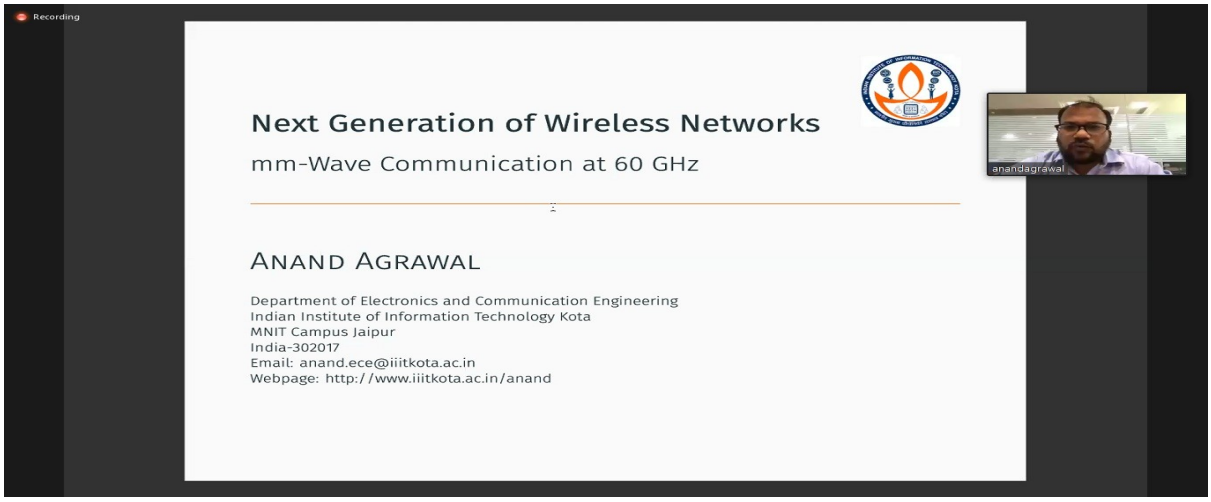
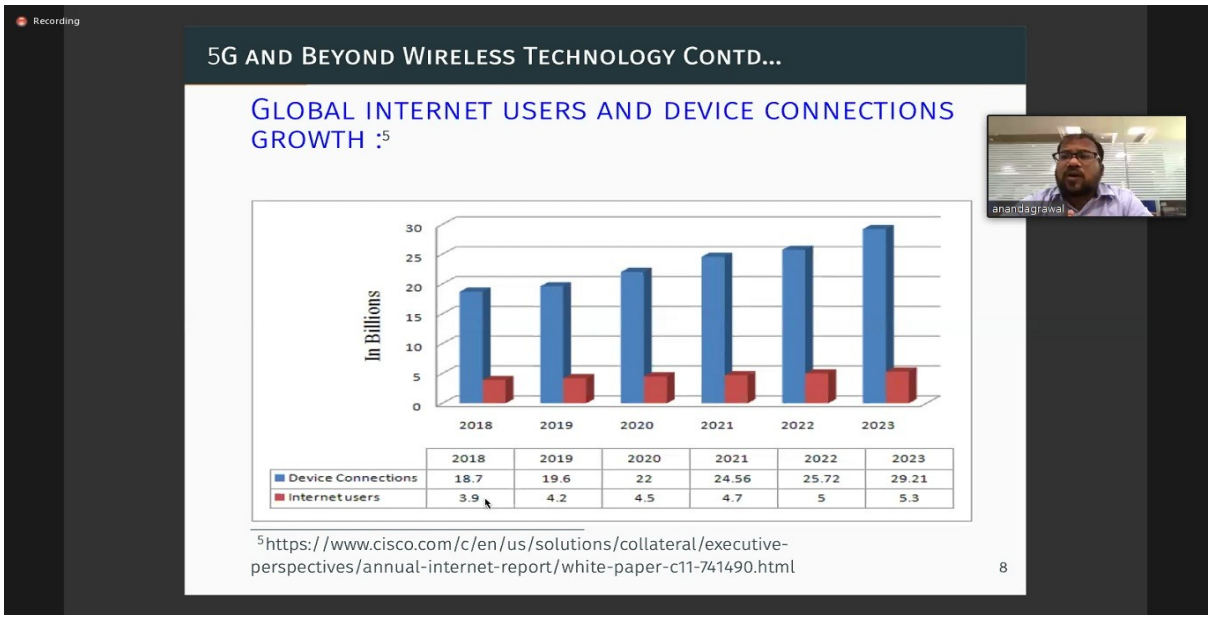
LAKSHMI NARAIN COLLEGE OF TECHNOLOGY EXCELLENCE, BHOPAL

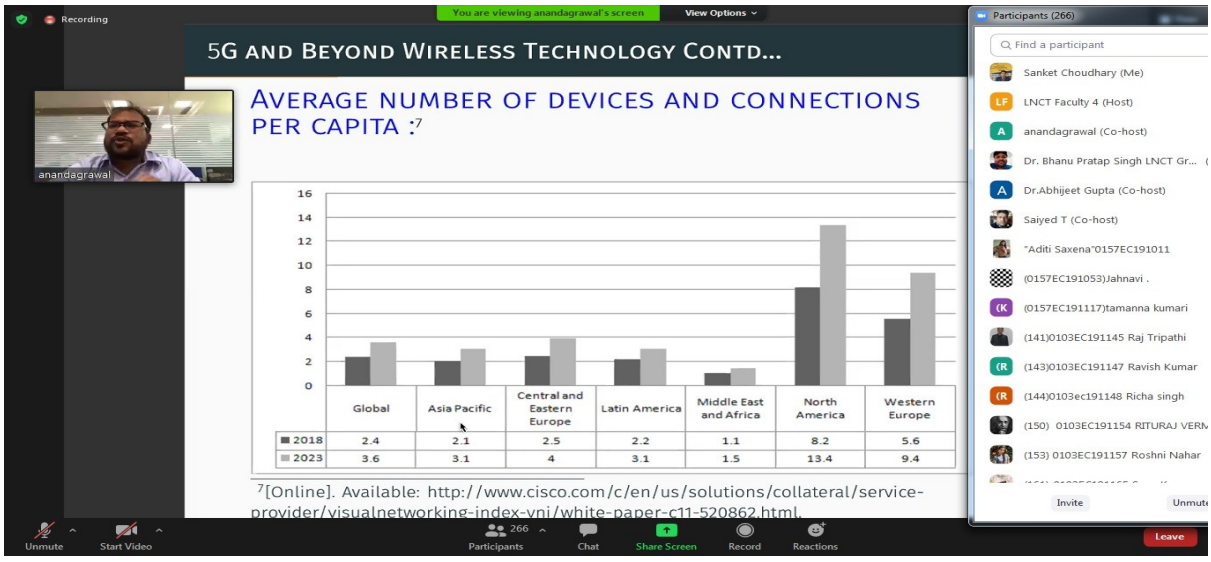
Department of Electronics and Communication Engineering LNCTE Bhopal

Publicity Report ofApril 2021

- An **Online Expert talk** session organised by Department of **EC LNCTE** on" **mm Wave Communication: Future of Wireless Network"**by **Dr. Anand Agrawal, "Assistant Professor, Indian Institute of Information Technology, Kota"** on **Thursday 01-04-2021** from**11:45AM to 12:45PM)** for the students **of EC 4th semester LNCTE** Students. The session was too Interactive, Informative and interesting for students which deals with next generation of wireless network, 5G & Beyond wireless technology. The session was delivered successfully under the guidance of **Dr. Abhinav Bhargava (HOD EC LNCTE),** Coordinated by **Prof. Santosh Kumar Jha (Assistant Professor).**


Recording
Next Generation of Wireless Networks
mm-Wave Communication at 60 GHz
ANAND AGRAWAL
Department of Electronics and Communication Engineering
Indian Institute of Information Technology Kota
MNIT Campus Jaipur
India-302017
Email: anand.ece@iiitkota.ac.in
Webpage: http://www.iiitkota.ac.in/anand
anandagrawal


Recording
5G AND BEYOND WIRELESS TECHNOLOGY CONTD...
GLOBAL INTERNET USERS AND DEVICE CONNECTIONS GROWTH :5
In Billions
30
25
20
15
10
5
0
2018 2019 2020 2021 2022 2023
Device Connections 18.7 19.6 22 24.56 25.72 29.21
Internet users 3.9 4.2 4.5 4.7 5 5.3
anandagrawal
5https://www.cisco.com/c/en/us/solutions/collateral/executive-perspectives/annual-internet-report/white-paper-c11-741490.html
8


Recording
You are viewing anandagrawal's screen
View Options
5G AND BEYOND WIRELESS TECHNOLOGY CONTD...
AVERAGE NUMBER OF DEVICES AND CONNECTIONS PER CAPITA :7
16
14
12
10
8
6
4
2
0
Global Asia Pacific Central and Eastern Europe Latin America Middle East and Africa North America Western Europe
2018 2.4 2.1 2.5 2.2 1.1 8.2 5.6
2023 3.6 3.1 4 3.1 1.5 13.4 9.4
anandagrawal
Participants (266)
Find a participant
Sanket Choudhary (Me)
LNCT Faculty 4 (Host)
anandagrawal (Co-host)
Dr. Bhanu Pratap Singh LNCT Gr...
Dr.Abhijeet Gupta (Co-host)
Saiyed T (Co-host)
"Aditi Saxena"0157EC191011
(0157EC191053)Jahnavi .
(0157EC191117)tamanna kumari
(141)0103EC191145 Raj Tripathi
(143)0103EC191147 Ravish Kumar
(144)0103ec191148 Richa singh
(150) 0103EC191154 RITURAJ VERM
(153) 0103EC191157 Roshni Nahar
Invite
Unmute
Leave
Unmute
Start Video
Participants
Chat
Share Screen
Record
Reactions
7[Online]. Available: http://www.cisco.com/c/en/us/solutions/collateral/service-provider/visualnetworking-index-vni/white-paper-c11-520862.html.

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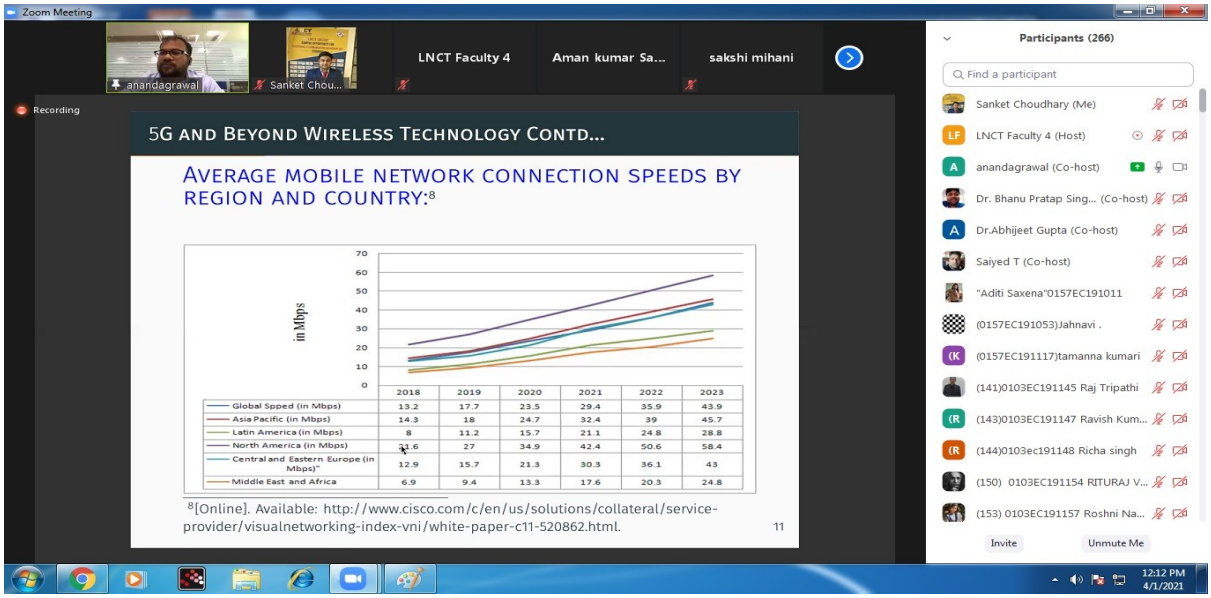
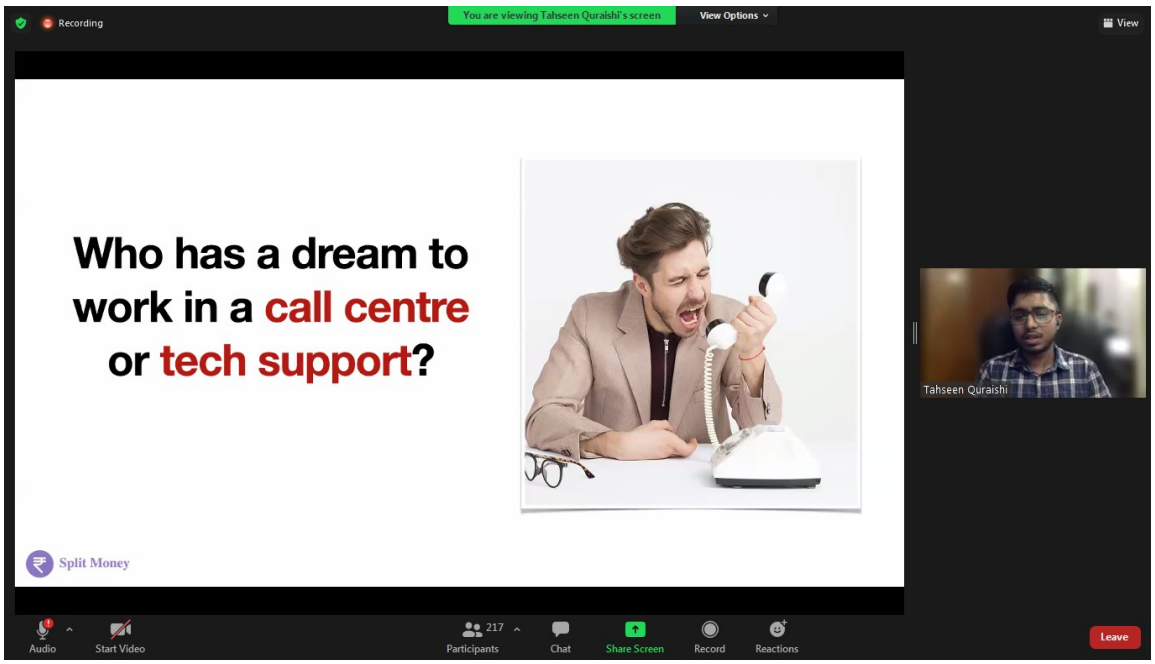


- An **Online Expert talk** session organised by Department of **EC LNCTE** on" Converting **an idea into Reality for brighter future"** by **Mr. Mohammad Tahseen, "Web & Mobile Application Developer (An LNCT Alumni)"** on **Thursday 08-04-2021** from **02:45PM to 03:45PM)** for the students **of EC 4thsemester LNCTE** Students. The session was too Interactive, Informative and interesting for students which deals with how to search good jobs, how we should prepare to do campus, what else can be done except Jobs etc. The session was delivered successfully under the guidance of **Dr. Abhinav Bhargava (HOD EC LNCTE),** organised by**Prof. Varsha Rajoria (Assistant Professor).**



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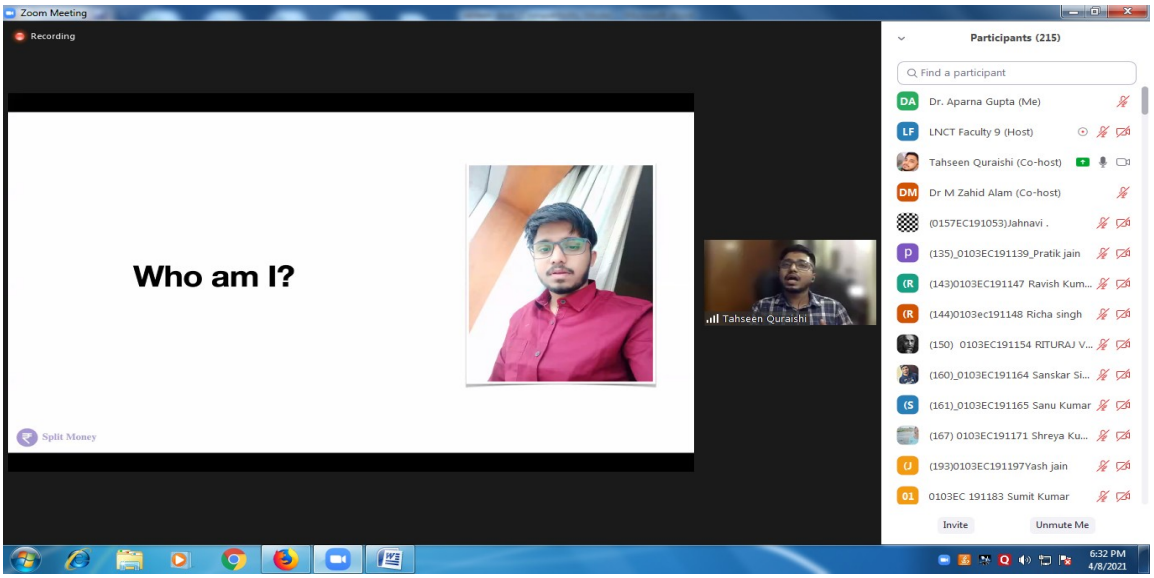

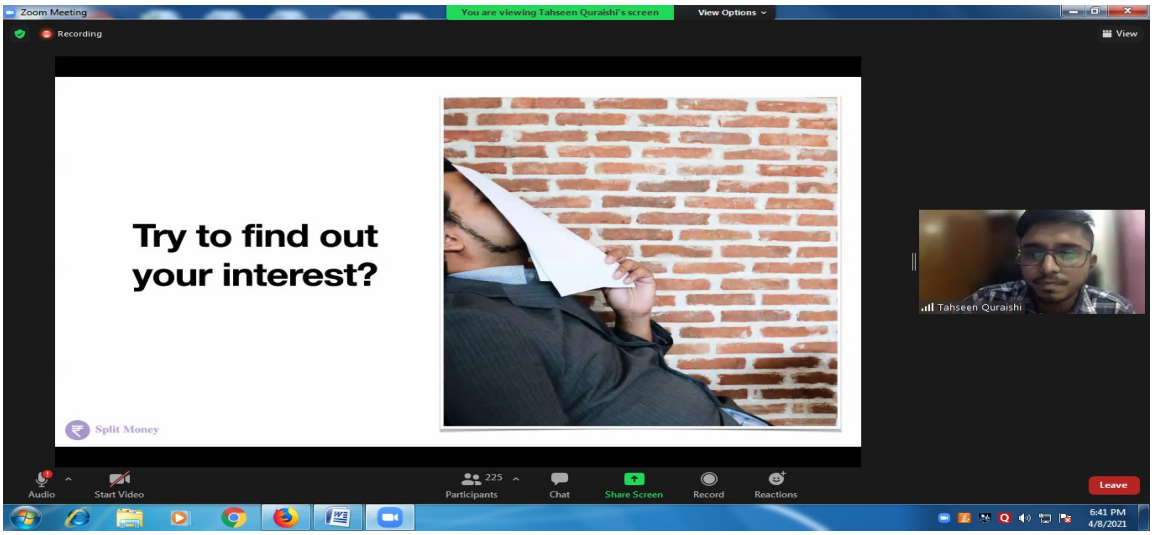

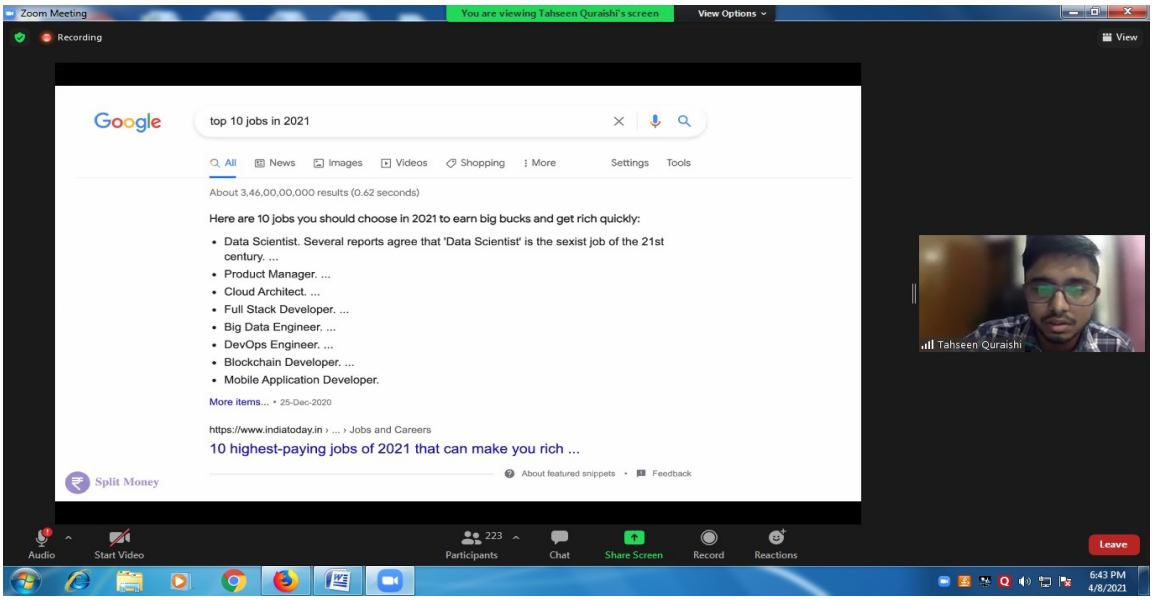

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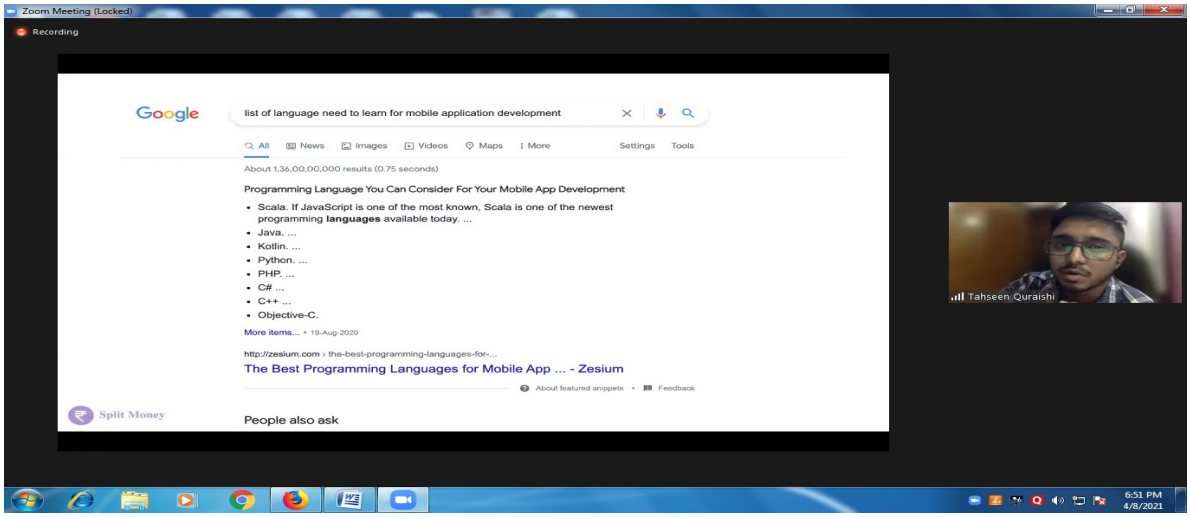

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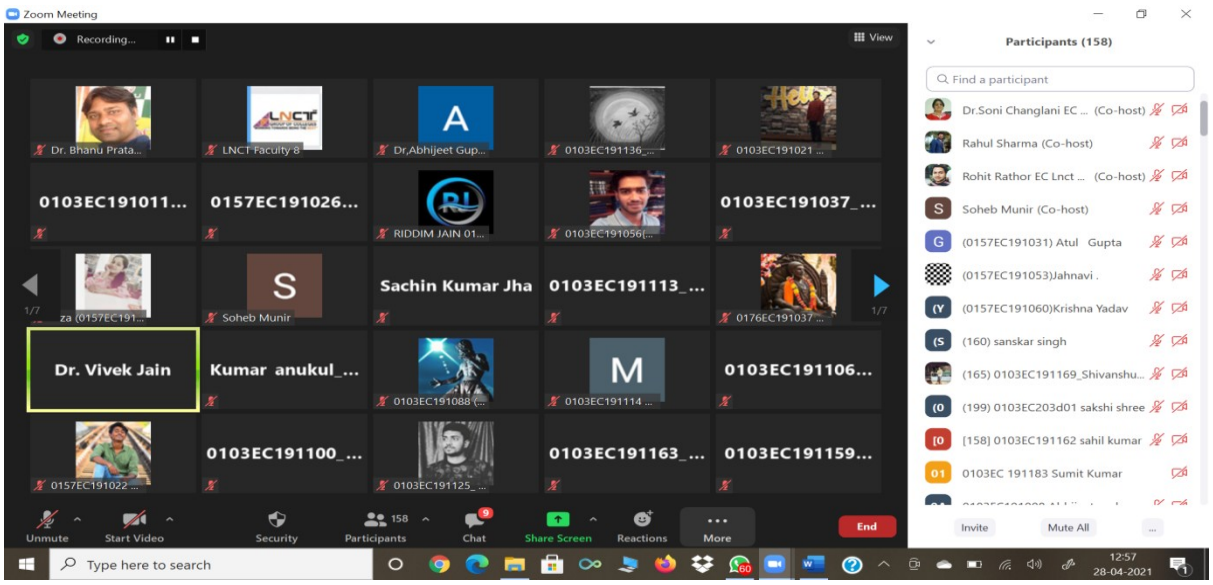
- An **Online Expert talk** session organised by Department of **EC LNCTE** on"**Indian space revolution and future opportunities"** by **Mr. Niitesh Kumar Agrawal, "Researcher, Dept. of Avionics, Indian Institute of Space Science and Technology, Thiruvananthpuram, Kerala"** on **Wednesday 28-04-2021** from **11:45AM to 12:45PM)** for the students **of EC 4th semester LNCTE** Students under the guidance of **Dr. Abhinav Bhargava (HOD EC LNCTE),** Coordinated by **Prof. Rohit Kumar Rathor (Assistant Professor).**



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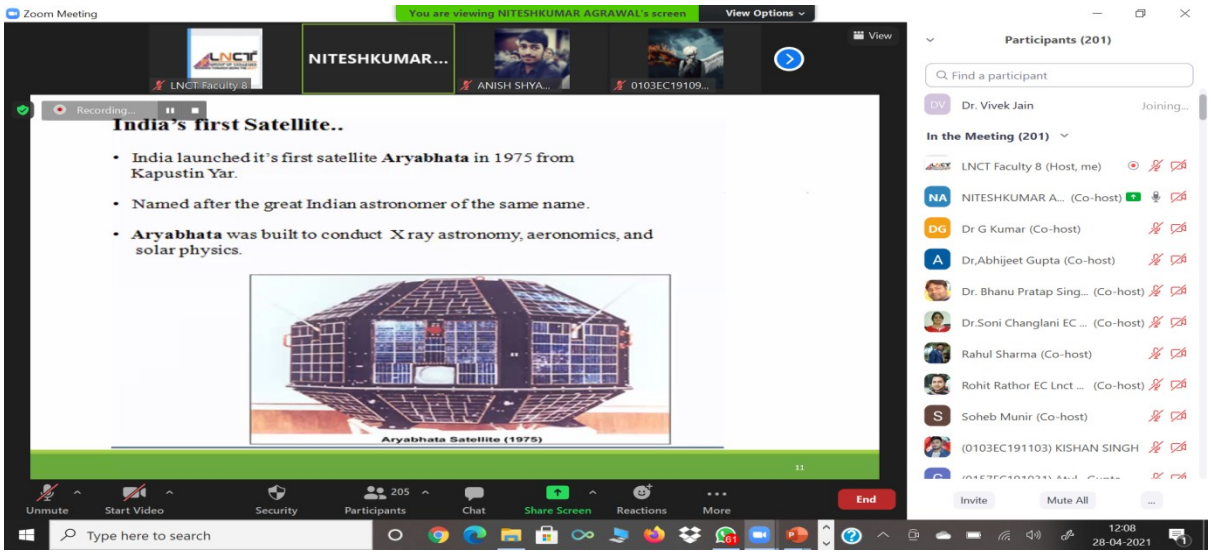

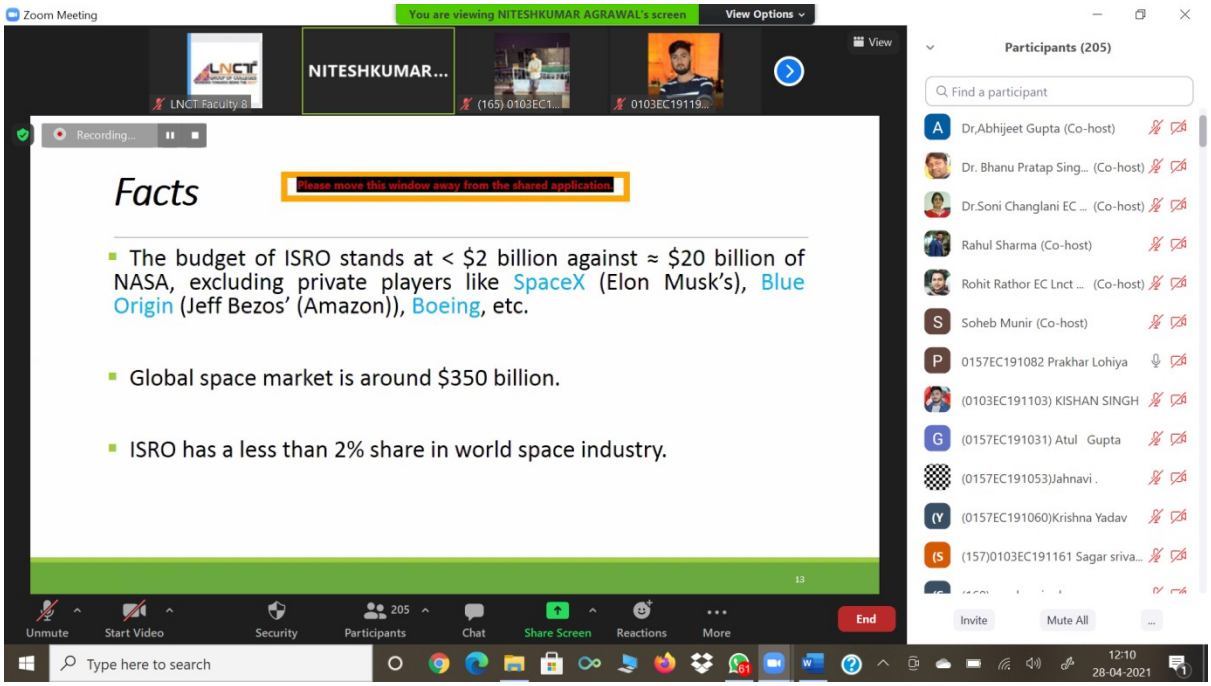

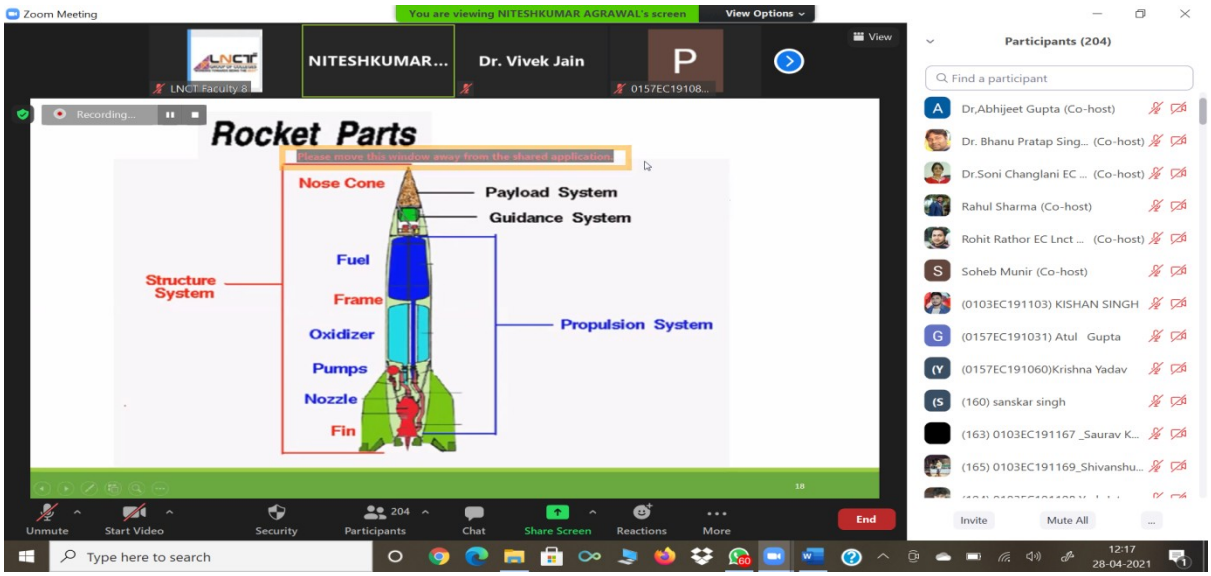

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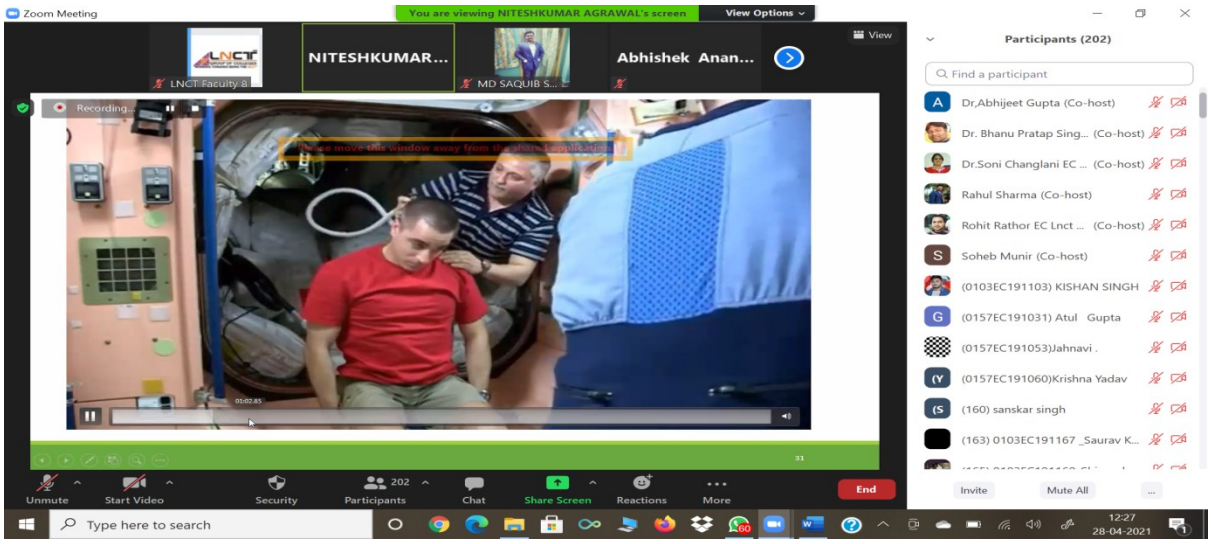

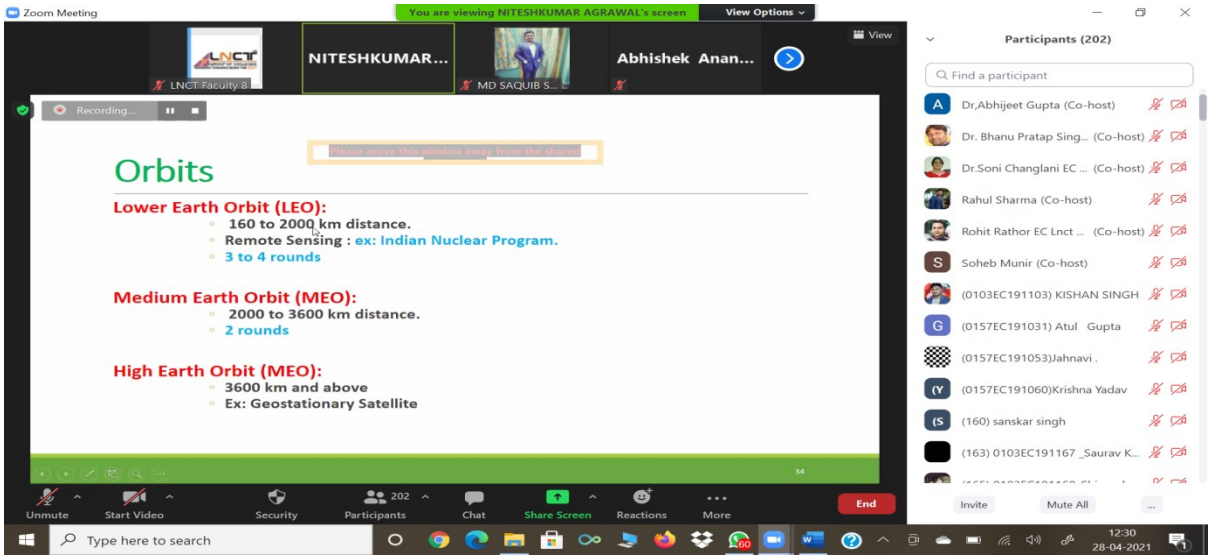

- An **Online Expert talk** session organised by Department of **EC LNCTE** on" Virtualization **in Telecom"** by **Mr. Sudhakar Pandey, Head-RAN Intellegent Operations, Rakutan Mobile Inc., Tokyo, Japan"** on **Thursday 29-04-2021** from **01:30 to 02:30 PM)** for the students **of EC 4th semester LNCTE** Students. The session was too Interactive, Informative and interesting for students which deals with Virtualization in telecom, ETSI Network Functioning, Open Ran reference Architecture with many more things. The session was delivered successfully under the guidance of Dr. **Abhinav Bhargava (HOD EC LNCTE)** coordinated by **Prof. Vini Shreni (Assistant Professor).**

Organized by :

Lakshmi Narain College of Technology Excellence, Bhopal
Department of Electronics & Communication Engineering

Expert talk on
Virtualization in Telecom

Thursday, **29 April 2021**
1:30PM to 2:30PM

ISTE CHAPTER LNCTE

Speaker

Mr. Sudhakar Pandey

Head - RAN Intelligent Operations
Rakuten Mobile Inc.
Tokyo, Japan

Organisers:
Dr. Abhinav Bhargava
Prof. Vini Shreni

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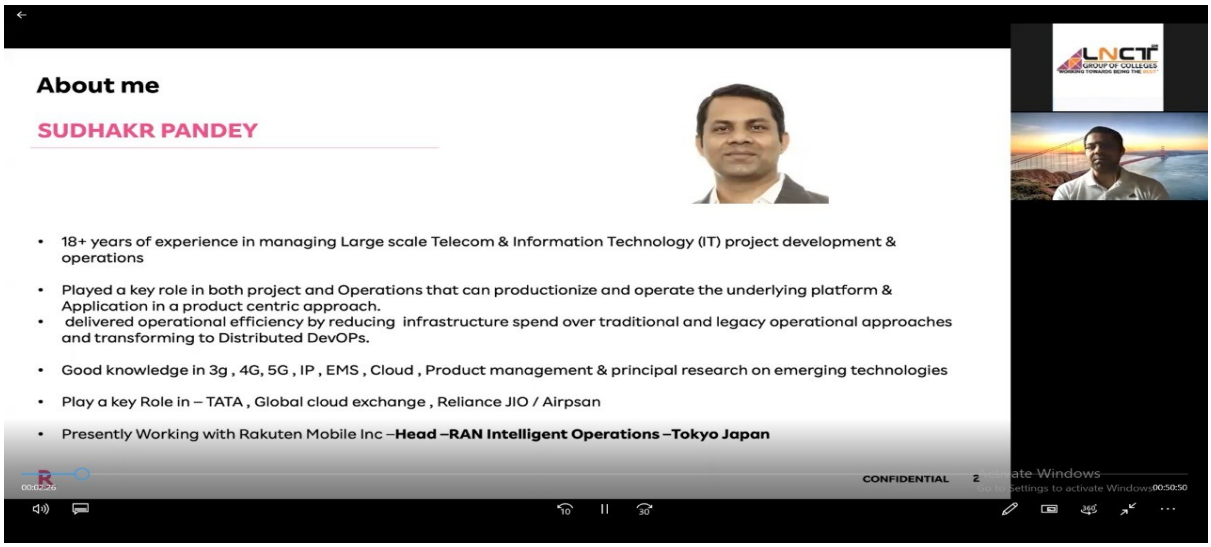
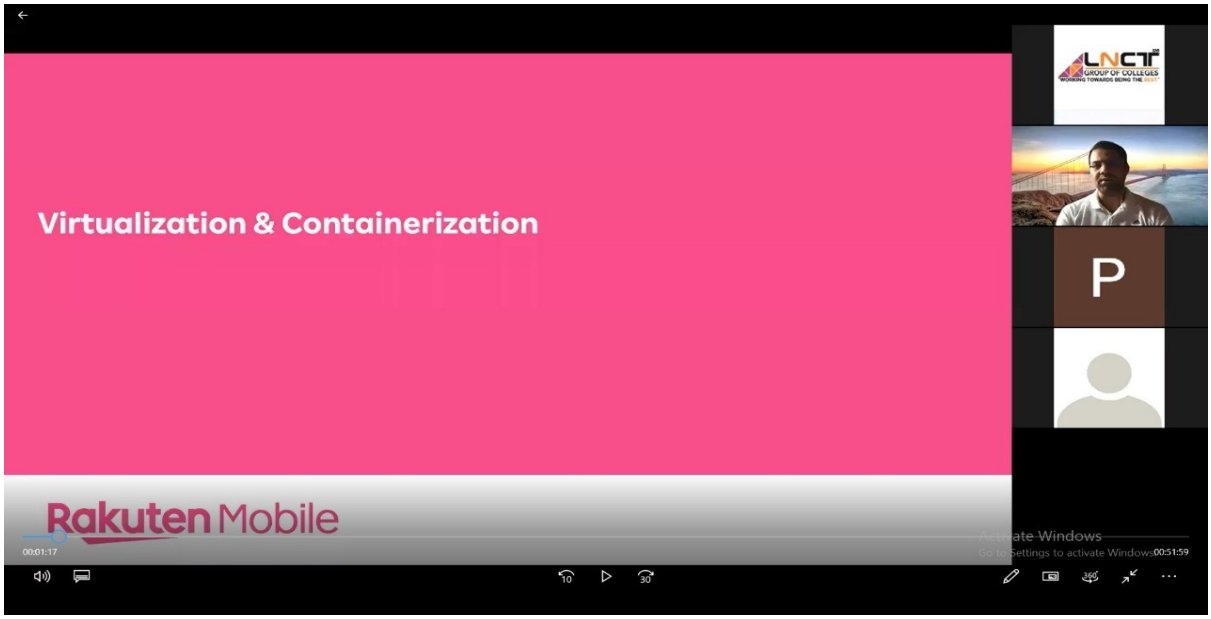
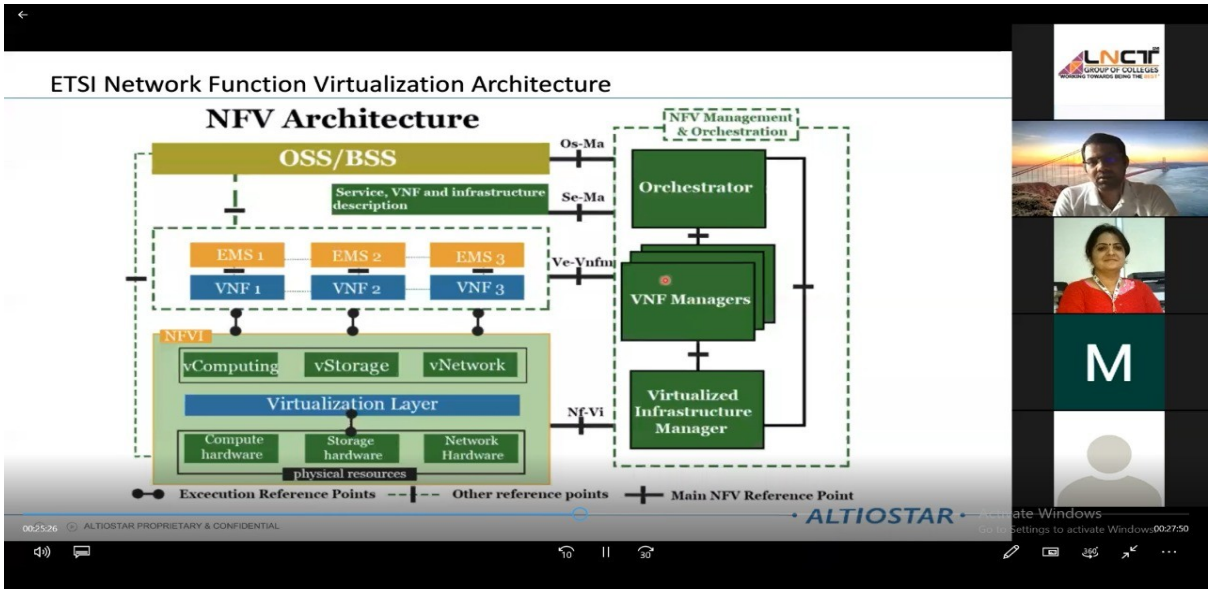
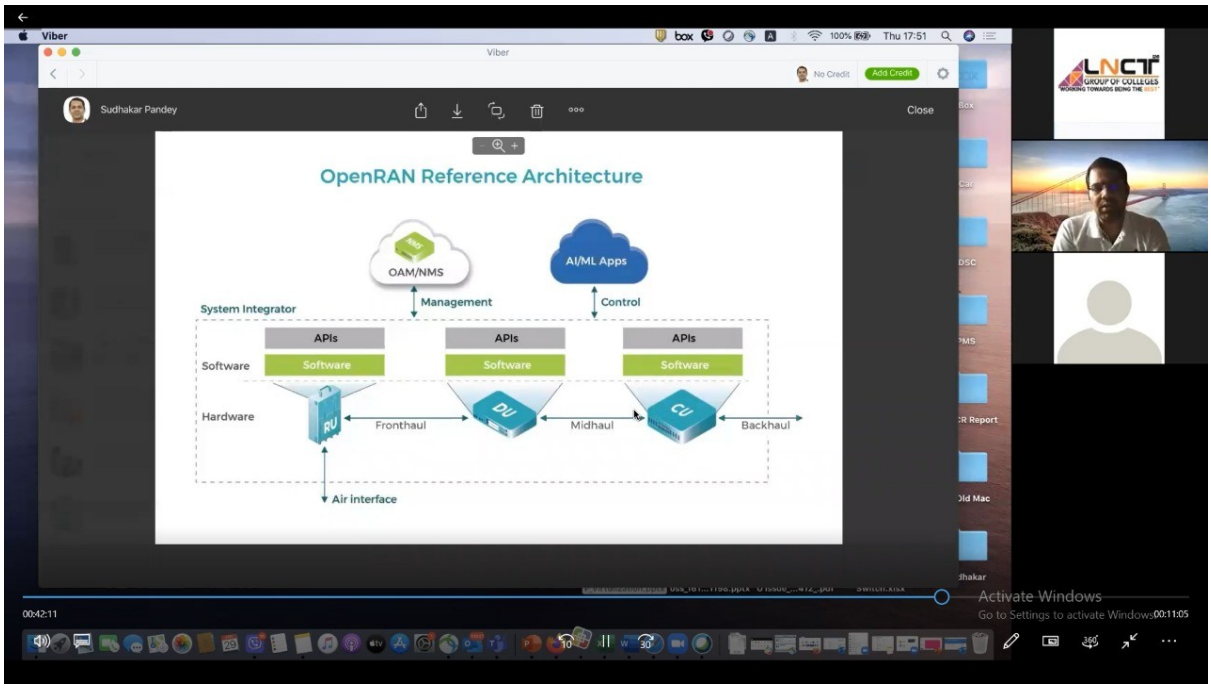

About me
SUDHAKR PANDEY
18+ years of experience in managing Large scale Telecom & Information Technology (IT) project development & operations
Played a key role in both project and Operations that can productionize and operate the underlying platform & Application in a product centric approach.
delivered operational efficiency by reducing infrastructure spend over traditional and legacy operational approaches and transforming to Distributed DevOPs.
Good knowledge in 3g , 4G, 5G , IP , EMS , Cloud , Product management & principal research on emerging technologies
Play a key Role in – TATA , Global cloud exchange , Reliance JIO / Airpsan
Presently Working with Rakuten Mobile Inc –Head –RAN Intelligent Operations –Tokyo Japan
CONFIDENTIAL 2


Virtualization & Containerization
Rakuten Mobile


ETSI Network Function Virtualization Architecture
NFV Architecture
NFV Management & Orchestration
OSS/BSS
Os-Ma
Service, VNF and infrastructure description
Se-Ma
Orchestrator
EMS 1
EMS 2
EMS 3
VNF 1
VNF 2
VNF 3
Ve-Vnfm
VNF Managers
NFVI
vComputing
vStorage
vNetwork
Virtualization Layer
Compute hardware
Storage hardware
Network Hardware
physical resources
Nf-Vi
Virtualized Infrastructure Manager
Execution Reference Points
Other reference points
Main NFV Reference Point
ALTIOSTAR


Viber
Sudhakar Pandey
Close
OpenRAN Reference Architecture
OAM/NMS
AI/ML Apps
Management
Control
System Integrator
APIs
Software
Hardware
RU
DU
CU
Fronthaul
Midhaul
Backhaul
Air interface
Activate Windows
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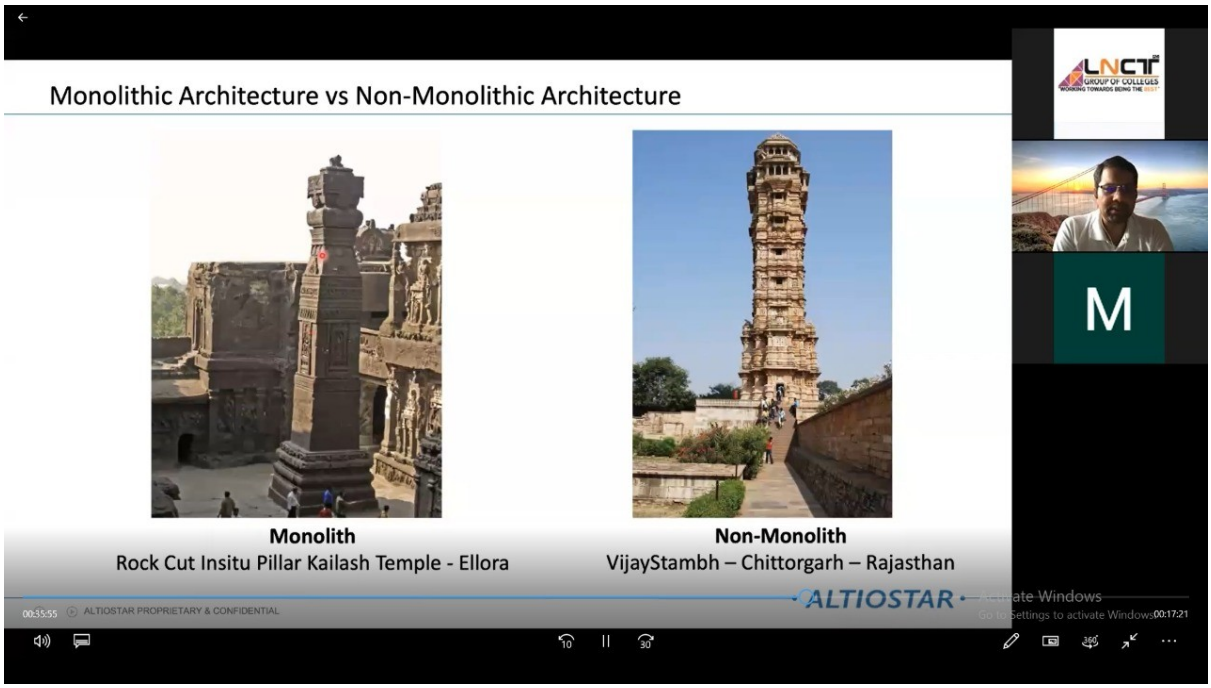
00:11:05


Monolithic Architecture vs Non-Monolithic Architecture
Monolith
Rock Cut Insitu Pillar Kailash Temple - Ellora
Non-Monolith
VijayStambh – Chittorgarh – Rajasthan
ALTIOSTAR
00:35:55
ALTIOSTAR PROPRIETARY & CONFIDENTIAL
00:17:21