



Excelssior Education Society's
K. C. College of Engineering and Management Studies and Research
(Affiliated to the University of Mumbai)
MithBunder Road, Near Hume Pipe, Kopri, Thane (E)-400603

Department of Electronics and Telecommunication

A.Y. 2020-21

Sr.No.	Name of faculty	Sem	Class	Subject	Methodology used
1	Ms. Purnima Vadak	IV	S.E. EXTC	Principles of communication Engineering	Mind mapping Activity
2	Ms. Purnima Vadak	IV	S.E. EXTC	Principles of communication Engineering	PPT making and presenting after listening to a reference video on that particular topic in group.
3	Ms. Sumita Gupta	III	S.E.EXTC	EDC	Innovative Video presentation for any topic related to EDC in a group
4	Ms. Sushma Kore	VI	T.E.EXTC	Computer Communication Network	Video making
5	Ms. Aarti Bakshi	V	T.E.EXTC	Digital communication	Case study
6	Ms. Aarti Bakshi	VI	T.E.EXTC	Image processing and Machine vision	PowerPoint Presentation on Image processing by students
7	Dr. Baban U. Rindhe	VIII	B.E.EXTC	Wireless network	PowerPoint Presentation on Advances In Wireless
8	Mrs. Anupama Chaurasia	VI	T.E.EXTC	Antenna and Radio wave Propagation	Mind Mapping, Crossword Puzzle, and Guest Lecture
9	Mrs. Anupama Chaurasia	V	T.E.EXTC	Electromagnetic Engineering	Scrambled Words, Illustration Using Interactive Simulations, Do and Learn Activity, Poster Making
10	Ms.Shubhangi Mangesh	VI	T.E.EXTC	Microcontroller and Applications	Screen Casting or Video making



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	Verulkar				
11	Ms.Sumita Gupta	VI	T.E.EXTC	Digital VLSI Design	Creative layout Modeling
12	Ms.Paurnima Machhindra Vadak	V	T.E.EXTC	Microprocessors and Peripheral Interfacing	Some trick to remember and understand the difficult or lengthy topics like a song, a poem or a mind map can be made by the students to understand in their own way
13	Mrs. Anupama Chaurasia	VIII	B.E. EXTC	RF Design	Guest Lecture to understand the Applications of High Frequency Amplifiers, Practice Quiz on difficult modules
14	Ms.Sumita Gupta	VII	B.E. EXTC	Internet Communication Engineering,	Role Model Video activity
15	Mrs. Anupama Chaurasia	VII	B.E.EXTC	Microwave Engineering	Video making, Crossword Puzzle



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**DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION
2020-21**

Name of Faculty: Purnima Machhindra Vadak

Sub: Principles of Communication Engineering

Class: S.E SEM: IV

Methodology followed: Google meet, Google classroom, PPT, Video Lectures.

Difficulty faced: i) Attending live lecture properly in online mode is sometimes difficult due to internet or power issues. ii) Reduced habit of working in team

New method identified: PPT making and presenting after listening to a reference video on that particular topic in group.

Activity report: The mode of teaching used is online due to ongoing pandemic. In such a situation many of the students find it difficult sometimes to listen to the teachers lecture due to internet or power issue. So a video prepared by the subject teacher or from other sources like NPTEL can be identified topic wise and made available to the students so that they can have self-paced learning whenever the required resources like laptop, electricity or internet are available to them. An assignment is given based on this video lectures provided to the students. As the students are aware that they have to write an assignment based on that video they have to listen to the video carefully. The groups are made where all the members will listen to that source video individually and then by coordination discuss the important points and prepare its PPT. This PPT will be presented in front of the class.

A major benefit of this technique is that **the students can refer to that video anytime anywhere and to explain it to the entire class it is made sure that the topic is very well clear to the presenters .**

Outcome: Listening to a video on a topic to understand important points improve listening with concentration of the students. Discussion on the same video after being watched by 3-4 different students brings out the best out of it. Preparing the PPT and presenting it in groups improves team building.



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College of Engineering & Management Studies & Research
Mith Bunder Road, Kopri, Thane (E)
Electronics and Telecommunication Engineering

ASSIGNMENT NO: 2

Semester: IV

Class: S.E

Subject: PCE

Date of display: 09/04/2021

Date of submission: As mentioned

Group	Members	Topic	Source	Date
1	Sakshi	TDM (Time division Multiplexing)	https://www.youtube.com/watch?v=udU5ykeHg3c	19/04/2021
	Swastik			
	Sharmeen			
	Ritika			
2	Tanishka Bhikot	Superheterodyne receivers	https://www.youtube.com/watch?v=bd5XkVqdWOg	16/04/2021
	Baishali Chaudhury			
	Ankita Khokale			
	Gauri Lakeshri			
3	Gopal Asolkar	PAM (Pulse Amplitude Modulation)	https://www.youtube.com/watch?v=HCltbJapAf8&list=PLq-Gm0yRYwTgX2FkPVcY6io003-tZd8Ru&index=39&t=1s	15/04/2021
	Vishwajeet Ghata			
	Sarvesh Idekar			
	Shubham Jha			
4	Aniket Kumar	Sampling	https://www.youtube.com/watch?v=WUCMavXbJo4	15/04/2021
	Shalini Pathak			
	Jayshree Patil			
	Sparsh Singh			
5	Ashishkumar Prajapati	FDM	https://www.youtube.com/watch?v=y2ZQkOZ7DWU	20/04/2021
	Yatish Patil			
	Sumit Sardar			
	Omkar Tiwari			
6	Anand	PWM	https://www.youtube.com/watch?v=OE_05sAxxJ8	20/04/2021
	Shailesh			
	Shubham			
	Masoom			
7	Venugopal	PPM	https://www.youtube.com/watch?v=OE_05sAxxJ8	22/04/2021
	Ronit			
	Sidhyant			
	Dhanashree Wadeyar			
8	Jatin Arethiya	Amplitude Modulation	https://youtu.be/_YahdHyZLL4	22/04/2021
	Nadeem Butt			
	Dakshata Chaudhari			
	Preetesh			
9	Raj Joshi	Frequency Modulation	https://youtu.be/oipXPbxX6zQ	23/04/2021
	Jugal Paswan		https://youtu.be/kjHj_uddBck	



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Electronics and Telecommunication Engineering

	Onish Yadav		https://youtu.be/dgPCyrwjj1Y	
	Lokesh Prajapati			
	Dhurat Siddesh G			19/04/2021
	Bhatkar Rituraj			
	Gokhankar Nikhil			
10	Dhumale Tanmay	Amplitude Demodulation	https://youtu.be/NyX6Krw8Njo	
	Kamble Vinayak			20/04/2021
	Bhagat Mayur			
	Upadhyay Chandradhar	DSBSC Generator- Ring Modulator		
11	Therattil Dhaval			
	Shukla Aman			22/04/2021
	Hare Pratik			
	Sugdare pratik	DSBSC Generator-FET Balanced Modulator		
12	Panchal Ujjval			
	Satam Aaditi			23/04/2021
	Ghosalkar Hritika	FM demodulation: Balance slope detector, Foster-Seely discriminator		
	Chirivella Prashanthi			
13	Ghagare Apeksha			
	Buswala Priya			22/04/2021
	Patil Soham	Indirect FM Transmitter, Preemphasis and Deemphasis		
	Sawant Anamika			
14	Chintewar Pritam			
	Sthwarmath Pooja			24/04/2021
	Kurade Dhanshree	Radio receivers and Characteristics of Radio receivers		
	Khan Falak			
15	Shaikh Areesha		https://www.youtube.com/watch?v=bd5XkVqdWOg	
	Bhandare Shrikant			24/04/2021
	Kadam Aniruddha			
	Vishwakarma Ashishkumar			
16	Bhavana	PCM & DPCM		
	Kot Vinit			25/04/2021
	Mohammad Aseem			
	Suhas			
	Atul	Sampling techniques, Types , error etc		
17	Prajaval		https://www.youtube.com/watch?v=WUCMavXbJo4	

P.M. Vadak

Ms. Purnima Vadak
Subject Incharge



K.C. College of Engineering & Management Studies & Research
Mith Bunder Road, Kopri, Thane (E)
Department of Electronics & Telecommunication

(2020-21)

Name of Faculty: Sumita Gupta

Sub: EDC

Class: S.E.EXTC SEM:III

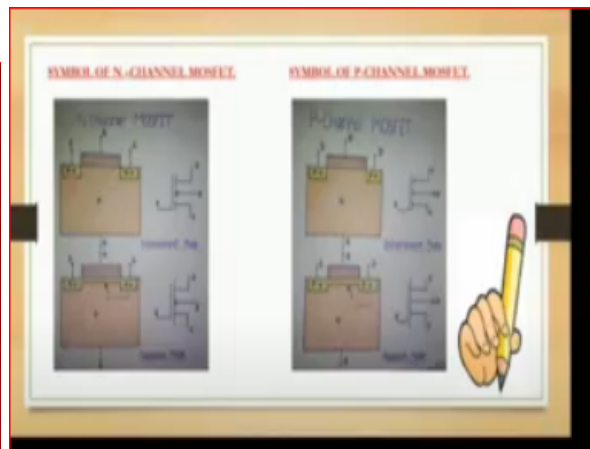
Methodology followed: Blackboard teaching, ppt

Difficulty faced: Student faced difficulty in solving numerical.

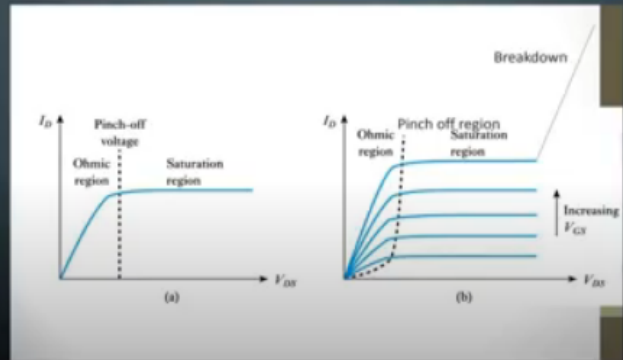
New method identified : Innovative Video presentation for any topic related to EDC in a group

Activity report: All the students in a group of 2,3 or 4 were asked to prepare a video on Topics related to EDC

Outcome: This provided the students with the knowledge of explaining the topic in innovative manner. With this activity students were encouraged to present their study in different presentation competition



JFET OUTPUT CHARACTERISTICS FOR VGS



SWASTIK RAO



0:56 / 4:52



clideo.com



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**DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION
2020-21**

Name of Faculty: Mrs. Anupama Chaurasia

Sub: Antenna and Radio wave Propagation

Class: T.E.EXTC SEM: VI

Methodology followed: Google Class Room Teaching, Written Assignments, Remedial lectures

Difficulty faced: Students do not get the exact understanding of the topic through regular online or offline classroom teachings and basic written subject assignments.

New method identified: Mind Mapping, Crossword Puzzle, and Guest Lecture

Mind Mapping

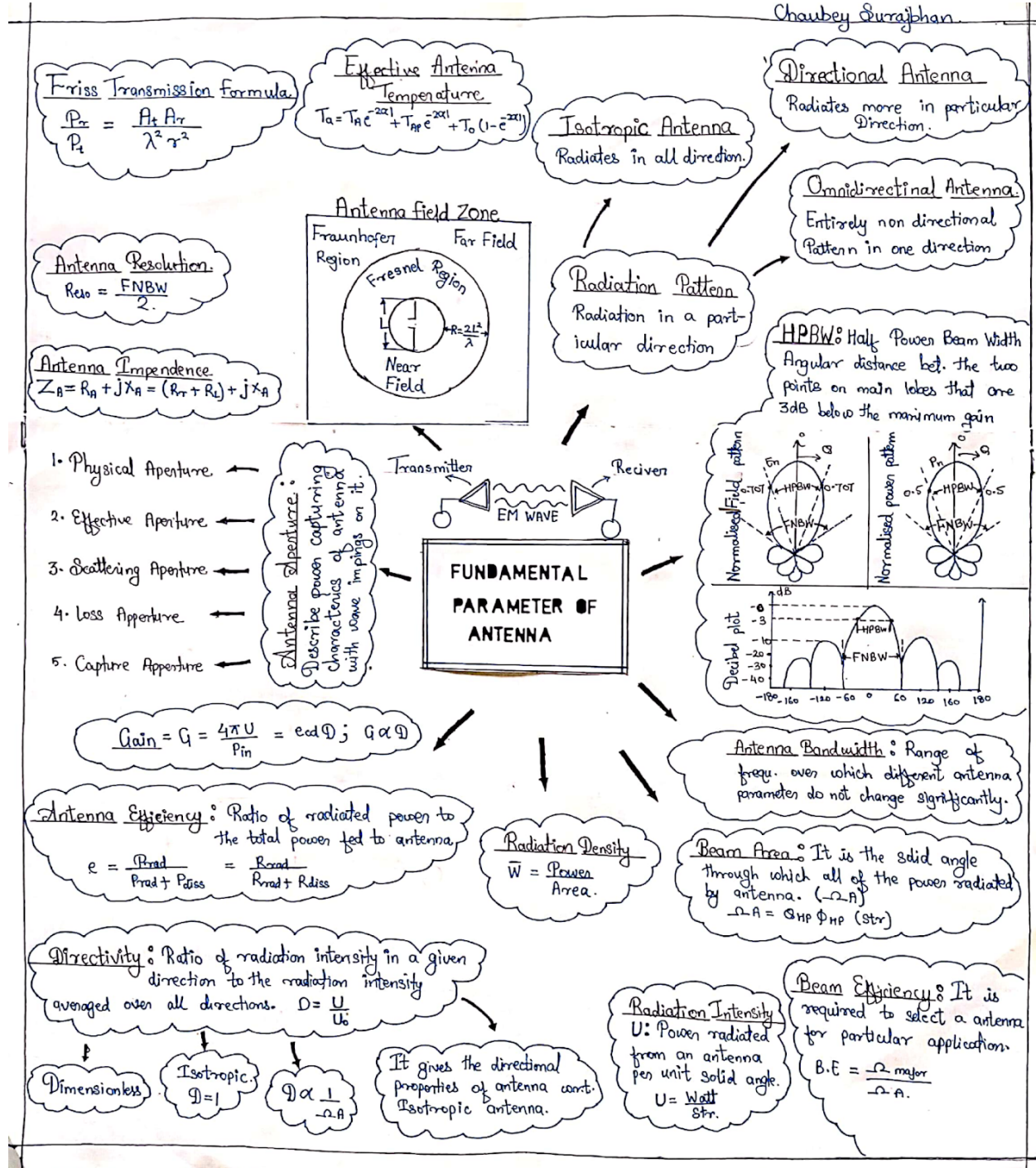
Activity Report: A mind map is a diagram used to visually organize information. A mind map is hierarchical and shows relationships among pieces of the whole. It is often created around a single concept, drawn as an image in the center of a blank page, to which associated representations of ideas such as images, words and parts of words are added. Major ideas are connected directly to the central concept, and other ideas branch out from those major ideas.

Mind mapping is an effective means to take notes and brainstorm essay topics. A mind map involves writing down a central theme and thinking of new and related ideas which radiate out from the center

Outcome: This activity helped to understand the concept better than regular assignments



Chaubey Surajbhan





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**DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION
2020-21**

Crossword Puzzle

Activity Report: Cross Word Puzzle is technique to brainstorm and come with the correct word identification through fun activity.

Outcome: This activity helped Students to remember key words and their definition.

classroom.google.com/u/0/g/tg/MjU5NjU5MTg3NDky/MzEyMTM5NjU5Njcy#u=MjQ0MDY3NzU1Nzha&t=f

Crossword Puzzle

PRANJALI PAWAR Turned in

Return

Puzzle.docx

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Department of Electronics and Telecommunication

SUBJECT: ARWP CLASS: TE EXTC SEMESTER VI

Pranjali Pawar - DBMS-42

ACTIVITY: CROSSWORD PUZZLE

1 P
A
R H C P
4 Y A G I
B M P E D A N C E
O S
7 P L
8 F A R
9 D I O P L E
10 S
O I R W
11 B E A M W I D T H
12 Q O D
13 U N T
14 E L I
15 A N
F O Z

Page 1 / 2

Files
Turned in on Apr 2, 2:32 AM
See history
Puzzle.docx
Grade /20
Private comments
PRANJALI PAWAR
Apr 2, 2:32 AM
Done mam
Add private comment...
Cancel Post



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Guest lecture

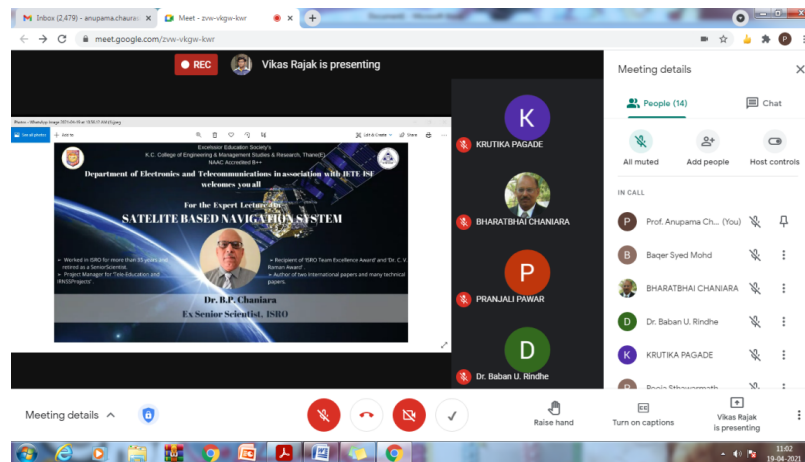
Activity Report: To know the concept of Antenna and RF design of amplifiers and mixers in the field of satellite based navigations also all the latest technologies and trends used for the same the Guest lecture was arranged on Satellite based Navigation Systems.

Speaker: Dr. B. P. Chaniara, Ex Senior Scientist, ISRO

Contents covered:

1. What is Navigation
2. Evolution in Navigation System
3. Types of Navigation Systems and their comparisons
4. Current trends in Satellite Based Navigation Systems

Outcome: Students got acquainted with the concept of Antenna and RF design of amplifiers and mixers in the field of satellite based navigations also all the latest technologies and trends used for the same



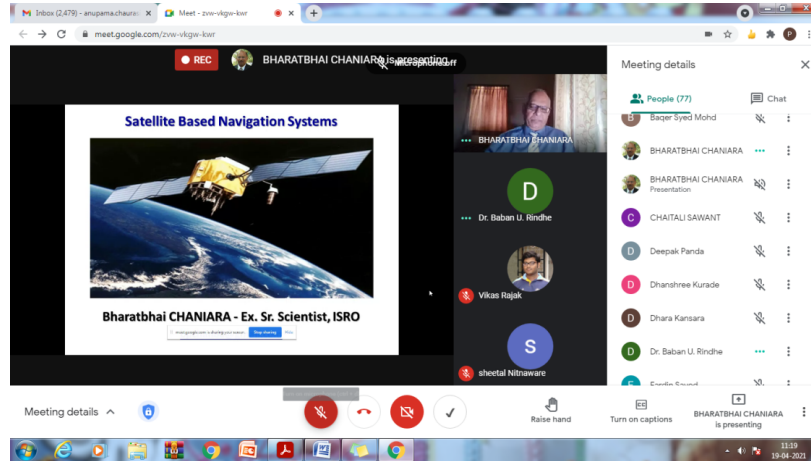


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**DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION
2020-21**

Name of Faculty: Mrs. Anupama Chaurasia

Sub: Electromagnetic Engineering

Class: T.E.EXTC SEM: V

Methodology followed: Google Class Room Teaching, Written Assignments, Remedial lectures

Difficulty faced: Students do not get the exact understanding of the topic through regular online or offline classroom teachings and basic written subject assignments

New method identified: Scrambled Words, Illustration Using Interactive Simulations, Do and Learn Activity, Poster Making

Scrambled Words Puzzle

Activity Report: Scrambled Word Puzzle is technique to brainstorm and come with the correct word identification through fun activity.

Outcome: This activity helped Students to remember key words and their definition.



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classroom.google.com/c/MTE1Njc5NDQ2Mjg4/sa/MTI4NTU0MTUwNTg4/details

EE(TE) 2020-21

Question Student answers

Unscramble the scrambled words

Prof. Anupama Chaurasia • Jul 9, 2020 (Edited Nov 13, 2020)

30 points

Due Jul 10, 2020, 11:00 AM

Scrambled Words.docx
Word

5 class comments

- VIGHNESH RAIKAR Jul 9, 2020
DONE MAM
- ANUSH SHETTY Jul 9, 2020
Done ma'am
- Deepak Panda Jul 9, 2020
done

SCRAMBLED WORDS

LOCUBMO

CIETERCL

LAPINTEOT

DEIFL

GTNEHTSR

CENREICAEWOLMTGT

CEASIROCSTETLT

ECRELONST

TOPSONR

SIIPOVTE

NANOTTCS

NIPTO

LEIN

EURAFSC

NISDETY

MULVOE

LEMNEET

MITLIS

BUSROINITBIT

1 2 3 4 5 6 7 8 9 10 11 12 13

MTE1Njc5NDQ2Mjg4/sa/MTI4NTU0MTUwNTg4/submissions/by-status/and-sort-first-...

Question Student answers

Unscramble the scrambled words

15 56



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**DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION
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Illustration Using Interactive Simulations

Activity Report: Illustration Using Interactive Simulations: It's an interactive teaching and learning method to make students aware of the concepts through practical simulation.

Outcome: This activity helped students to learn concepts through practical simulations in detail manner.



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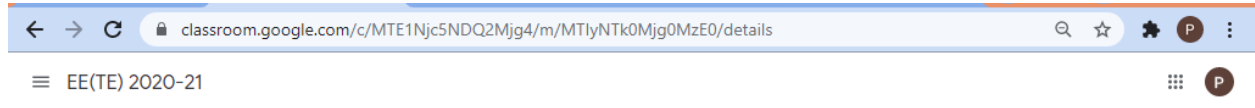


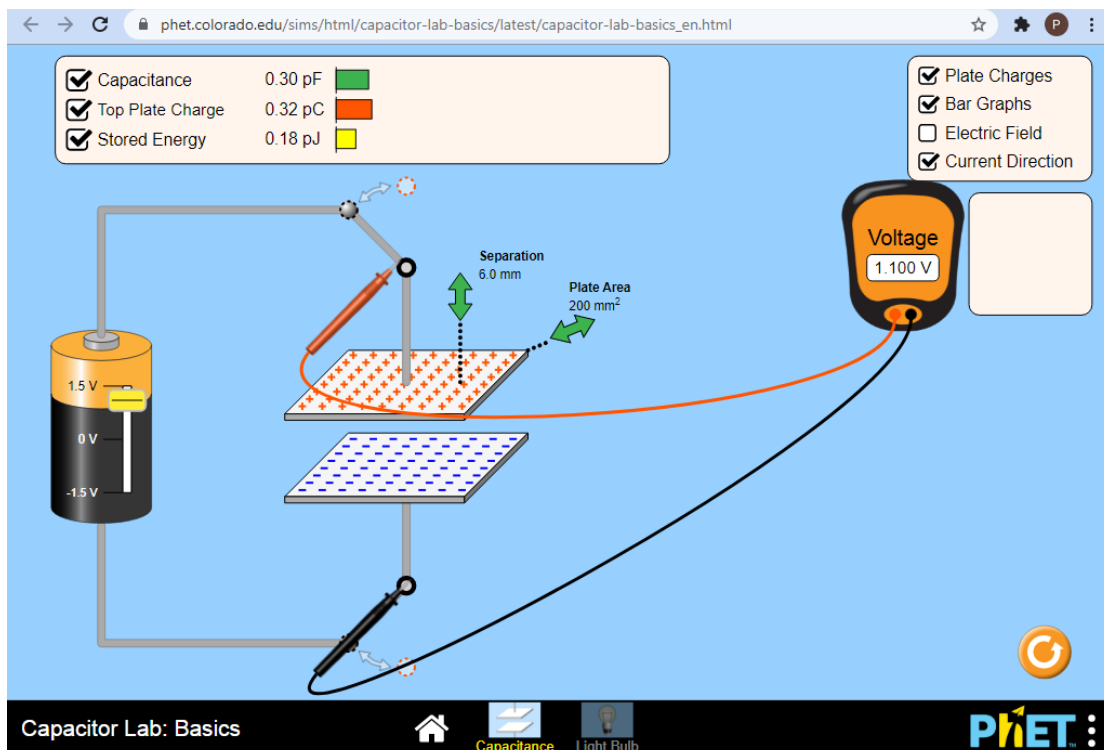
Illustration of Capacitance using interactive simulations. Please refer to understand the capacitance effect

Prof. Anupama Chaurasia · Aug 6, 2020 (Edited Sep 5, 2020)

Following is the link :
https://phet.colorado.edu/sims/html/capacitor-lab-basics/latest/capacitor-lab-basics_en.html

Class comments

Add class comment...



Do and Learn Activity

Activity Report: Students were given some real time example to learn the concept by practically doing it

Outcome: Student Learned the Electromagnetic Concept by practically performing the activity



DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION
2020-21

Activity 1
ANUSHKA LAD
Turned in Done late
Return
Activity 1.pdf
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Mith Bunder Road, Near Hume Pipe, Kopri, Thane (E)- 400603.
Department of Electronics and Telecommunication
Activity 1
Semester: VI Class: T.E. Subject: Electromagnetic Engineering
Date of Display: 07/07/2020 Last Date of Submission: 13/07/2020
Topic: Electrostatics (Measuring Static Electric Force)
Materials:
- Silk cloth
- Wool cloth
- Fake fur cloth
- Cotton cloth
- Balloon
- Ruler with millimeter markings
- Pepper
- Sheet of white paper
Rubbing two materials together makes them exchange electric charge. Depending on the materials involved, typically one gains positive charge and one gains negative charge after friction contact. We will rub an inflated balloon with 4 materials - silk, wool, fur, and cotton - and see which one charges the balloon the most.
Procedure:
a. Blow up a balloon about halfway and tie it shut.
b. Set a sheet of paper flat on a tabletop and shake 1/2 teaspoon of pepper onto it in one spot.
c. Pick one of the four cloth materials and rub the balloon with it for 30 seconds.
d. Hold the balloon upside down by the tie, next to the millimeter ruler held vertically.
e. Slowly let the balloon descend toward the pile of pepper until you see (or hear) the pepper being attracted to the balloon.

Poster Making

Activity Report: Students are allotted topic to prepare a detailed poster to learn the concept and also to learn presentation skills too.

Outcome: Students prepared a detailed poster and were able to present the concept properly.

Assignment: Make a poster /Or one page report(with diagram) describing any application of Electromagnetism
PRANJALI PAWAR
5/5 Done late
Return
PRANJALI PAWAR-AT-15.pptx
Magnetic Resonance Imaging (MRI)
What is an MRI (magnetic resonance imaging)?
An MRI or magnetic resonance imaging is a radiology technique that uses magnetic fields, radio waves, and computers to produce images of body structures. The MRI scanner is a large cylindrical tunnel-shaped magnet. The patient is placed on a motorized bed that is inserted into the magnet. The magnet creates a strong magnetic field that aligns the atoms of hydrogen atoms, which are the essential to a tissue of radio waves. This wave is called proton of the body, and these protons are used to create the image of the body.
How does an MRI scan work?
Your body contains millions of hydrogen atoms. When you are in an MRI scanner:
- A strong magnetic field aligns particles called protons within you with the hydrogen atoms. All the particles that align with the magnetic field, they are aligned.
- The radio waves of radio waves are sent from the scanner into your body. The radio waves knock the protons from their position.
- When the radio waves stop, the protons realign back into place. As they do so they emit radio signals. The protons in different tissues of the body realign at different speeds. Therefore, the signal emitted from different parts of the body is different.
- These signals are detected by a receiving device in the scanner.
- The receiving device converts the signals to a computer. The computer creates a picture based on the radio signals emitted from the body.
Uses
- visualization of the brain and spinal cord
- detection, staging, and other procedures in various parts of the body
- cancer screening (especially for women who face a high risk of breast cancer)
- cancer staging (staging procedures)
- diagnosis of the liver and other abdominal organs
- improved detection strategies to screen emerging infections like HIV/AIDS
Sub-effects
- It is extremely rare that a patient will experience side effects from an MRI scan.
- However, the contrast dye used in some scans, especially for imaging the joints of ligaments in some people. Allergic to the contrast material is also common side effect, and can occur hours or days later. Some of the potential side effects or reactions are:
- People who experience claustrophobia or feel uncomfortable lie on a table may sometimes require sedation with endogenous anesthetic.



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**DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION
2020-21**

Name of Faculty: Shubhangi Mangesh Verulkar

Sub: Microcontroller and Applications

Class: B.E.EXTC SEM:VI

Methodology followed: Googlemeet, Google classroom, ppt.

Difficulty faced: Student faced difficulty sometime internet issues, presentation of models.

New method identified : Screen Casting or Video making

Activity report: Screencasts can provide learners a student-centered and engaging learning experience in both distance and traditional learning settings. Screencasts enable teachers to create a digital recording of any instructional activity performed on a computer screen, and they can be used as learning resources, learning tasks, and learning support.

A major benefit of screen casting is that **the viewer can watch the screencast at a time when it's best for them** because learning doesn't always take place in an academic setting. Additionally, the viewer can absorb the information at their own pace by pausing and rewatching portions.

Students can use Screen casting to explain what they know in their own words. The students can record a video on explaining the steps of difficult numerical or summarizing a concept.

There are many ways we can use screencasting in our teaching.

- Answer a question
- Record a lecture
- Demo how to use an application

SAMPLE VIDEO LINKS:

Link 1: <https://drive.google.com/drive/folders/1eqcRte5zjUZjXR-puzrYLyAlAKFSDtwr>

Link 2: <https://drive.google.com/drive/folders/1eqcRte5zjUZjXR-puzrYLyAlAKFSDtwr>



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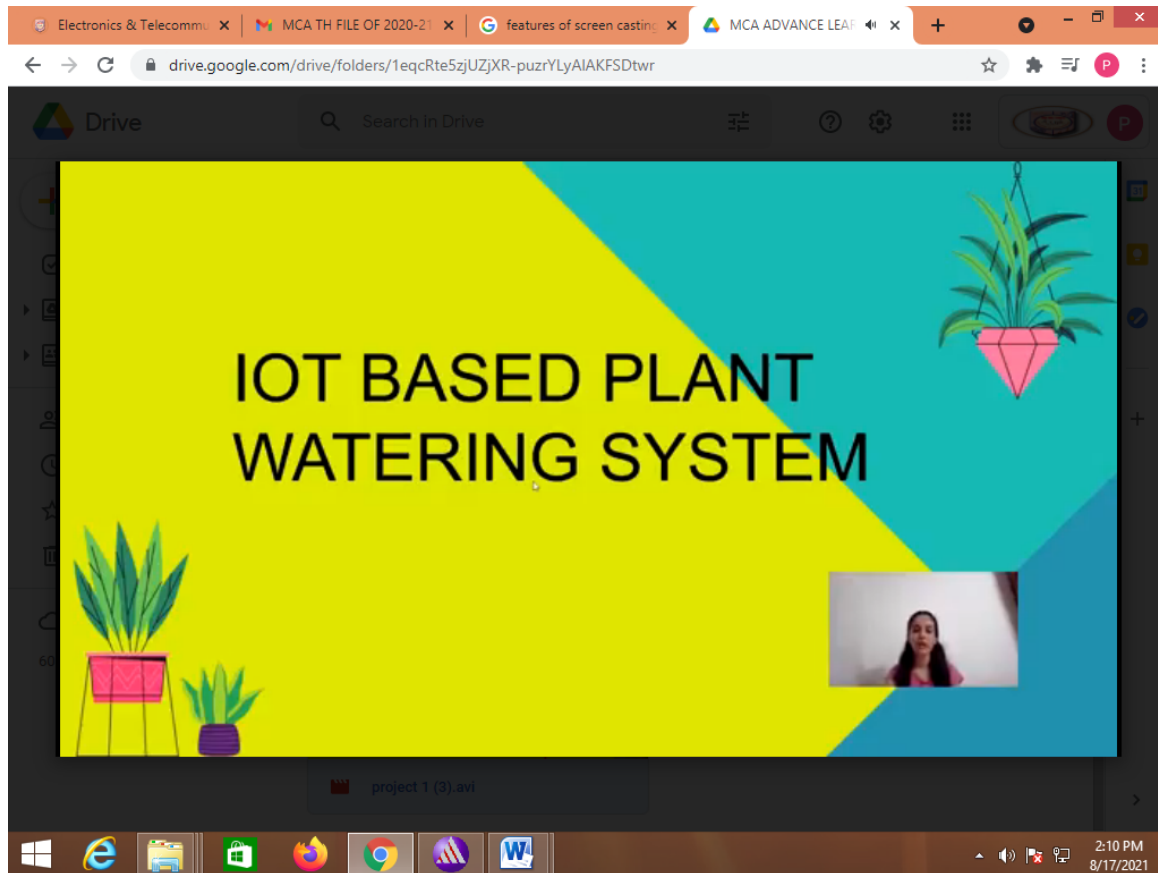
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2020-21**

Outcome: This video can be uploaded on youtube or on drive links or on website so that other students can watch it any time and learn the concept. In this subject students made video on presentation and demonstration for mini-projection of MCA .

Video is an efficient and memorable way to deliver information to students of all ages. But having students create video projects themselves is also a great way to help them actively engage with subject matter learn from one another. This is best option for peer-to-peer learning.





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2020-21

The screenshot displays a video player window showing a circuit diagram titled "CIRCUIT DIAGRAM". The diagram illustrates a system where a soil moisture sensor is connected to an ESP8266 Wi-Fi module. The ESP8266 module is also connected to a K-109 5V Relay Module. The relay module is connected to a DC Motor, which is labeled as a "DC Motor as Water Pump". A 9V battery is shown connected to the system. The video player interface includes a progress bar at 3:34 / 7:51, a search bar, and a Windows taskbar at the bottom with icons for Edge, File Explorer, Teams, Firefox, Chrome, VLC, and Word. The system tray shows the time as 2:11 PM on 8/17/2021.



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2020-21

The screenshot displays the ActivePresenter software interface. The main window shows a presentation slide with the following text:

BASIC IDEA

Basically this is soil moisture monitoring system, which detects if the moisture content in the soil is above or below a certain satisfactory threshold value. If it goes below a certain critical point, it is time to water the plant until the soil surrounding the plant is moist enough. An arrangement of a 1-Channel relay and Submersible Pump is used to control the watering mechanism.

The interface includes a top menu bar with options like Home, Insert, Questions, Design, Transitions, Animations, Export, View, and Help. Below the menu is a toolbar with various icons for editing and presentation control. A timeline at the bottom shows the duration of the presentation, with a play button and a progress indicator. The Windows taskbar at the bottom shows the system clock at 19:00 on 07-06-2021.



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Name of Faculty: Shubhangi Mangesh Verulkar

Sub: Microcontroller and Applications

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- Demo how to use an application

SAMPLE VIDEO LINKS:

Link 1: <https://drive.google.com/drive/folders/1eqcRte5zjUZjXR-puzrYLyAlAKFSDtwr>

Link 2: <https://drive.google.com/drive/folders/1eqcRte5zjUZjXR-puzrYLyAlAKFSDtwr>



Excelssior Education Society's

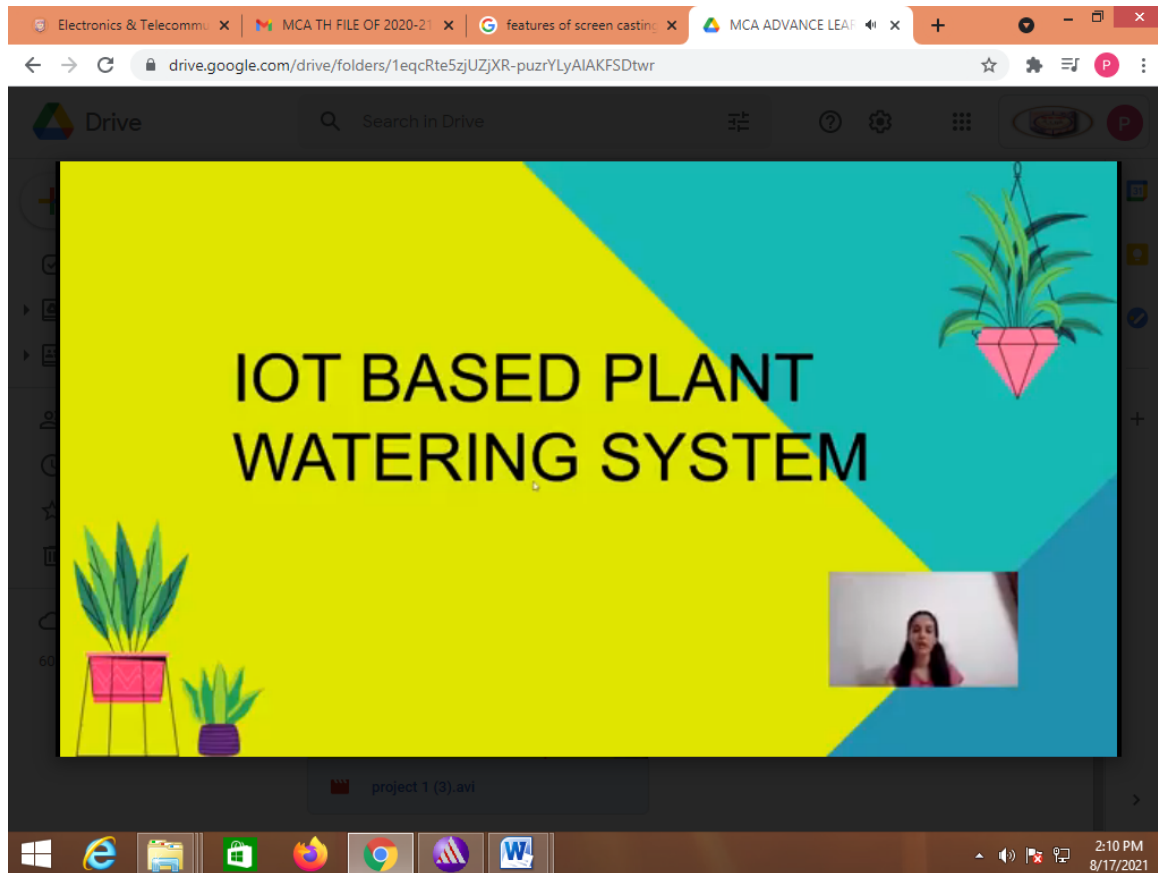
K.C. College of Engineering and Management Studies and Research

Mith Bunder Road, Near Hume Pipe, Kopri, Thane (E)-400603

**DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION
2020-21**

Outcome: This video can be uploaded on youtube or on drive links or on website so that other students can watch it any time and learn the concept. In this subject students made video on presentation and demonstration for mini-projection of MCA .

Video is an efficient and memorable way to deliver information to students of all ages. But having students create video projects themselves is also a great way to help them actively engage with subject matter learn from one another. This is best option for peer-to-peer learning.





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The screenshot displays a video player interface showing a circuit diagram titled "CIRCUIT DIAGRAM". The diagram illustrates a system where a soil moisture sensor is connected to an ESP8266 Wi-Fi module. This module is interfaced with a K-109 5V Relay Module, which in turn controls a DC Motor acting as a water pump. A 9V battery is used as the power source for the system. The video player shows the video is at 3:34 / 7:51. The Windows taskbar at the bottom includes icons for Edge, File Explorer, Teams, Firefox, Chrome, VLC, and Word, with the system clock showing 2:11 PM on 8/17/2021.



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DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION

2020-21

The screenshot displays the ActivePresenter software interface. The main window shows a presentation slide with the following text:

BASIC IDEA

Basically this is soil moisture monitoring system, which detects if the moisture content in the soil is above or below a certain satisfactory threshold value. If it goes below a certain critical point, it is time to water the plant until the soil surrounding the plant is moist enough. An arrangement of a 1-Channel relay and Submersible Pump is used to control the watering mechanism.

The interface includes a top menu bar with options like Home, Insert, Questions, Design, Transitions, Animations, Export, View, and Help. Below the menu is a toolbar with various icons for editing and presentation control. A timeline at the bottom shows the duration of the presentation, with a play button and a progress indicator. The Windows taskbar at the very bottom shows the system tray with the date 07-06-2021 and time 19:00.



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**DEPARTMENT OF ELECTRONICS &
TELECOMMUNICATION
2020-21**

Name of Faculty: Ms. Sushma Kore

Sub: Computer Communication Network

Class: T.E.EXTC

SEM: VI

Methodology followed: Google meet, Google classroom, ppt.

Difficulty faced: Student faced difficulty sometime internet issues, presentation of models.

New method identified: Video making

Activity report: Activity given to student is to write a report on new trends in networking communication.

Reports use features such as tables, graphics, pictures, voice, or specialized vocabulary in order to persuade a specific audience to undertake an action or inform the reader of the subject at hand. Some common elements of written reports include headings to indicate topics and help the reader locate relevant information quickly, and visual elements such as charts, tables and figures, which are useful for breaking up large sections of text and making complex issues more accessible.

Report writing can provide learners a student-centered and engaging learning experience in both distance and traditional learning settings.

SAMPLE VIDEO LINKS:

Link 1: <https://drive.google.com/drive/folders/1GqpYfl9Q8982rOoWiRMpgy1ZWu5erH61>

Outcome: Report gives consolidated & updated information. ...

1. Report as a means of internal communication. ...
2. Report facilitates decision making and planning. ...
3. Report discloses unknown information. ...
4. Report gives Information to employees. ...
5. Report gives reliable information.

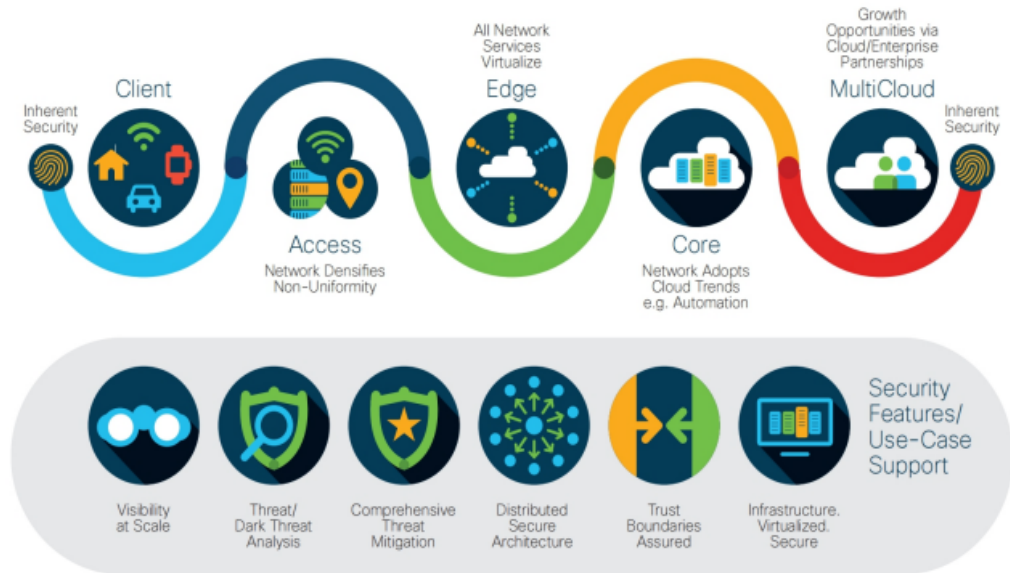


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The five focus areas for security innovation and thought leadership are:

1. The architecture and trust boundaries detailing the threat surface (now and tomorrow) of 5G and IoT
 - a. Where the Enterprise meets the 5G slice
 - b. Where SP IT meets 5G
2. Technology trends and architectures impacting how the 5G network is secured
3. Visibility at Scale



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2020-21**

The screenshot displays the ActivePresenter software interface. The main window shows a presentation slide with the following text:

BASIC IDEA

Basically this is soil moisture monitoring system, which detects if the moisture content in the soil is above or below a certain satisfactory threshold value. If it goes below a certain critical point, it is time to water the plant until the soil surrounding the plant is moist enough. An arrangement of a 1-Channel relay and Submersible Pump is used to control the watering mechanism.

The interface includes a top menu bar with options like Home, Insert, Questions, Design, Transitions, Animations, Export, View, and Help. Below the menu is a toolbar with various icons for editing and presentation control. A timeline at the bottom shows the duration of the presentation, with a play button and a progress indicator.



K.C. College of Engineering & Management Studies & Research
Mith Bunder Road, Kopri, Thane (E)
Department of Electronics & Telecommunication

(2020-21)

Name of Faculty: Sumita Gupta

Sub: Digital VLSI Design,

Class: T.E.EXTC SEM:VI

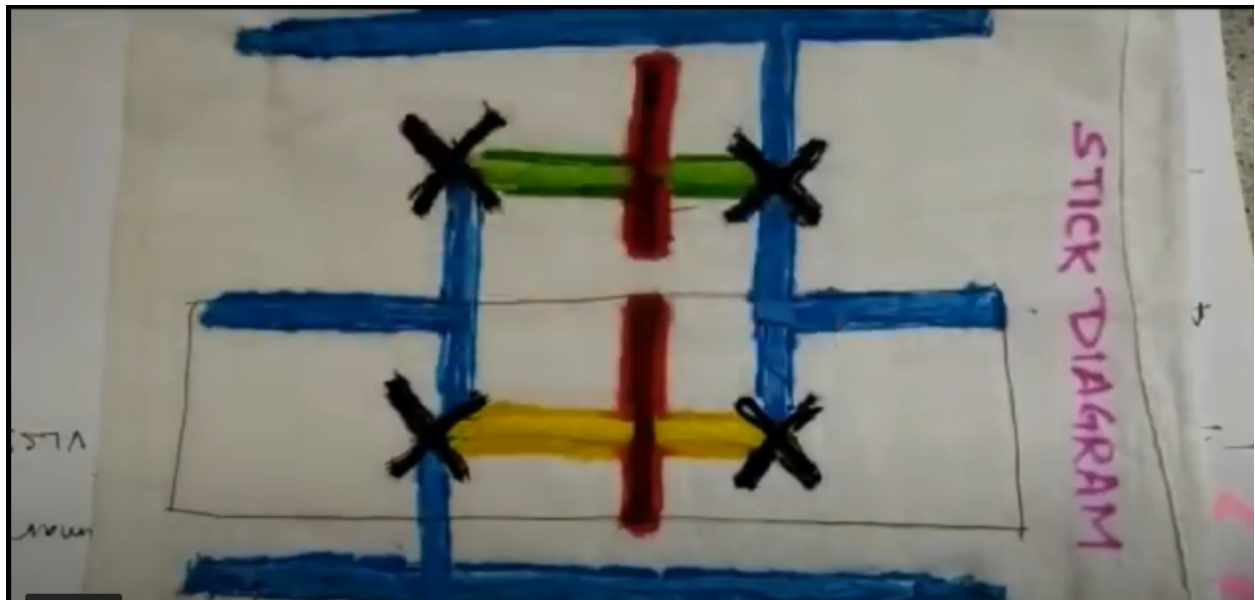
Methodology followed: White board teaching, ppt,Googlemeet ,Google classroom.

Difficulty faced: DVLSI Students were having problems in designing as their prerequisite concepts were not clear

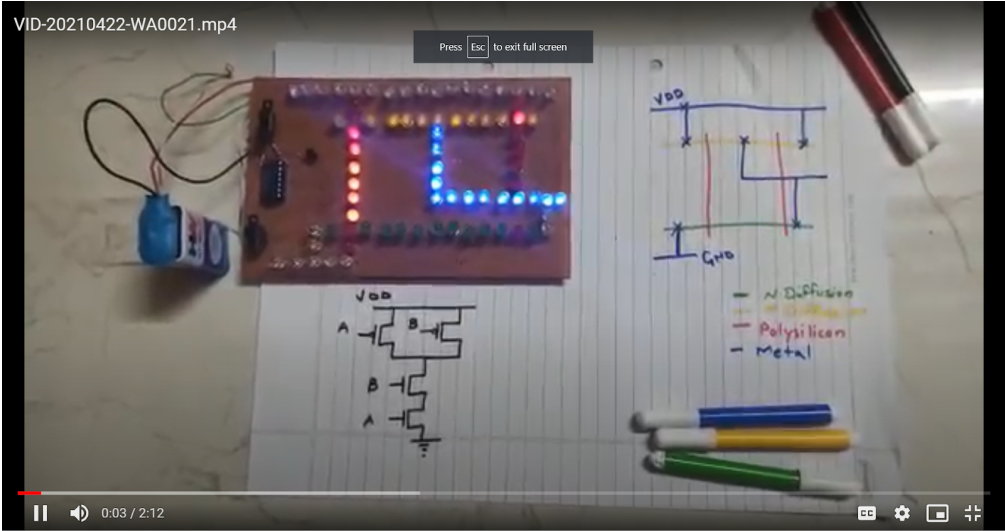
New method identified : Creative layout Modelling

Activity report: Video presentation of IC fabrication & layouts were shown to the students for clearing the concepts of theoretical as well as practical understanding of various techniques in VLSI & creative layout modelling was done by the students in a group of two they have implement the layout (2D or 3D)of various CMOS circuits by clay,pipe,wire. Straw, ribbon etc

Outcome: This provided the students with the knowledge of explaining the topic in short & concise manner . With this activity students were encouraged to present their study in different presentation competition



Press Esc to exit full screen

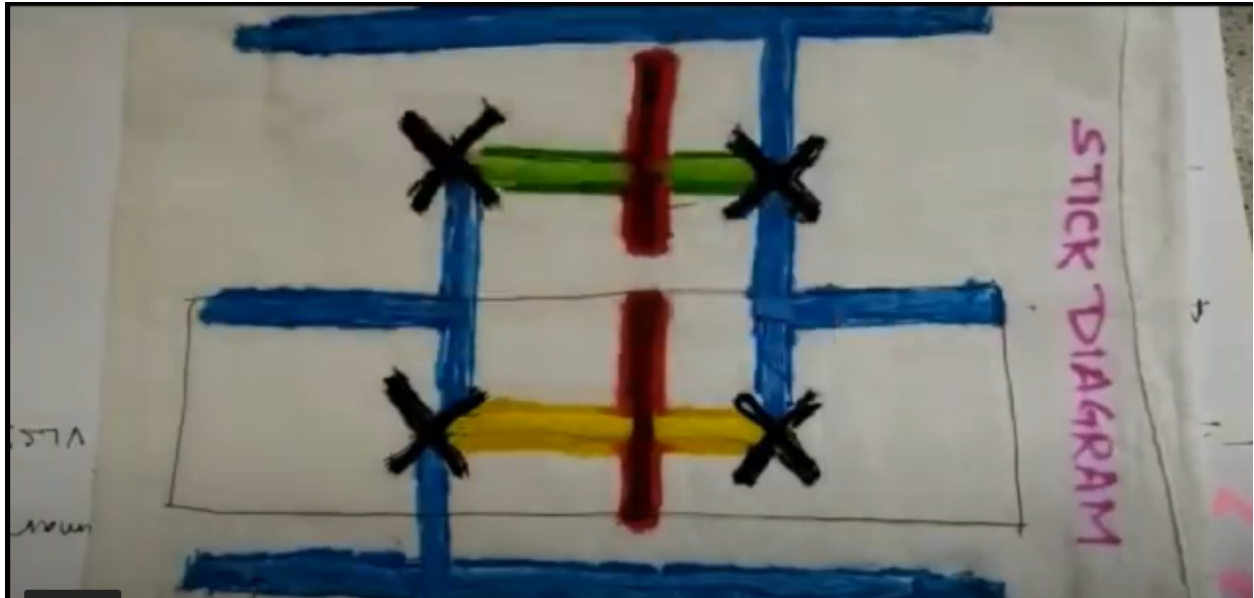


0:03 / 2:12

class-list (2021-04-...)

Show all





VID-20210422-WA0021.mp4

Press **Esc** to exit full screen

- N-Diffusion
 - P-Diffusion
 - Polysilicon
 - Metal

VDD

GND

A B

B A

A B

0:03 / 2:12

class-list (2021-04-...csv)

Show all



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Mith Bunder Road, Near Hume Pipe, Kopri, Thane (E)-400603

**DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION
2020-21**

Name of Faculty: Purnima Machhindra Vadak

Sub: Microprocessors and Peripheral Interfacing

Class: T.E SEM: V

Methodology followed: Google meet, Google classroom

Difficulty faced: In Microprocessor remembering the big diagram of architecture, long instruction set is difficult by reading or by hearing.

New method identified: Some trick to remember and understand the difficult or lengthy topics like a song, a poem or a mind map can be made by the students to understand in their own way.

Activity report: Self learning is also one of the technique which can be effectively used after the guidance by the subject teacher. Even after the understanding of the topic sometimes remembering it till the exam or for longer duration is sometimes a problem with big architecture diagram etc. Students were advised to find out a trick in their way to remember and understand

A major benefit of this technique is that **the students know their interest and technique to understand better and remembering it through a Mind map, song or a story also helps in quick revision during exam time.**

Outcome: The understanding of topic became more interesting. Quick revision through that trick is possible

Sample link:

1. <https://drive.google.com/file/d/1R7uPOHEySNJ42A8knHmR249KN3xwe63r/view?usp=sharing>



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Department of Electronics and Telecommunication

A.Y. 2019-20

Sr.No.	Name of faculty	Sem	Class	Subject	Methodology used
1	Mr. Hasib Shaikh	VI	T.E.EXTC	Database Management System	Poster Making
2	Mr. Hasib Shaikh	VI	T.E.EXTC	Database Management System	Advance topic Presentation
3	Mrs. Anupama Chaurasia	VIII	B.E. EXTC	RF Design	Expert lecture and industrial visit
4	Ms. Aarti Bakshi	V	T.E.EXTC	Neural network and fuzzy logic	PowerPoint Presentation by students
5	Ms. Aarti Bakshi	VI	T.E.EXTC	Image processing and Machine vision	PowerPoint Presentation on Image processing by students



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Department of Electronics and Telecommunication

A.Y. 2020-21

Sr.No.	Name of faculty	Sem	Class	Subject	Methodology used
1	Ms. Purnima Vadak	IV	S.E. EXTC	Principles of communication Engineering	Mind mapping Activity
2	Ms. Purnima Vadak	IV	S.E. EXTC	Principles of communication Engineering	PPT making and presenting after listening to a reference video on that particular topic in group.
3	Ms. Sumita Gupta	III	S.E.EXTC	EDC	Innovative Video presentation for any topic related to EDC in a group
4	Ms. Sushma Kore	VI	T.E.EXTC	Computer Communication Network	Video making
5	Ms. Aarti Bakshi	V	T.E.EXTC	Digital communication	Case study
6	Ms. Aarti Bakshi	VI	T.E.EXTC	Image processing and Machine vision	PowerPoint Presentation on Image processing by students
7	Dr. Baban U. Rindhe	VIII	B.E.EXTC	Wireless network	PowerPoint Presentation on Advances In Wireless
8	Mrs. Anupama Chaurasia	VI	T.E.EXTC	Antenna and Radio wave Propagation	Mind Mapping, Crossword Puzzle, and Guest Lecture
9	Mrs. Anupama Chaurasia	V	T.E.EXTC	Electromagnetic Engineering	Scrambled Words, Illustration Using Interactive Simulations, Do and Learn Activity, Poster Making



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Department of Electronics and Telecommunication

10	Ms.Shubhangi Mangesh Verulkar	VI	T.E.EXTC	Microcontroller and Applications	Screen Casting or Video making
11	Ms.Sumita Gupta	VI	T.E.EXTC	Digital VLSI Design	Creative layout Modeling
12	Ms.Paurnima Machhindra Vadak	V	T.E.EXTC	Microprocessors and Peripheral Interfacing	Some trick to remember and understand the difficult or lengthy topics like a song, a poem or a mind map can be made by the students to understand in their own way
13	Mrs. Anupama Chaurasia	VIII	B.E. EXTC	RF Design	Guest Lecture to understand the Applications of High Frequency Amplifiers, Practice Quiz on difficult modules
14	Ms.Sumita Gupta	VII	B.E. EXTC	Internet Communication Engineering,	Role Model Video activity
15	Mrs. Anupama Chaurasia	VII	B.E.EXTC	Microwave Engineering	Video making, Crossword Puzzle



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**DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION
2020-21**

Name of Faculty: Rajiv Iyer

Sub: Big Data Analytics

Class: B.E.EXTC SEM:VII

Methodology followed: Traditionally Big Data analysis practicals are conducted using JAVA and Hadoop tools and there is huge requirements in terms of hardware to process big data. Also because of nationwide lockdown students did not have access to computing facilities of the institute.

In order to overcome these problems Google cloud platform was used through qwiklabs platform. This gives temporary cloud credentials to perform cloud based experiments including that of big data on Google cloud platform.

Difficulty faced: Students were using the platform for the first time. As with learning any new tool this platform has its own learning curve. Demonstrations of each practical and explanation helped them in using the platform effectively reinforcing the concepts learnt in class.

New method identified : New platform for performing practicals identified. This does not require any installations. So there was no specific hardware or disc space requirement for computer which proved a boon to students particularly during lockdown when they did not have access to college computing facilities.

Outcome: New tool of cloud computing platform which is widely used in the industry was introduced to students which improved their industry readiness.

<https://www.qwiklabs.com/catalog?keywords=data>



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**DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION
2020-21**

The screenshot shows the Qwiklabs website interface. At the top, there is a navigation bar with 'Qwiklabs', 'Home', and 'Catalog' links. On the right, there are 'Join' and 'Sign in' buttons. The main heading is 'Jumpstart your cloud career', followed by a sub-heading: 'Not sure where to start? Find featured learning below. We give you temporary credentials to actual cloud resources, so you can learn the cloud using the real thing.'

The 'Featured Learning' section displays five learning modules:

Module Type	Module Title	Difficulty Level	Rating
QUEST	Migrate MySQL data to Cloud SQL using Database Migration Service	Advanced	
LAB	Troubleshooting Workloads on GKE for Site Reliability...	Fundamental	★★★★☆
QUEST	Google Workspace for IT Administrators	Fundamental	
LAB	Protect and Recover Compute Engine Instances with Ac...	Expert	★★★★★
QUEST	Flutter Development	Fundamental	

Fig: Snapshot of the platform



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DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION
2020-21

The screenshot shows a web browser window displaying the YouTube channel page for 'KC College'. The browser's address bar shows the URL 'youtube.com/channel/UCr-rHF6bp_HJKgTWFmUcB0w/videos'. The YouTube interface includes a search bar with the text 'kc college 04 electromagnetic', a navigation menu on the left, and a main content area. The channel name 'KC College' is displayed with a logo and '4 subscribers'. Below this, there are tabs for 'HOME', 'VIDEOS', 'PLAYLISTS', 'CHANNELS', 'DISCUSSION', and 'ABOUT'. The 'VIDEOS' tab is active, showing a grid of video uploads. The first row of videos includes: 'MODERN ANTENNAS AND IT'S PROPERTIES.' (3:39, 29 views), 'CARCINOGENICITY OF RADIO FREQUENCY OF...' (6:08, 25 views), 'EM forces' (1:49, 14 views), 'STUDY OF ELECTROMAGNETIC FREE...' (6:10, 28 views), and 'The Electromagnetic Calorimeter Of the HERA-B...' (3:34, 41 views). The second row shows five more video thumbnails with durations ranging from 4:29 to 5:57. The Windows taskbar at the bottom shows the system tray with the date '17-09-2021' and time '16:27'.

Fig: Snapshot of the You Tube channel



K.C. College of Engineering & Management Studies & Research
Mith Bunder Road, Kopri, Thane (E)
Department of Electronics & Telecommunication

(2020-21)

Name of Faculty: Sumita Gupta

Sub: Internet Communication Engineering,

Class: B.E. EXTC SEM: VII

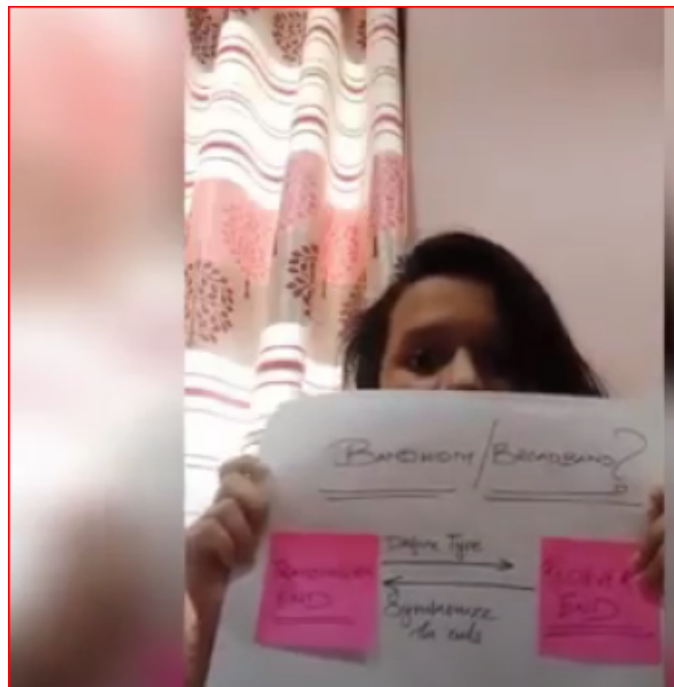
Methodology followed: Black Board teaching, ppt

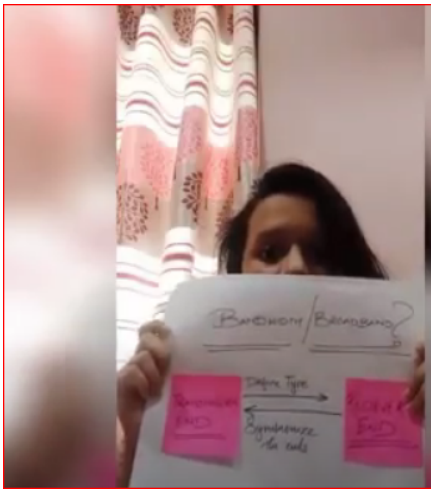
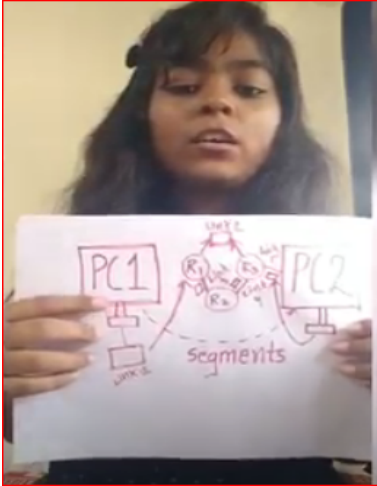
Difficulty faced: Student faced difficulty in understanding prerequisite concepts.

New method identified: Role Model Video activity

Activity report: Students in a group of 3or 4 were asked to prepare a video on Topics related to ICE & give presentation

Outcome: This provided the students with the knowledge of explaining the topic in creative manner Students have used various styles to prepare video & presentation. With this activity students were encouraged to present their study in different presentation competition. Hence their team work & communication skill were also improved





-
- Facilitates the user to use the service
 - develop network based application
 - concerned with error
- At the bottom left of the video frame, there is a timestamp: :57 / 8:42



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DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION 2020-21

Name of Faculty: Mrs. Anupama Chaurasia

Sub: Microwave Engineering

Class: B.E.EXTC SEM: VII

Methodology followed: Google Class Room Teaching, Written Assignments, Remedial lectures

Difficulty faced: Students do not get the exact understanding of the topic through regular online or offline classroom teachings and basic written subject assignments.

New method identified: Video making, Crossword Puzzle

Video making

Activity report: Video making can provide learners a student-centered and engaging learning experience in both distance and traditional learning settings. Video making enable teachers to create a digital recording of any instructional activity performed on a computer screen, and they can be used as learning resources, learning tasks, and learning support.

A major benefit of video making is that the viewer can watch the screencast at a time when it's best for them because learning doesn't always take place in an academic setting. Additionally, the viewer can absorb the information at their own pace.

The students can record a video on explaining the steps of difficult numerical or summarizing a concept.

Outcome: This video can be uploaded on YouTube or on drive links or on website so that other students can watch it any time and learn the concept.

Video is an efficient and memorable way to deliver information to students of all ages. But having students create video projects themselves is also a great way to help them actively engage with subject matter learning from one another. This is best option for peer-to-peer learning.



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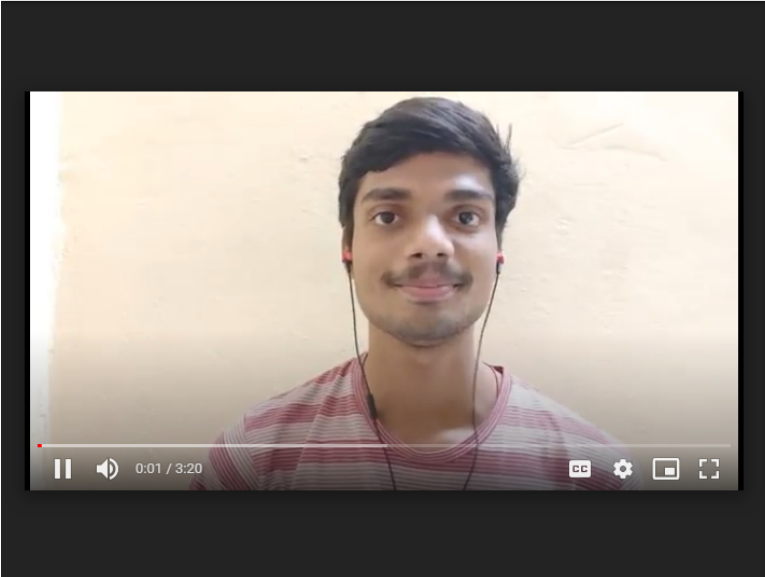
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**DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION
2020-21**

classroom.google.com/g/tg/MTE1MzUxNjA1NTQw/MTc0NzcyNzQ1MjEy#u=NTUwNTY3NDgyNjda&t=f

8 minute Video on any one concept of Assignment Questions or Randomly from the sylla...

Hariharan Nadar **Turned in** Done late **Return**



Files
Turned in on Nov 26, 2020, 10:46 AM
See history

Hariharan_Video_Ass...

Grade
/10

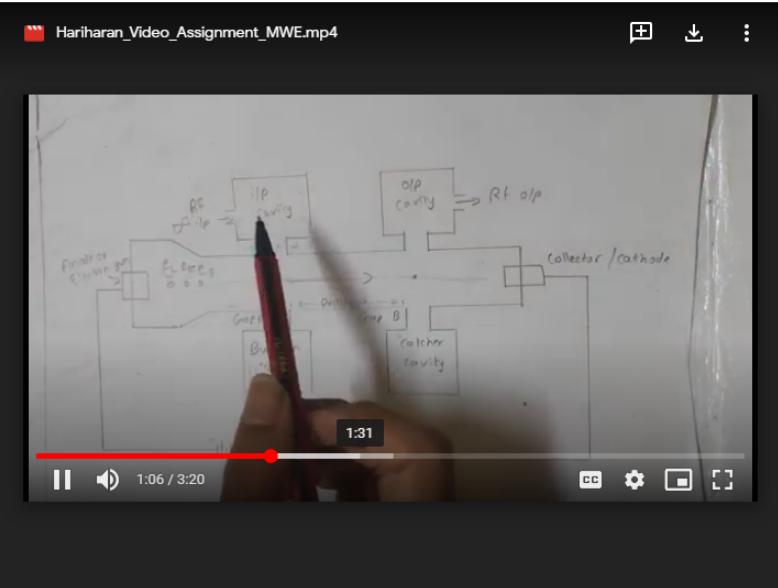
Private comments
Add private comment...
Cancel Post

classroom.google.com/g/tg/MTE1MzUxNjA1NTQw/MTc0NzcyNzQ1MjEy#u=NTUwNTY3NDgyNjda&t=f

8 minute Video on any one concept of Assignment Questions or Randomly from the sylla...

Hariharan Nadar **Turned in** Done late **Return**

Hariharan_Video_Assignment_MWE.mp4



Files
Turned in on Nov 26, 2020, 10:46 AM
See history

Hariharan_Video_Ass...

Grade
/10

Private comments
Add private comment...
Cancel Post



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2020-21**

Crossword Puzzle

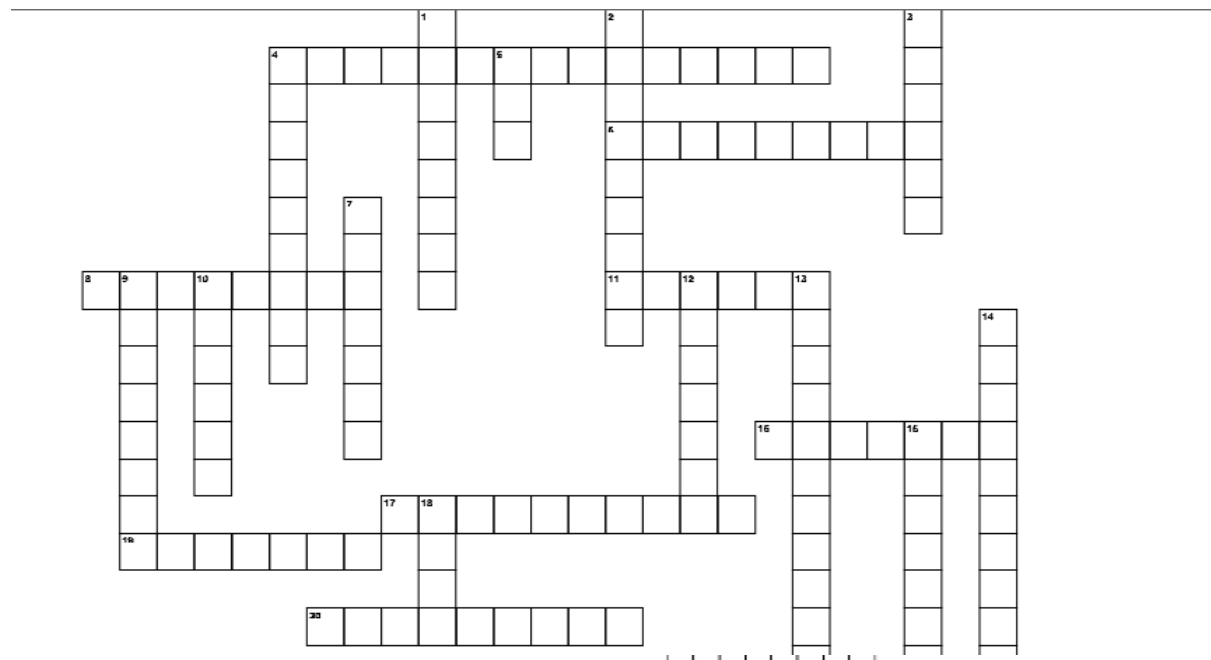
Activity Report: Crossword Puzzle is technique to brainstorm and come with the correct word identification

Outcome: This activity helped Students to remember key words and their definition

CROSSWORD PUZZLES

MICROWAVE ENGINEERING

Name: Anupama



Across

- 4. OTHER NAME TO FEATURES
- 6. THE WAVE STARTS TO OSCILLATE IN THIS
- 8. THE ONE WHICH BLOCKS REFLECTED WAVE
- 11. THE QUANTITY THAT HAS MAGNITUDE AND DIRECTION
- 15. WHICH REQUIRES AN EXTERNAL POWER SOURCE
- 17. A GRAPHICAL CALCULATOR
- 19. THE SCIENTIST WHO DEVELOPED THE WAVE EQUATION
- 20. A HOLLOW METALLIC TUBE
- 21. A HOLLOW SPACE

Down

- 1. FOR MAXIMUM POWER TRANSFER ITS REQUIRED
- 2. VERY SMALL WAVE
- 3. COMBINATION OF CONVENTIONAL RESULTS IN
- 4. THIS MAKES THE SIGNAL TO FLOW IN CLOCKWISE MANNER
- 5. DEVICE WHICH RESEMBLES AN ALPHABET
- 7. HELPS TO ROTATE THE ELECTRIC FIELD
- 9. THE FREQUENCY RANGE
- 10. concentrated at singular points
- 12. THE DEVICE THAT CONNECTS TWO PARTS
- 13. a TYPE OF WAVEGUIDE
- 14. THE DEVICE WHICH IS RESPONSIBLE FOR FADING THE WAY
- 16. OPPOSITON OFFERED BY A MEDIUM
- 18. THE WAY WAVE GENREATES FIELD PATTERN



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DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION
2020-21

classroom.google.com/g/tg/MTE1MzUxNjA1NTQw/MTg4NzI5NjQwMDg1#u=NTUwNjcwNjc3ODRa&t=f

Crossword Puzzle

Saurabh Khatale Turned in Done late Return

crossword.png

Files
Turned in on Oct 8, 2020, 6:17 AM
See history

crossword.png

Grade
/25

Private comments
Add private comment...
Cancel Post

classroom.google.com/g/tg/MTE1MzUxNjA1NTQw/MTg4NzI5NjQwMDg1#u=NTUxNTcwNDI1ODZa&t=f

Crossword Puzzle

Rohit Kamble Turned in Done late Return

puzzle

Files
Turned in on Oct 7, 2020, 10:49 AM
See history

puzzle

Grade
/25

Private comments
Add private comment...
Cancel Post

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DEPARTMENT OF ELECTRONICS & TELECOMMUNICATION 2020-21

Name of Faculty: Mrs. Anupama Chaurasia

Sub: RF Design

Class: B.E.EXTC SEM: VIII

Methodology followed: Google Class Room Teaching, Written Assignments, Remedial lectures

Difficulty faced: Students do not get the exact understanding of the topic through regular online or offline classroom teachings and basic written subject assignments.

New method identified: Guest Lecture to understand the Applications of High Frequency Amplifiers, Practice Quiz on difficult modules

Guest lecture

Activity Report: To know the concept of Antenna and RF design of amplifiers and mixers in the field of satellite based navigations also all the latest technologies and trends used for the same the Guest lecture was arranged on Satellite based Navigation Systems.

Speaker: Dr. B. P. Chaniara, Ex Senior Scientist, ISRO

Contents covered:

1. What is Navigation
2. Evolution in Navigation System
3. Types of Navigation Systems and their comparisons
4. Current trends in Satellite Based Navigation Systems

Outcome: Students got acquainted with the concept of Antenna and RF design of amplifiers and mixers in the field of satellite based navigations also all the latest technologies and trends used for the same

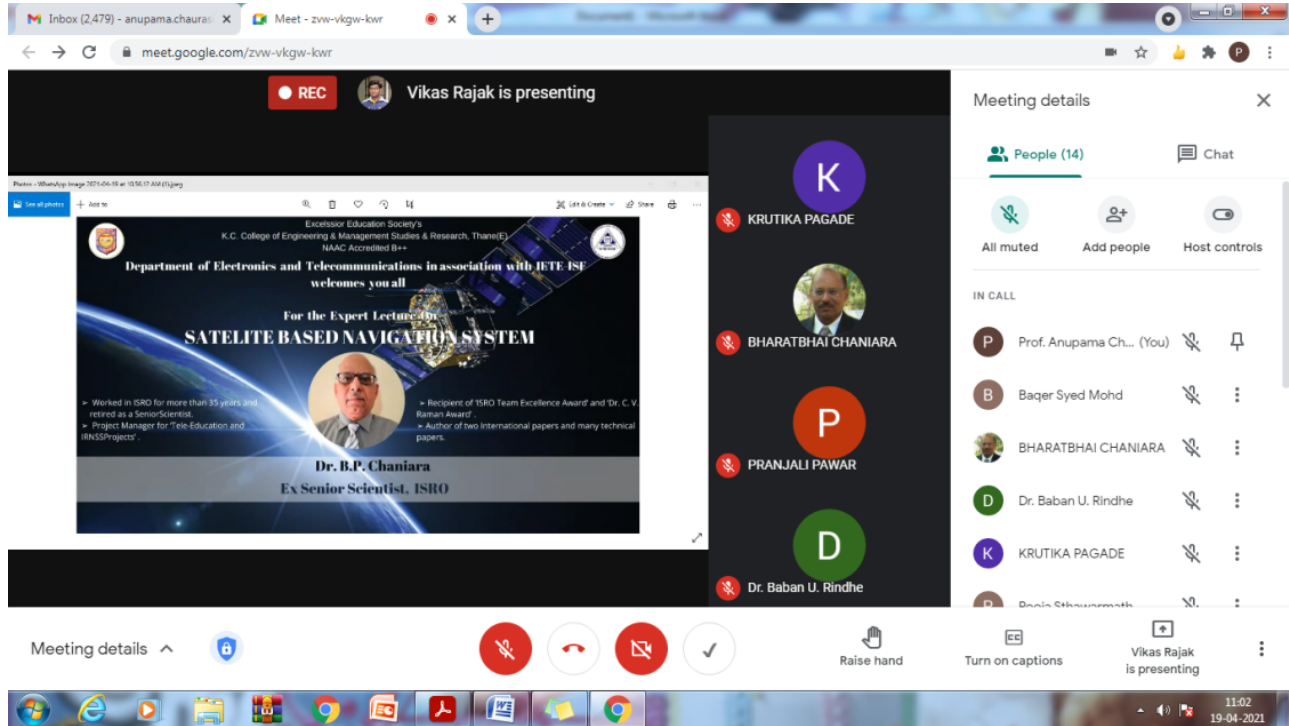


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2020-21



Practice Quiz

Activity Report: Quiz Sessions using Google Forms were conducted to revise the difficult topics in the modules

Outcome: This activity helped Students to remember key words, their definition and some important numerical

RFD 2020-21 practice quiz Module 1

Your email will be recorded when you submit this form
Not anupama.chaurasia@kccemsr.edu.in? [Switch account](#)

* Required

Roll Number *

Your answer _____

Name *

Your answer _____

Which filter designing method is more versatile for different requirements * 1 point

IL method

Image parameter method