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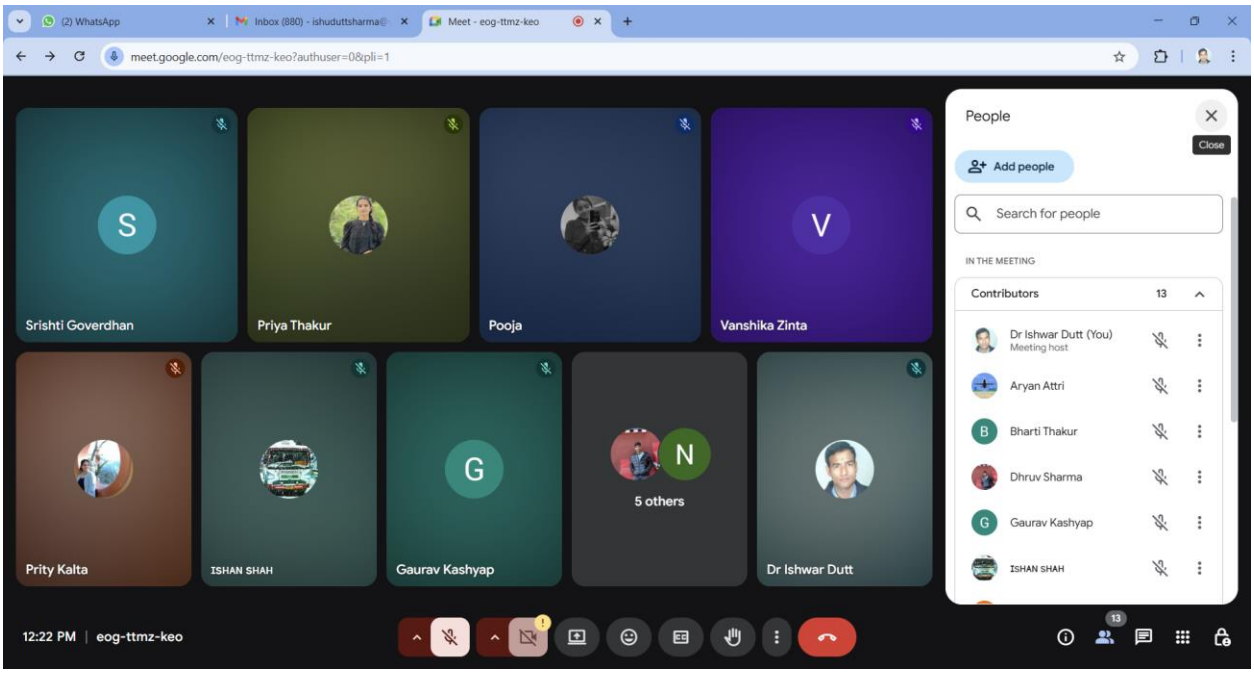
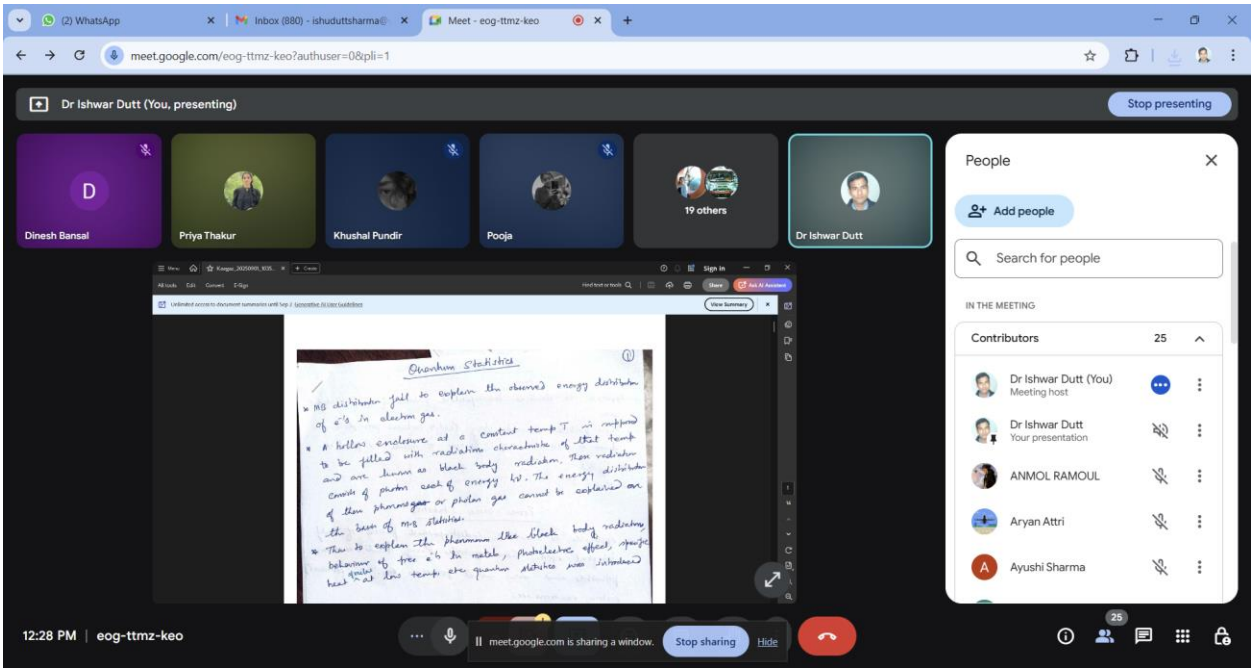
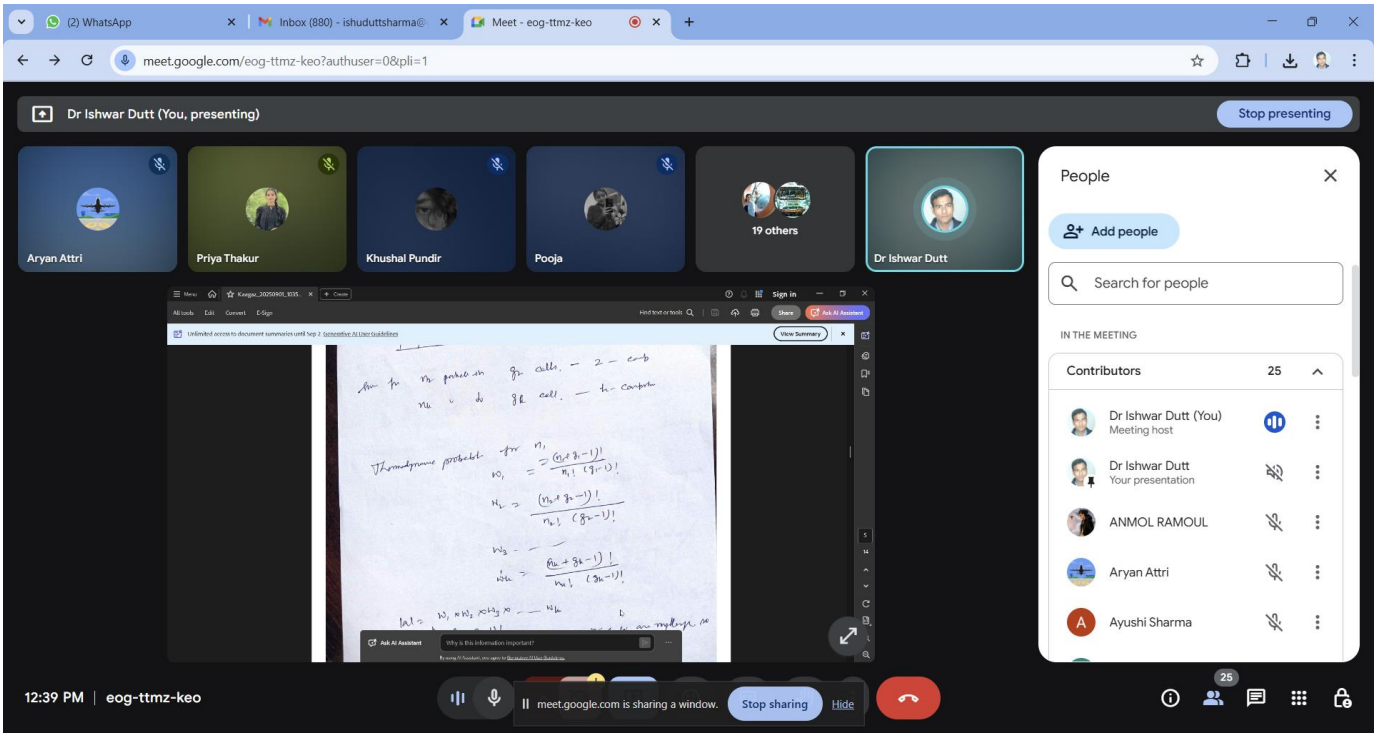
Statistical and Thermal Physics







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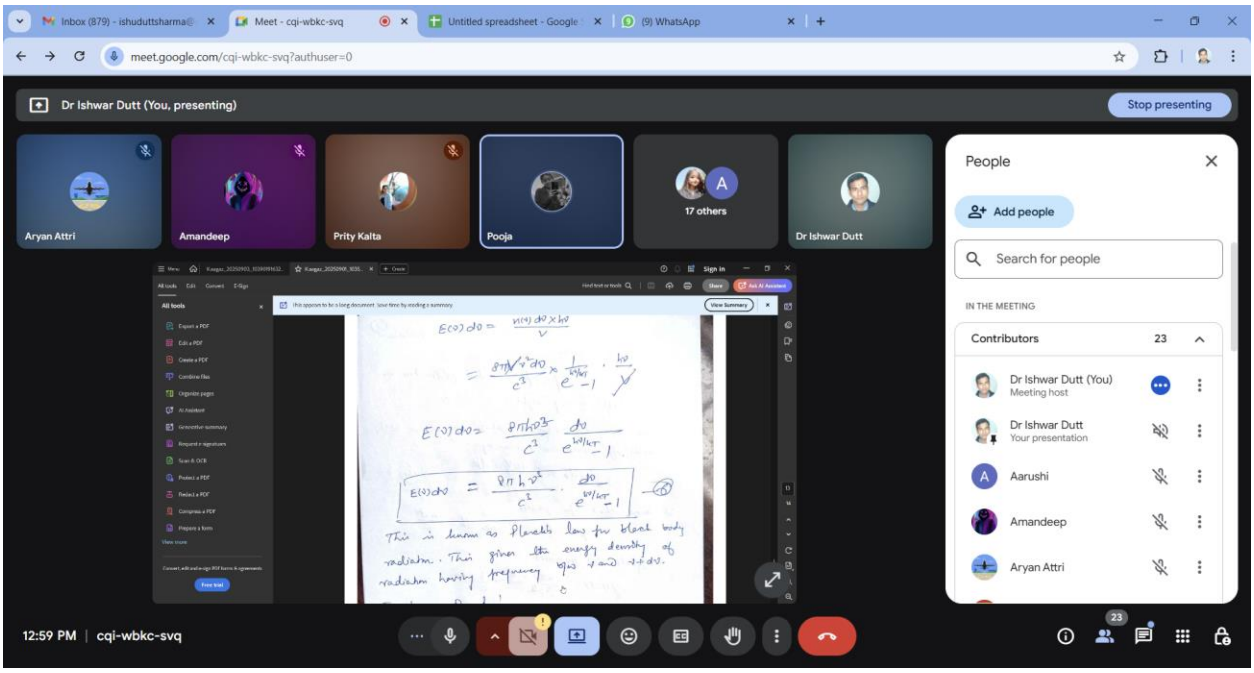
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This is known as Planck's law for black body radiation. This gives the energy density of radiation having frequency
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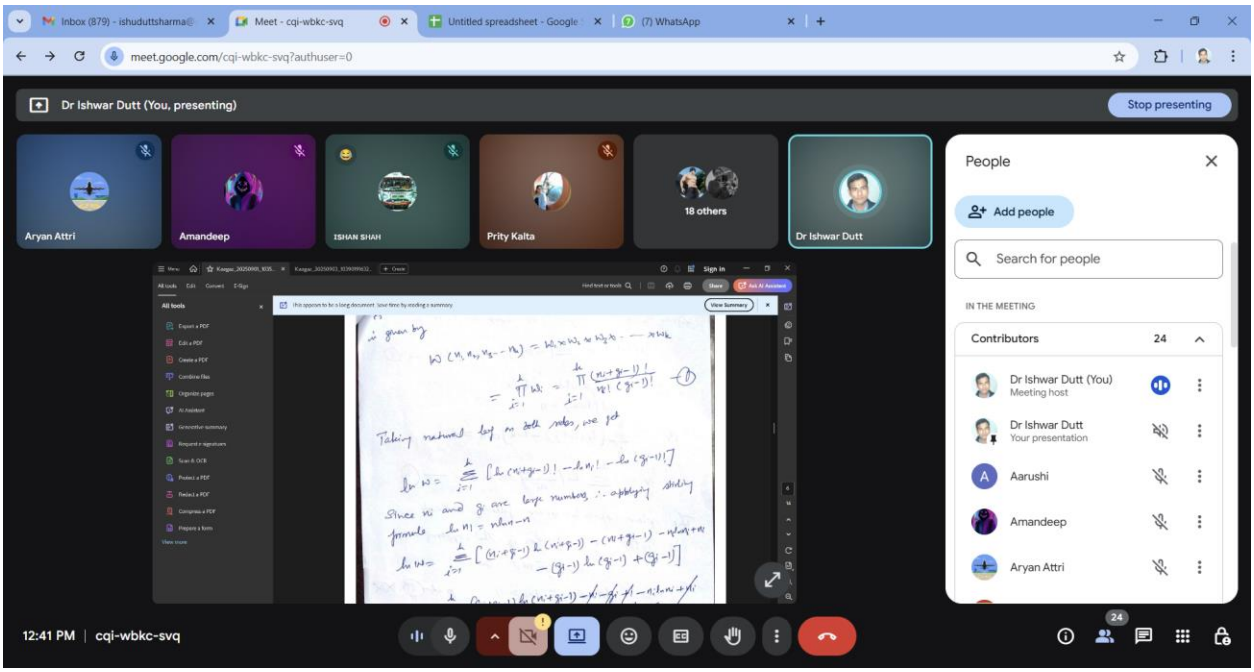
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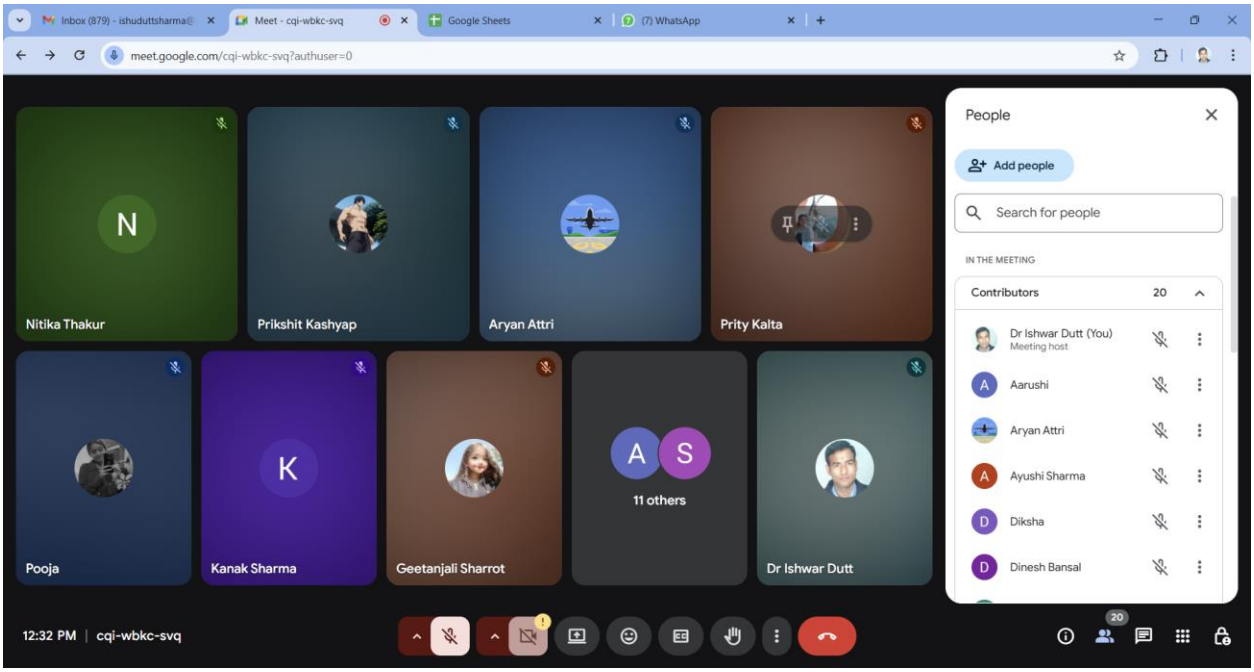
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Ayushi Sharma
Diksha
Dinesh Bansal
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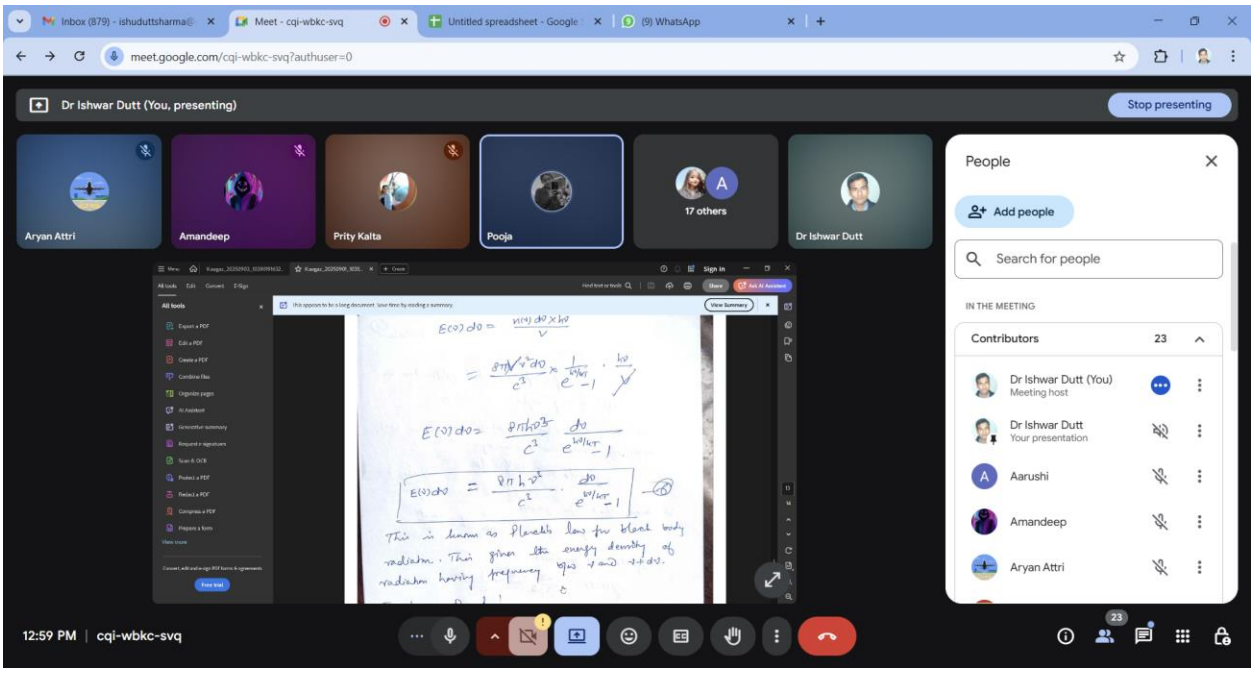

SEC Class

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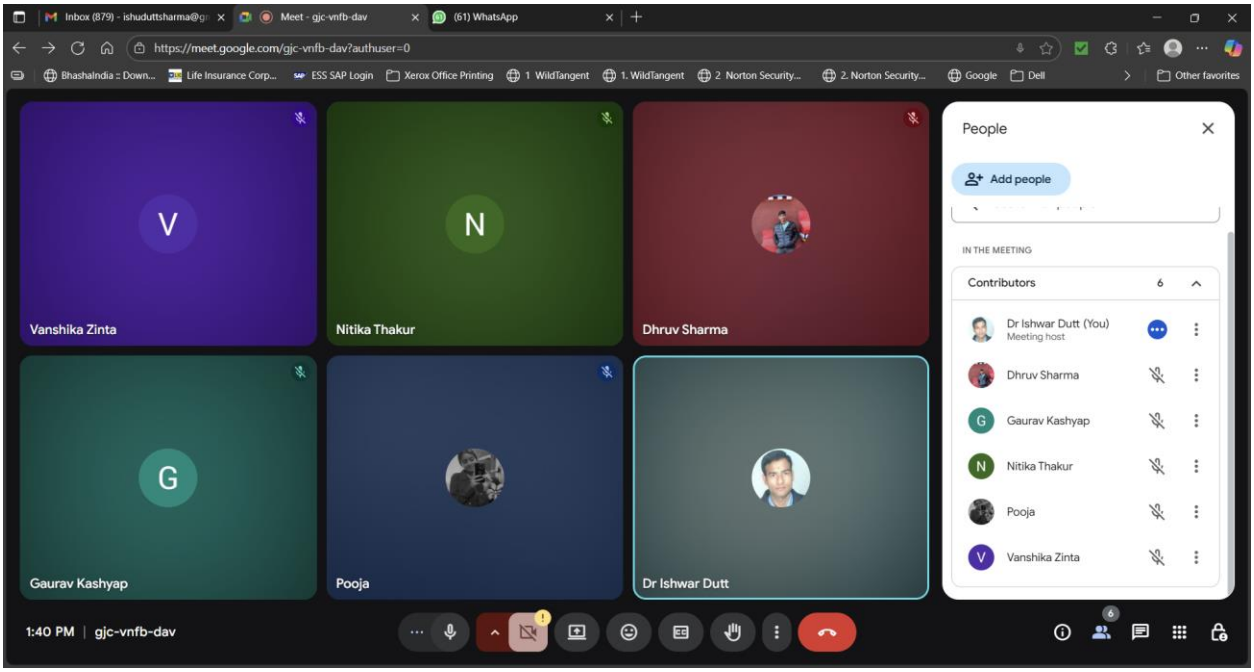

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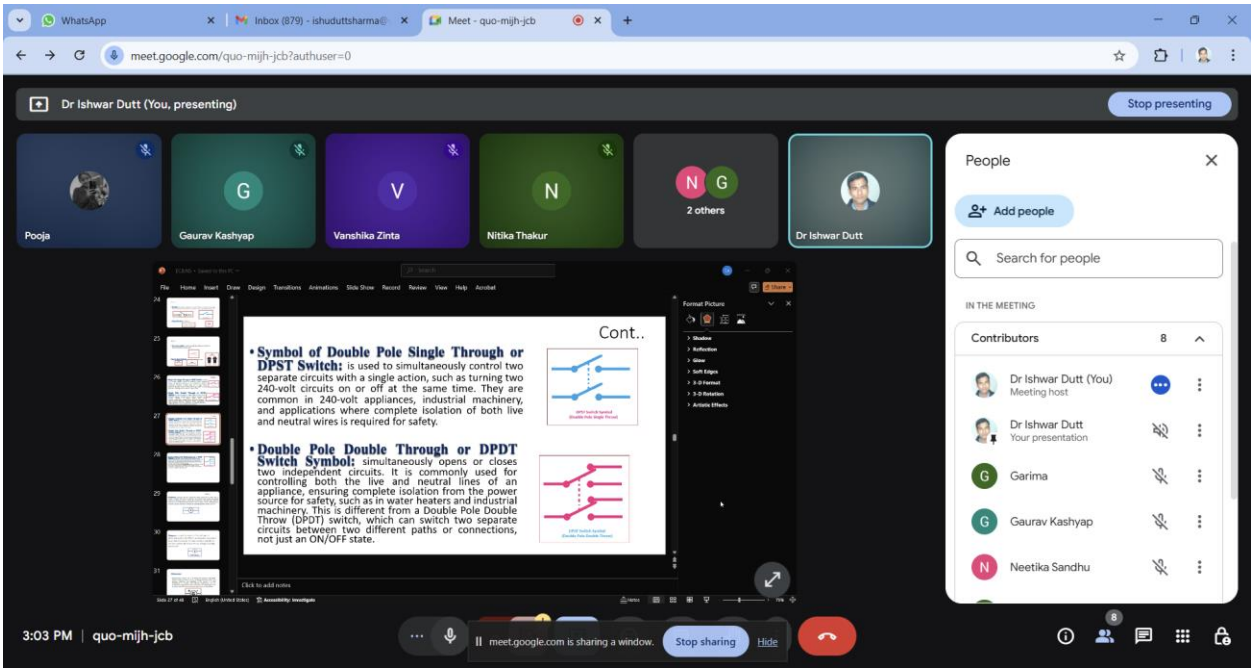

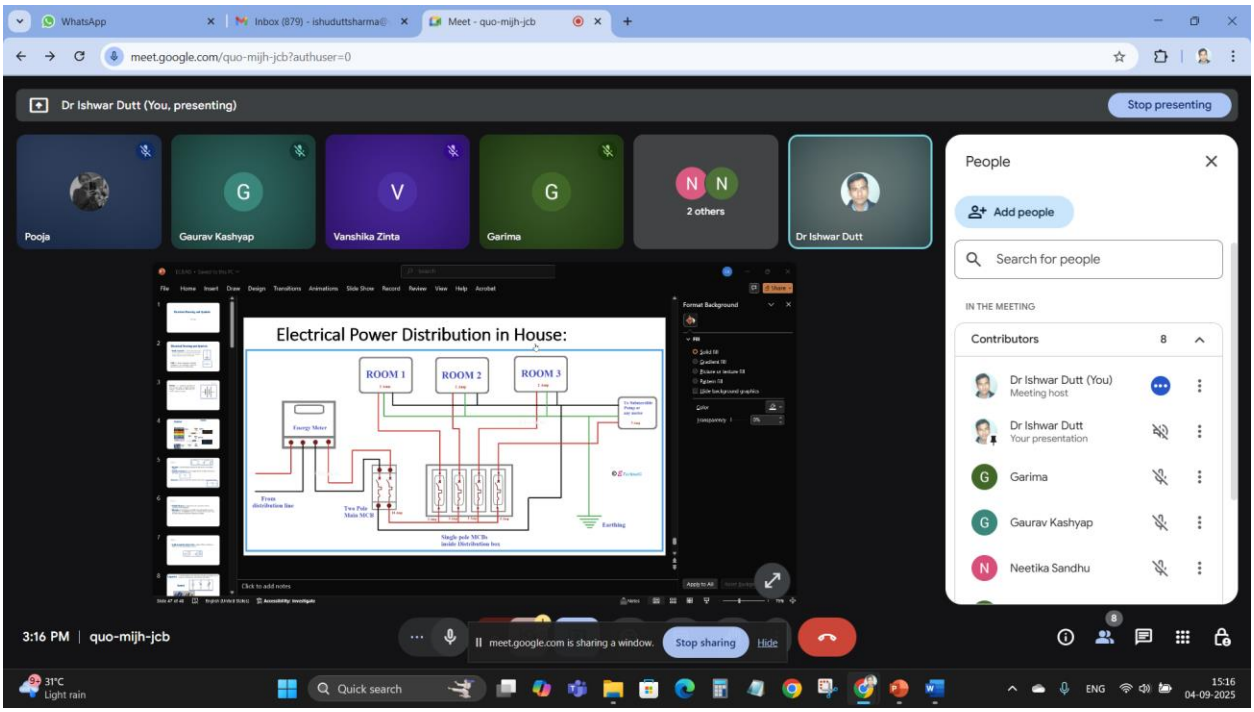

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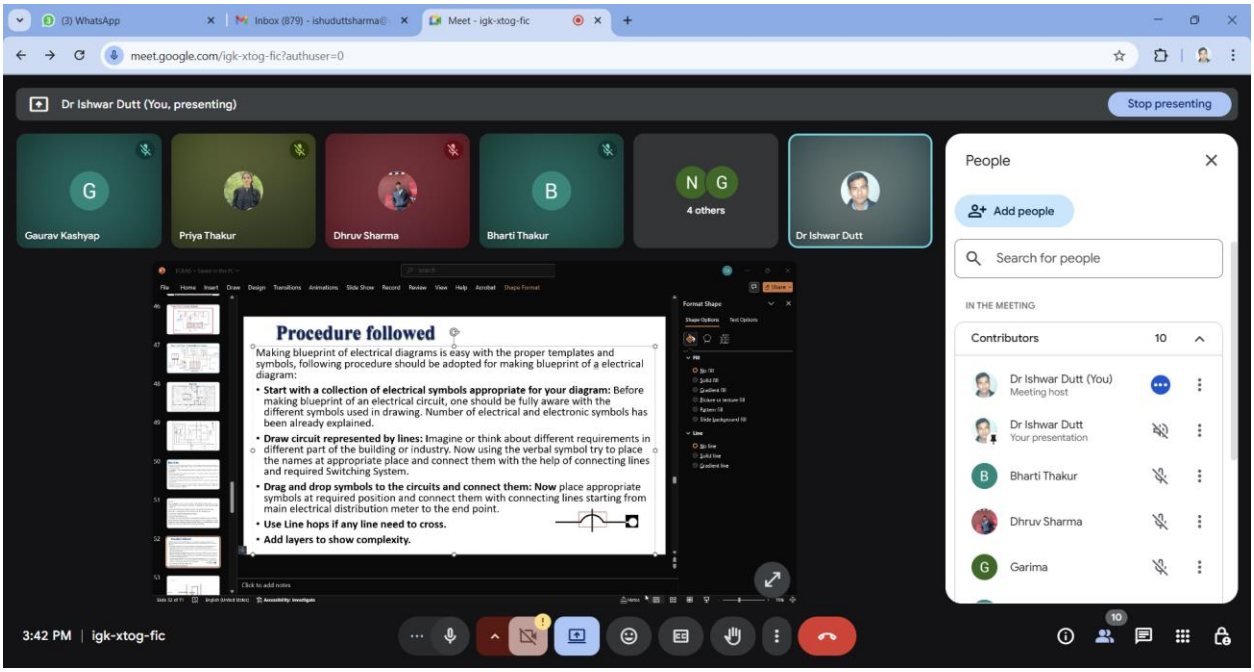

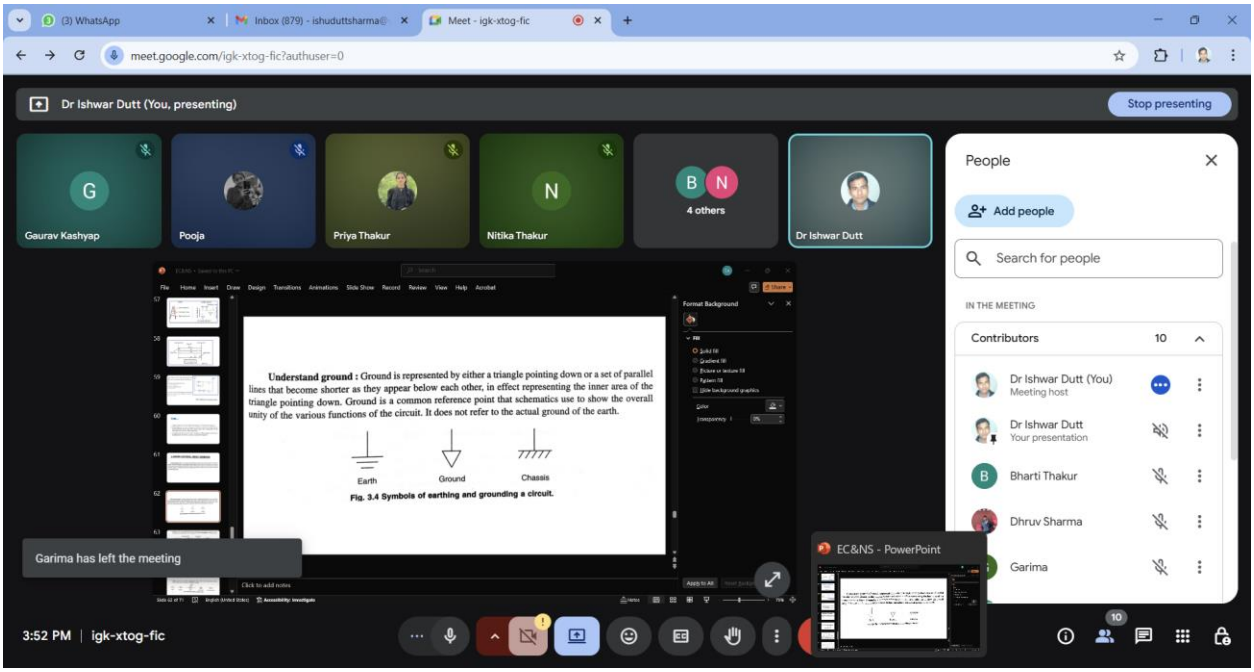

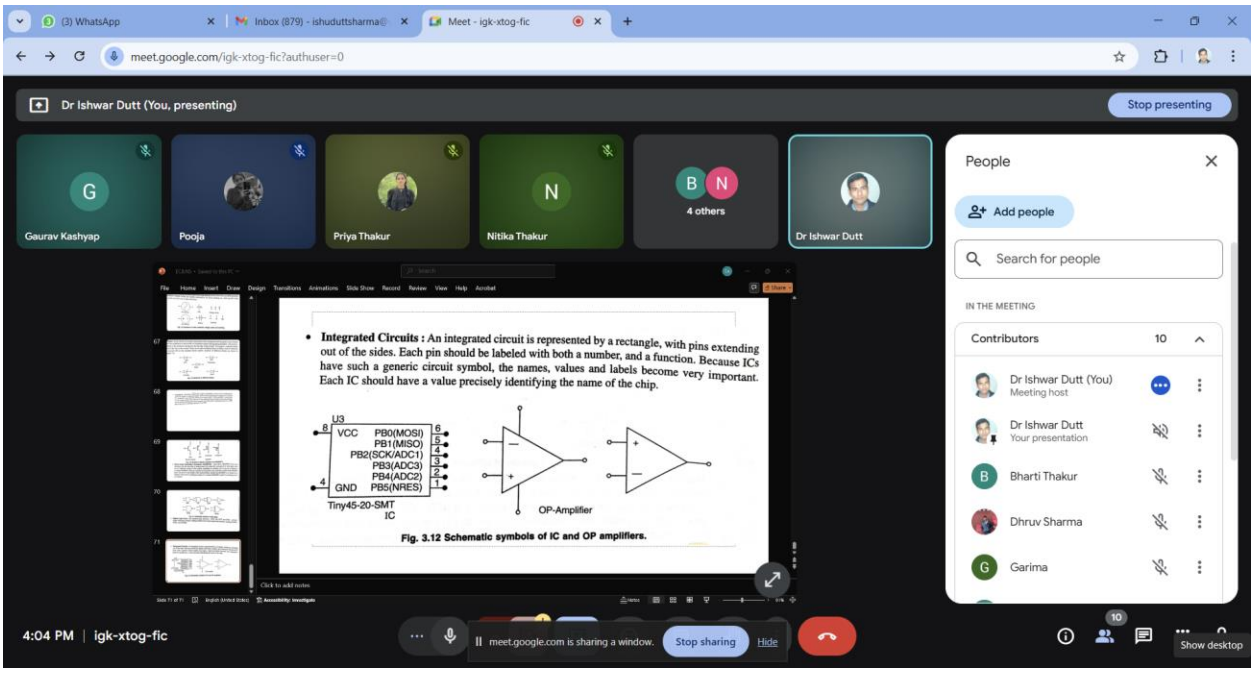

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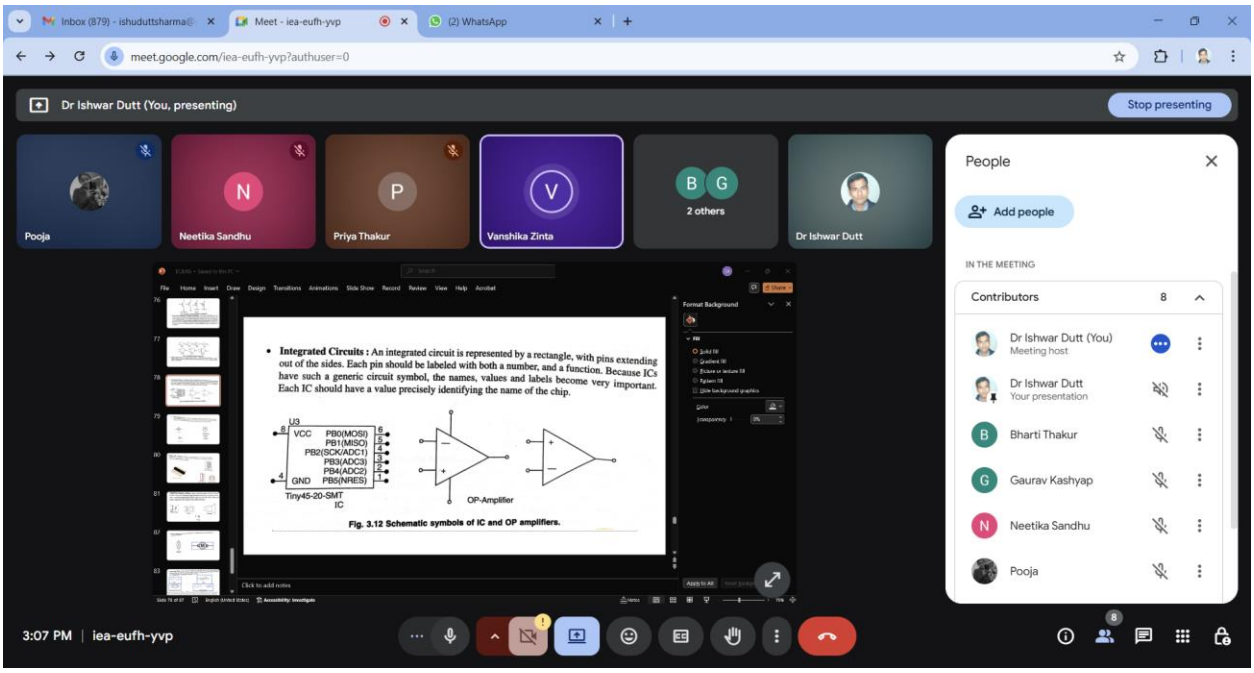
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Dr Ishwar Dutt
Your presentation
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Gaurav Kashyap
Neetika Sandhu
Pooja
Integrated Circuits : An integrated circuit is represented by a rectangle, with pins extending out of the sides. Each pin should be labeled with both a number, and a function. Because ICs have such a generic circuit symbol, the names, values and labels become very important. Each IC should have a value precisely identifying the name of the chip.
U3
VCC
GND
PB0(MOSI)
PB1(MISO)
PB2(SCK/ADC1)
PB3(ADC3)
PB4(ADC2)
PB5(NRES)
Tiny45-20-SMT IC
OP-Amplifier
Fig. 3.12 Schematic symbols of IC and OP amplifiers.
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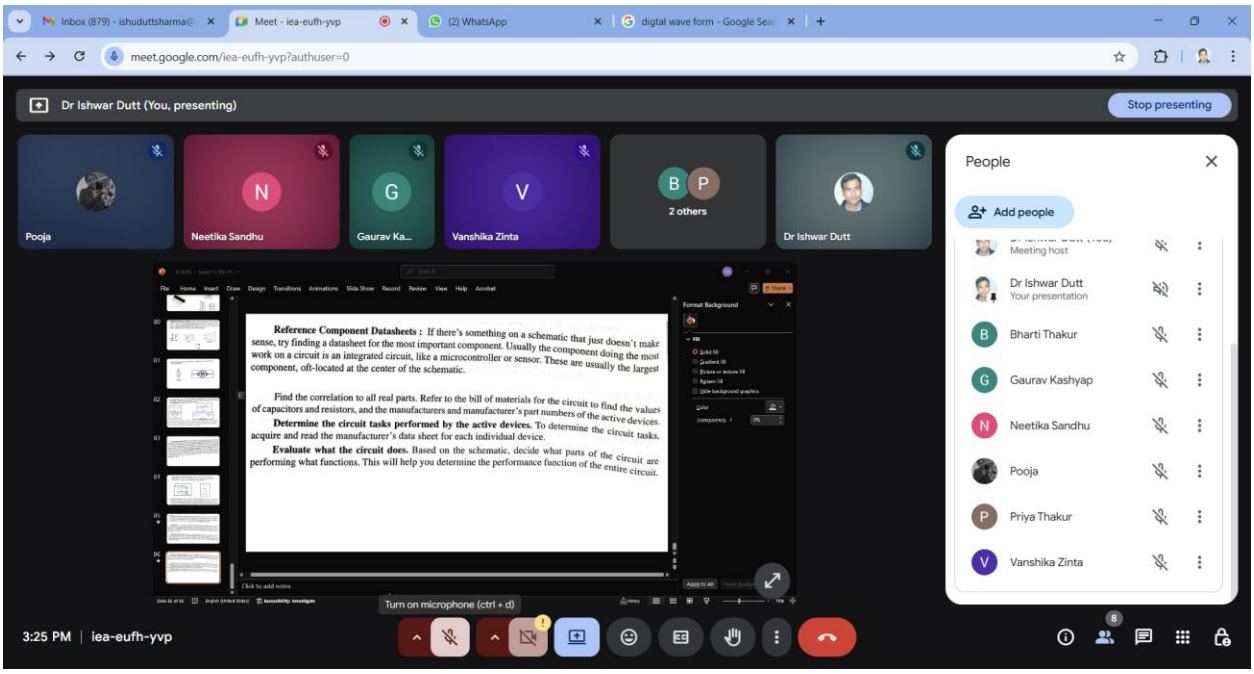
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Gaurav Ka...
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Gaurav Kashyap
Neetika Sandhu
Pooja
Priya Thakur
Vanshika Zinta
Reference Component Datasheets : If there's something on a schematic that just doesn't make sense, try finding a datasheet for the most important component. Usually the component doing the most work on a circuit is an integrated circuit, like a microcontroller or sensor. These are usually the largest component, oft-located at the center of the schematic.
Find the correlation to all real parts. Refer to the bill of materials for the circuit to find the values of capacitors and resistors, and the manufacturers and manufacturer's part numbers of the active devices.
Determine the circuit tasks performed by the active devices. To determine the circuit tasks, acquire and read the manufacturer's data sheet for each individual device.
Evaluate what the circuit does. Based on the schematic, decide what parts of the circuit are performing what functions. This will help you determine the performance function of the entire circuit.
Turn on microphone (ctrl + d)
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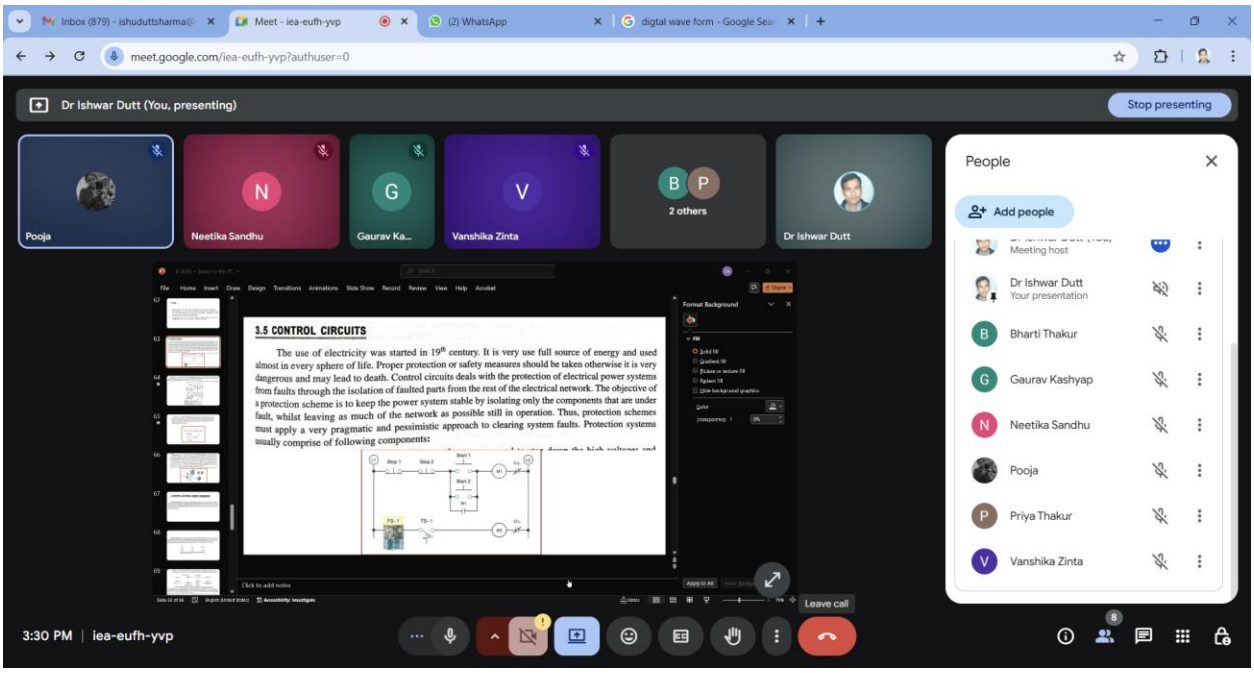
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Gaurav Ka...
Vanshika Zinta
2 others
Dr Ishwar Dutt
3.5 CONTROL CIRCUITS
The use of electricity was started in 19th century. It is very use full source of energy and used almost in every sphere of life. Proper protection or safety measures should be taken otherwise it is very dangerous and may lead to death. Control circuits deals with the protection of electrical power systems from faults through the isolation of faulted parts from the rest of the electrical network. The objective of a protection scheme is to keep the power system stable by isolating only the components that are under fault, whilst leaving as much of the network as possible still in operation. Thus, protection schemes must apply a very pragmatic and pessimistic approach to clearing system faults. Protection systems usually comprise of following components:
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