XAVIER INSTITUTE OF ENGINEERING

A SISTER INSTITUTION OF ST. XAVIER'S COLLEGE

EXPERT LECTURE ON "DATA COMMUNICATION VIA SATELLITE LINK"

DATE: 11/04/2021

Event Coordinator(s):

Prof. Shailaja Udtewar

Student Coordinator(s):

Mr. Preetam Lobo

Time & Place:

11th April 2021

10:30 a.m. to 12:00 p.m.

Google Meet

Department:

Electronics and Telecommunication

No. of Participants:

37 Students

BE EXTC

OBJECTIVE:

Electronics and Telecommunication department had organized a guest lecture on "Data Communication via Satellite Link" for Final year students under the subject Satellite Communication by Prof. Shailaja Udtewar. This lecture was arranged so that students will have a glimpse of different components used in Satellite Communication System. The specifications of different satellites such as LEO, MEO, GEO, IPSTAR and different Multiple Access Techniques were clearly explained.

SCOPE:

This lecture was arranged for final year EXTC students to make the students aware of the communication satellites and the components used in that communication satellite. It includes study of the performances of different multiple access techniques in terms of channel utilization, throughput and delay characteristics. The scope is to study the communication Payload for Low Earth Orbit satellite systems and applications.

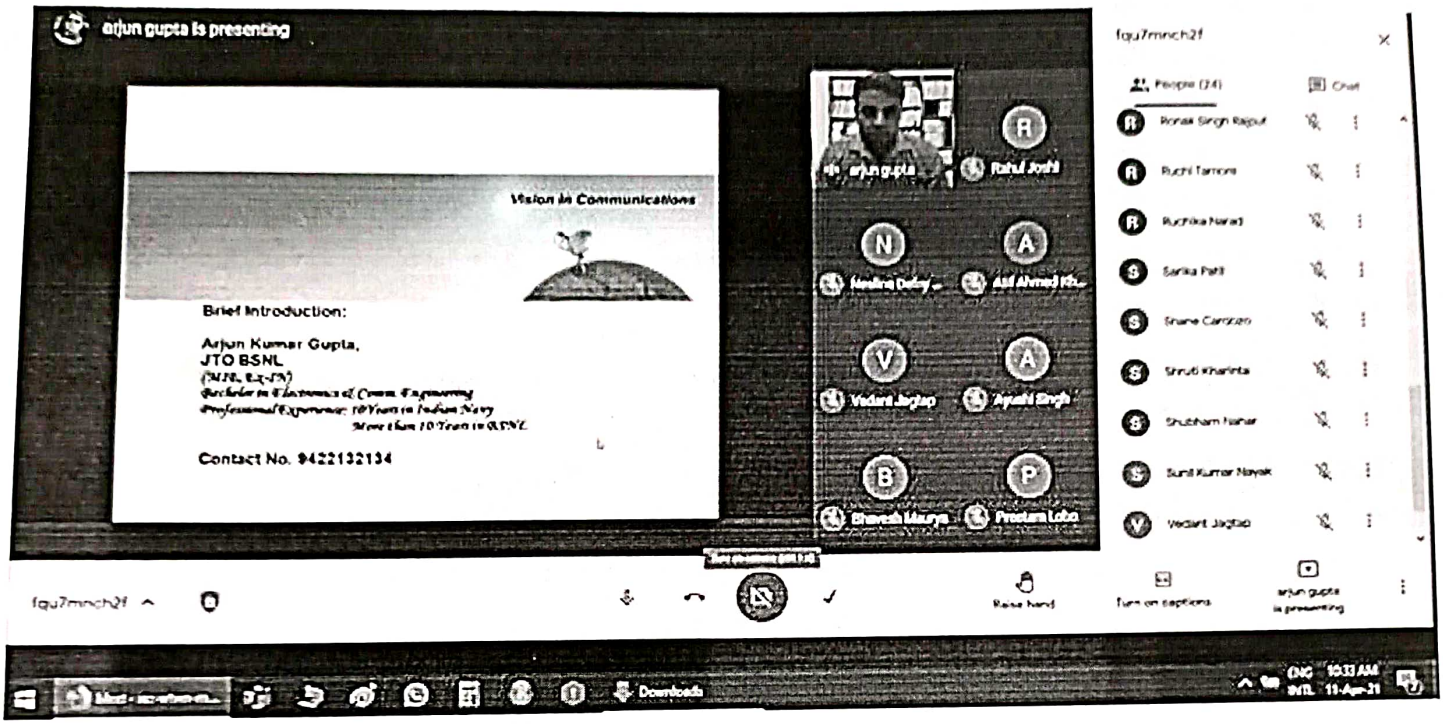
RESOURCE PERSONS:

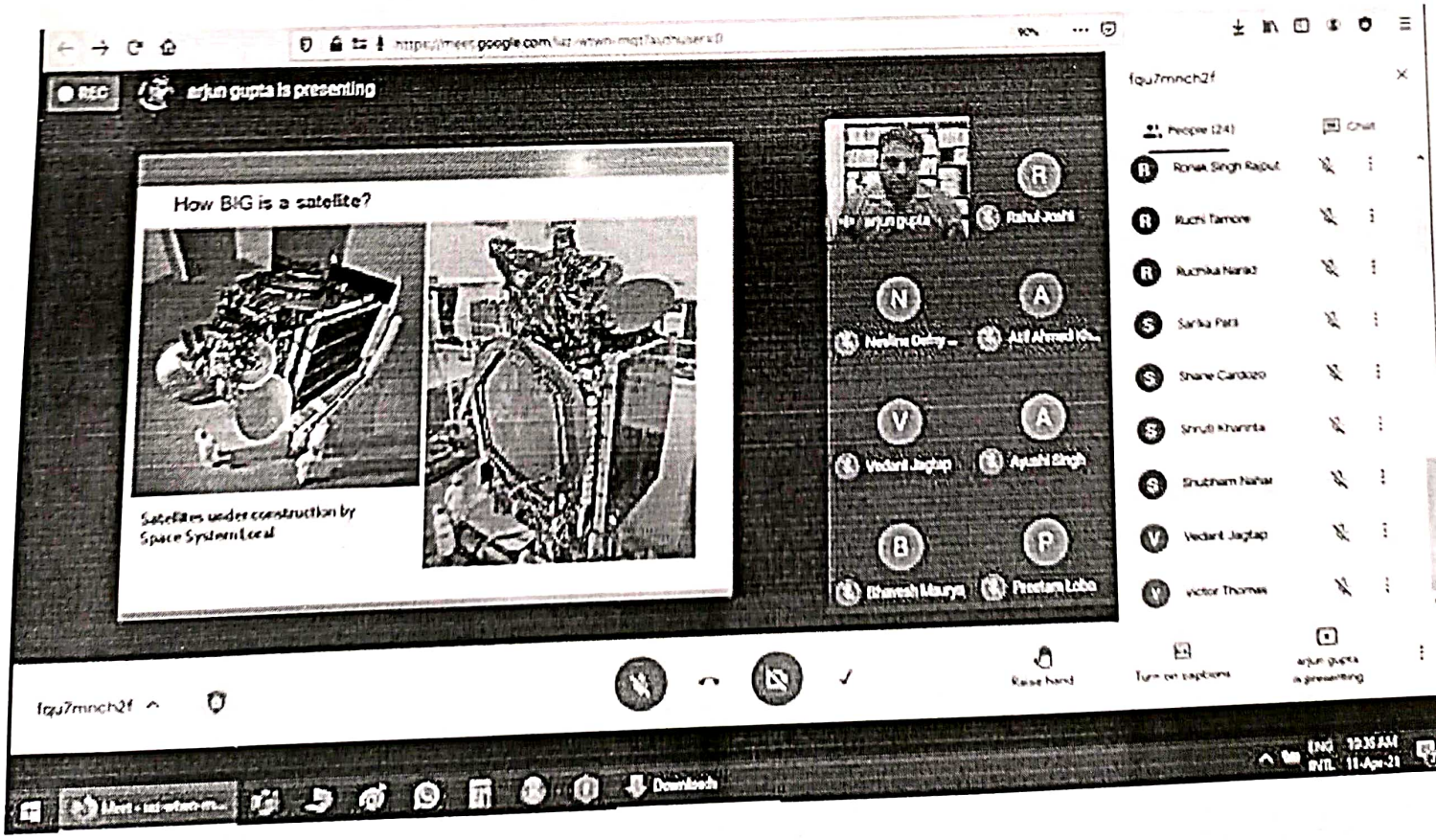
Mr. Arjun Kumar Gupta

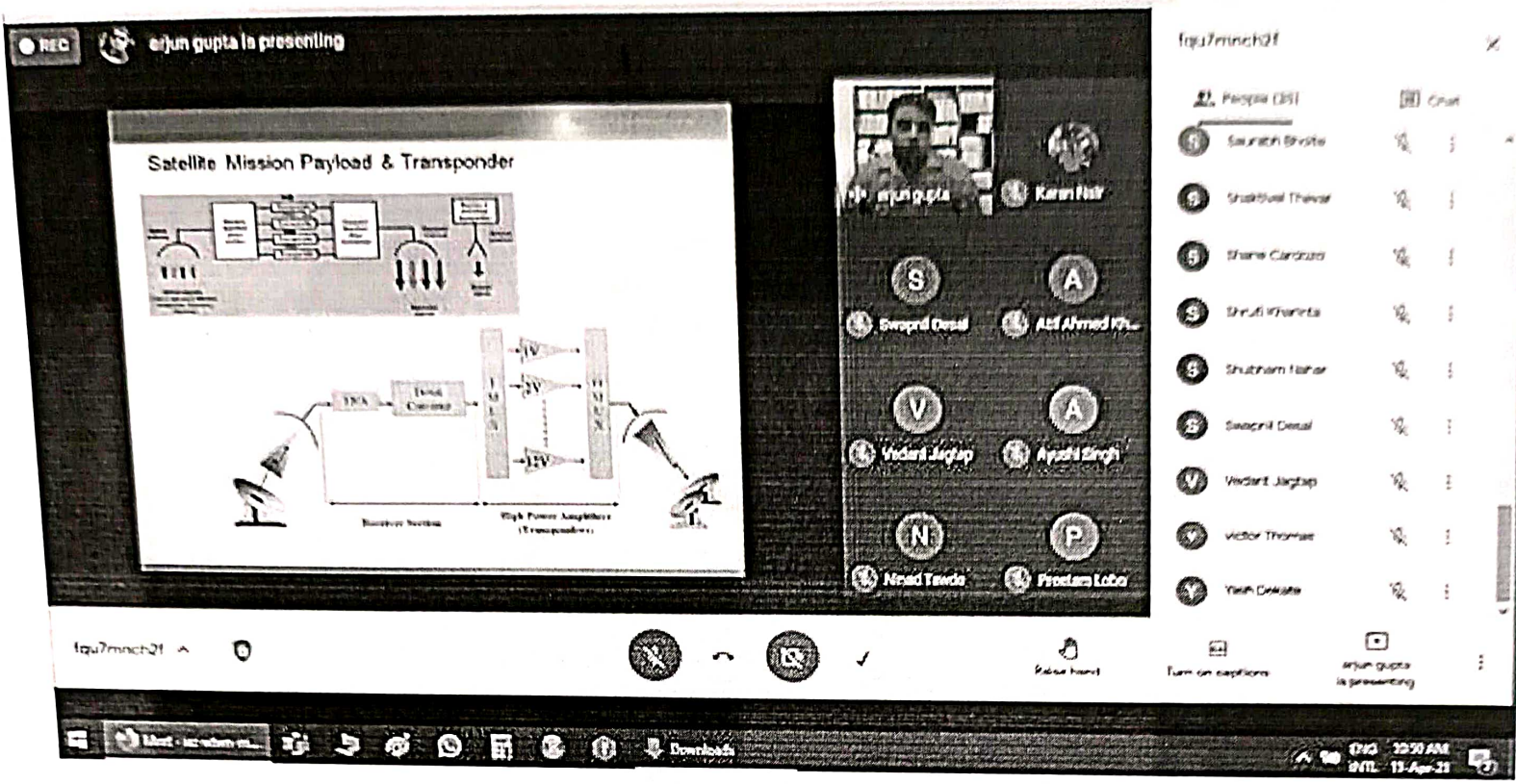
Junior Telecom Officer,

BSNL, Mumbai.

PHOTOS:


arjun gupta is presenting
Vision in Communications
Brief Introduction:
Arjun Kumar Gupta,
JTO BSNL
Contact No. 9422132134
fqu7mnch2f
People (24)
Chat
Raise hand
Turn on captions
Downloads


REC
arjun gupta is presenting
How BIG is a satellite?
Satellites under construction by Space System Loral
fqu7mnch2f
People (24)
Chat
Raise hand
Turn on captions
Downloads


REC
arjun gupta is presenting
Satellite Mission Payload & Transponder
fqu7mnch2f
People (35)
Chat
Saurabh Bhoite
Shubhvel Thevar
Shane Cardozo
Shruti Khanna
Shubham Nahar
Swapnil Desai
Vedant Jagtap
victor Thomas
Yash Dekate
arjun gupta
Karan Nair
Swapnil Desai
Atif Ahmed Kh...
Vedant Jagtap
Ayushi Singh
Nnaid Tawde
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arjun gupta is presenting
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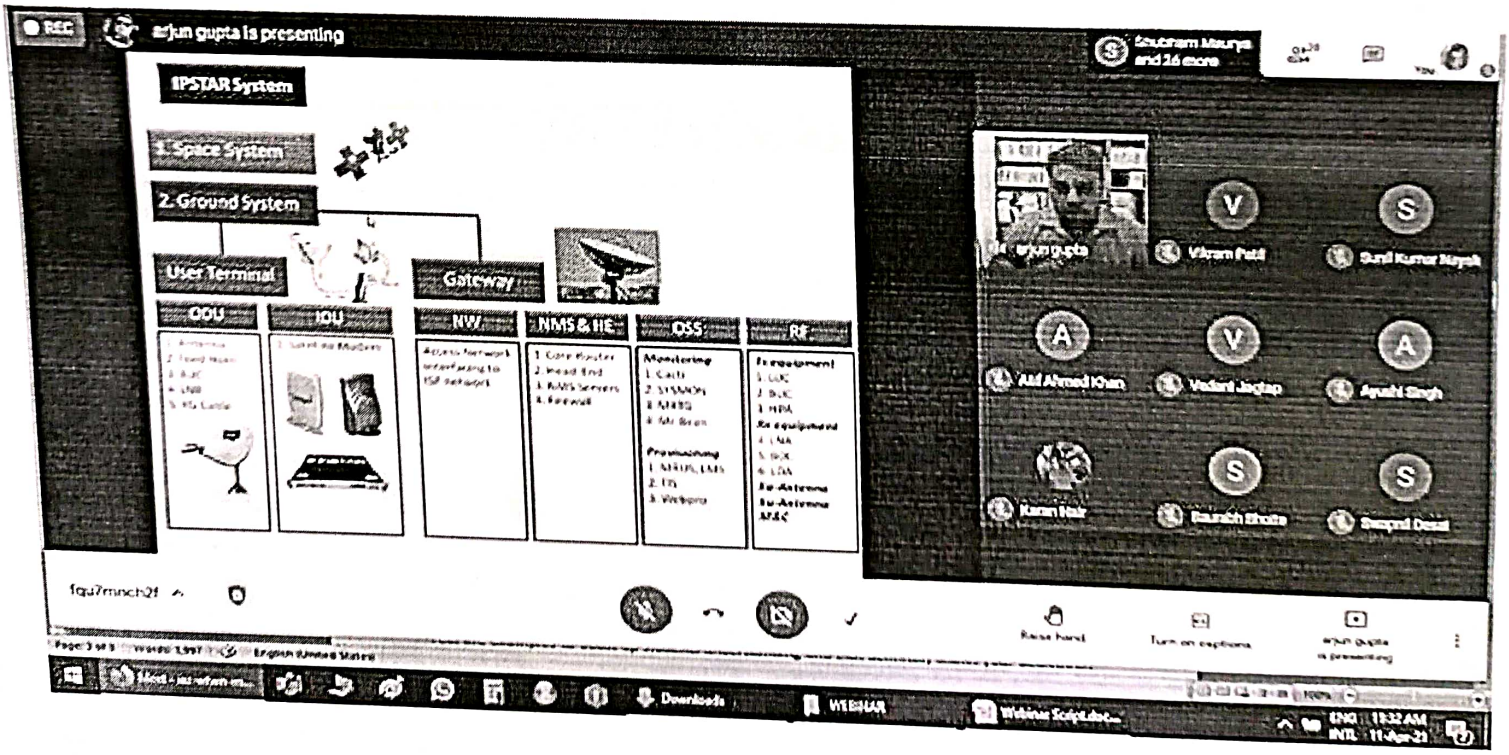
REC
arjun gupta is presenting
IPSTAR System
1. Space System
2. Ground System
User Terminal
Gateway
ODU
IDU
NW
NMS & HE
OSS
RF
Saurabh Maurya and 26 more
arjun gupta
Vikram Patil
Sunil Kumar Nayak
Atif Ahmed Khan
Vedant Jagtap
Ayushi Singh
Karan Nair
Saurabh Bhoite
Swapnil Desai
fqu7mnch2f
Raise hand
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arjun gupta is presenting
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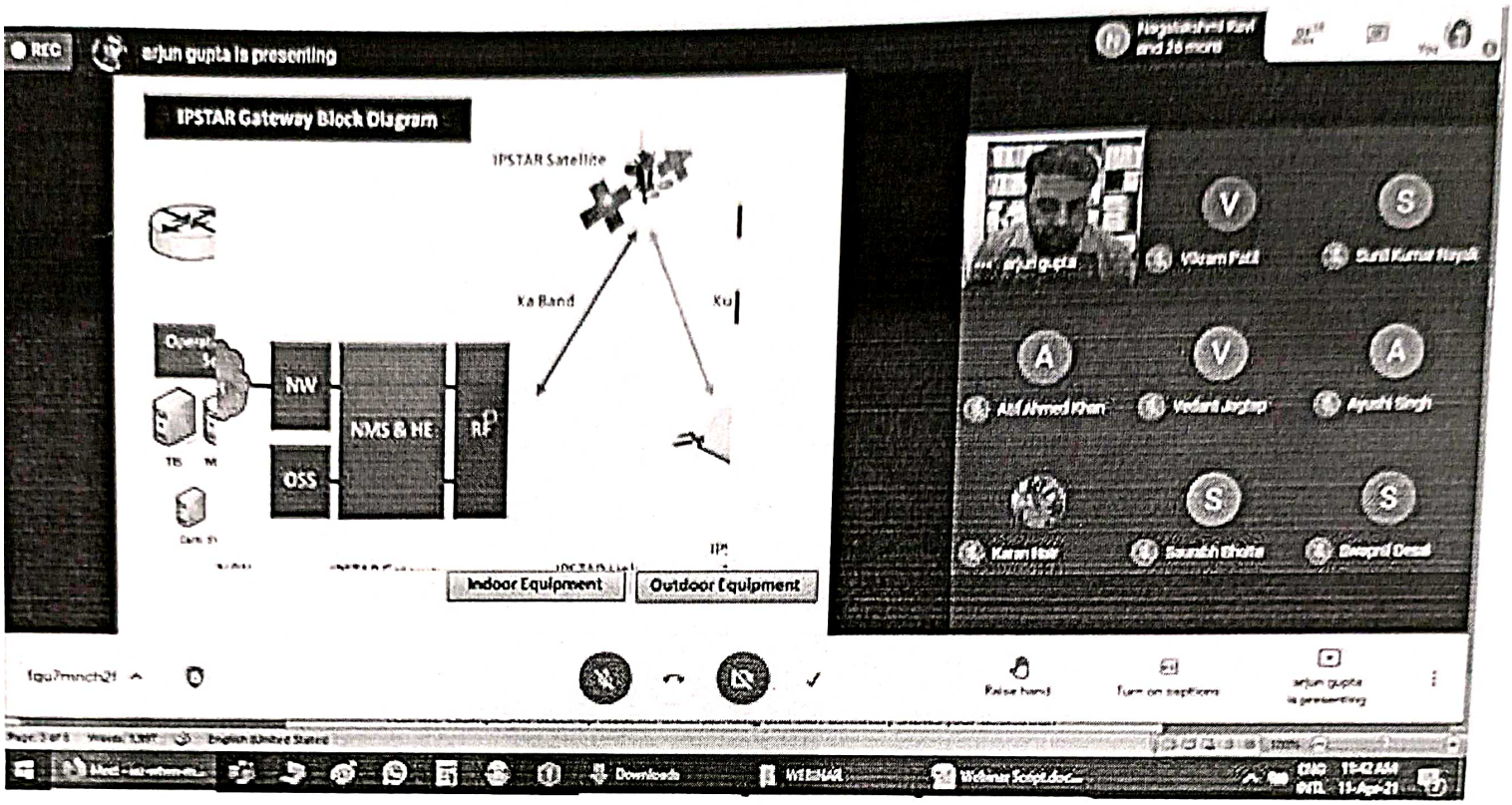
WEBINAR


REC
arjun gupta is presenting
IPSTAR Gateway Block Diagram
IPSTAR Satellite
Ka Band
Ku
NW
NMS & HE
RF
OSS
TB
M
IDU
Indoor Equipment
Outdoor Equipment
arjun gupta
Vikram Patil
Sunil Kumar Nayak
Akil Ahmed Khan
Vedant Jagtap
Arpati Singh
Karan Nair
Saurabh Bhatia
Swapnil Desai
Raise hand
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arjun gupta is presenting
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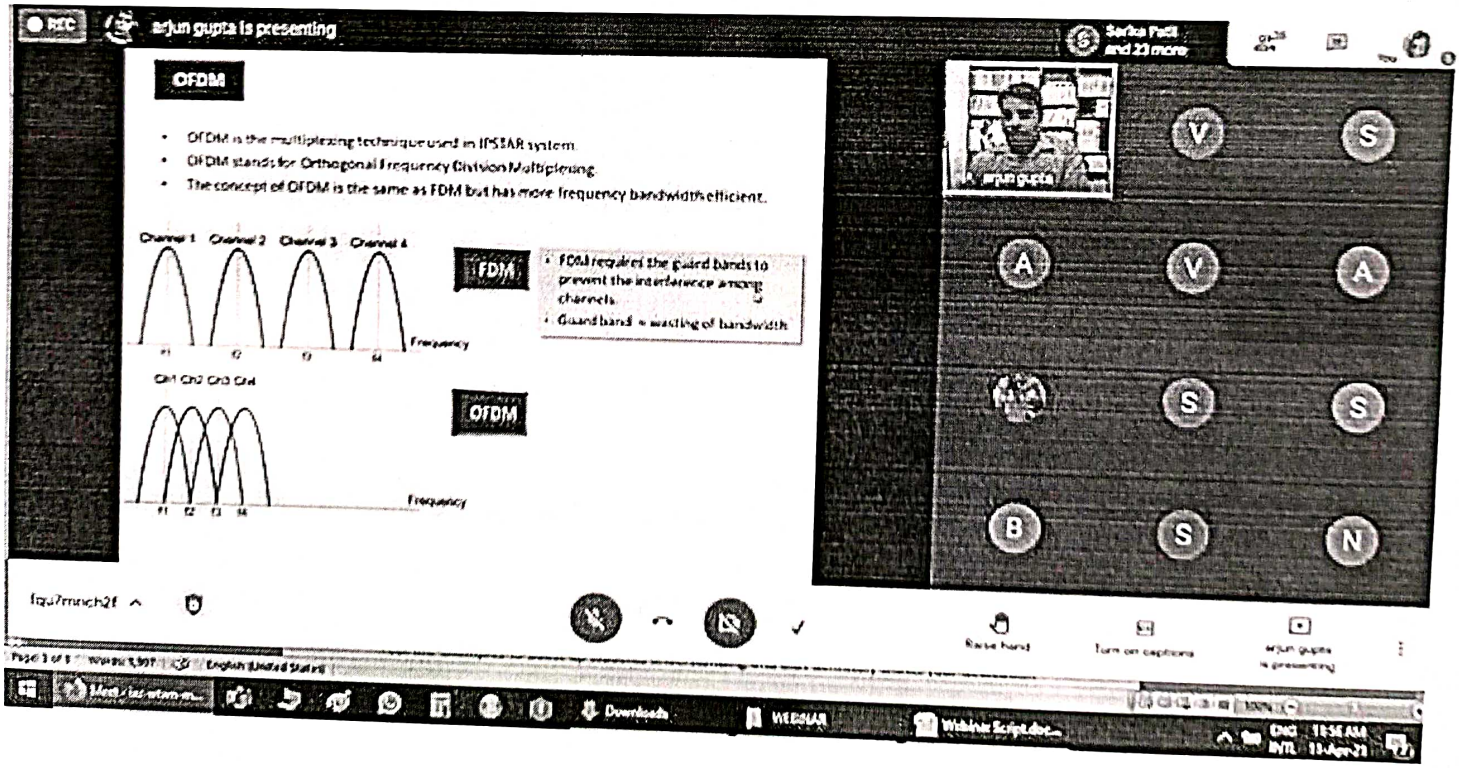
WEBINAR
Webinar Script.doc


REC
arjun gupta is presenting
OFDM
OFDM is the multiplexing technique used in IPSTAR system.
OFDM stands for Orthogonal Frequency Division Multiplexing.
The concept of OFDM is the same as FDM but has more frequency bandwidth efficient.
Channel 1
Channel 2
Channel 3
Channel 4
Frequency
FDM
FDM requires the guard bands to prevent the interference among channels.
Guard band = wasting of bandwidth
OFDM
Frequency
Raise hand
Turn on captions
arjun gupta is presenting
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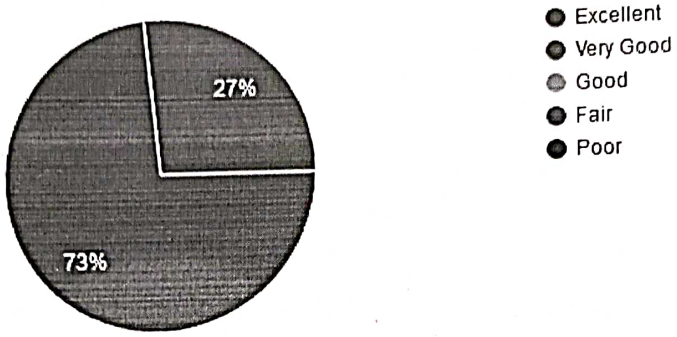
FEEDBACK:

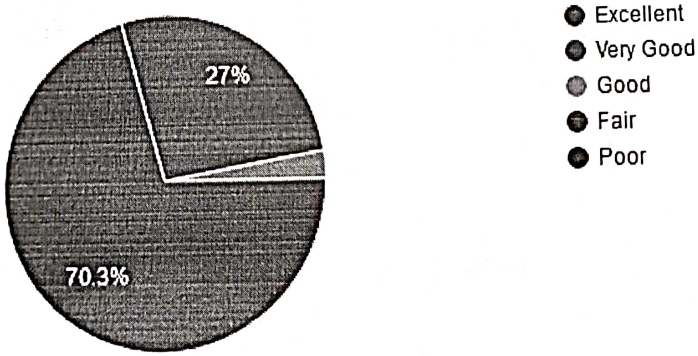
How was the overall organization of the session?

37 responses



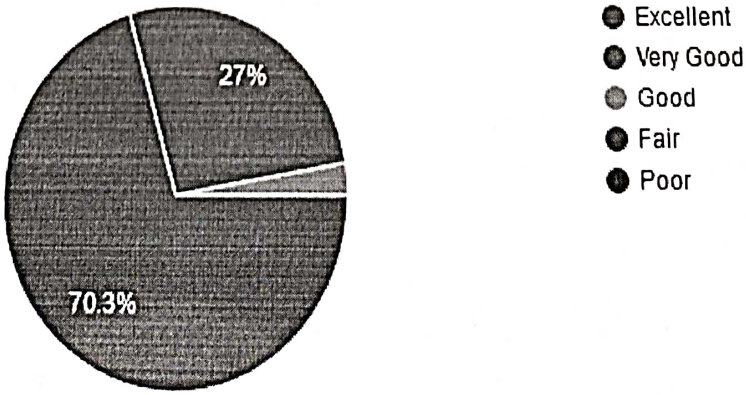
How relevant was the content discussed by the speaker?

37 responses



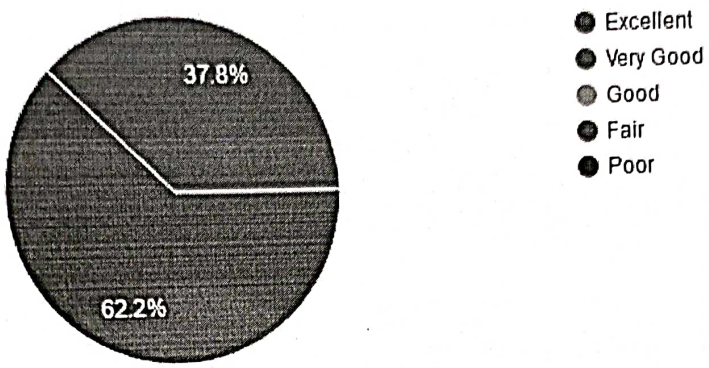
Are you satisfied with the time and venue/platform?

37 responses



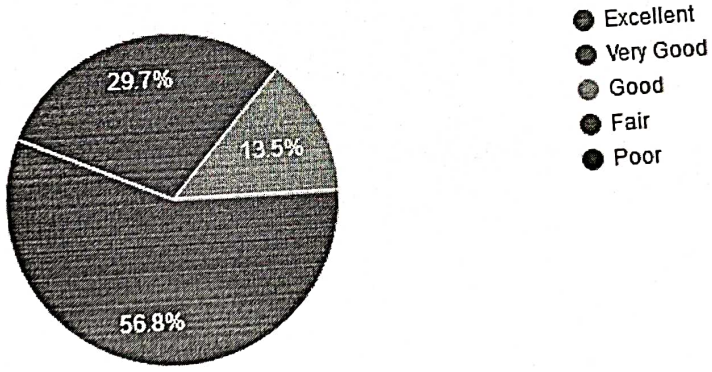
How much interesting this session was for you?

37 responses



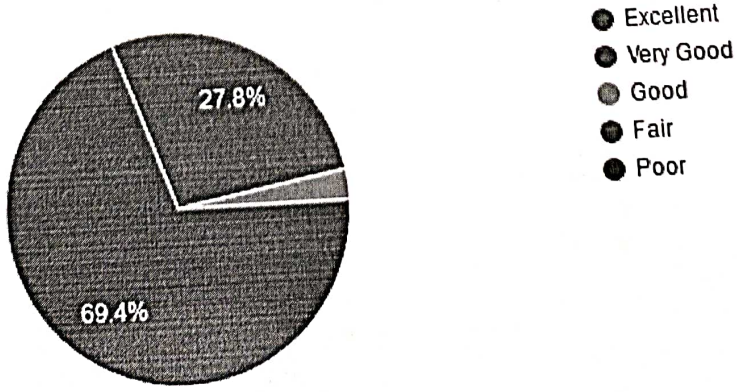
How was your preparation about the topic before the guest lecture?

37 responses



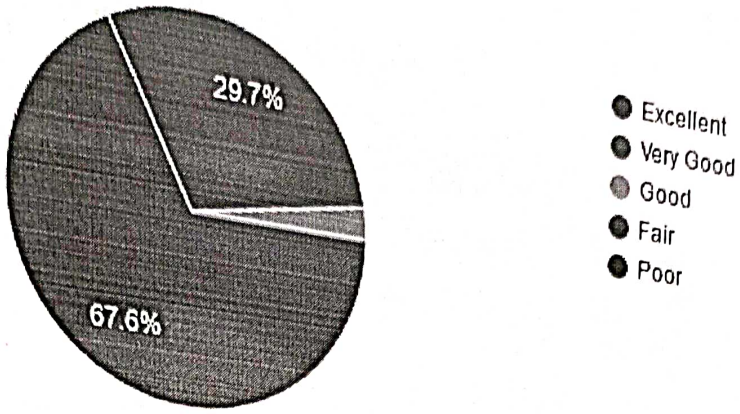
Did the lecture cover what you were expecting?

36 responses



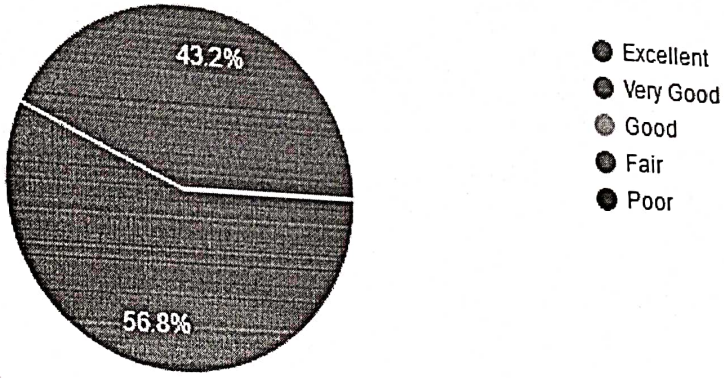
What is your opinion about the speaker?

37 responses



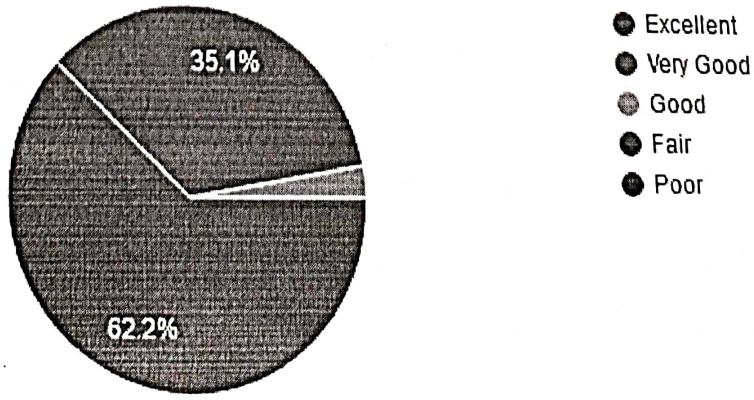
How much this session was useful from the knowledge and information point of view

37 responses



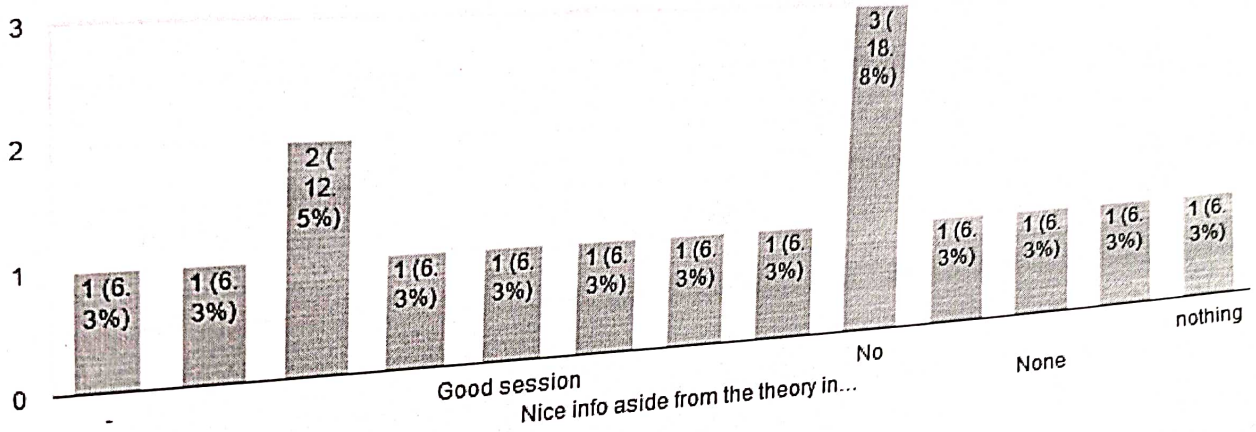
Overall effectiveness of the session

37 responses



Additional comments and suggestions for future

16 responses



Prof. Shailaja Udtewar

Subject In-charge

Dr. Vidya Sarode

HoD, EXTC