



## IET LECTURE SERIES

Conducted by

IEEE student branch of IET Lucknow

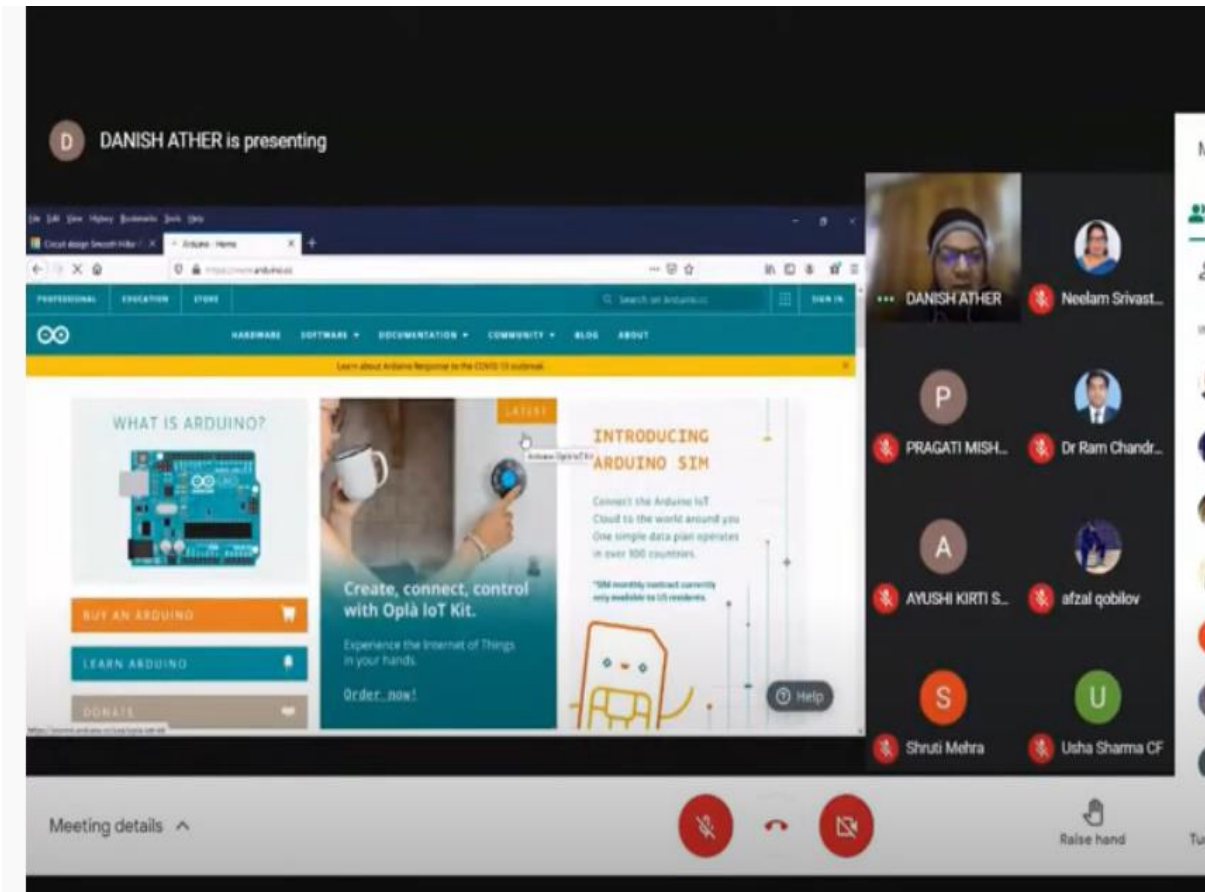
Department of Electronics and Communication Engineering  
Institute of Engineering and Technology, Lucknow.

IEEE student branch of Department of Electronics and Communication Engineering, Institute of engineering and technology conducted the lecture on every Saturday from 09-01-2021 to 06-02-2021. The all lectures were conducted via online using google meet platform also live on official YouTube channel of IET Lucknow. The details are given below:

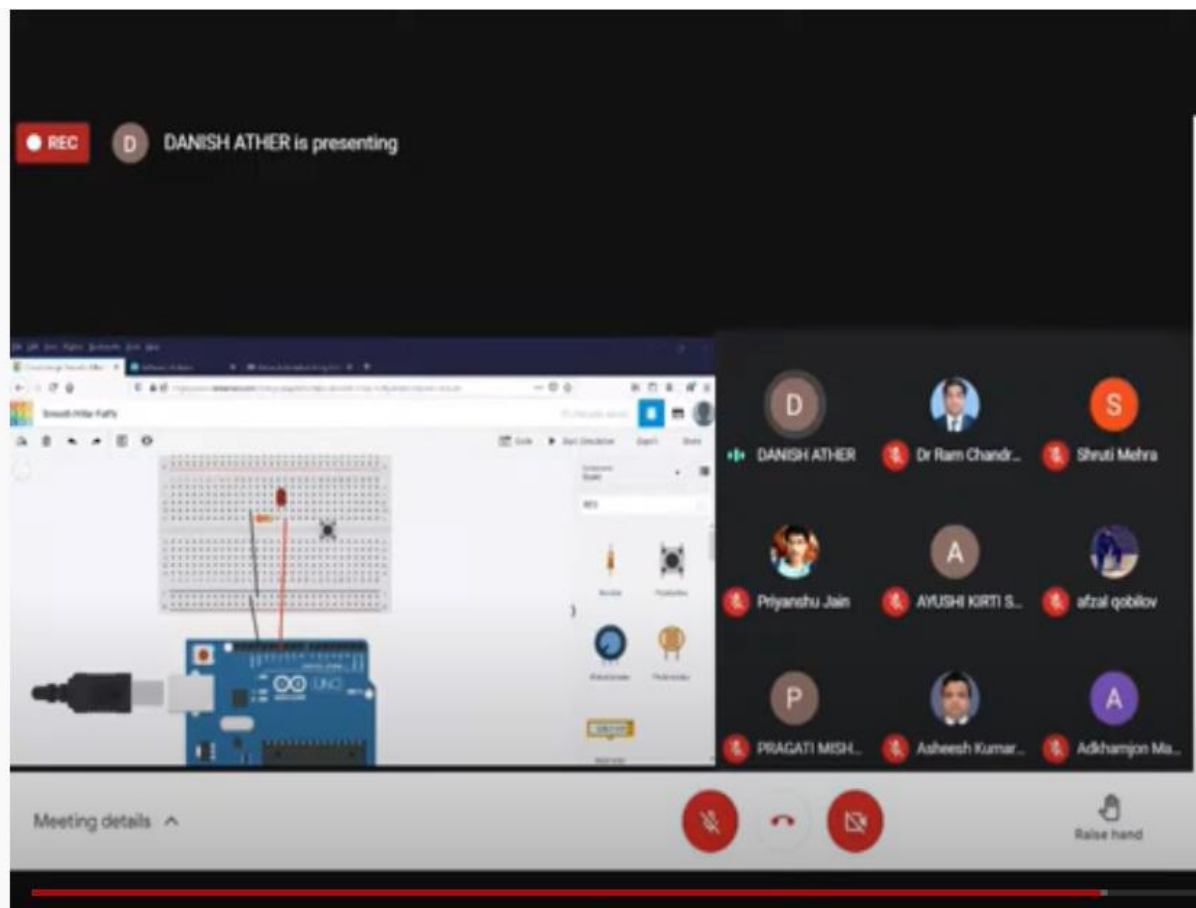
Name of faculty	Date and time	Link (google meet and YouTube)	Topic
Dr. Danish Ather Sharda University, Ujbekistan	09-01-2021 3:00-5:00 PM	<a href="https://meet.google.com/cni-wvrn-azc">https://meet.google.com/cni-wvrn-azc</a> <a href="https://youtu.be/dhp5821kPgI">https://youtu.be/dhp5821kPgI</a>	IoT hands on workshop on Arduino Microcontroller
Prof. Manoj Kumar Shukla ECE, HBTU, Kanpur	16-01-2021 3:00-5:00 PM	<a href="https://meet.google.com/bnp-qwxy-fzg">https://meet.google.com/bnp-qwxy-fzg</a> <a href="https://youtu.be/1VGfnCsKoZ4">https://youtu.be/1VGfnCsKoZ4</a>	WiMAX, IEEE 802.16 wireless protocol
Dr. Yogendra Kumar Prajapati MNNIT Allahabad	23-01-2021 3:00-5:00 PM	<a href="https://meet.google.com/vpe-zjmt-vna">https://meet.google.com/vpe-zjmt-vna</a> <a href="https://youtu.be/EyEtHbSlizo">https://youtu.be/EyEtHbSlizo</a>	Optical Wireless Communication
Dr. R. Gunasundari Pondicherry Technological University Puducherry	30-01-2021 3:00-5:00 PM	<a href="http://meet.google.com/zom-jwos-ofc">http://meet.google.com/zom-jwos-ofc</a> <a href="https://youtu.be/k7mJysfK9Dk">https://youtu.be/k7mJysfK9Dk</a>	Wireless sensor networks
Dr. Ka. Selvaradjou Pondicherry Technological University Puducherry	06-02-2021 3:00-5:00 PM	<a href="http://meet.google.com/phn-opmz-bui">http://meet.google.com/phn-opmz-bui</a> <a href="https://youtu.be/MpN_9xt774E">https://youtu.be/MpN_9xt774E</a>	Interface Standards for Microcontrollers

1. Department of Electronics and Communication Engineering, Institute of Engineering and Technology, Lucknow

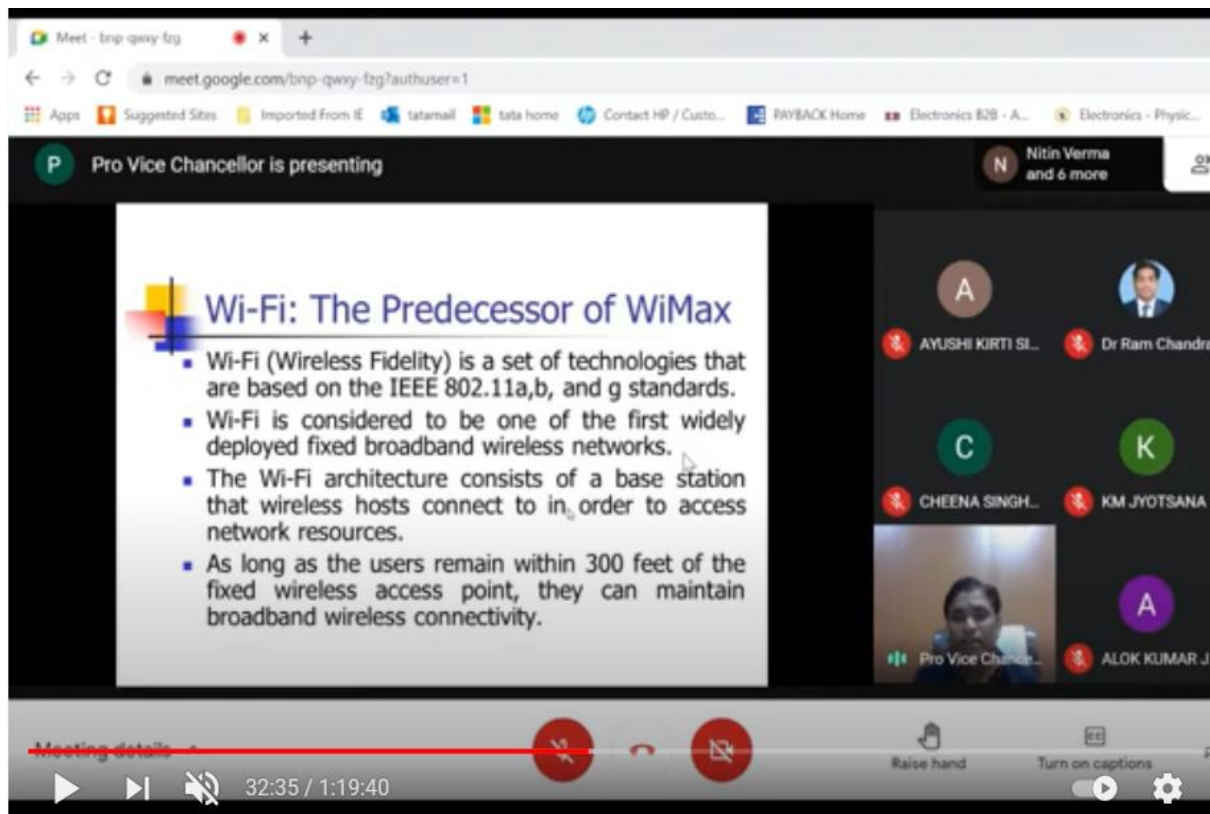
## GALLERY:



2. Department of Electronics and Communication Engineering, Institute of Engineering and Technology, Lucknow



3. Department of Electronics and Communication Engineering, Institute of Engineering and Technology, Lucknow



4. Department of Electronics and Communication Engineering, Institute of Engineering and Technology, Lucknow

REC Yogendra FACULTY is presenting RAHUL MISHRA IET Stu... and 17 more

## Challenges cont..

### Environmental factors

Diagram illustrating environmental factors affecting signal propagation. The factors shown are:

- Sunlight
- Window Attenuation
- Fog
- Building Motion
- Low Clouds
- Obstructions
- Scintillation
- Alignment
- Range

Each of these factors can "attenuate" (reduce) the signal. However, there are ways to mitigate each environmental factor.

Meeting details 1:11:28 / 2:01:14

Raise hand

REC Yogendra FACULTY is presenting Gayatri Tiwai IET Lucknow PhD Sc... and 10 more

## Market Growth

Global Free Space Optics Market Size and Forecast, 2015 - 2024  
(US\$ Million)

Year	Market Size (US\$ Million)
2015	10
2016	12
2017	15
2018	18
2019	22
2020	28
2021	35
2022	45
2023	60
2024	80

Source: Variant Market Research

38 21 January 2021

REC Dr. GUNASUNDARI R is presenting Rishabha Mishra IET Stu... and 49 more You

## Evolutionary or revolutionary technology

- ✓ In the evolutionary scenario, existing standards are gradually evolved towards a new technical standard.
- ✓ In contrast, the revolutionary policy necessitates a completely new approach to the problem, disregarding existing standards and consequently new standards will emerge.

Shweta Tripathi has left the meeting

Meeting details ^

Raise hand Turn on captions Dr. GUNASUNDARI R is presenting

Dr. Ram Chandra Singh C...  
Neelam Srivastava  
Dr. GUNASUNDARI R

6. Department of Electronics and Communication Engineering, Institute of Engineering and Technology, Lucknow



**Applications of Sensor Networks**

Home applications

- Home automation
- Instrumented environment
- Automated meter reading and more . . .

Commercial applications

- Environmental control in industrial and office buildings
- Inventory control
- Vehicle tracking and detection
- Traffic flow surveillance and more . . .

110

Dr. Ram Chandra Singh C...

AYUSHI KIRTI SINGH IET ...

Dr. GUNASUNDARI R

details ^

mute

raise hand

turn on captions

Dr. GUNASUNDARI R is presenting

Neelam Srivastava

Dr. Ram Chandra Singh C...

AYUSHI KIRTI SINGH IET

Aradjou Ka

details ^

mute

raise hand

turn on captions

Present now

7. Department of Electronics and Communication Engineering, Institute of Engineering and Technology, Lucknow

## Interrupts (contd..)

- Interrupt-requests interrupt the execution of a program, and may alter the intended sequence of events:
  - Sometimes such alterations may be undesirable, and must not be allowed.
  - For example, the processor may not want to be interrupted by the same device while executing its interrupt-service routine.
- Processors generally provide the ability to enable and disable such interruptions as desired.
- One simple way is to provide machine instructions such as *Interrupt-enable* and *Interrupt-disable* for this purpose.
- To avoid interruption by the same device during the execution of an interrupt service routine:
  - First instruction of an interrupt service routine can be Interrupt-disable.
  - Last instruction of an interrupt service routine can be Interrupt-enable.

Meeting details

raise hand turn on captions Dr. Selvaradjou Ka is presenting

## Display interface standards

- HDMI (High Definition Multimedia Interface)
- HDMI does not carry analog signal and hence is not compatible with VGA.
- HDMI supports digital audio, in addition to digital video.
- The HDMI allows a maximum screen resolution of  $2560 \times 1600$  pixels.

Dr. Selvaradjou Ka

Dr. Ram Chandra Singh C.

KM JYOTSANA IET Lucknow

raise hand turn on captions Dr. Selvaradjou Ka is presenting