



LAKSHMI NARAIN COLLEGE OF TECHNOLOGY & SCIENCE, BHOPAL

Kalchuri Nagar, Raisen Road, P.O- Kolua, Bhopal - 462022 (M.P)

Department of Electronics and Communication Engineering LNCTS Bhopal

Publicity Report of August 2021

- An **Online In-house Internship** session organised by Department of EC LNCTS on **06-08-2021 10:30 to 11:30AM**) for the students of **EC 5thSem LNCTS** Students. The session was too Interactive, Informative and interesting for students. The session was delivered successfully under the guidance of **Dr. Soheb Munir (HOD EC LNCTS)** coordinated by **Dr. Aparna Gupta (Professor)**.

ISTE & CSI CHAPTER LNCTS

Webinar on:

“QUALITY EDUCATION, ACCREDITATION AND TEACHER DEVELOPMENT”

IN PERSPECTIVE OF NEP 2020

Friday, **6th** August, 2021
10:30 AM onwards

<https://bit.ly/3ibXxIw>
Meeting ID: 819 2240 4954
Passcode: 12345

COORDINATORS:
DR. SOHEB MUNIR
HOD, EC, LNCTS
DR. APARNA GUPTA

Moderator
DR. N. S. RAGHAVA
Professor, Delhi
Technological University

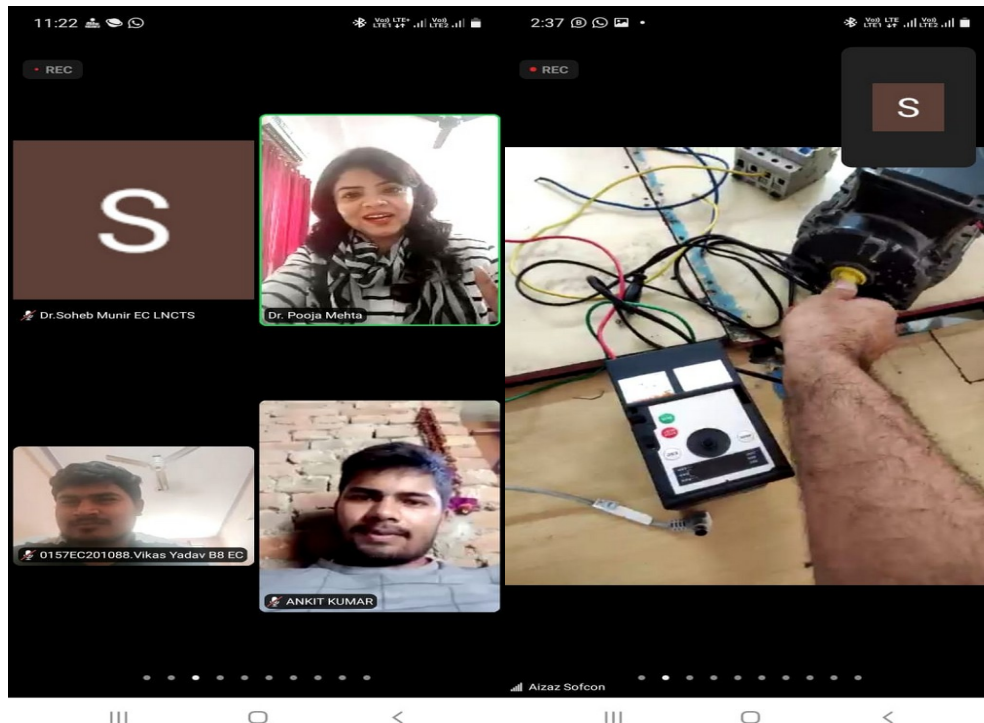
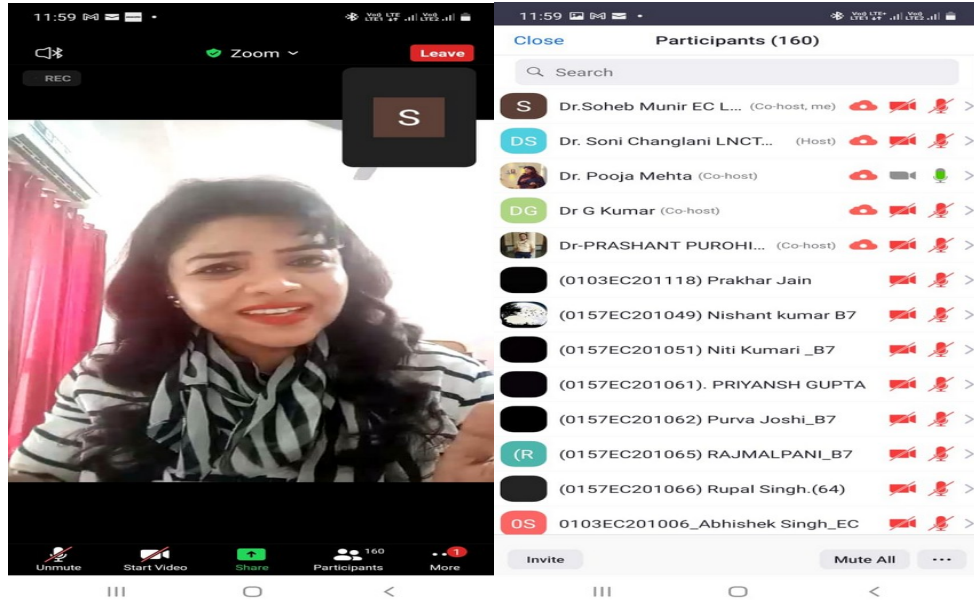
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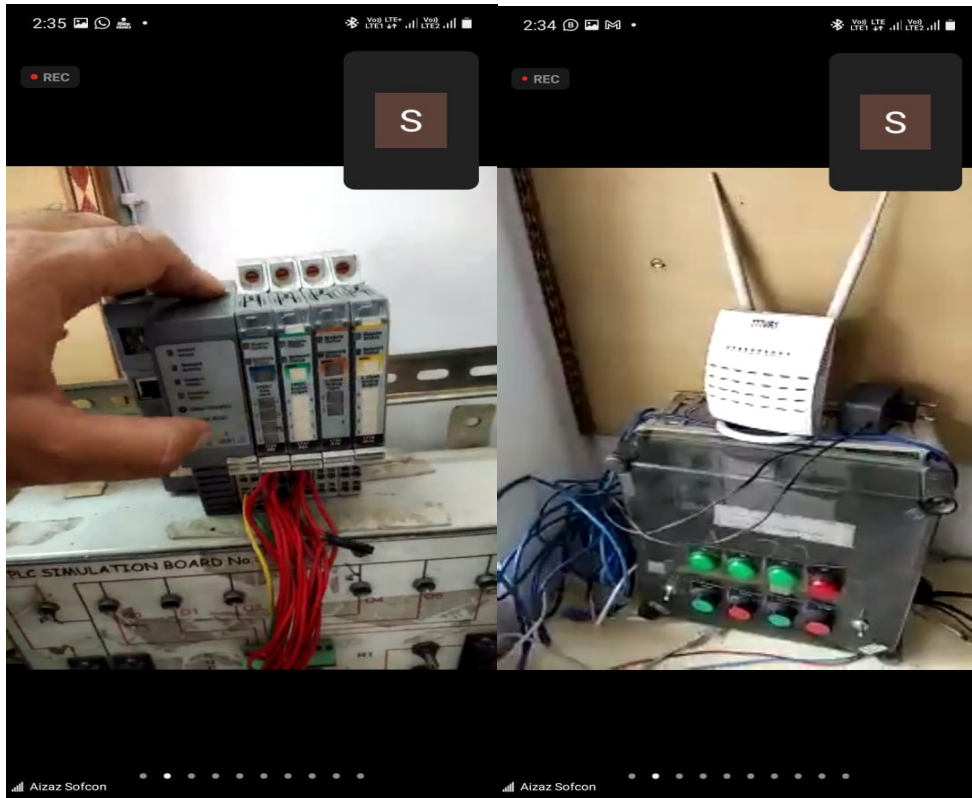
- An **Online In-house Internship** session organised by Department of EC LNCTS from **09-08-2021** to **11-08-2021 (11:30AM to 02:00 PM)** for the students of EC 1st year LNCTS Students. The session was too Interactive, Informative and interesting for students. The session was delivered successfully under the guidance of **Dr. Soheb Munir (HOD EC LNCTS)**.





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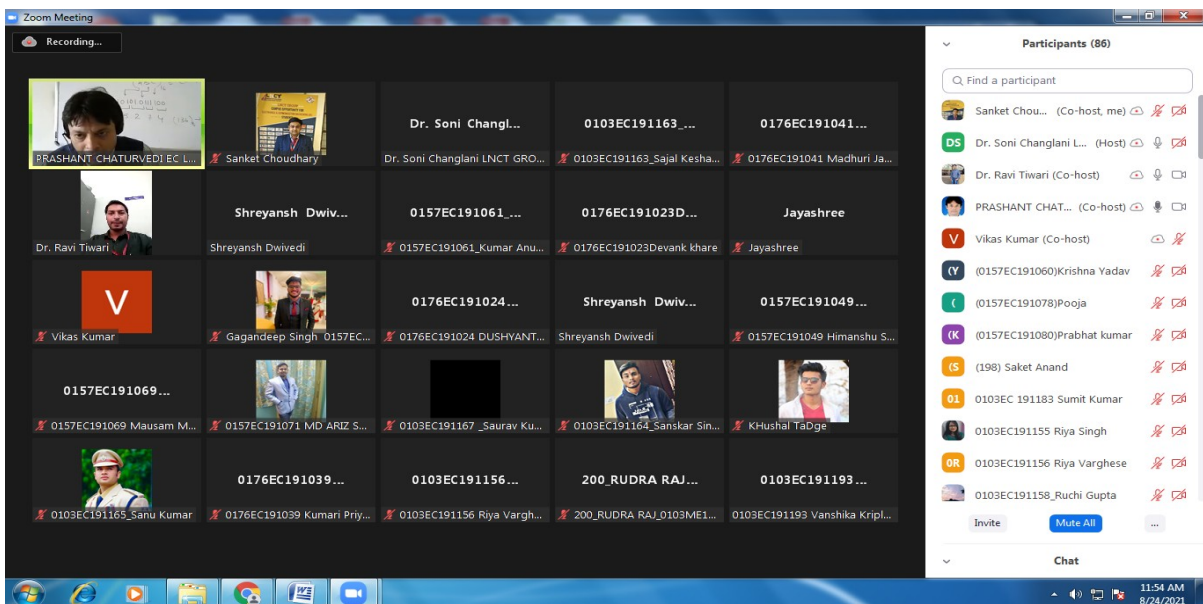
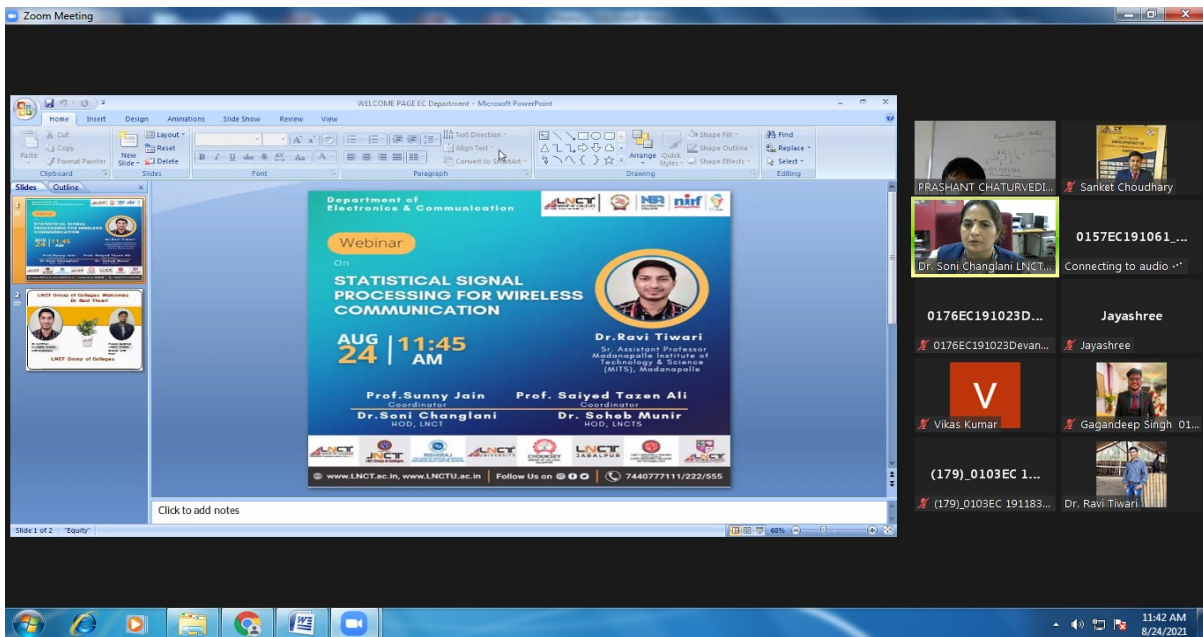




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Kalchuri Nagar, Raisen Road, P.O- Kolua, Bhopal - 462022 (M.P)

- An Online Webinar has been organised by Department of EC LNCTS on “Statistical Signal processing for wireless communication” by Dr. Ravi Tiwari, “Sr. Assistant Professor, and MITS” on Tuesday 24-08-2021 from 11:45AM to 12:45PM for the students of EC 5th semester LNCTS Students. The session was too Interactive, Informative and interesting for students which deals with the deep knowledge of wireless communication. The session was delivered successfully under the guidance of Dr. Soheb Munir (HOD EC LNCTS), Coordinated by Prof. Saiyed Tazen Ali (Assistant Professor).





Recording...

OUTLINE

1. Introduction to wireless communication
2. Evolution of Mobile Radio Communication
3. GSM Architecture Overview
4. Issues vital to cellular network
5. Heterogeneous networks
6. Mobility Management in HetNets
7. Statistical Modeling of Handover-count Measurements
8. Maximum Likelihood Estimator for Velocity Estimation in HetNets.
9. Minimum-variance-unbiased Estimate of User Velocity.
10. Bayesian MMSE Estimation of Velocity in HetNets
11. Mobility state detection (MSD)

PRASHANT CHATURV...

Sanket Choudhary

Dr. Soni Changl...

0103EC191163 ...

Dr. Soni Changlani L...

0103EC191163_Sajal ...

0176EC191041...

0176EC191041 Madh...

Dr. Ravi Tiwari

Shreyansh Dwiv...

0157EC191061_...

Shreyansh Dwivedi

0157EC191061_Kuma...

0176EC191023D...

Jayashree

0176EC191023Devan...

Jayashree

Vikas Kumar

Gagandeep Singh 01...


Recording...

WIRELESS COMMUNICATION

It involves the transmission of information over a distance without the help of wires, or any other forms of electrical conductors.

Features of Wireless Communication

- ◆ The transmitted distance can be anywhere between a few meters and thousands of kilometers.
- ◆ It can be used for cellular telephony, wireless access to the internet, wireless home networking, etc.
- ◆ Other examples of applications of radio wireless technology include GPS units, wireless computer mice, keyboards and headsets, headphones, radio receivers, satellite television, and cordless telephones.



PRASHANT CHATURV...

Sanket Choudhary

Dr. Soni Changl...

Dr. Soni Changlani L...

0103EC191163 ...

0103EC191163_Sajal ...

0176EC191041...

0176EC191041 Madh...

Dr. Ravi Tiwari



Recording... You are viewing Dr. Ravi Tiwari's screen View Options

Mobile:

- Able to move easily

Mobile Communication:


- Ability to Communicate with person who is moving

Communication

- Voice and Data

Channel

- Free space / wireless channel



9/24/2021 5

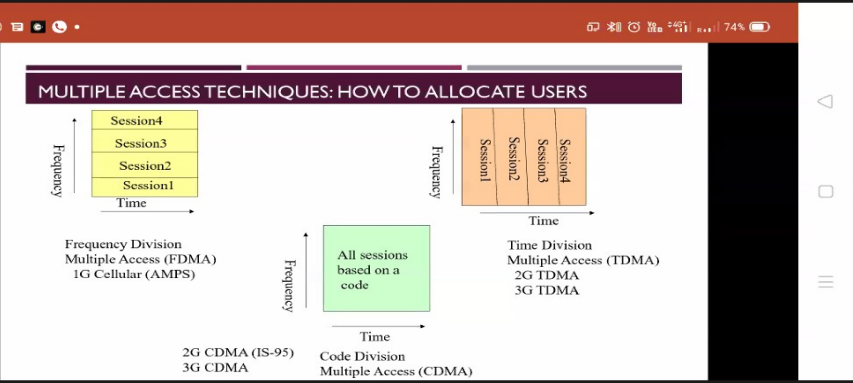
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Sanket Choudhary
Dr. Soni Changl...
Dr. Soni Changlani L...
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0176EC191041...
0176EC191041 Madh...
Dr. Ravi Tiwari

Unmute Start Video Security Participants 90 Chat Share Screen Pause/Stop Recording Breakout Rooms Reactions Apps Leave

Recording... You are viewing Dr. Ravi Tiwari's screen View Options

12:10 74%

MULTIPLE ACCESS TECHNIQUES: HOW TO ALLOCATE USERS



Frequency

Session4
Session3
Session2
Session1

Time

Frequency Division Multiple Access (FDMA)
1G Cellular (AMPS)

Frequency

Session1
Session2
Session3
Session4

Time

Time Division Multiple Access (TDMA)
2G TDMA
3G TDMA

Frequency

All sessions based on a code

Time

Code Division Multiple Access (CDMA)
2G CDMA (IS-95)
3G CDMA

PRASHANT CHATURV...
Sanket Choudhary
Dr. Soni Changl...
Dr. Soni Changlani L...
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0176EC191041...
0176EC191041 Madh...
Dr. Ravi Tiwari

Unmute Start Video Security Participants 91 Chat Share Screen Pause/Stop Recording Breakout Rooms Reactions Apps Leave



Recording...

12:10

GSM ARCHITECTURE OVERVIEW

GSM Architecture Overview

MSC – Mobile Switching Center
BSC – Base Station Controller
BTS – Base Transceiver Station
TRX – Transceiver
EIR – Equipment Identity Register
PSTN – Public Switched Telephone Network

BSS – Base Station Sub-system
HLR – Home Location Register
VLR – Visitor Location Register
AUC – Authentication Center
MSC – Mobile Station
OMC – Operations and Maintenance Center

01/10/2021

PRASHANT CHATURV...
Sanket Choudhary
Dr. Soni Changli...
Dr. Soni Changlani L...
Dr. Ravi Tiwari
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0176EC191041 Madh...
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Zoom Meeting

Recording...

12:34

MASS FUNCTION OF HANDOVER-COUNT MEASUREMENTS

CHAPTER 2

T=15s

Fig. 2.2 For $\lambda = 200 \text{ BSs/km}^2$

Fig. 2.3 For $\lambda = 1000 \text{ BSs/km}^2$

- Accuracy is lower as the PMF for different velocities are overlapped.
- PMFs are significantly separated leading to better velocity estimation.
- we observe that with increase in BS density and velocity, the PMF of handover count resembles **Gaussian and normal distribution**

24

PRASHANT CHATURV...
Sanket Choudhary
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0176EC191041 Madh...
Dr. Ravi Tiwari
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0157EC191061_Kuma...

12:34 PM
8/24/2021



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Kalchuri Nagar, Raisen Road, P.O- Kolua, Bhopal - 462022 (M.P)

- An Online Webinar has been organised by Department of EC LNCTS on “**Basics of Goods & Services Tax (GST)**” by **Mr. Mahesh Kumar Yadav, “IRS- Deputy Director, NACIN, ZC Bhopal”** on **Friday 27-08-2021** from **11:45AM to 12:45 PM** for the students of **EC 5th semester LNCTS** Students. The session was too Interactive, Informative and interesting for students which deals with the deep knowledge of GST. The session was delivered successfully under the guidance of **Dr.SohebMunir (HOD EC LNCTS)**.

The poster features the LNCT Group of Colleges logo at the top left, with the tagline "WORKING TOWARDS BEING THE BEST". To its right is the Indian Police Force emblem. Further right are accreditation logos for 28 years, NEA, NIRF, and ACTS ODLab. The main title "Basics of Goods & Services Tax (GST)" is in large red font, with "Webinar on" above it and "Organized by" below it. The organizing body is the National Academy of Customs Indirect Taxes & Narcotics, Zonal Campus Bhopal, ISTE Chapter LNCTS. The date and time are 27th August 2021, 11:45 AM Onward. A circular portrait of Shri Mahesh Kumar Yadav, IRS - Deputy Director, NACIN, ZC Bhopal, is on the right. Below his name, the coordinator is Dr. Amitbodh Upadhyaya and the co-coordinator is Dr. Soheb Munir. The bottom of the poster displays logos for various LNCT branches: LNCT Group of Colleges, JNCT, Rishiraj College of Dental Sciences and Research Centre, LNCT University, Chouksey Group of College, LNCT Jabalpur, LNCT (Bhopal) Indore, and LNCT World School. A black footer bar contains the website addresses www.LNCT.ac.in and www.LNCTU.ac.in, social media icons for Facebook, Twitter, and Instagram, and a WhatsApp number 7440777111/222/555.

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GROUP OF COLLEGES
"WORKING TOWARDS BEING THE BEST"

Webinar on
Basics of Goods & Services Tax (GST)
Organized by
**National Academy of Customs Indirect Taxes & Narcotics,
Zonal Campus Bhopal |**
ISTE CHAPTER LNCTS
27th August 2021
11:45 AM Onward

Shri Mahesh Kumar Yadav
IRS - Deputy Director,
NACIN, ZC Bhopal.

Coordinator :
Dr. Amitbodh Upadhyaya

Co-coordinator :
Dr. Soheb Munir

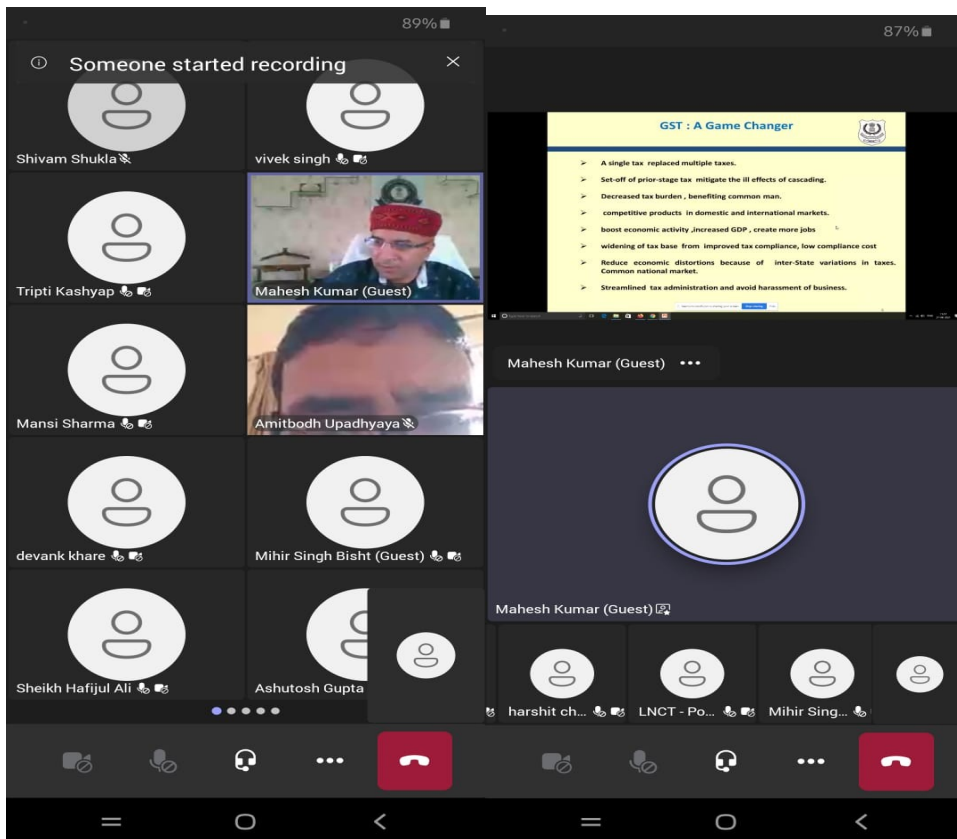
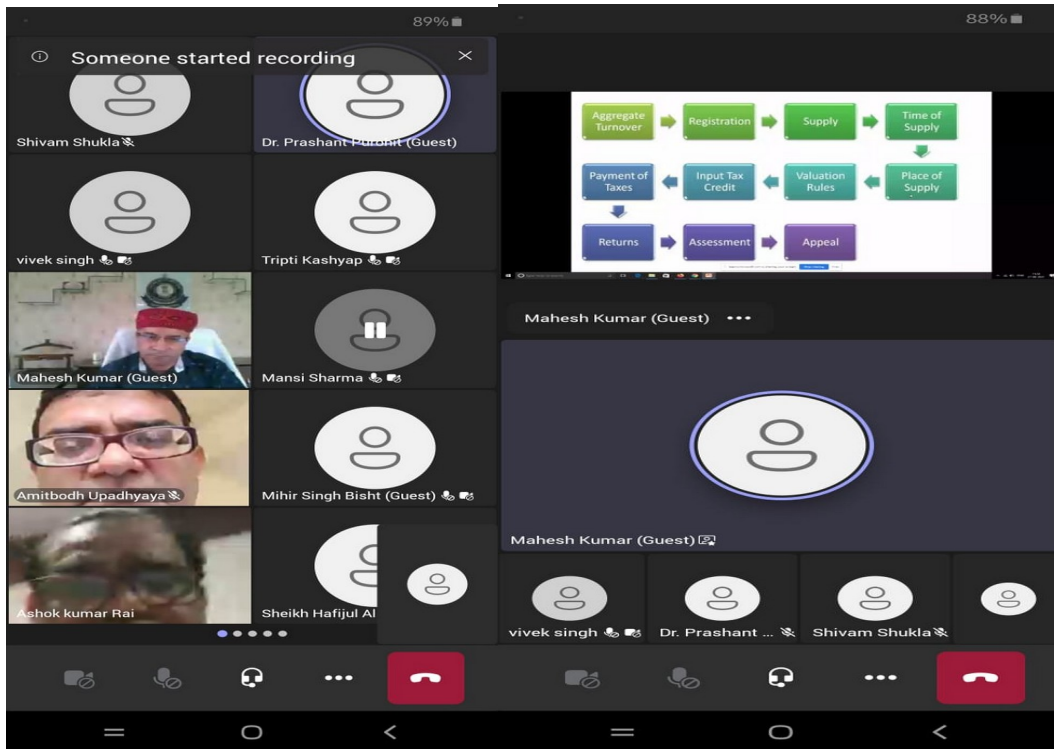
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85% 85%

GST Outreach Progra...

24:47 95 attendees

Shortcomings in the Present Indirect Tax Structure

The diagram illustrates the shortcomings of the current indirect tax system. At the center is a red circle labeled "Shortcomings in the present structure". Surrounding it are several interconnected nodes: "Complexities in administration", "Tax cascading", "Levy of Excise Duty on manufacturing point", "Complexity in determining Sales Vs Service", "Inability of States to levy tax on services", "Lack of uniformity in rules and rates", "Position of State- Local Vs Central Sates", "Interpretational issues", and "Narrow base".

The Statutory Scheme of Levy Under GST

The diagram shows the flow of GST levies. It is divided into three horizontal sections: "INTRA STATE supplies" (yellow), "INTER STATE Supplies" (green), and "CGST" (blue), "SGST" (blue), and "IGST" (blue). Arrows indicate the flow from the supply types to the respective tax levies.

Maresh Kumar (Guest) ... Maresh Kumar (Guest) ...

Maresh Kumar (Guest) Maresh Kumar (Guest)

vivek singh Dr. Prashant ... Shivam Shukla vivek singh Dr. Prashant ... Shivam Shukla

Microphone, Video, and other controls are visible at the bottom of the screen.



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- An **Online Webinar** has been organised by Department of EC LNCTS on “**Model based Programming for Embedded system using MATLAB & Simulink**” by Mr. **Subrato Howlader**, “**Sr. Trainer Instructor, CRISP**” on **Saturday 28-08-2021** from **11:45AM to 12:45 PM** for the students of **EC 5thsemester LNCTS** Students. The session was too Interactive, Informative and interesting for students which deals with the deep knowledge of How Simulink of Embedded devices can be performed on MATLAB. The session was delivered successfully under the guidance of **Dr. Soheb Munir (HOD EC LNCTS)**, Coordinated by **Prof. Rahul Sharma (Assistant Professor)**.

WEBINAR Department of Electronics & Communication

Model-based Programming for Embedded system Using Matlab and Simulink.

Date:- 28-08-2021
Time:- 11:40am

Organizer:
Prof. Rahul Sharma (AP, LNCTS)

ISTE CHAPTER LNCTS

Coordinator:
Dr. Soheb munir (HOD, EC LNCTS)

Trainer Subrato Howlader
Sr Trainer Instructor
CRISP INDIA

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MATLAB R2020a

HOME PLOTS APPS

REC

Script Live script

FILE EDIT VARIABLE CODE SIMULINK ENVIRONMENT

Current Folder: C:\Windows\System32

Command Window

```
New to MATLAB? See resources for Getting Started.
>> a=arduino
Updating server code on board thru (COM5). This may take a few minutes.

log10(5)
log10(2)
%-- 8/17/2021 4:20 AM --%
doc
%-- 8/25/2021 2:19 AM --%
%-- a=arduino('com1','nano')
%-- a=arduino('com5','nano3')
%-- a=arduino('com9','uno')
readDigitalPin(a,'D0')
readVoltage(a,'A0')
%-- 8/26/2021 11:47 AM --%
%-- target installer
%-- targetinstaller
%-- targetinstaller
%-- targetinstaller
supportPackageInstaller
%-- 8/27/2021 10:28 PM...
a=arduino
clc
clear all\
clear all
clc
EXIT
%-- 8/27/2021 11:57 PM...
a=arduino
```

30°C AQI 40 12:11 AM 8/28/2021



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