People** | Grades

Stream	Classwork	People	Grades
<input type="checkbox"/>		MARIA GRAYCITA	
<input type="checkbox"/>		Farija J	
<input type="checkbox"/>		Sujitha Jeganathan	
<input type="checkbox"/>		Yamini Krichan	
<input type="checkbox"/>		Shalini Murugan	
<input type="checkbox"/>		Vinodhini R	
<input type="checkbox"/>		Ishwarya S	
<input type="checkbox"/>		Subhaa Seenivasan	
<input type="checkbox"/>		Pooja T	
<input type="checkbox"/>		Vaishnavi Vaish	

Type here to search | 29°C | 15:29 22-11-2023

Inbox (222) - selvarani.mca@fcm | Data Mining 2022 November | Submit - Seminar Videos | +

classroom.google.com/c/NTgxNji1NjEwMjk0

Classroom > Data Mining 2022 November

Home | Calendar | Teaching | To review | Computer Organization Bridge Course | 2023 MCA - OPERATING SYS... I MCA - 20MCA103 | **Data Mining 2022 November** | MCA-Operating System | Archived classes | Settings

Stream | Classwork | People | Grades

**Data Mining 2022 November**

Meet | Generate link

Class code: **ur4hft4**

Announce something to your class

SELVARANI MCA posted a new assignment: Question 2 Apr 13

SELVARANI MCA posted a new assignment: Questions - 1 Apr 12 (Edited Apr 12)

Type here to search | 29°C | 15:10 22-11-2023



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The screenshot shows the Google Classroom interface for the 'MCA-Operating System' class. The sidebar on the left includes navigation options: Home, Calendar, Teaching, To review, Computer Organization Bridge Course, 2023 MCA - OPERATING SYS... (MCA - 20MCA103), Data Mining 2022 November, MCA-Operating System, Archived classes, and Settings. The main area displays the class title 'MCA-Operating System' with a 'Customize' button. Below the title, there is a 'Meet' button with a 'Generate link' option, a class code 'qqwheni', and a recent assignment post by 'SELVARANI MCA' titled 'Weekly' dated Nov 16, 2022. The bottom of the interface shows a Windows taskbar with various application icons and system information.

## Assignment posted by a Student

The screenshot shows the Google Classroom interface for a student assignment submission. The top bar indicates the submission is for the 'MCA-Operating System' class. The main area displays the submission details for a video titled 'Sankara Gomath ... MCA42 - OS.mp4'. The video content shows a title slide for 'Operating System' by 'Sankara Gomathi . M 2022MCA42'. The right sidebar shows the submission details, including the file name, grade, and a private comments section. The bottom of the interface shows a Windows taskbar with various application icons and system information.

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