

A workshop on "Next Generation Wireless Network" Under XIE ISF

DATE: 4/4/2021

Event Coordinator(s)

1. Prof. Smita Pawar

Time & Place:

3rd April 2021

10:00 am to 1:00 p.m.

Google Meet

Department:

Electronics and Telecommunication under XIE-ISF

No. of participant:

104 Students

All Branches and all Year

OBJECTIVE:

Prof. Smita Pawar from Electronics and Telecommunication department had organized a workshop on "Next Generation Wireless Network" under XIE ISF.

The objective was to have hands-on session on

- 1) Software Defined Radios and SoC RF Transceiver IC and its design considerations.
- 2) Discussion on Low cost SDR setup creation using commercially available components.

SCOPE:

- Introduction to SDR.
- Applications of SDR.
- Commercially available SDR.
- Most Commonly used SDR by hobbyists.
- RTL-SDR and Introduction to SDR#.
- Possibilities of RTL-SDR.
- Introduction to SoC, SoB, CoB, SoM.
- Commonly used RF SoC and SoM used in IoT applications. (ESP, STM32, NRF24).
- Introduction to LoRa.
- Commonly used RF Sub-GHz SoC Transceivers.
- ISM Band RF Transceivers.
- Selection of RF-Microcontroller for a Specific Application.
- Design Considerations.

RESOURCE PERSONS:

Mr. Rahul Dhebri, Associate Hardware Design Engineer, Aumnatic Systems.

OUTCOME:

The workshop was an interactive session, where students asked their doubts, queries, questions about the technologies of Wireless network and career scope.

Students understood the concept of SDR, LoRa, ISM bands, commercially available hardware, Software to simulate, Research and application area. 162 students registered for the workshop and 104 attended.

IETE Students members from BE EXTC were the **students co-ordinator** for the workshop and responsibilities shared by them are:

Event Poster: Ms. Serena Matla

Event Messgae: Ms. Sanjana Khairnar and Divij Pawar

Event Certificate design: Mr. Armaan khan

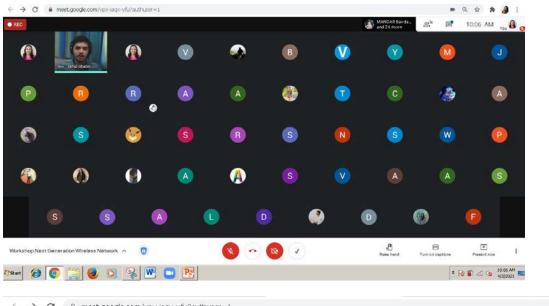
Vote of Thanks: Mr. Preetam Lobo

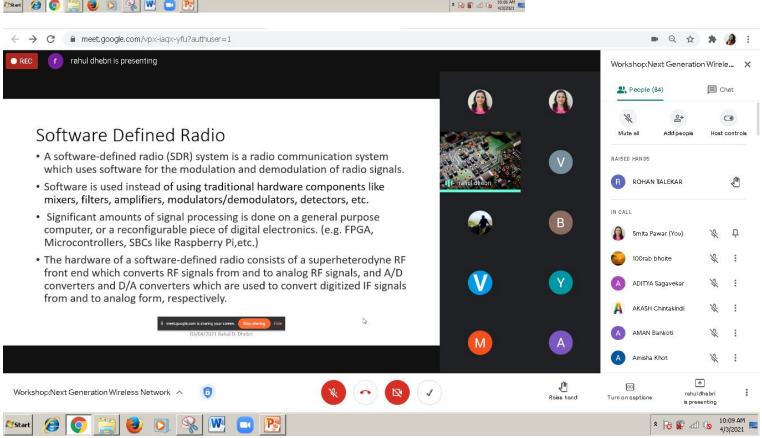
Overall it was a good co-ordination and a successful event.

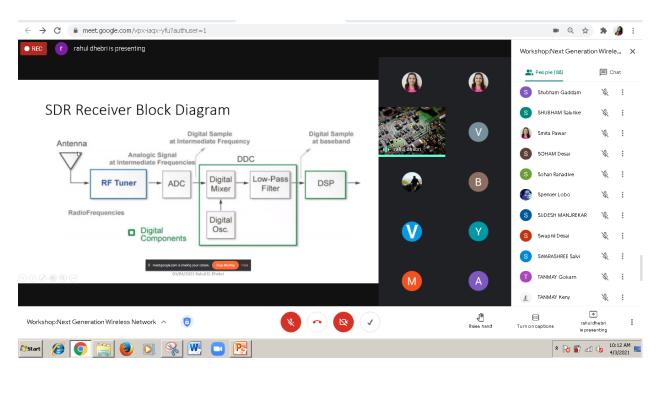
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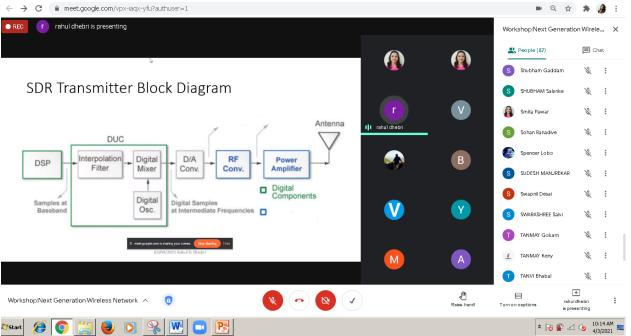


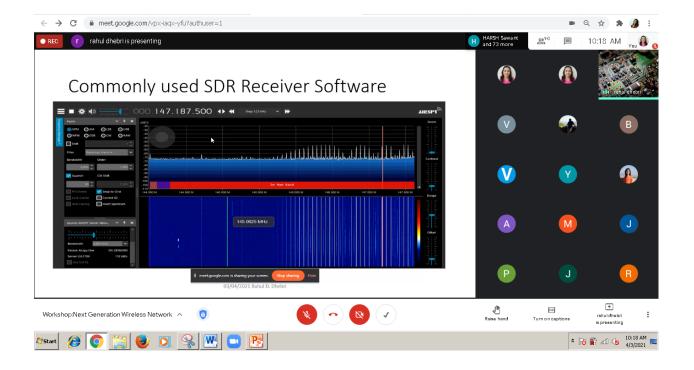
PARTICIPATION SCREENSHOT:

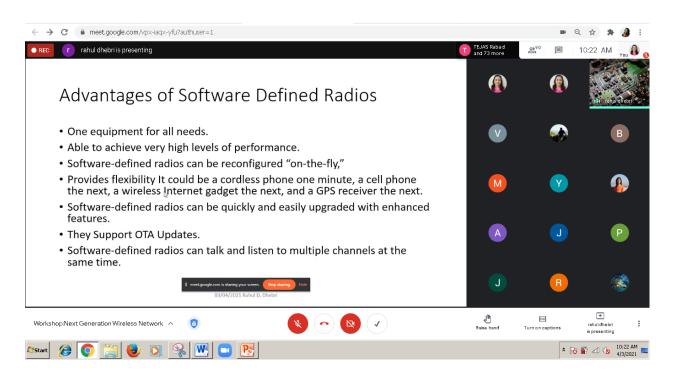


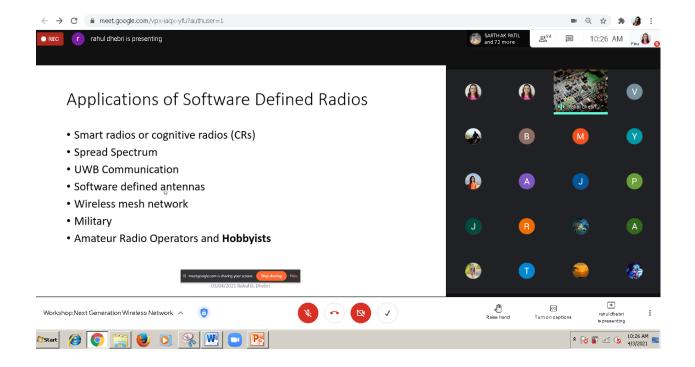


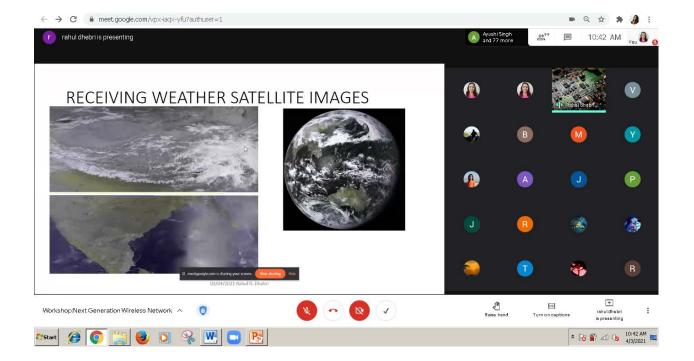


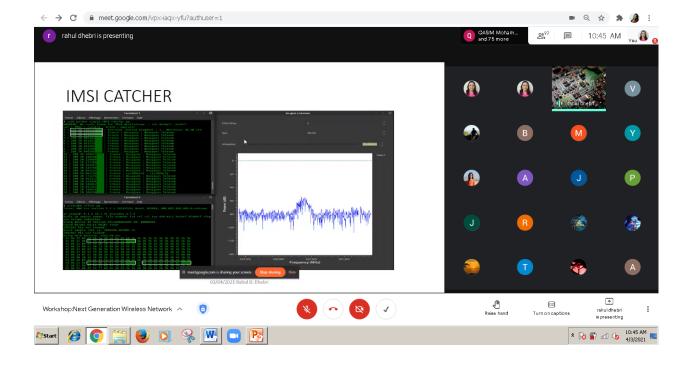


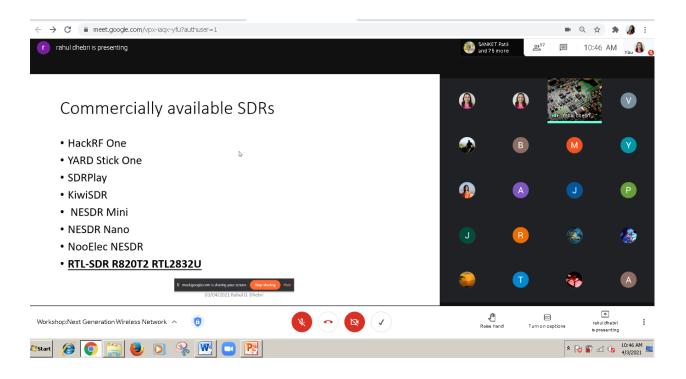


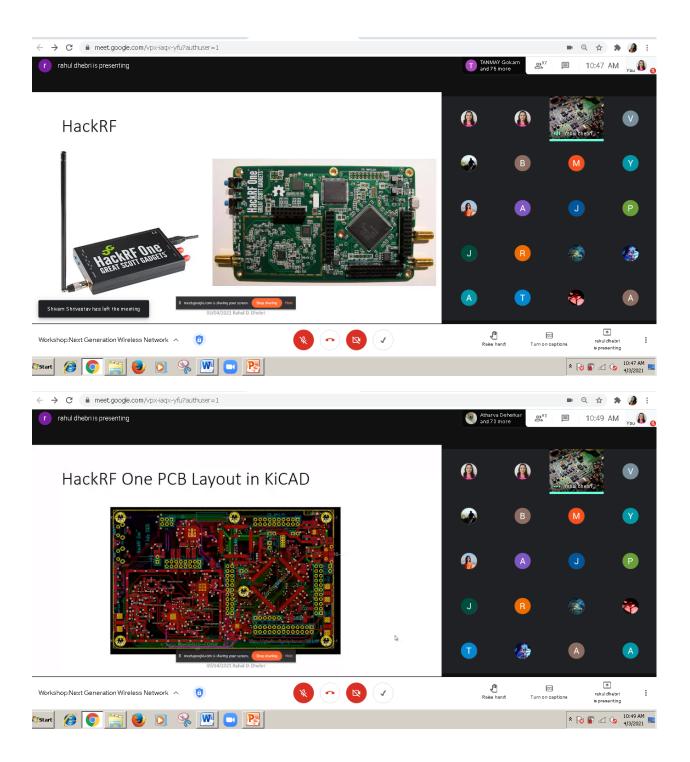


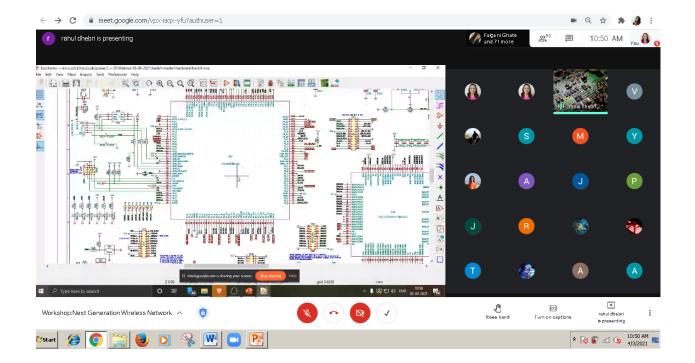


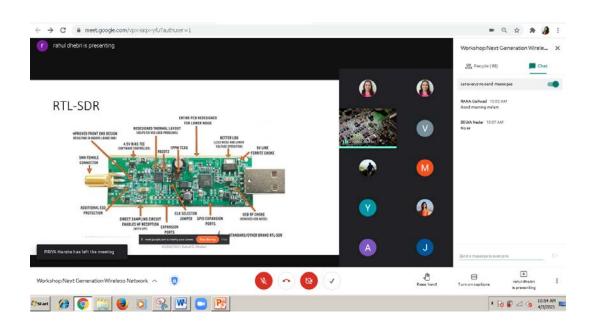


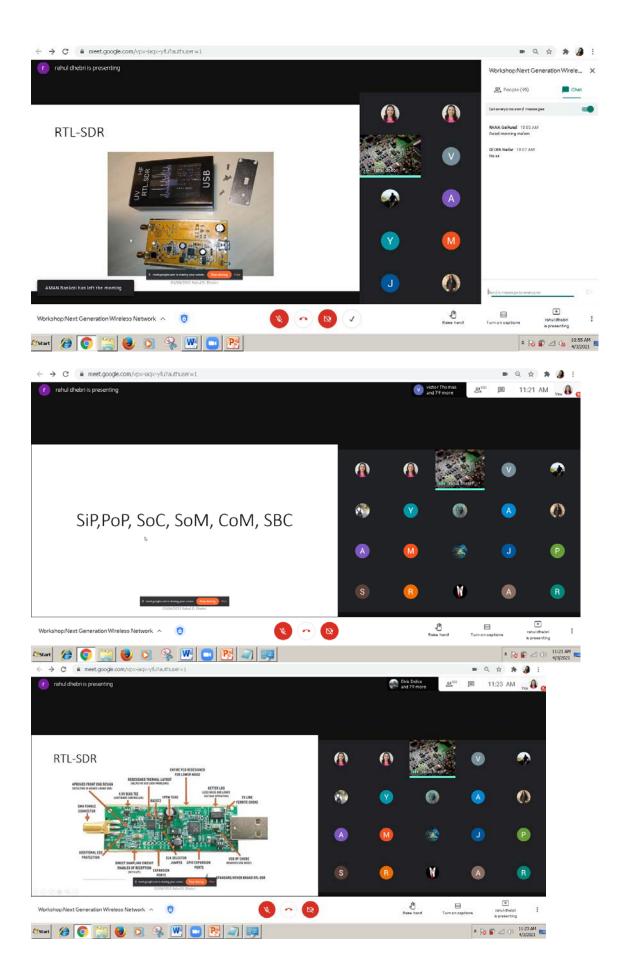


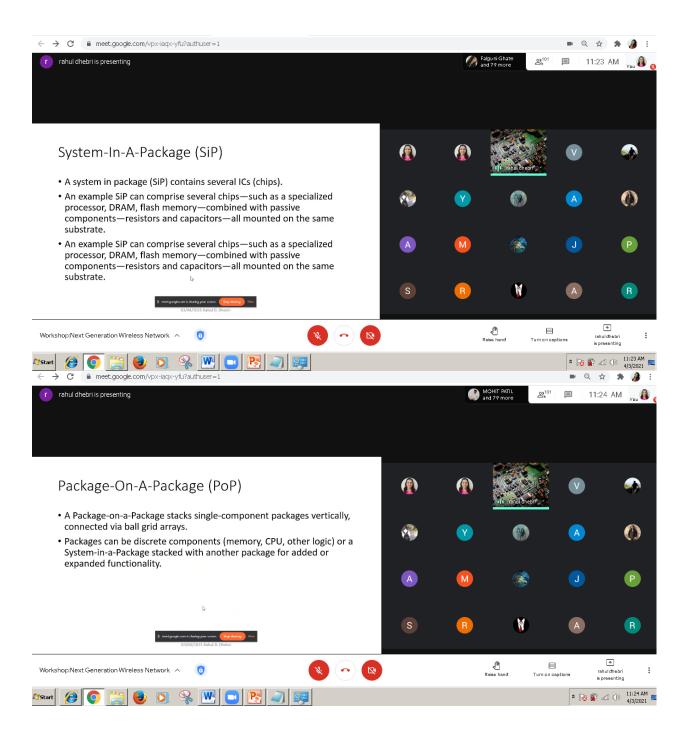


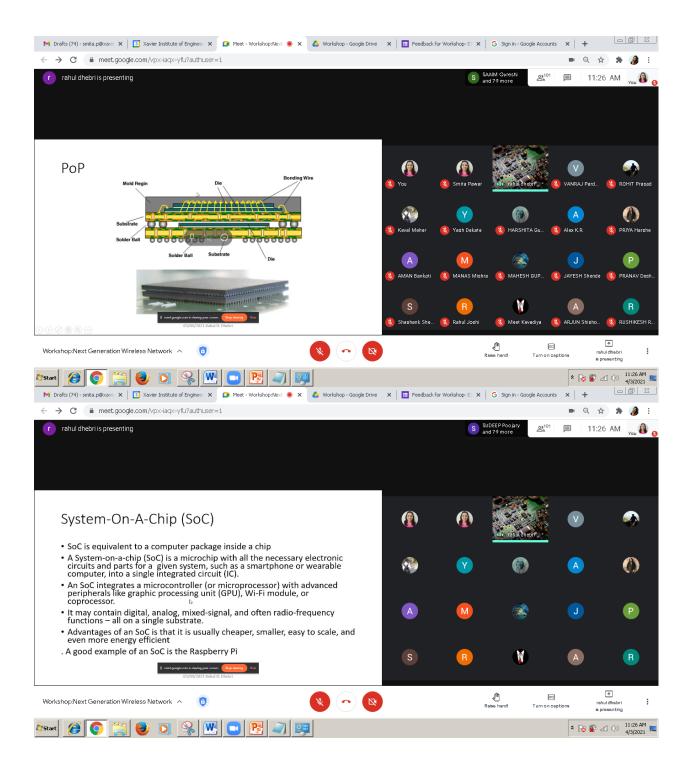


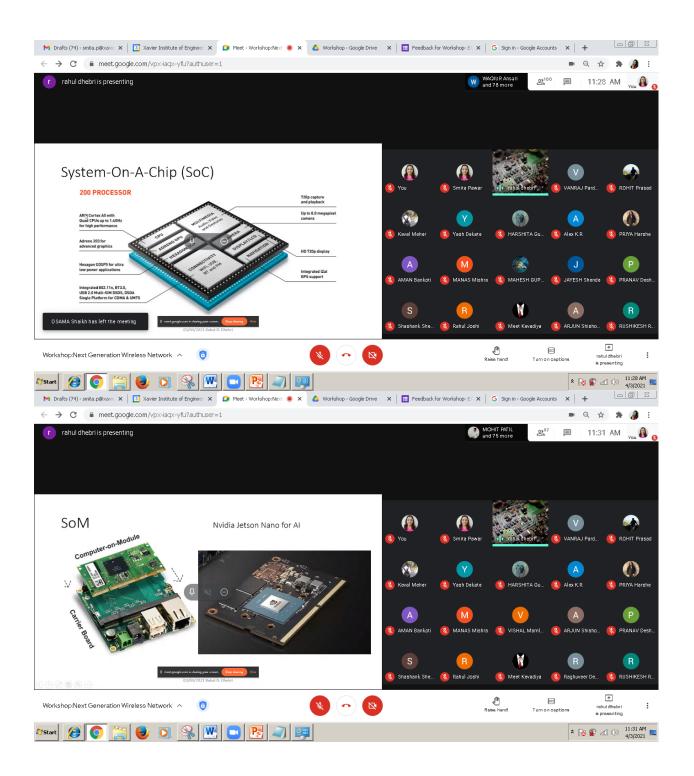


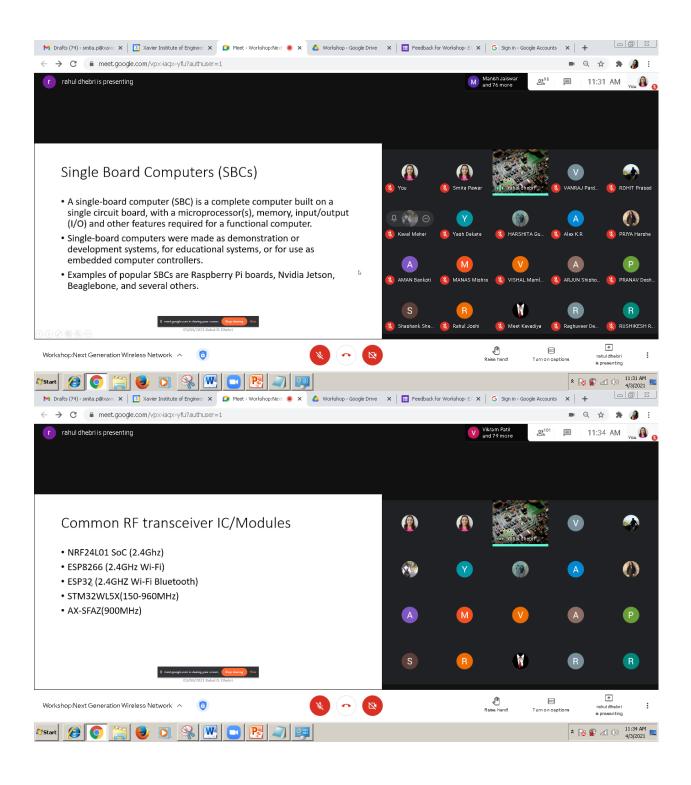


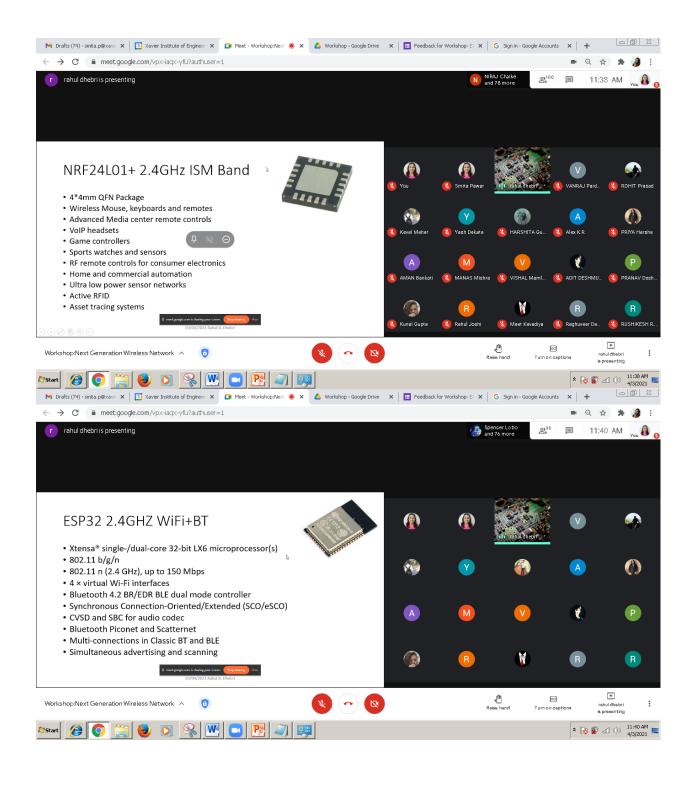


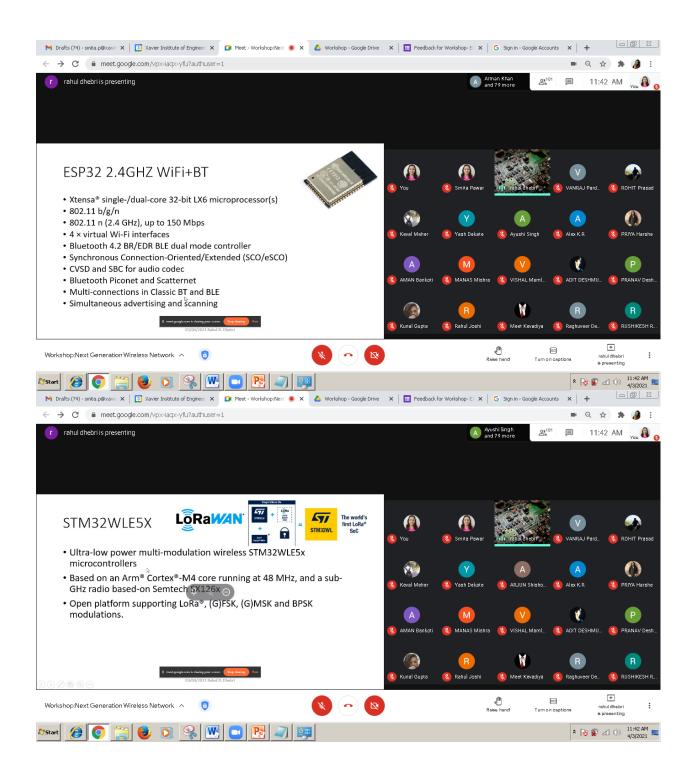


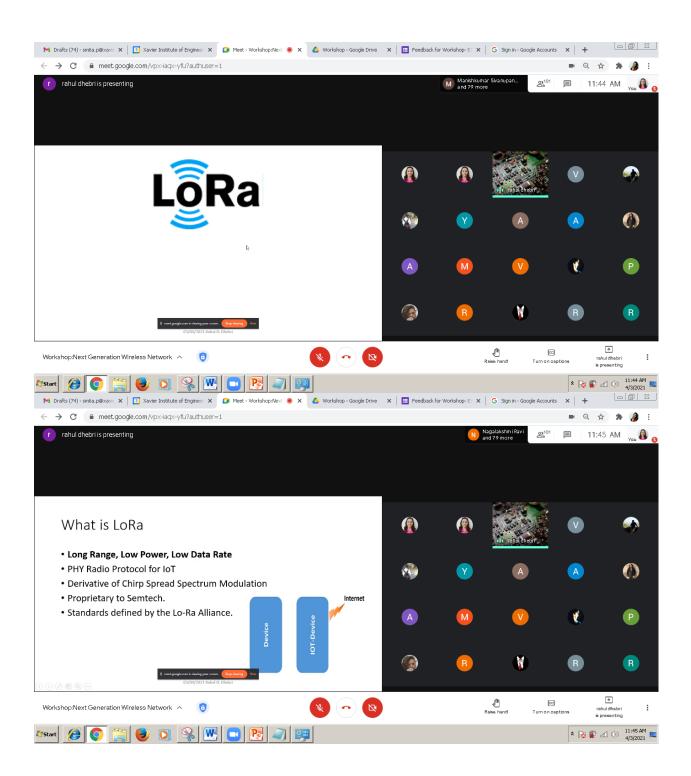


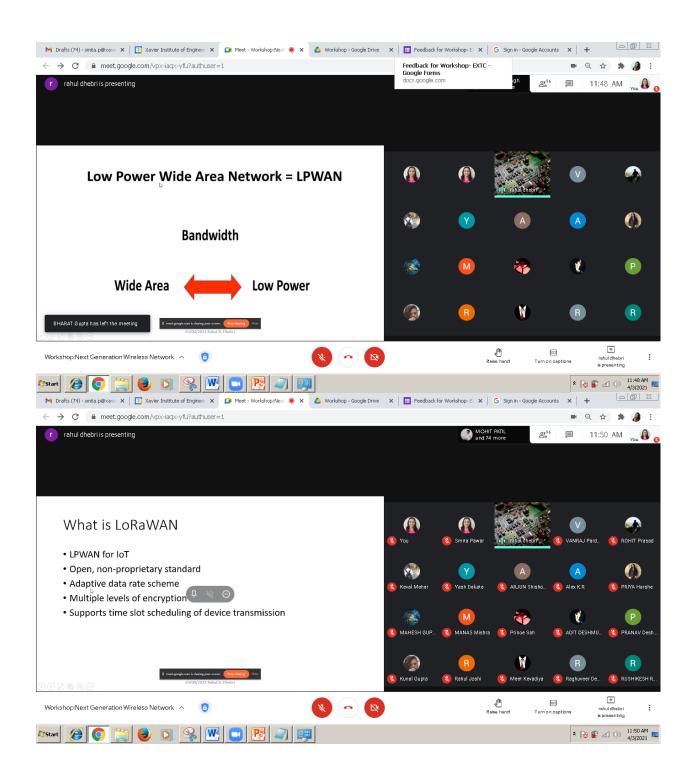


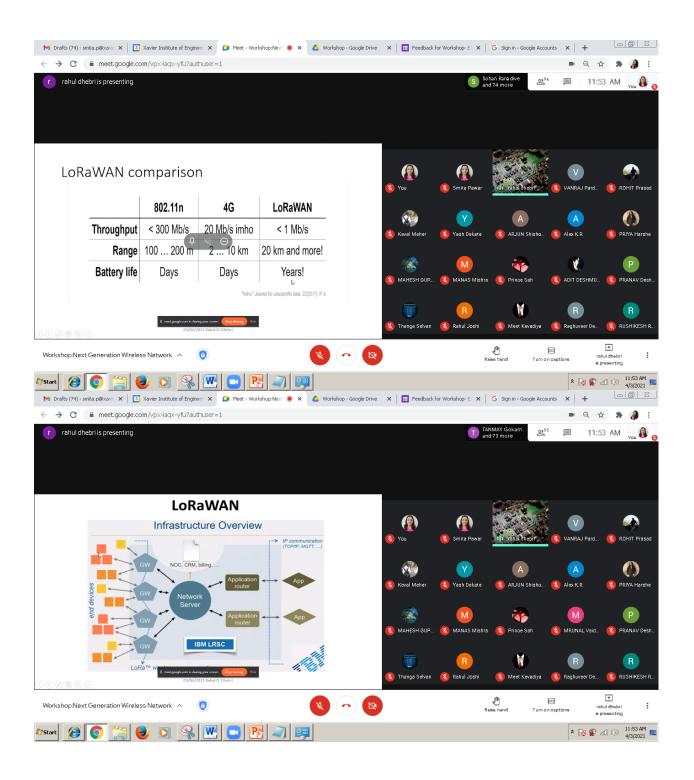


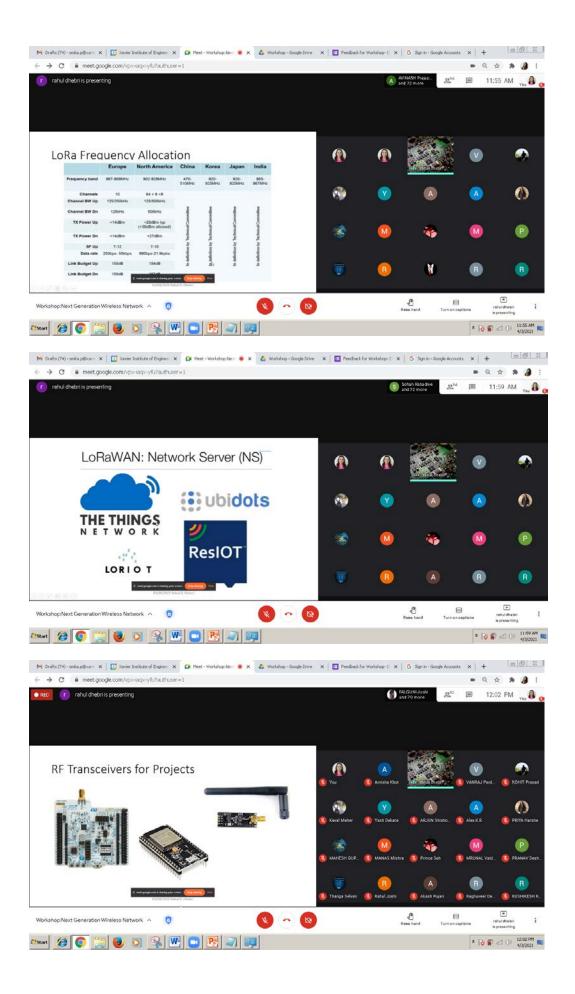


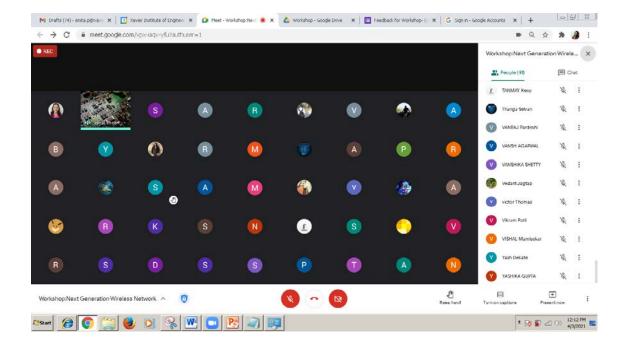












FEEDBACK:

Meet Kevadiya: It was an informative session

Swarashree Salvi: Would like to attend more such workshops

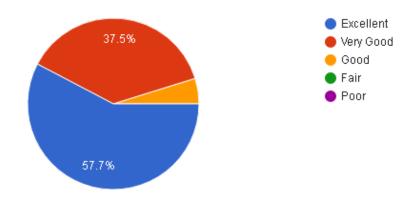
Rohit: would have been better to have a physical session

Elvis Dsilva: Pretty cool lecture would like to attend an actual offline workshop which could be more informative and fun

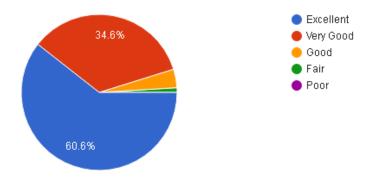
Vanraj Pardeshi: Session was overwhelming. Thank you for giving such an amazing knowledge

How was the overall organization of the session?

104 responses

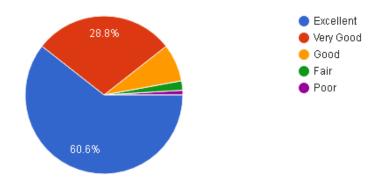


How relevant was the content discussed by the speaker? 104 responses



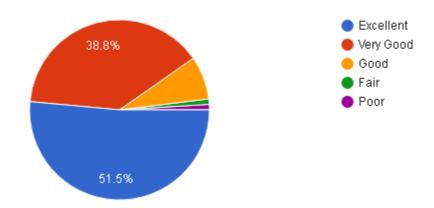
Are you satisfied with the time and venue/platform?

104 responses



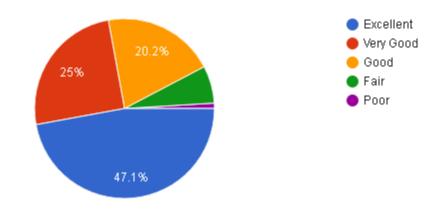
How much interesting this session was for you?

103 responses



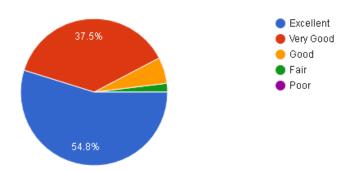
How was your preparation about the topic before the guest lecture?

104 responses

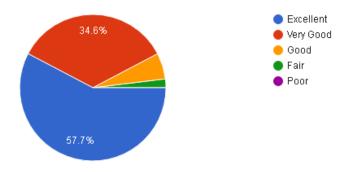


 $\label{eq:definition} \mbox{Did the lecture cover what you were expecting?}$

104 responses

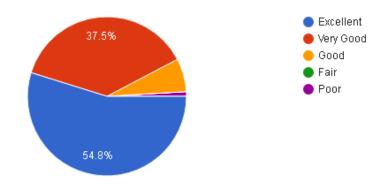


How much this session was useful from the knowledge and information point of view 104 responses



Overall effectiveness of the session

104 responses



CERTIFICATE FORMAT:



Prof. Smita Pawar

Dr. Vidya Sarode

Vidyelsbarade

Fr. Fabian Barreto, SJ

ARBarretosj

Workshop In charge HoD, EXTC

XIE ISF Coordinator