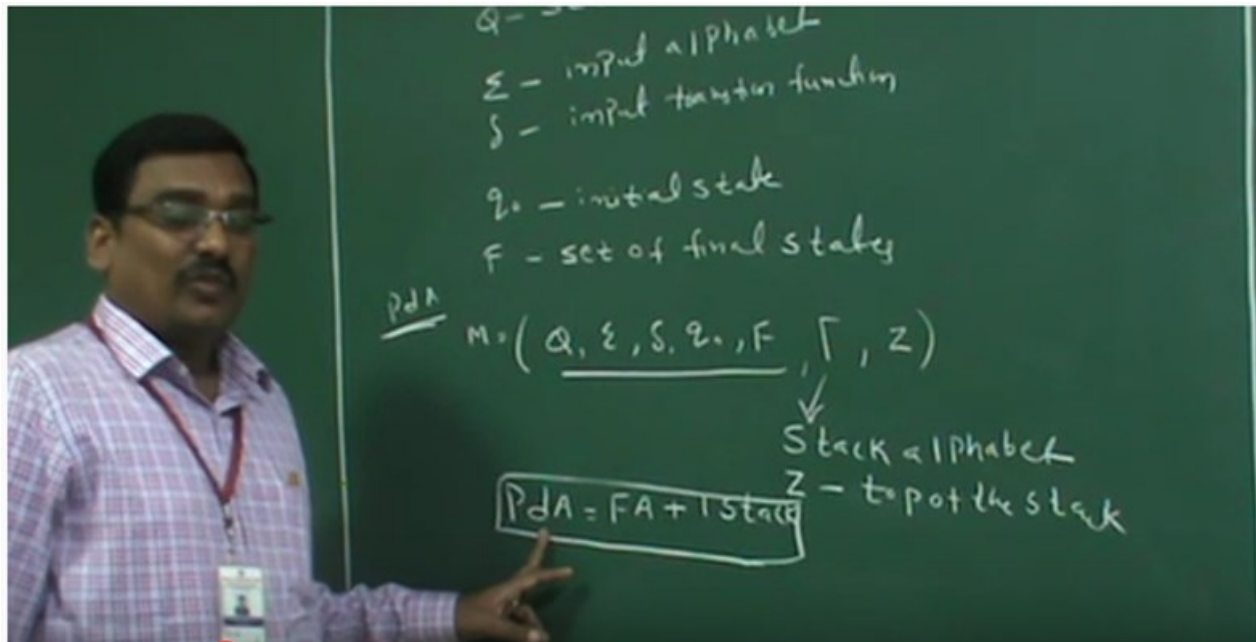


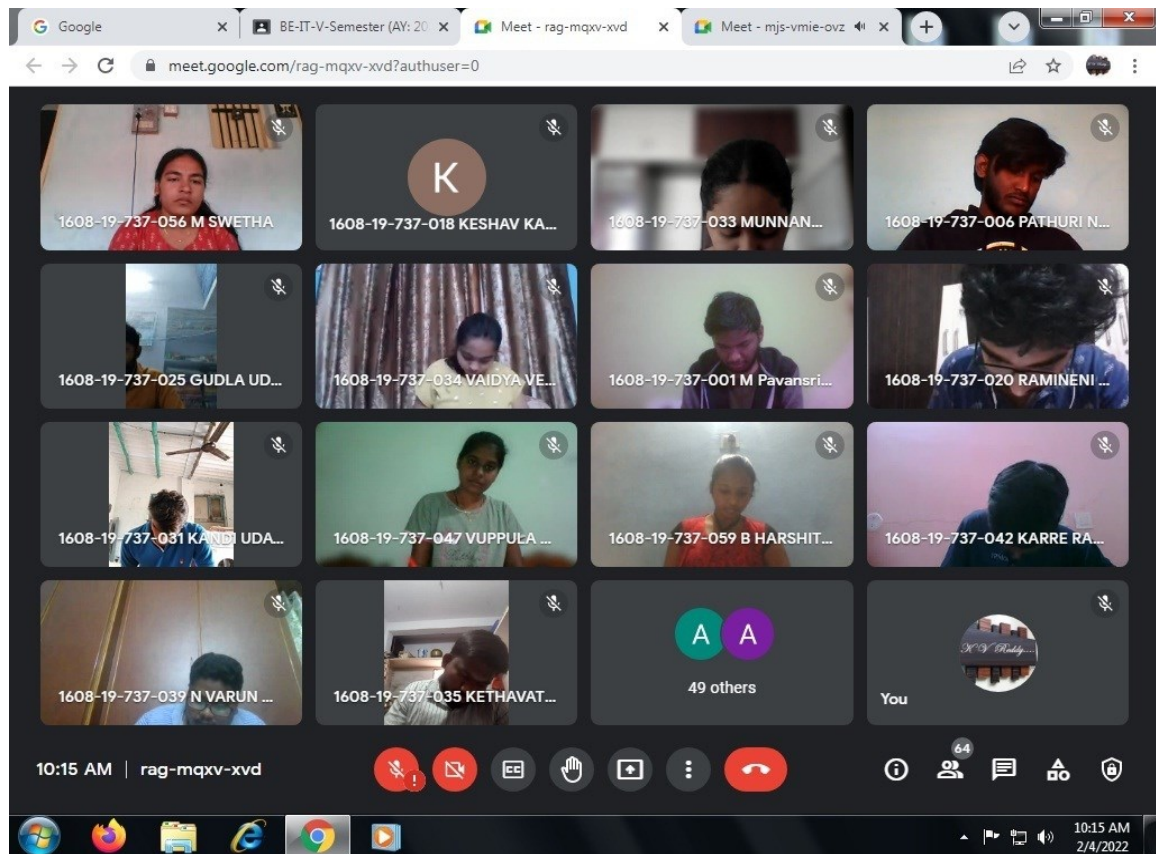
**Department of Information Technology**  
**ICT Based Learning for the Academic Year: 2021-22**

S.no	Name of Faculty	Name of subject /Event	ICT Tool used
1	Dr.G.Shyama Chandra Prasad	Data Structures	Google Meet/ PPTS, Google Classrooms,, e-Material .Info gram, slide share , White Board and marker.
2	Mr.K.Vikram Reddy	Web Application Development,ITWorkshop	Google Meet/ PPTS, Google Classrooms,, e-Material, Info gram, slide share , White Board and marker.
3	Mrs.T.Aruna Jyothi	Opearating Systems	Google Meet/ PPTS, Google Classrooms,, e-Material , Info gram, slide share , White Board and marker.
4	Mrs.R.Kiruthiga	Computer Networks	Google Meet/ PPTS, Google Classrooms,, e-Material , Info gram, slide share , White Board and marker.
5	Mrs.K.Niraja	Data Structures	Google Meet/ PPTS, Google Classrooms,, e-Material .Info gram, slide share , White Board and marker.

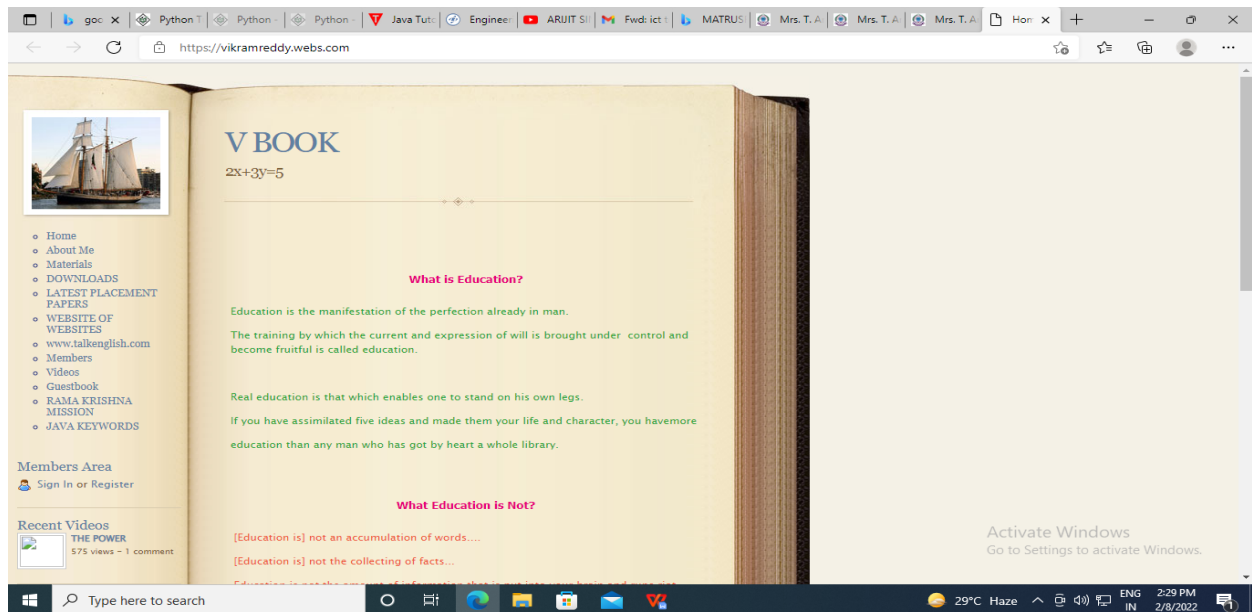
**HOD-IT**

Dr. G. Shyama Chandra Prasad explaining about "push down automata" in Automata Theory for BE V sem Students.

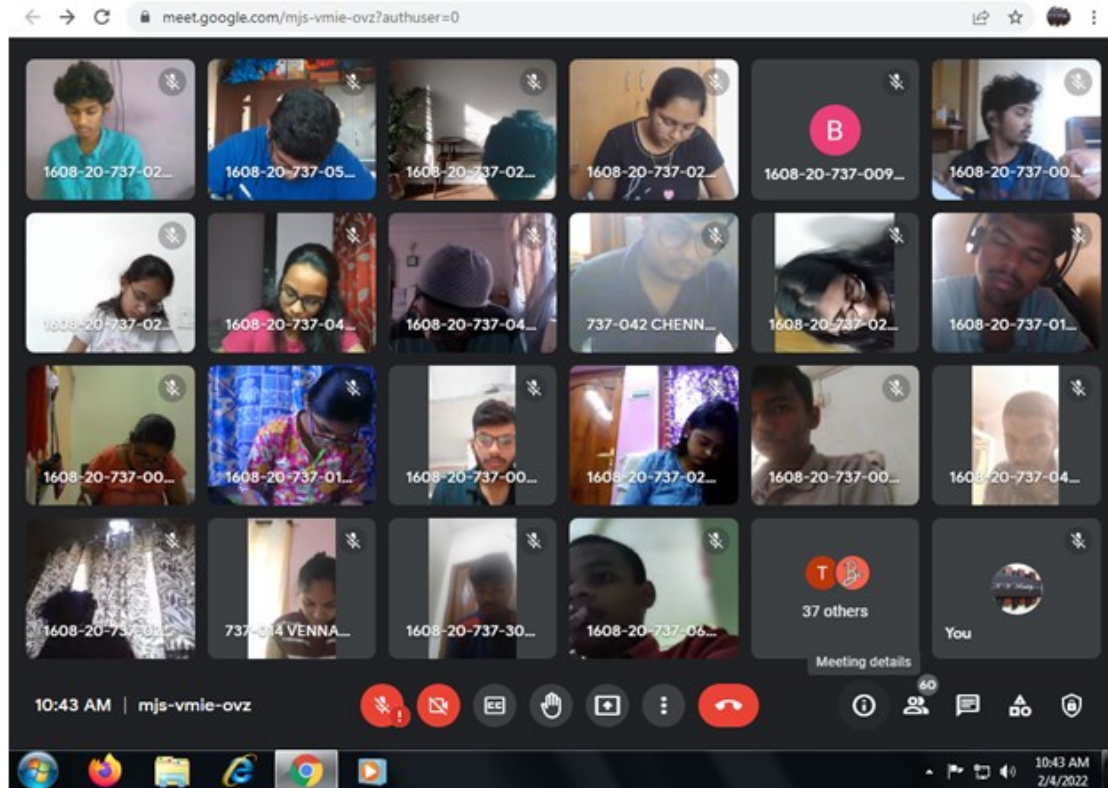




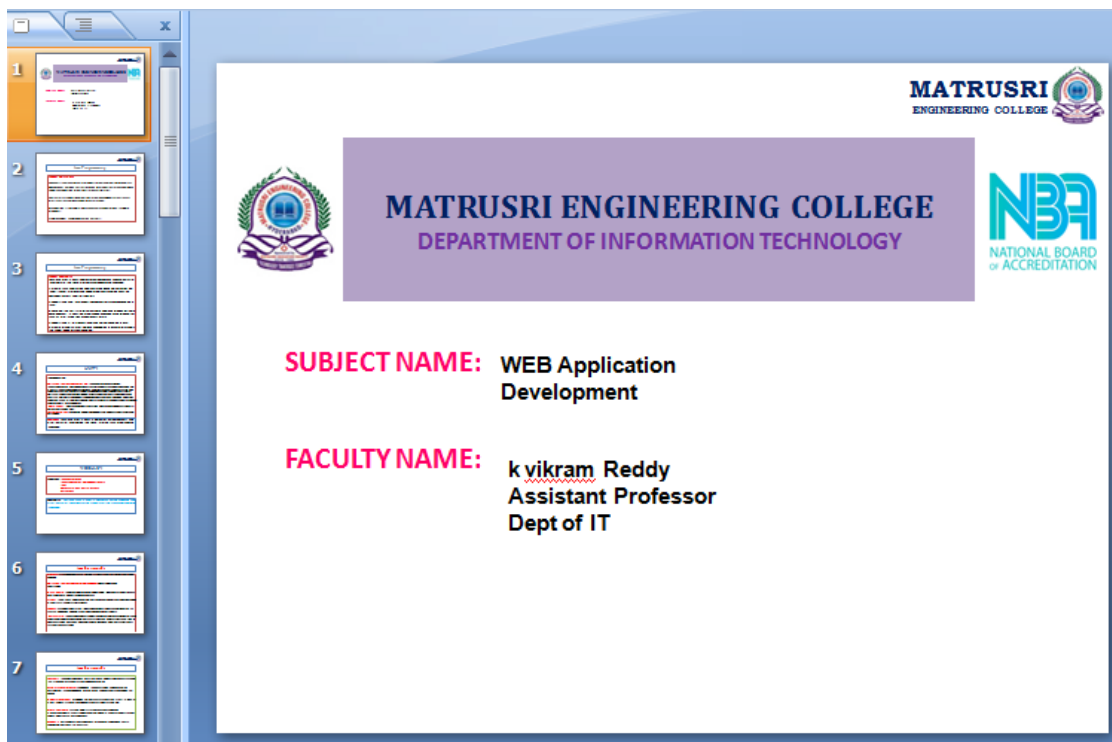
Mr. K.Vikram Reddy, Assistant Professor, IT Department explaining “Web Application Development” for B.E IT– VSEM students by using (Google Class Room)



Mr. K.Vikram Reddy, Assistant Professor, IT Department, content sharing through Blog spot [www.vikramreddy.webs.com](https://www.vikramreddy.webs.com)



Mr. K.Vikram Reddy, Assistant Professor, IT Department, conducting online exam MFIT for BE IT III semester students sharing through online



Mr. K.Vikram Reddy, Assistant Professor, IT Department, USING PPT FOR Teaching the Subject WEB APPLICATION DEVELOPMENT for V semester students

BE-IT-V-Semester (AY: 2021-2022)

BE-V SEM IT

TIME DAY	9:40am to 10:40am	10:40am to 11:40am	11:40am to 12:40pm	12:40pm to 1:40pm	1:40pm to 2:10pm	2:10pm to 3:10pm	3:10pm to 4:10pm
MON	WAD	WAD	CN	OS	L	WAD LAB(A)/CN LAB(B)	
TUE	OS	CN	WAD	AT	U	AI	AI
WED	AI	SE	SE	OS	N	CN	AT
FRI	CN	SE	AI	AT	C	OS LAB(B)/CN LAB(A)	
SAT	SE	CN	OS	WAD	H	WAD LAB(B)/OS LAB(A)	
						Library	

Class Teacher: K. VIKRAM REDDY

Class code: d734l3d

Join

Visible to students

Announce something to your class

Aruna Jyothi T  
Feb 6

All the students r informed to complete OS Lab record with all programs and outputs by 09/02/2021

Add class comment...

Mrs.T.Aruna Jyothi, Assistant Professor, IT Department explaining “Operating Systems” for B.E IT– V SEM students by ICT tool(Google Classroom)

## 1. GOOGLE CLASSROOM-PPT

Sharing the PPT and explaining the concepts.

Student list - IV sem - kiruthiga x Assignment - II x Meet - ztp-bmrh-jms x (7) WhatsApp x Matrusri Engineering College x

meet.google.com/ztp-bmrh-jms?authuser=1

Adobe Acrobat Reader DC (64-bit)

Tools MPU\_LABprogs.pdf unit-4.pdf x

4 / 33 71.9%

**DNS MESSAGES**

DNS has two types of messages: query and response. Both types have the same format. The query message consists of a header and question records; the response message consists of a header, question records, answer records, authoritative records, and additional records.

**Header**

Question section

Answer section

Authoritative section

Additional section

a. Query b. Response

**Header Format**

Identification	Flags
Number of question records	Number of answer records (all 0s in query message)

Export PDF

Edit PDF

Create PDF

Comment

Combine Files

Organize Pages

Convert, edit and e-sign PDF contracts & agreements

Free 7-Day Trial

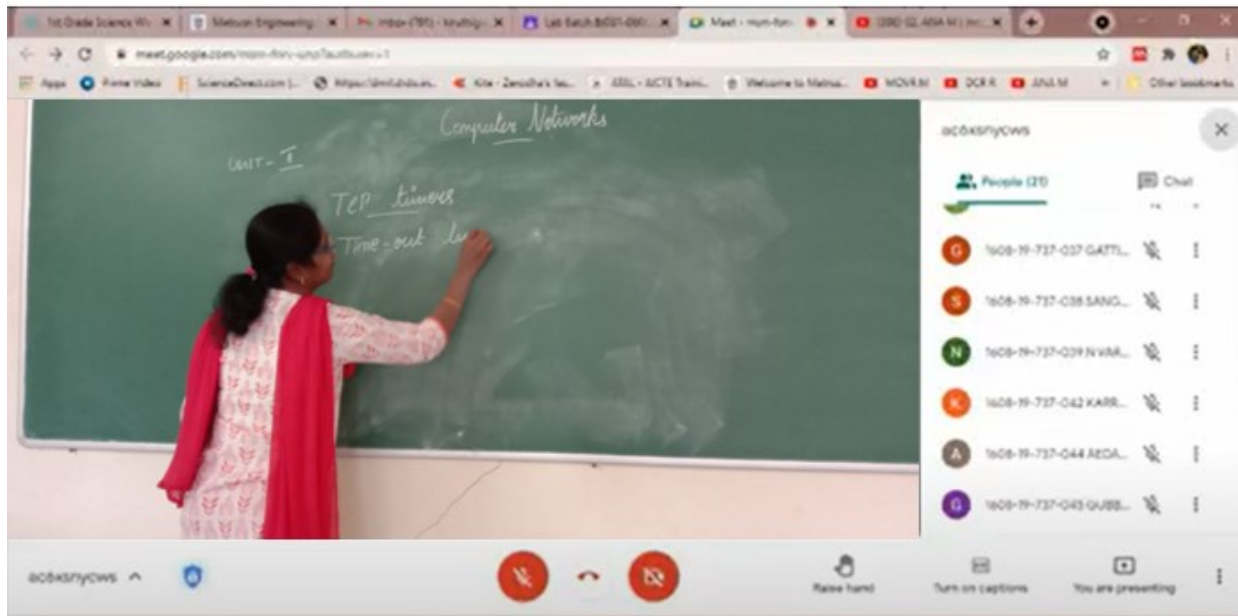
Stop presenting

17 January 2022 Monday 11:57 17-01-2022

Mrs.R.Kiruthiga, Assistant Professor, IT Department explaining “Computer Networks ” for B.EIT–III SEMstudentsby ICT tool(Google Classroom)



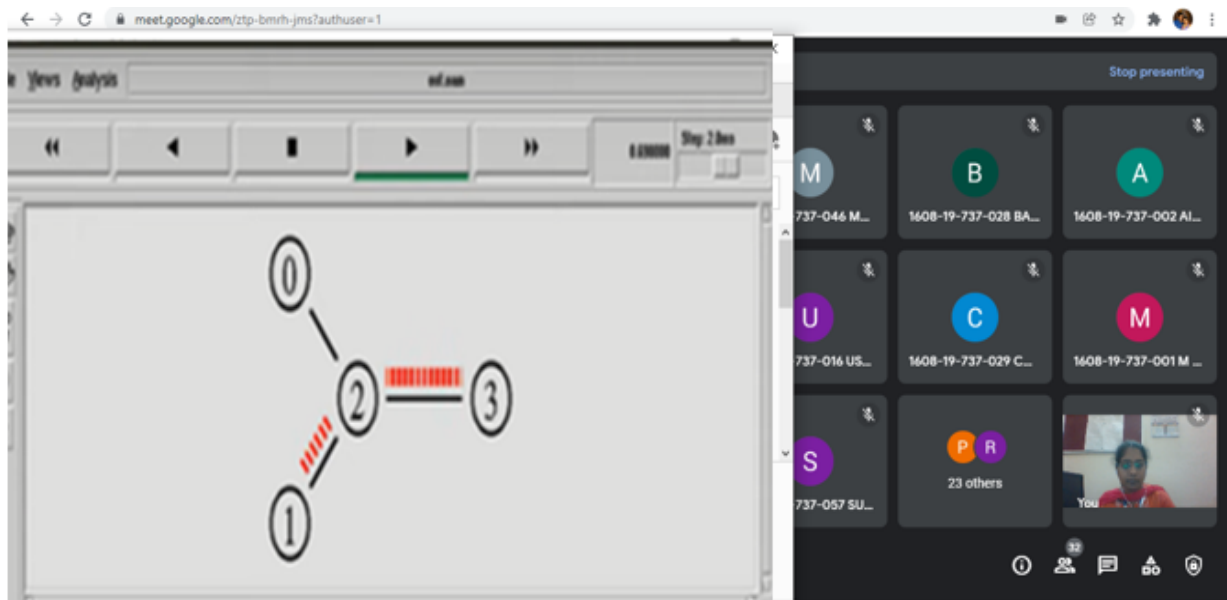
## 2.BLACK BOARD

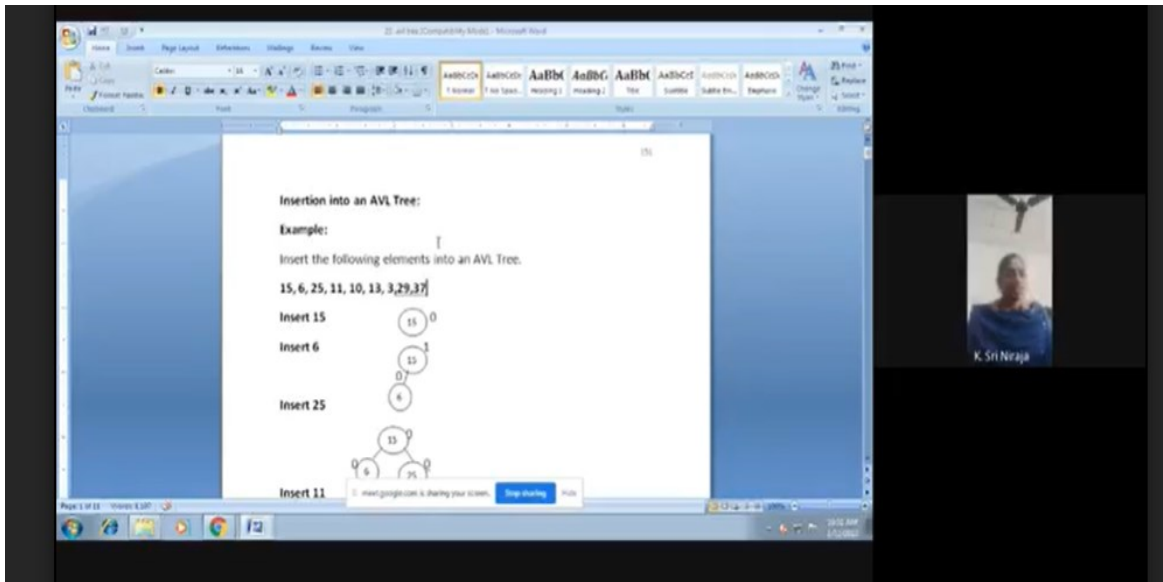


Mrs.R.Kiruthiga , Assistant Professor ,IT Dept.explaining “Computer Networks”  
for B.EIT– VSEMstudentsby using Black board .

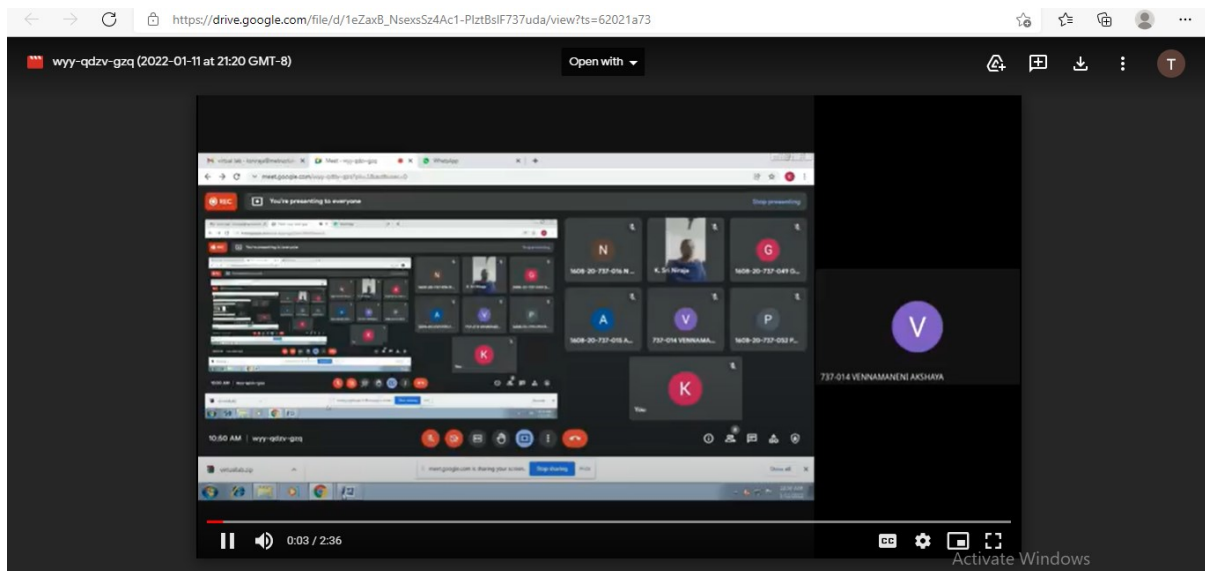
## 3.NS2 SIMULATION TOOL

NS2 simulation used to demonstrate packet transfer from one node to another using TCP.

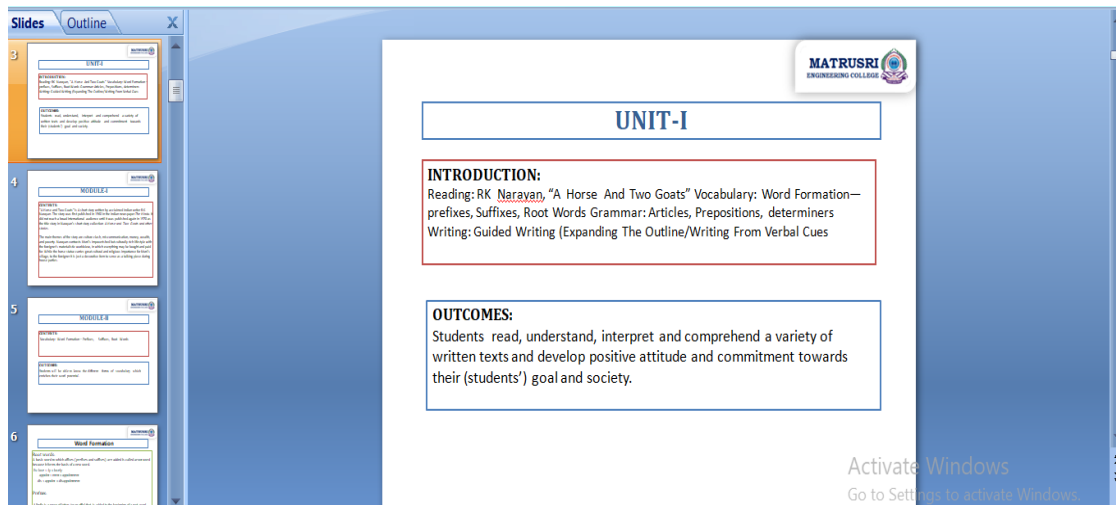




Mrs.K.Niraja,Asst. Prof of IT department delivering content AVL TREES for B.E IV SEM content through Slide share.



Mrs.K.Niraja, Assisatnt Professor IT Dept. using google class room to teach ‘Data Structures’



**K Sunitha, Assistant Professor of English ,taking class on the topic  
 “A Horse and Two Goats” using ICT tool,Power point Presentation (ppt)**

## 1. Mrs K.VIJETHA explaining about Different types of ADC's

**Different Types Of ADC's**

- It provides the function just opposite to that of a DAC. It accepts an analog input voltage  $V_a$  and produces an output binary word  $d_1, d_2, d_3, \dots, d_n$ . Where  $d_1$  is the most significant bit and  $d_n$  is the least significant bit.
- ADCs are broadly classified into two groups according to their conversion techniques
  - Direct type
  - Integrating type

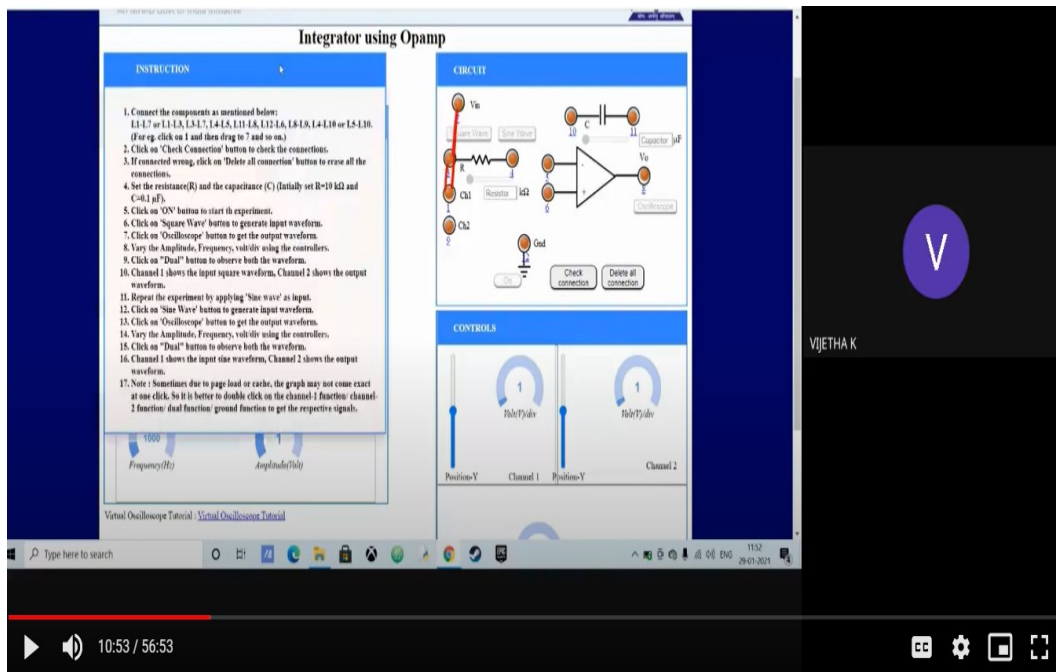
Direct type ADCs compares a given analog signal with the internally generated equivalent signal. This group includes

- Flash (Comparator) type converter
- Successive approximation type converter
- Counter type
- Servo or Tracking type

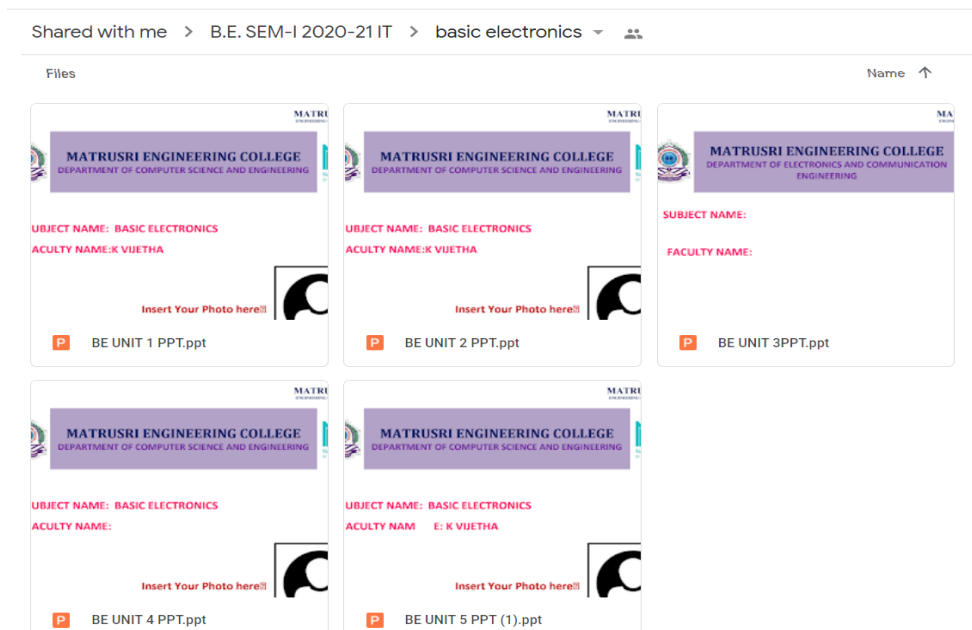
Integrated type ADCs perform conversion in an indirect manner by first changing the analog input signal to linear function of time or frequency and then to a digital code.



## 2. Mrs.K.VIJETHA explaining about OP AMP as integrator in virtual lab



## 3. Mrs.K.VIJETHA GOOGLE CLASS ROOM for BASIC ELECTRONICS sharing PPT



#### 4.. Mrs. K.VIJETHA shared course material in Google Class Room

diodes conduct for one half cycle of the input supply. The circuit of a bridge rectifier is shown in the following figure.

**Fig 27: Bridge full wave rectifier**

**Working of a Bridge Full-Wave Rectifier**

The full wave rectifier with four diodes connected in bridge circuit is employed to get a better full wave output response. When the positive half cycle of the input supply is given, point P becomes positive with respect to the point Q. This makes the diode D1 and D3 forward biased while D2 and D4 reverse biased. These two diodes will now be in series with the load resistor.

The following figure indicates this along with the conventional current flow in the circuit.

**Fig 28: Conventional current flow in the circuit**

Hence the diodes D1 and D3 are in series with the load resistor. As two diodes work in order to produce the output along the load resistor.

Google Class rooms

#### GOOGLE CLASS ROOM LINKS:

1. <https://classroom.google.com/u/2/c/MTUzMjc3MjcwMTgx>
2. <https://classroom.google.com/u/2/c/MTkzMjQ3MDg3NDU1>
3. <https://classroom.google.com/u/2/c/MTUzMjk3NzY4MDU5>

## Faculty Blog Spots

S.No	Name of the faculty	Link of the personal blog
1	Dr.G.Shyama Chandra Prasad	<a href="https://technovista.blogspot.com">https://technovista.blogspot.com</a>
2	Mr.K.Vikram Reddy	<a href="https://vikramreddy.webs.com">https://vikramreddy.webs.com</a>
3	Mrs.T.Aruna Jyothi	<a href="https://arunajyothi123.wordpress.com">https://arunajyothi123.wordpress.com</a>
4	Mrs.R.Kiruthiga	
5	Mrs.K.Niraja	<a href="https://ksnirajaniraja.wordpress.com/">https://ksnirajaniraja.wordpress.com/</a>

# Department of Information Technology

## ICT Based Learning for the Academic Year: 2020-21

S.no	Name of Faculty	Name of subject /Event	ICT Tool used
1.	Dr.G.Shyama Chandra Prasad	Database Systems	Google Meet/ PPTS, Google Classrooms,, e-Material .Info gram, slide share , White Board and marker.
2	Mr.K.Vikram Reddy	OOP Using JAVA	Google Meet/ PPTS, Google Classrooms,, e-Material, Info gram, slide share , White Board and marker.
3	Mrs.T.Aruna Jyothi	Data Communications	Google Meet/ PPTS, Google Classrooms,, e-Material , Info gram, slide share , White Board and marker.
4	Mrs.R.Kiruthiga	Computer Organization&Microprocessor	Google Meet/ PPTS, Google Classrooms,, e-Material , Info gram, slide share , White Board and marker.

## 1. Dr. G.Shyama Chandra Prasad Explaining about “Graphs and Types of Graphs,path,cycle anmd circuits”

The screenshot shows a video lecture interface. The main content is a graph with nodes A, B, C, D, E, F, G. The graph is a simple undirected graph with edges (A,B), (A,C), (B,C), (C,D), (C,E), (D,E), (E,F), (F,G), (G,D). Below the graph, there are handwritten notes:

Paths:

- A-B-C-A (3 edges)
- A-C-E-D-A (4 edges)
- A-C-E-D-C-A (5 edges)

Cycles:

- closed/circuit cycle (checkmark)
- closed (checkmark)
- closed (checkmark)

The video player shows a small window of the lecturer, Dr. G.Shyama Chandra Prasad, in the bottom right corner.

## 2. Dr. G.Shyama Chandra Prasad explaining about Lossy decomposition in DBS

The screenshot shows a presentation slide titled "A Lossy Decomposition" from MATRUSRI ENGINEERING COLLEGE. The slide illustrates a lossy decomposition of a database schema.

**Original Schema:**

ID	name	street	city	salary
57766	Kim	Main	Perryridge	75000
98776	Kim	North	Hampton	67000

**Decomposition:**

The original schema is decomposed into two smaller schemas:

ID	name
57766	Kim
98776	Kim

name	street	city	salary
Kim	Main	Perryridge	75000
Kim	North	Hampton	67000

**Natural Join:**

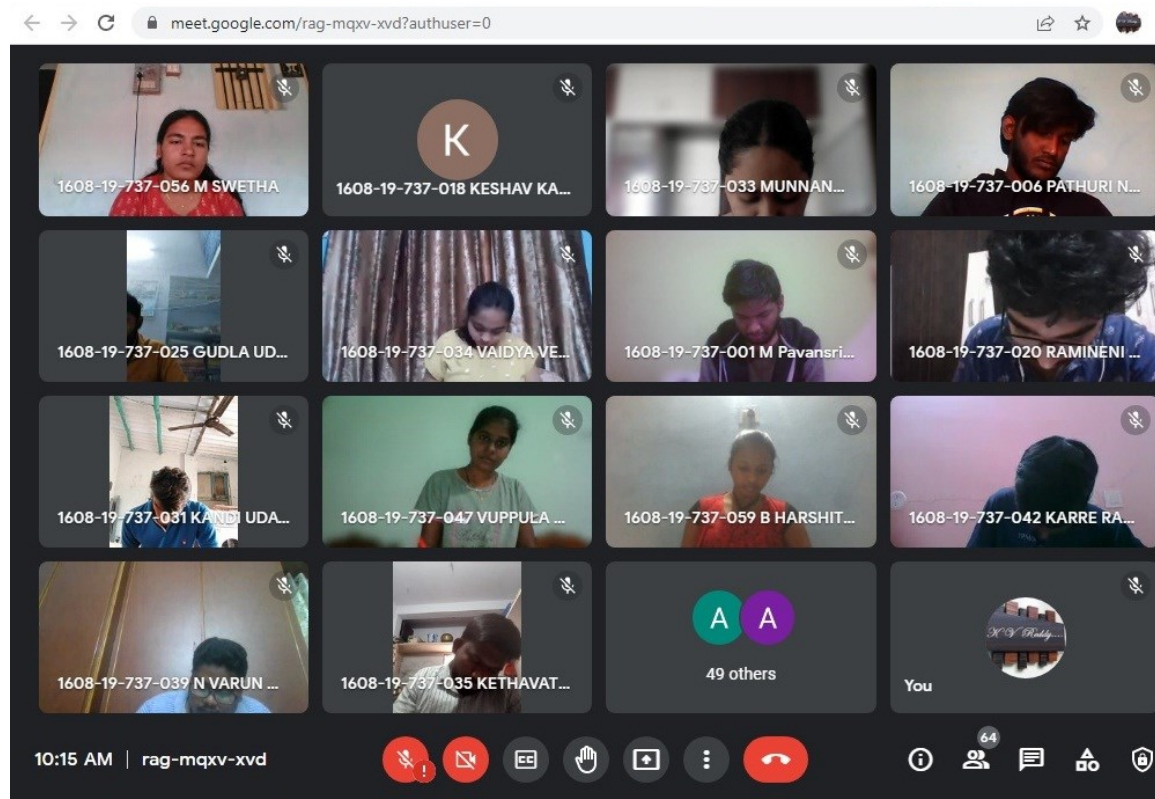
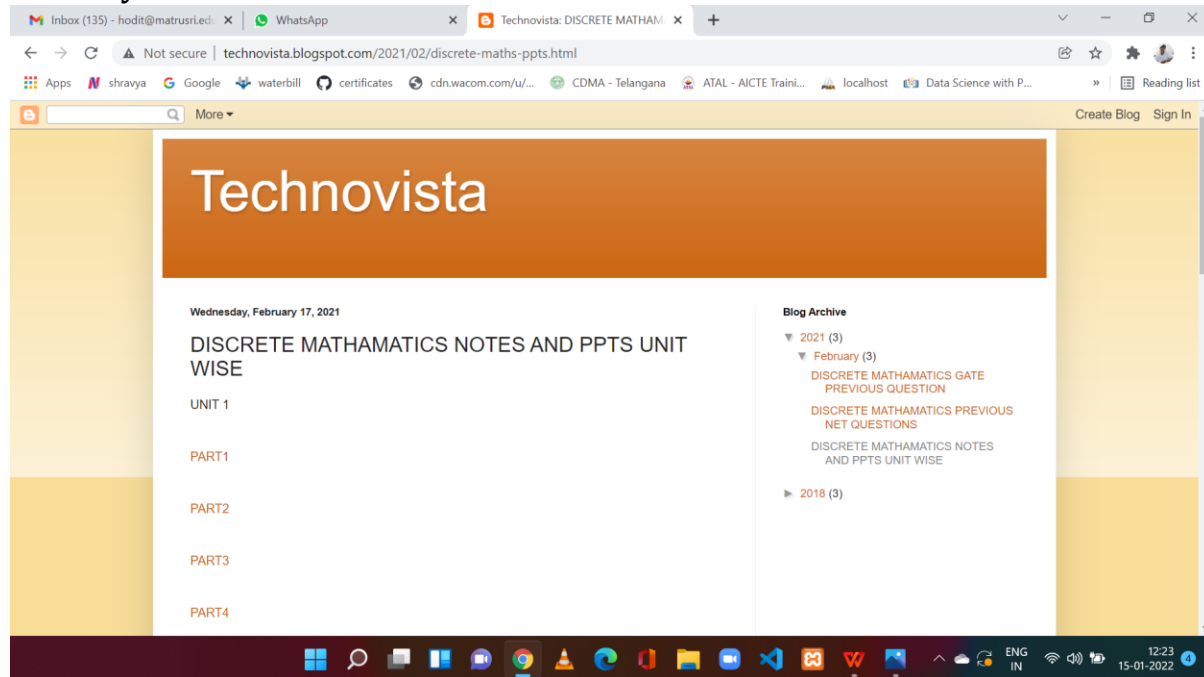
The natural join of the two decomposed schemas results in a schema with three rows, including a spurious tuple:

ID	name	street	city	salary
57766	Kim	Main	Perryridge	75000
57766	Kim	North	Hampton	67000
98776	Kim	Main	Perryridge	67000

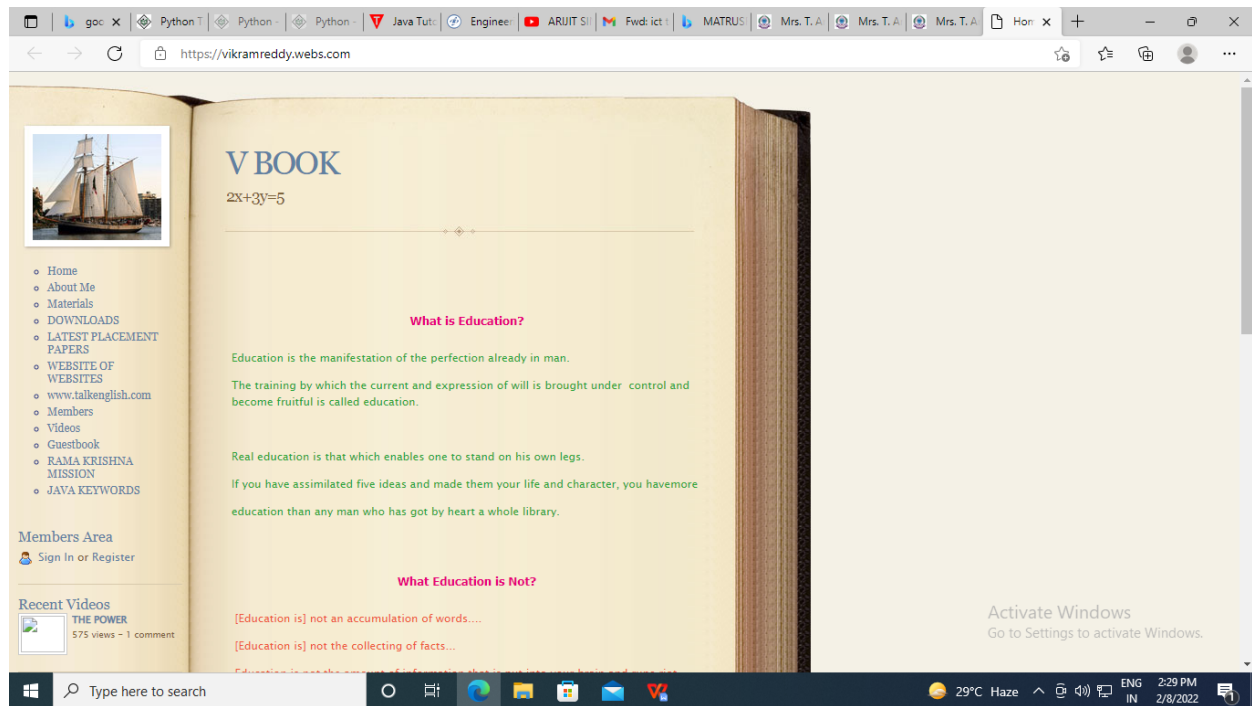
The slide also includes a sidebar with an outline of the presentation, showing slides 7, 8, and 9.



## Dr. G.Shyama Chandra Prasad shared online material to Students



Mr. K.Vikram Reddy Assistant Professor IT Department using Google class room to teach” OOP Using JAVA”.



**Mr.K.Vikram Reddy Assistant Professor sharing online material to students through -Blog spot**

[www.vikramreddy.webs.com](http://www.vikramreddy.webs.com)

1. **T.Aruna Jyothi** Conducted seminars for students “Cellular Networks” in Data Communications .Sri varsha from IT IV sem presented the seminar.

The screenshot displays a Google Meet interface during a presentation. The main window shows a slide titled "unit V module1.pptx" with two diagrams of hexagonal cellular networks. Diagram (a) shows a larger hexagonal grid with dimensions: height =  $6 \times \sqrt{3} \times 1.6 = 15.9 \text{ km}$  and width =  $11 \times 1.6 = 17.6 \text{ km}$ , labeled "(a) Cell radius = 1.6 km". Diagram (b) shows a smaller hexagonal grid with dimensions: height =  $10 \times \sqrt{3} \times 0.8 = 13.8 \text{ km}$  and width =  $21 \times 0.8 = 16.8 \text{ km}$ , labeled "(b) Cell radius = 0.8 km". The right sidebar shows a grid of participant tiles, including one for "1608-19-737-005 SRIVARSHA KAMISHETTY" who is presenting. The bottom status bar indicates the time is 12:40 PM and the meeting ID is bf7kswif73. The taskbar at the bottom shows various open applications like Microsoft PowerPoint, a book, and a web browser.

2. **T.Aruna Jyothi** Conducted seminars for students **“FDMA”** in Data Communications. **Mr.T.Ventatesh** from CSE IV sem II presented the seminar.

The screenshot shows a Google Meet interface. The main window displays a presentation slide titled "FDMA CONTINUE...". The slide content includes:

- In FDMA, all users share the **frequency channel** simultaneously but each user transmits at single frequency.
- FDMA can be used with both analog and digital signal.
- FDMA requires high-performing filters in the radio hardware, in contrast to TDMA.
- FDMA is not unprotected to the timing problems that TDMA has. Since a predetermined frequency band is available for the entire period of communication, stream data (a continuous flow of data that may not be packetized) can easily be used with FDMA.
- Due to the frequency filtering, FDMA is not sensitive to **near-far problem** which is pronounced for **CDMA**.
- Each user transmits and receives at different frequencies as each user gets a unique frequency slots.

The right sidebar shows a grid of participants. A notification for "1608-19-737-042 KARRE RAHUL joined" is visible. The bottom status bar shows the time as 12:49 PM and the user ID bf7kswf73.

The screenshot shows a Google Meet interface. The main window displays a presentation slide titled "BENEFITS". The slide content includes:

- Allocates frequency to each caller
- Network standardizing
- Mobility
- Pricing plans
- Cost

A diagram titled "FDMA" is shown, illustrating "Time vs. Frequency" with four horizontal bars representing "Call 1", "Call 2", "Call 3", and "Call 4".

The right sidebar shows a grid of participants. A notification for "1608-19-737-024 MULA SUPRAJA has left the meeting" is visible. The bottom status bar shows the time as 12:55 PM and the user ID bf7kswf73.

### 3. Mrs. T.Aruna Jyothi Shared notes and ppts in google classroom for Operating System, BE V sem IT students

The screenshot shows the Google Classroom interface for the BE-IT-V-Semester (AY: 2021-2022). The class code is d734l3d. The teacher, Aruna Jyothi T, has shared several materials:

- OS previous question papers
- ospyr (1).pdf PDF
- OS unit IV ppt
- ch10.pptx PowerPoint
- ch12.pptx PowerPoint
- ch13.pptx PowerPoint

The interface also shows a sidebar with the class code and upcoming assignments. The bottom of the screen displays the Windows taskbar with various open applications.

### 4.. Mrs. T.Aruna Jyothi Shared notes and ppts in google classroom Data Communications, BE IV sem IT.

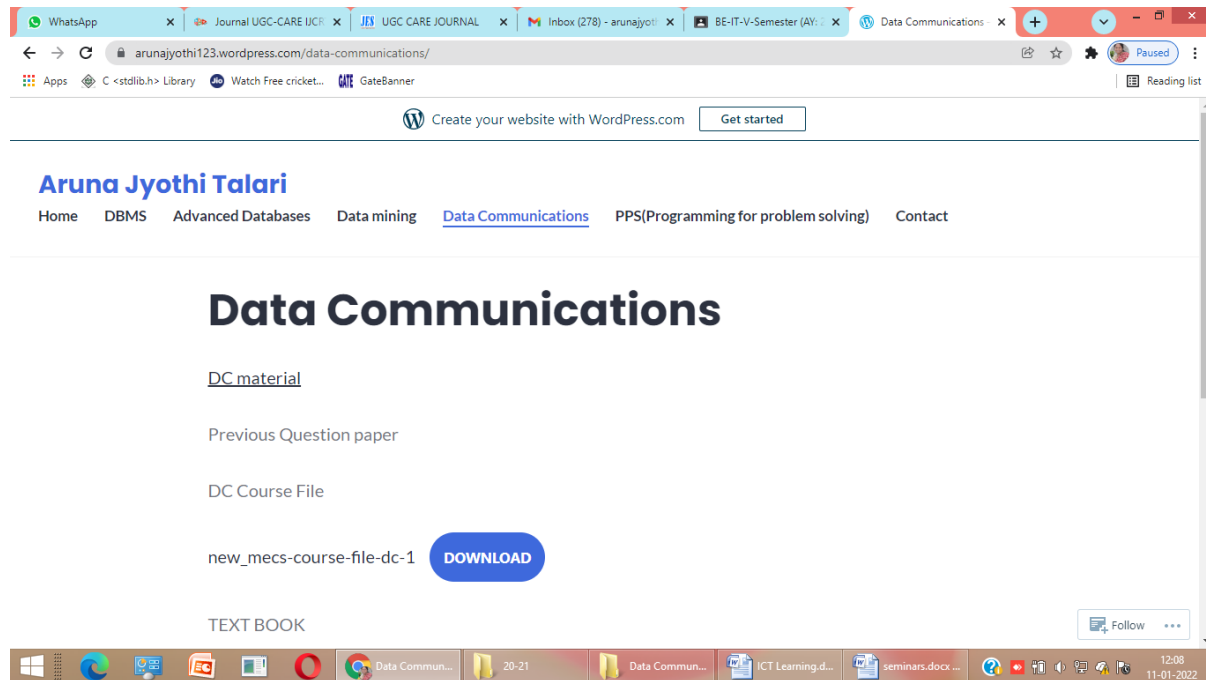
The screenshot shows the Google Classroom interface for the BE-IT-V-Semester (AY: 2021-2022). The teacher, Aruna Jyothi T, has shared several materials:

- UNIT III
- unit3module1-new1.pptx PowerPoint
- UNIT III module 2.pptx PowerPoint
- uNIT III module 3.pptx PowerPoint
- 18. assignment questions (Word)

The interface also shows a sidebar with the class code and upcoming assignments. The bottom of the screen displays the Windows taskbar with various open applications.



**5.Mrs. T.Aruna Jyothi Shared notes and ppts in blog for IV sem IT students for Data communications subject.**



**Faculty Blog spots:**

S.No	Name of the faculty	Link of the personal blog
1	Dr.G.Shyama Chandra Prasad	<a href="https://technovista.blogspot.com">https://technovista.blogspot.com</a>
2	Mr.K.Vikram Reddy	<a href="https://vikramreddy.webs.com">https://vikramreddy.webs.com</a>
3	Mrs.T.Aruna Jyothi	<a href="https://arunajyothi123.wordpress.com">https://arunajyothi123.wordpress.com</a>
4	Mrs.R.Kiruthiga	