
INTERNATIONAL WEBINAR
on
Application of Physical Science in Emerging Fields
Organised by : Departments of Physics & Chemistry, Fakir Mohan Autonomous College, Balasore
Date : 15/01/2021 : 10 AM to 1 PM & 16/01/2021 : 10 AM to 11.30 AM
About the College
Fakir Mohan Autonomous College, Balasore is a leading institution of Higher Education in Odisha. It was established in the year 1944.
It is affiliated to Fakir Mohan University and imparting teaching in Graduate and Post-Graduate courses in different subjects. The students from the institution have occupied various higher posts in different parts of India and Abroad.
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Topics
15.01.2021
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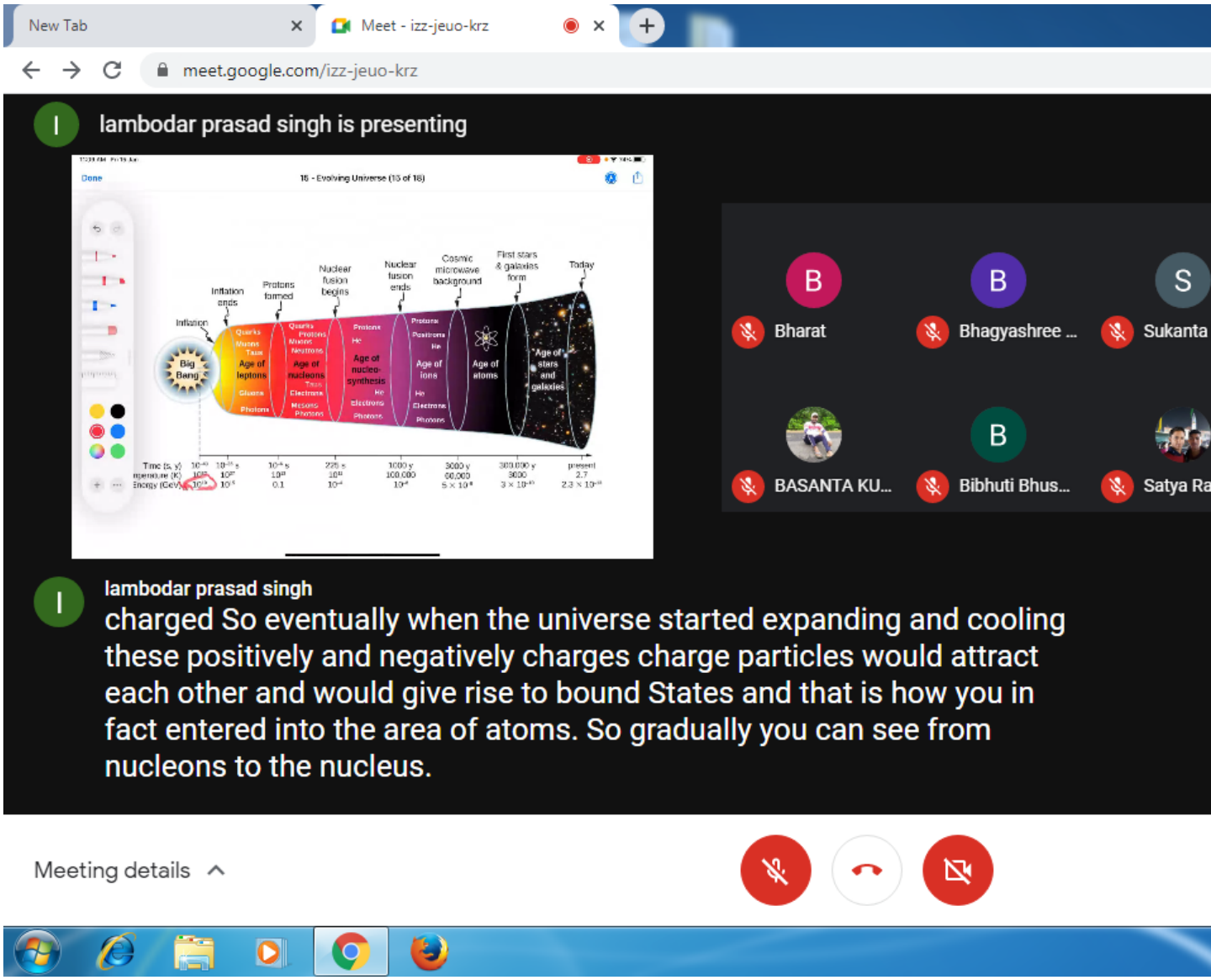
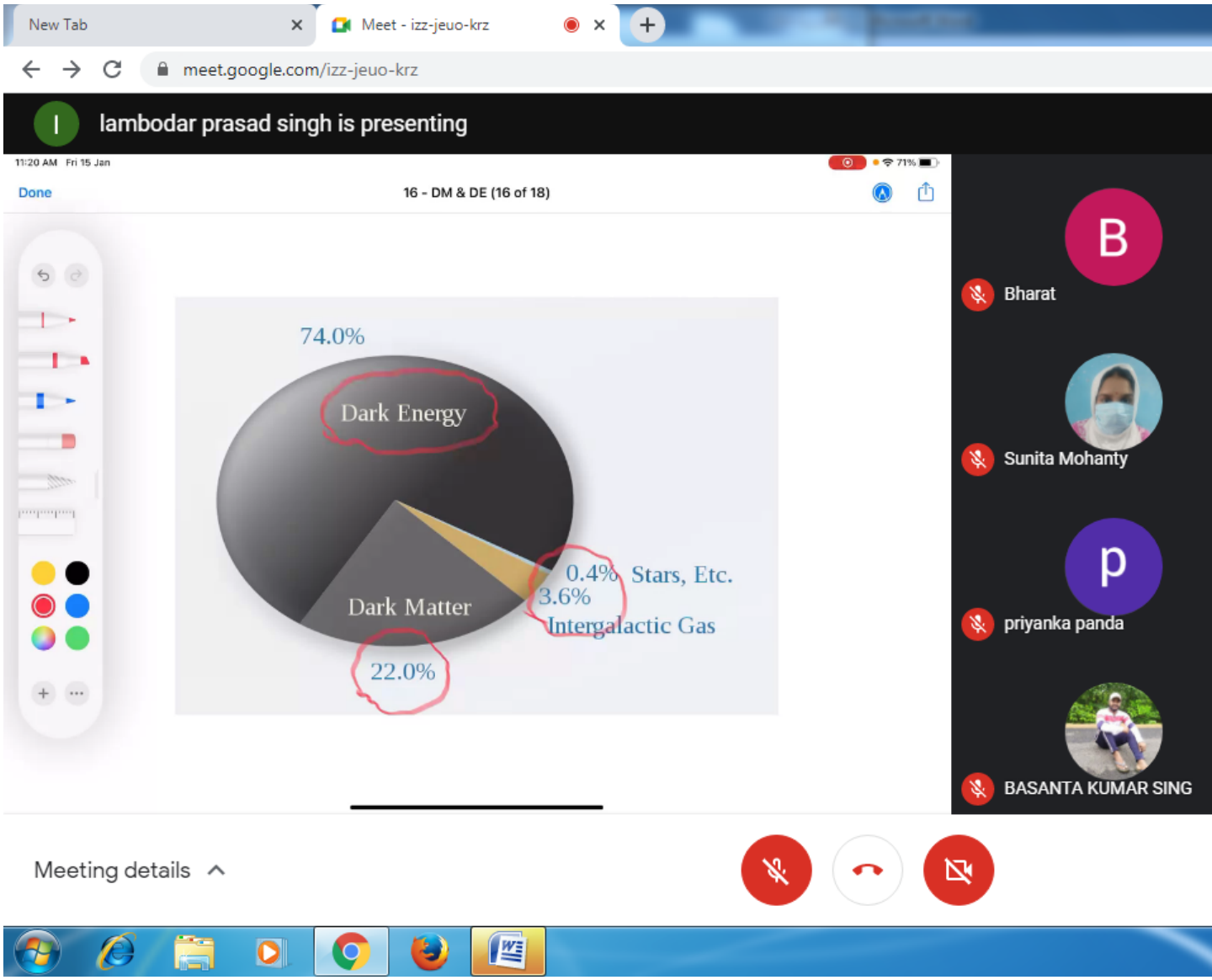
Retd. Prof. Utkal University
Bhubaneswar
Our Beautiful Universe
Shri Jagganath Jena
Research Scholar
Max Planck Institute, Germany
Topological Spin textures in Magnetism : From Fundamental to Technological Applications
16/01/2021
Dr. Purnendu Parhi
Asst. Prof.
Ravenshaw University, Cuttack
Recent Development in Photocsatalysis
ABOUT THE WEBINAR
This Webinar is organised as a joint venture of Physcis and Chemistry Departments of Fakir Mohan Autonomous College, Balasore. It Covers the topics related to Photocatalysis, Cosmology and Magnetism.
Link for Registration form : https://forms.gle/WBqRpjcqvHry5xeQ6
Link for Whatsapp Group:
Link for Webinar Platform will be provided one day before.

DAY-1


New Tab
Meet - izz-jeuo-krz
meet.google.com/izz-jeuo-krz
lambodar prasad singh is presenting
Done
16 - Evolving Universe (15 of 16)
Inflation
Inflation ends
Protons formed
Nuclear fusion begins
Nuclear fusion ends
Cosmic microwave background
First stars & galaxies form
Today
Big Bang
Age of leptons
Age of nucleons
Age of nucleo-synthesis
Age of ions
Age of atoms
Age of stars and galaxies
Bharat
Bhagyashree ...
Sukanta
BASANTA KU...
Bibhuti Bhus...
Satya Ra
lambodar prasad singh
charged So eventually when the universe started expanding and cooling these positively and negatively charges charge particles would attract each other and would give rise to bound States and that is how you in fact entered into the area of atoms. So gradually you can see from nucleons to the nucleus.
Meeting details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lambodar prasad singh is presenting
11:20 AM Fri 15 Jan
Done
16 - DM & DE (16 of 18)
74.0%
Dark Energy
Dark Matter
22.0%
0.4% Stars, Etc.
3.6%
Intergalactic Gas
Bharat
Sunita Mohanty
priyanka panda
BASANTA KUMAR SING
Meeting details

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lambodar prasad singh is presenting

11:24 AM Fri 15 Jan

Done

18- NATARAJ CERN (19 of 19)

JYOTIPRAKASH BARIK

Sunita Mohanty

B

Bharat

BASANTA KUMAR SING

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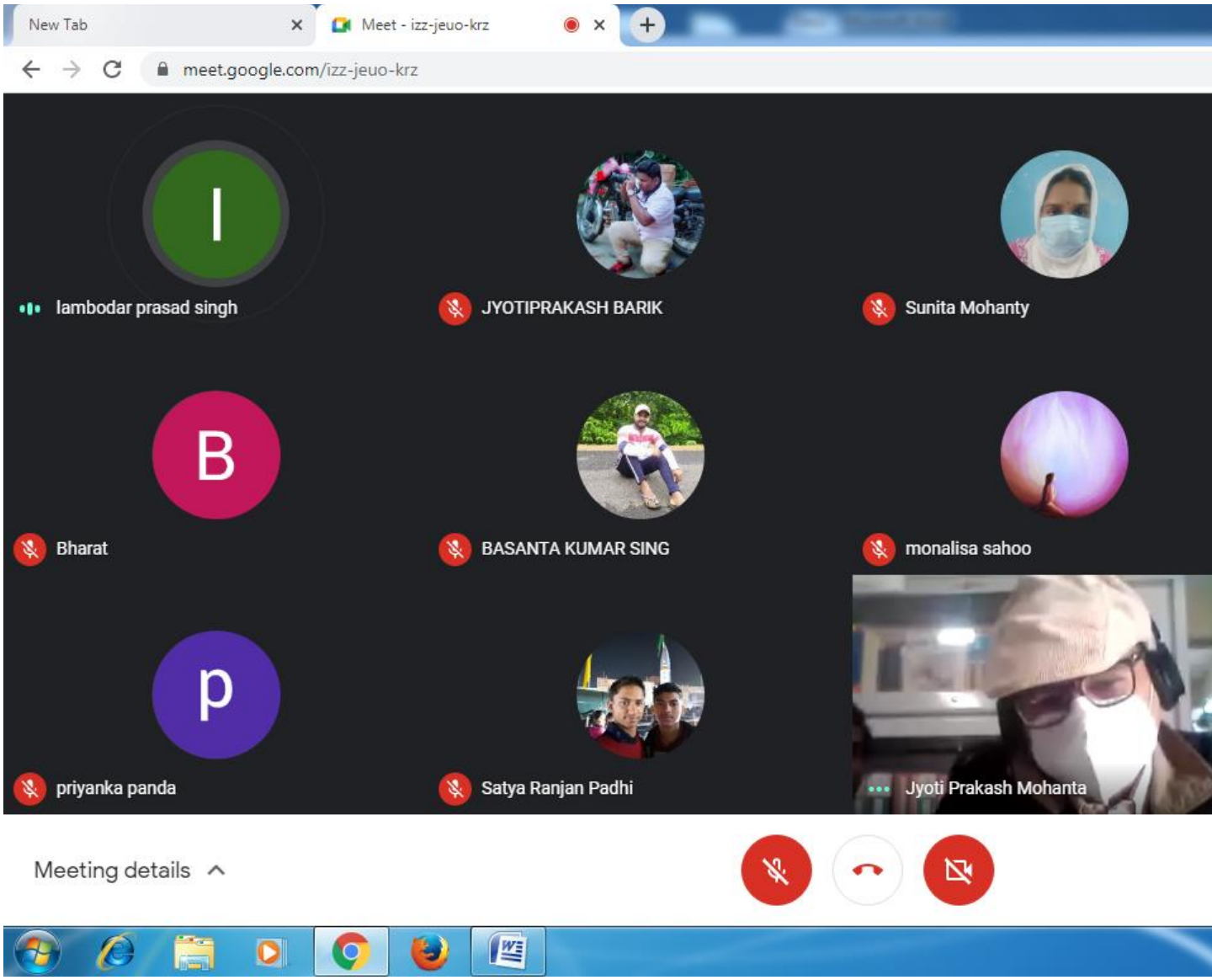
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p
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Jyoti Prakash Mohanta
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Meeting details


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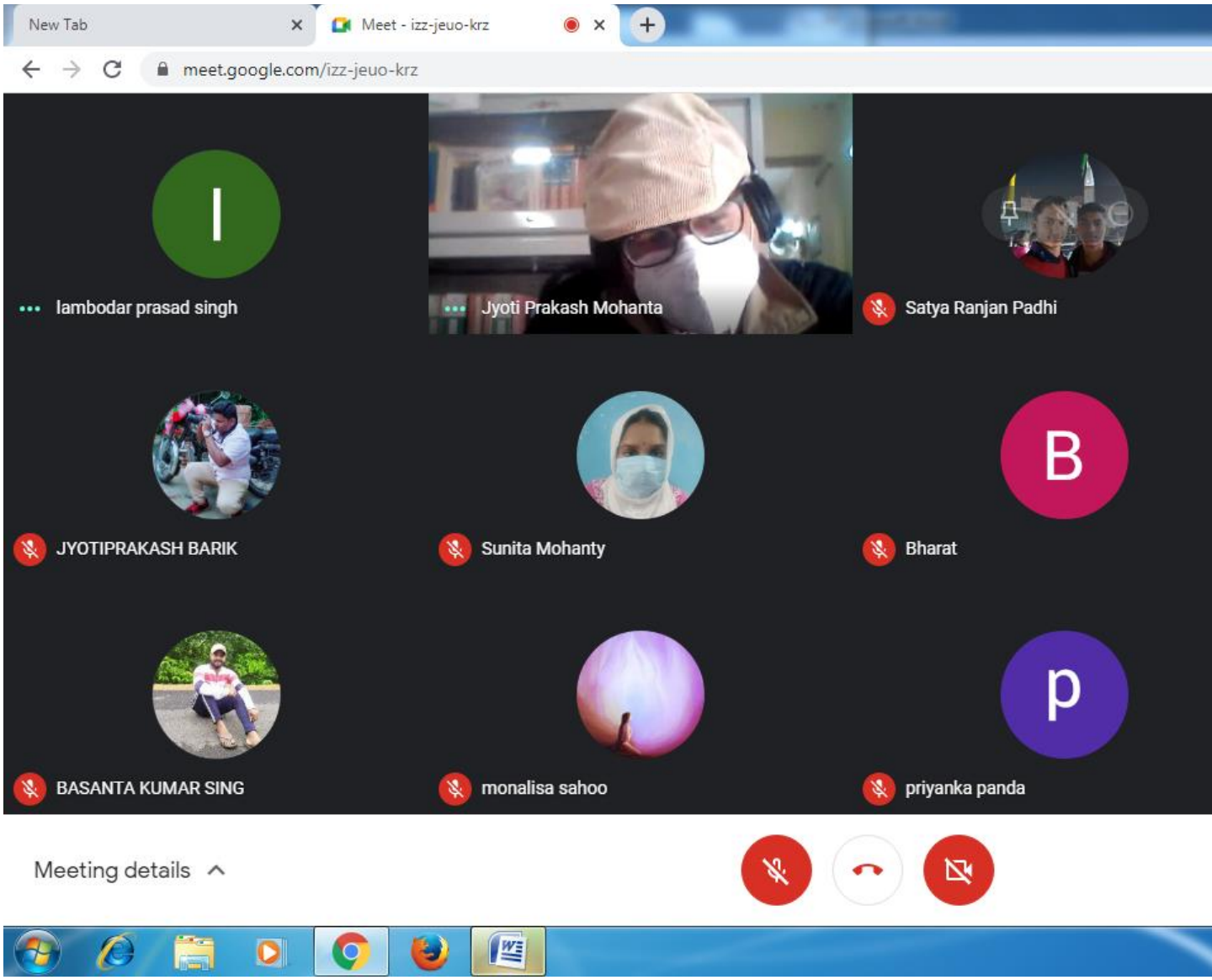
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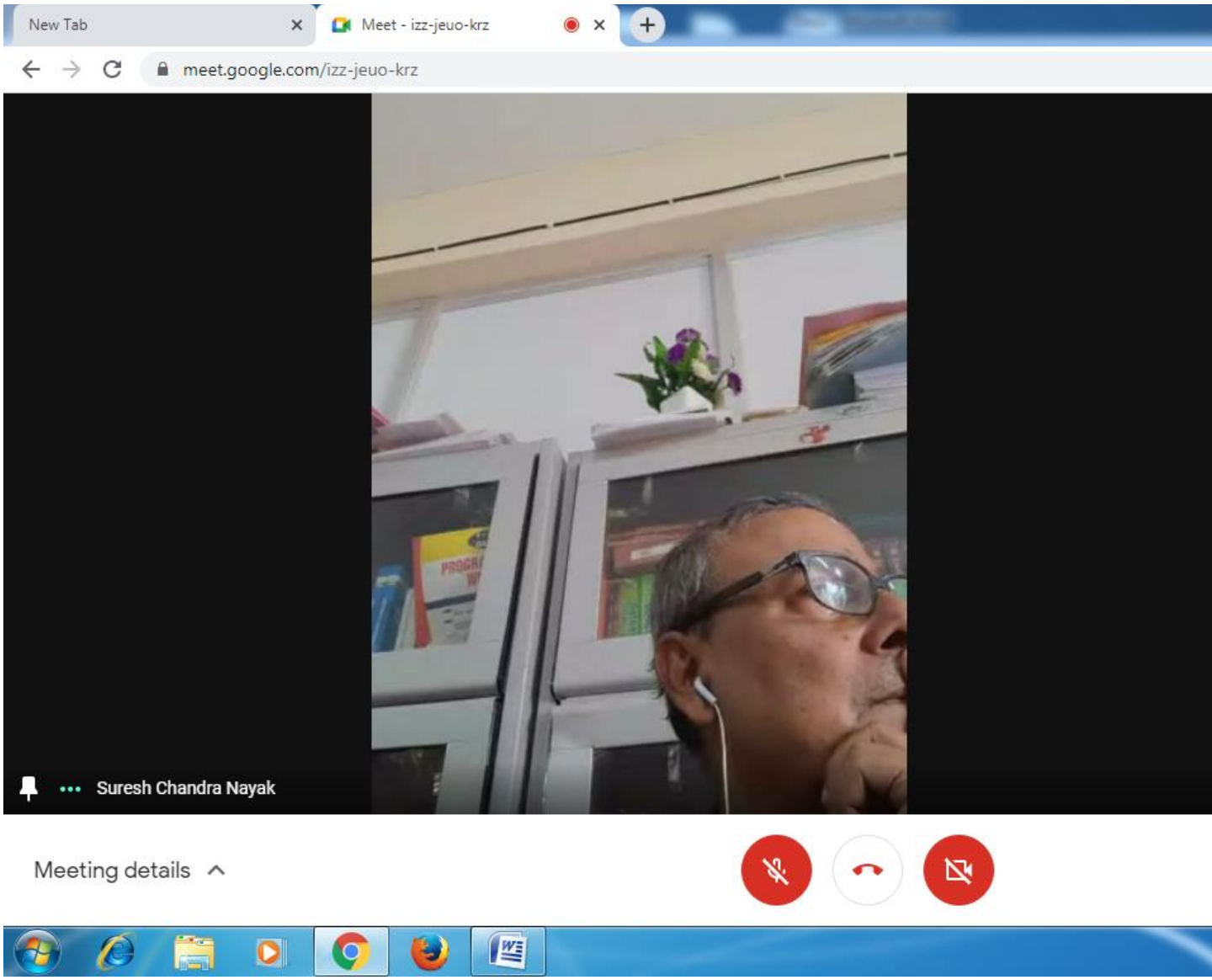
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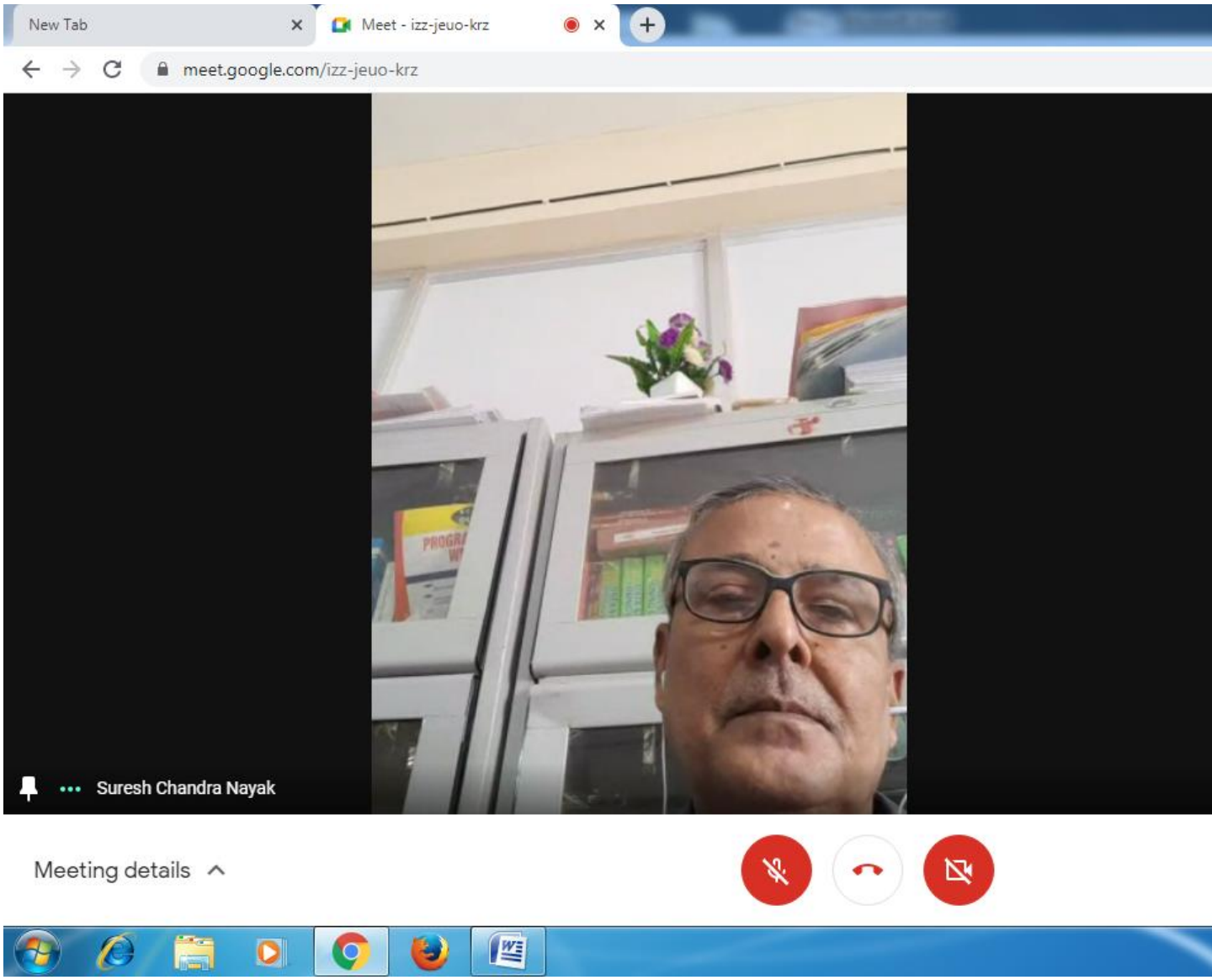
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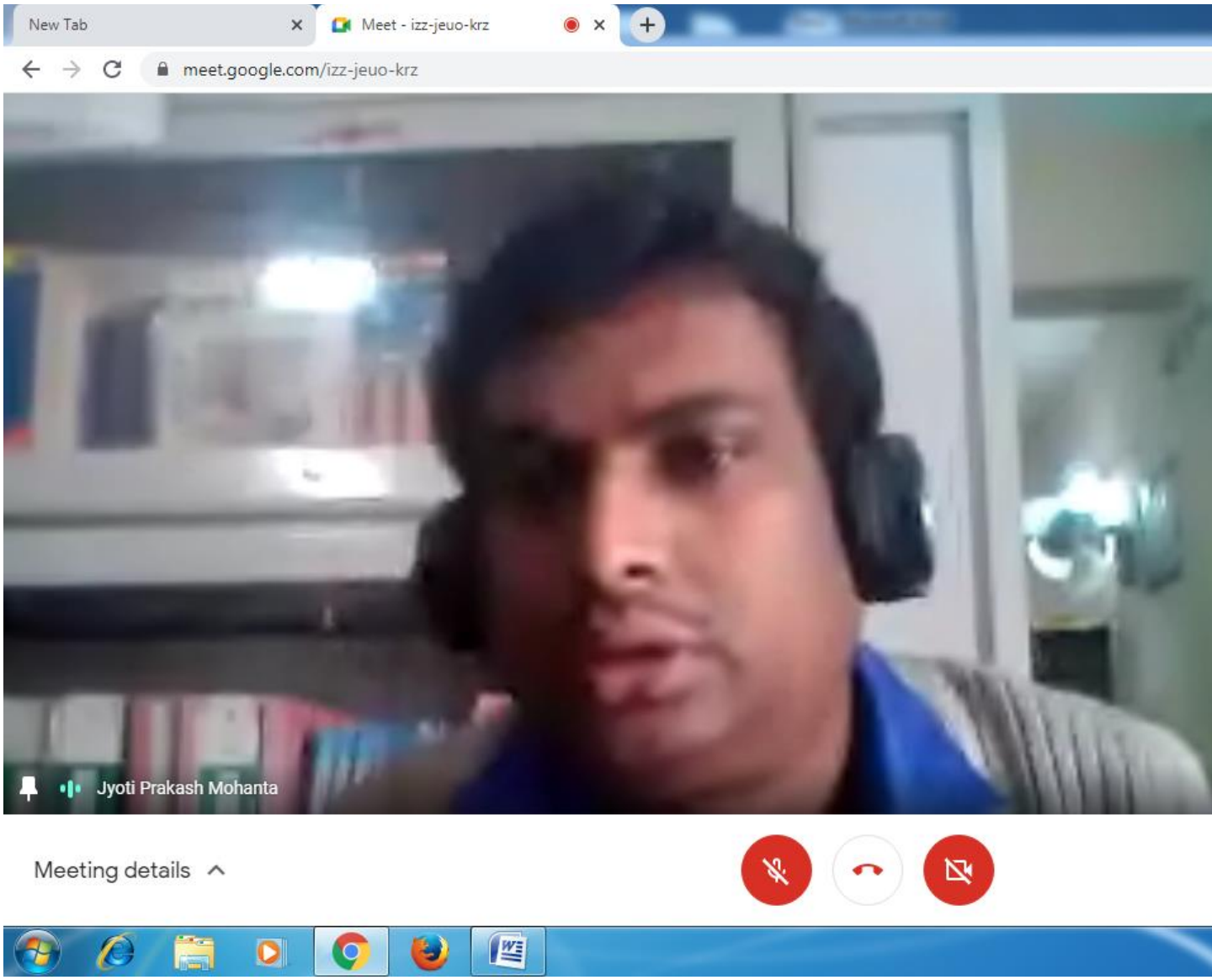
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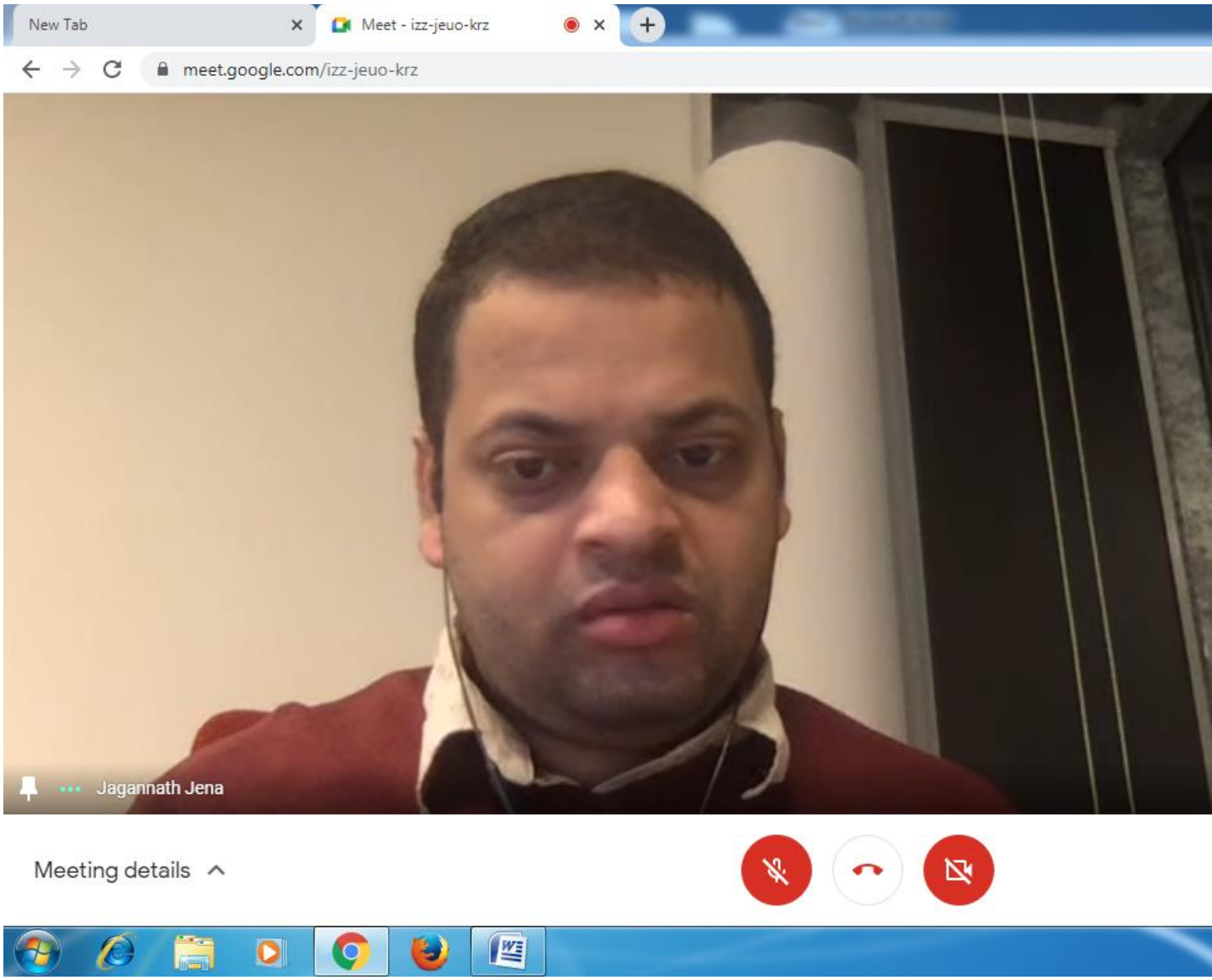
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Jagannath Jena
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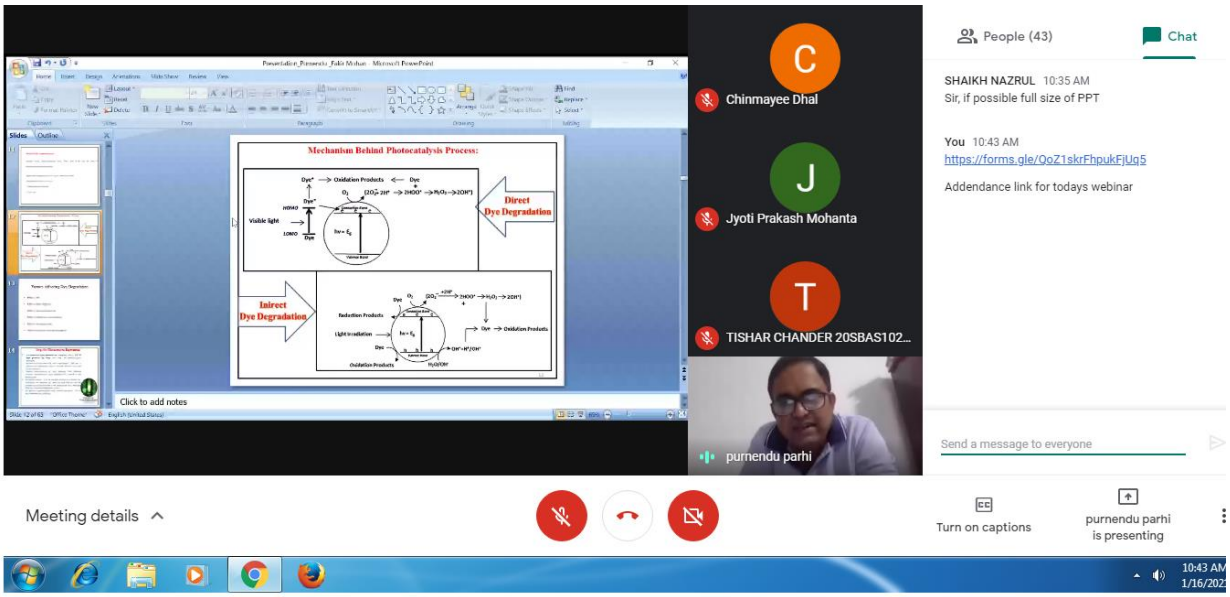
Mechanism Behind Photocatalysis Process:
Direct Dye Degradation
Inirect Dye Degradation
Click to add notes
Chinmayee Dhal
Jyoti Prakash Mohanta
TISHAR CHANDER 20SBAS102...
purnendu parhi
People (43)
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SHAIKH NAZRUL 10:35 AM
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You 10:43 AM
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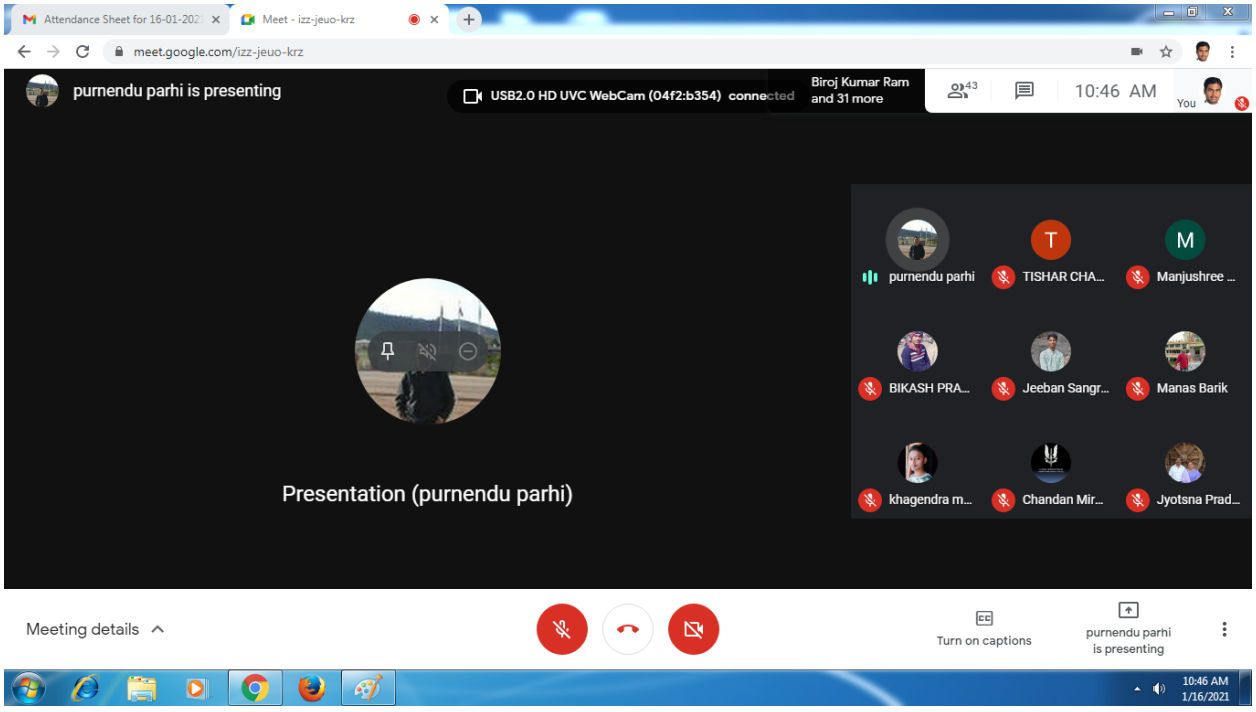
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USB2.0 HD UVC WebCam (04f2:b354) connected
Biroj Kumar Ram and 31 more
10:46 AM
You
Presentation (purnendu parhi)
purnendu parhi
TISHAR CHA...
Manjushree ...
BIKASH PRA...
Jeeban Sangr...
Manas Barik
khagendra m...
Chandan Mir...
Jyotsna Prad...
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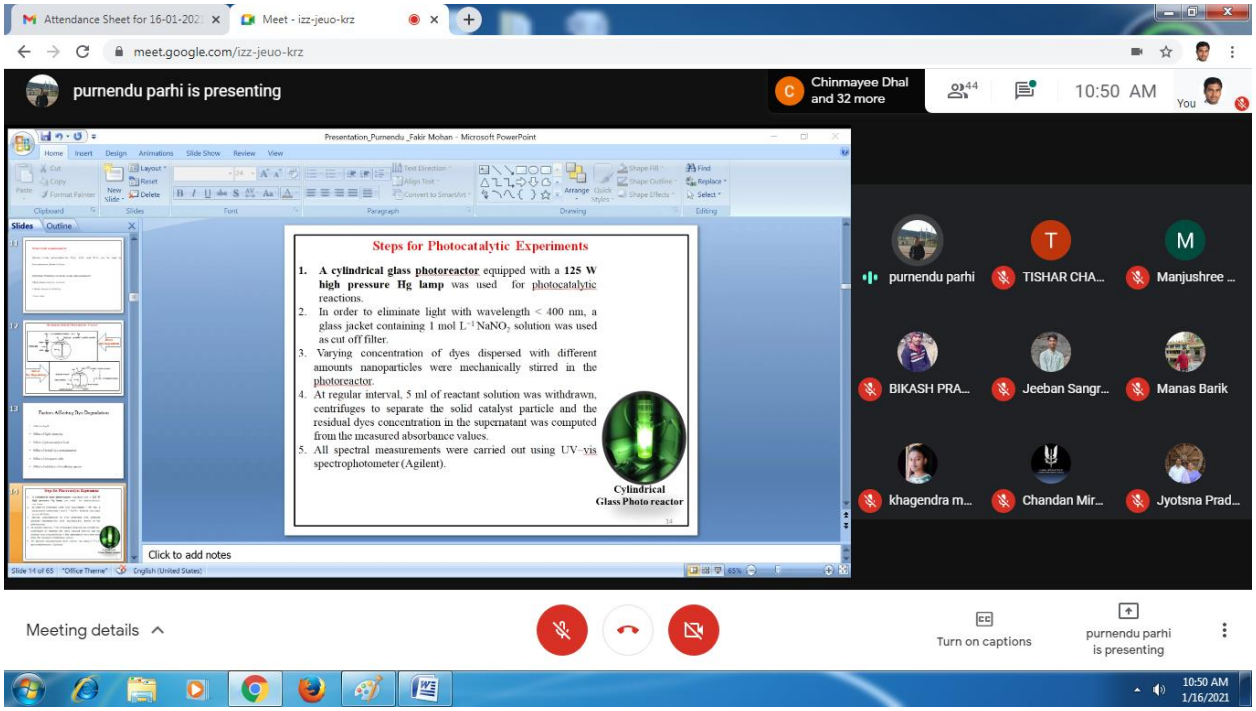
1/16/2021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Chinmayee Dhal and 32 more
10:50 AM
You
Steps for Photocatalytic Experiments
1. A cylindrical glass photoreactor equipped with a 125 W high pressure Hg lamp was used for photocatalytic reactions.
2. In order to eliminate light with wavelength < 400 nm, a glass jacket containing 1 mol L⁻¹ NaNO3 solution was used as cut off filter.
3. Varying concentration of dyes dispersed with different amounts nanoparticles were mechanically stirred in the photoreactor.
4. At regular interval, 5 ml of reactant solution was withdrawn, centrifuges to separate the solid catalyst particle and the residual dyes concentration in the supernatant was computed from the measured absorbance values.
5. All spectral measurements were carried out using UV–vis spectrophotometer (Agilent).
Cylindrical Glass Photo reactor
Click to add notes
purnendu parhi
TISHAR CHA...
Manjushree ...
BIKASH PRA...
Jeeban Sangr...
Manas Barik
khagendra m...
Chandan Mir...
Jyotsna Prad...
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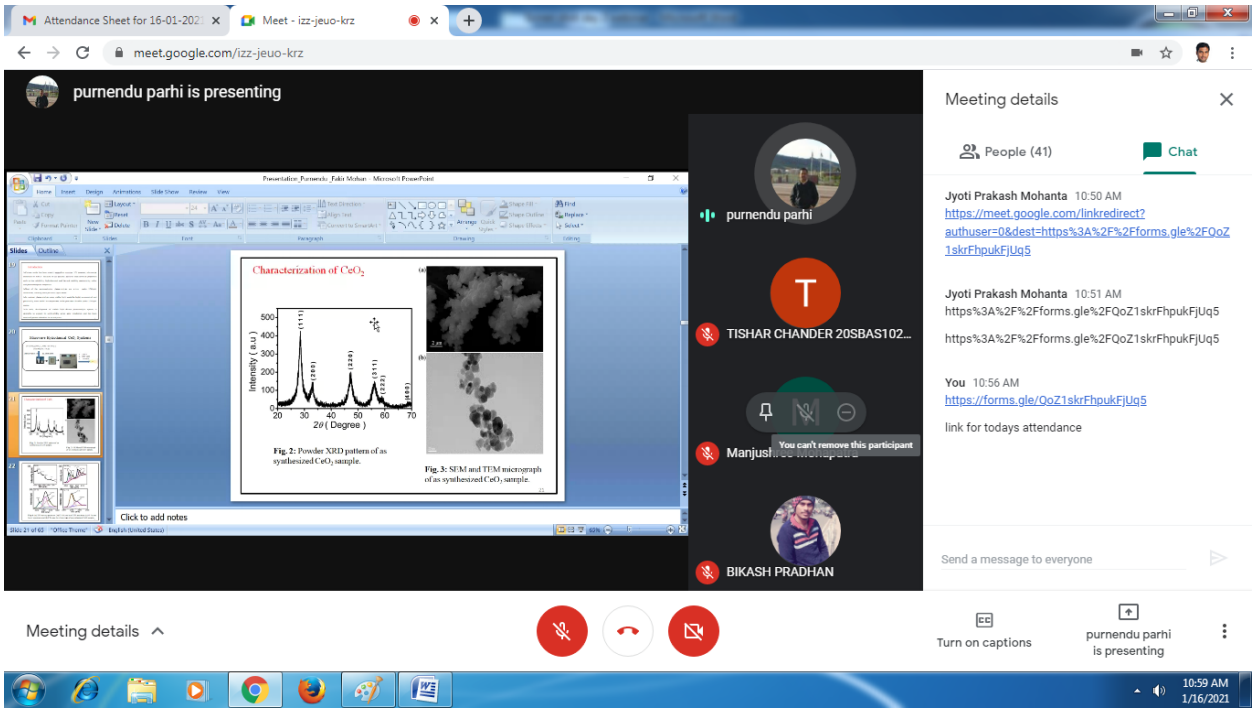
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Characterization of CeO2
Intensity (a.u.)
2θ (Degree)
Fig. 2: Powder XRD pattern of as synthesized CeO2 sample.
Fig. 3: SEM and TEM micrograph of as synthesized CeO2 sample.
Click to add notes
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BIKASH PRADHAN
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Jyoti Prakash Mohanta 10:51 AM
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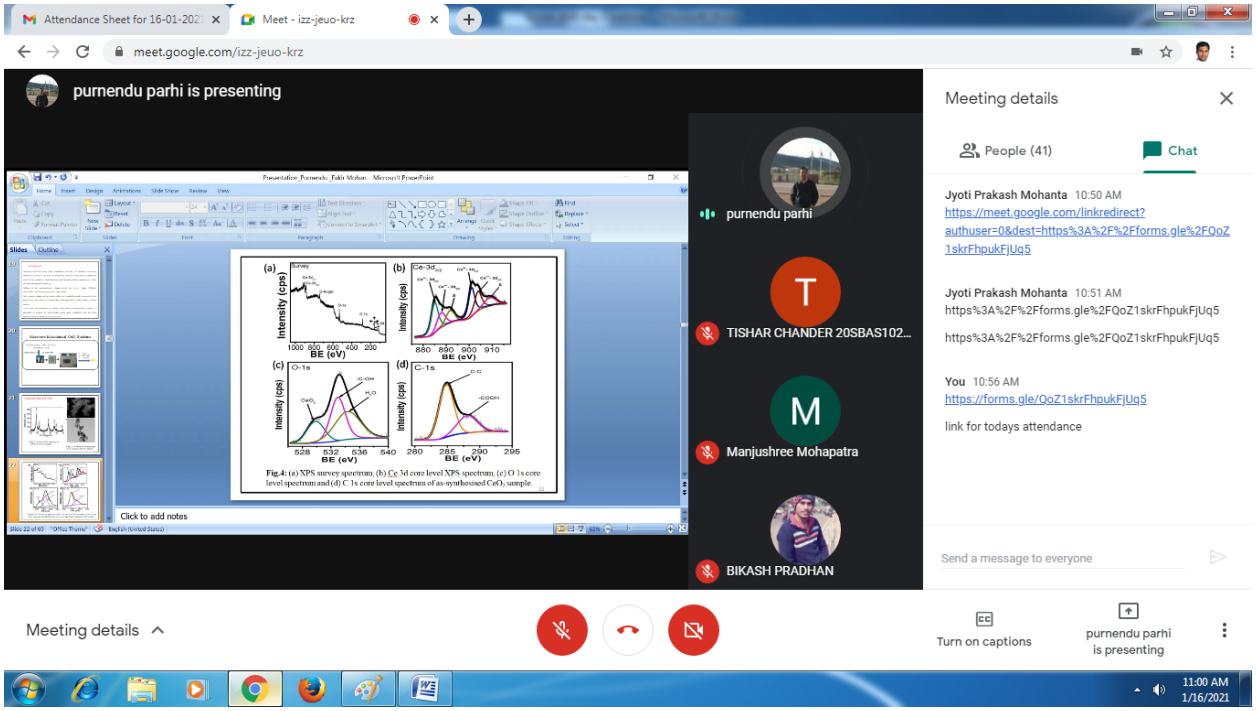
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Fig.4: (a) XPS survey spectrum, (b) Ce 3d core level XPS spectrum, (c) O 1s core level spectrum and (d) C 1s core level spectrum of as-synthesised CeO2 sample.
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Manjushree Mohapatra
BIKASH PRADHAN
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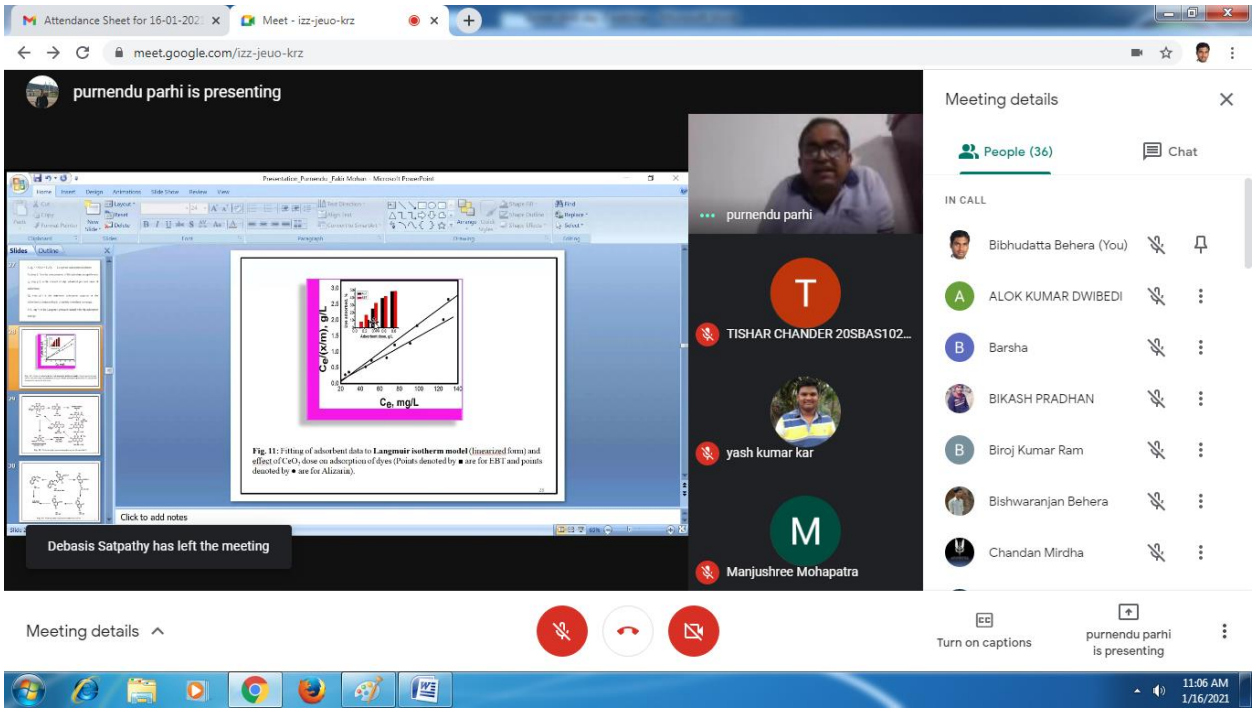
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Fig. 11: Fitting of adsorbent data to Langmuir isotherm model (linearized form) and effect of CeO2 dose on adsorption of dyes (Points denoted by ■ are for EBT and points denoted by ● are for Alizarin).
Click to add notes
Debasis Satpathy has left the meeting
purnendu parhi
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yash kumar kar
Manjushree Mohapatra
Meeting details
People (36)
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IN CALL
Bibhudatta Behera (You)
ALOK KUMAR DWIBEDI
Barsha
BIKASH PRADHAN
Biroj Kumar Ram
Bishwaranjan Behera
Chandan Mirdha
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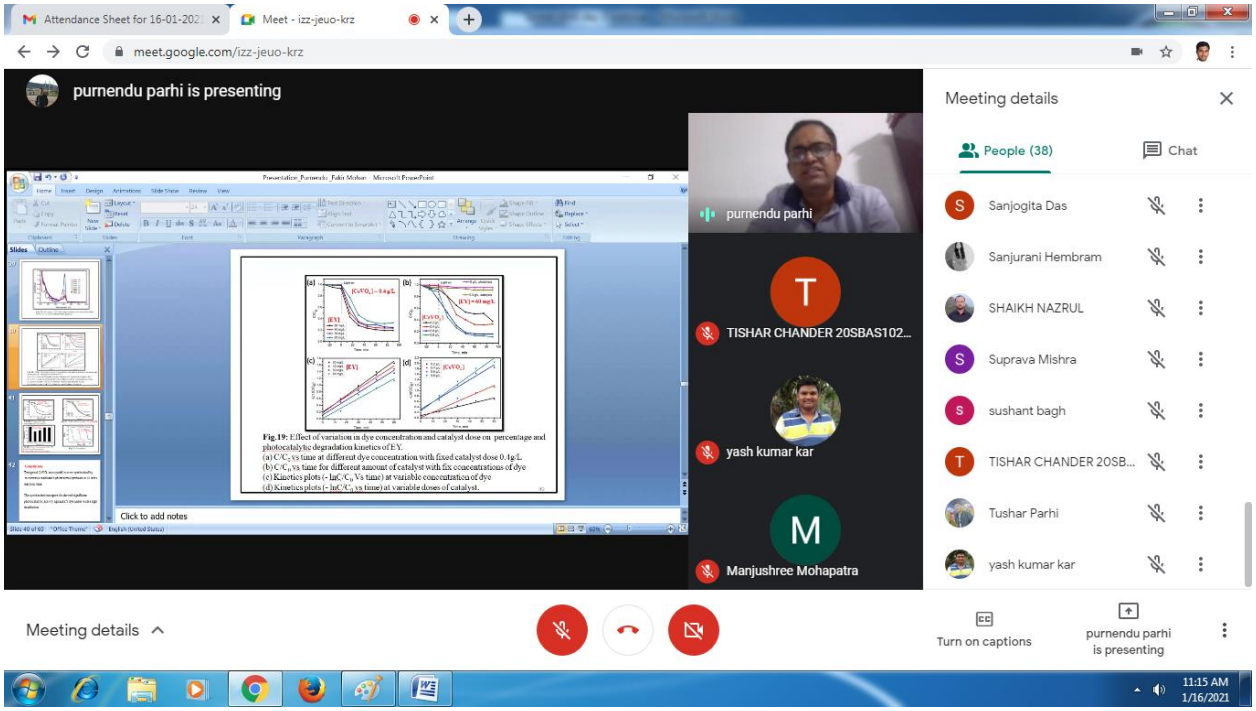
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Sanjogita Das
Sanjurani Hembram
SHAIKH NAZRUL
Suprava Mishra
sushant bagh
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Tushar Parhi
yash kumar kar
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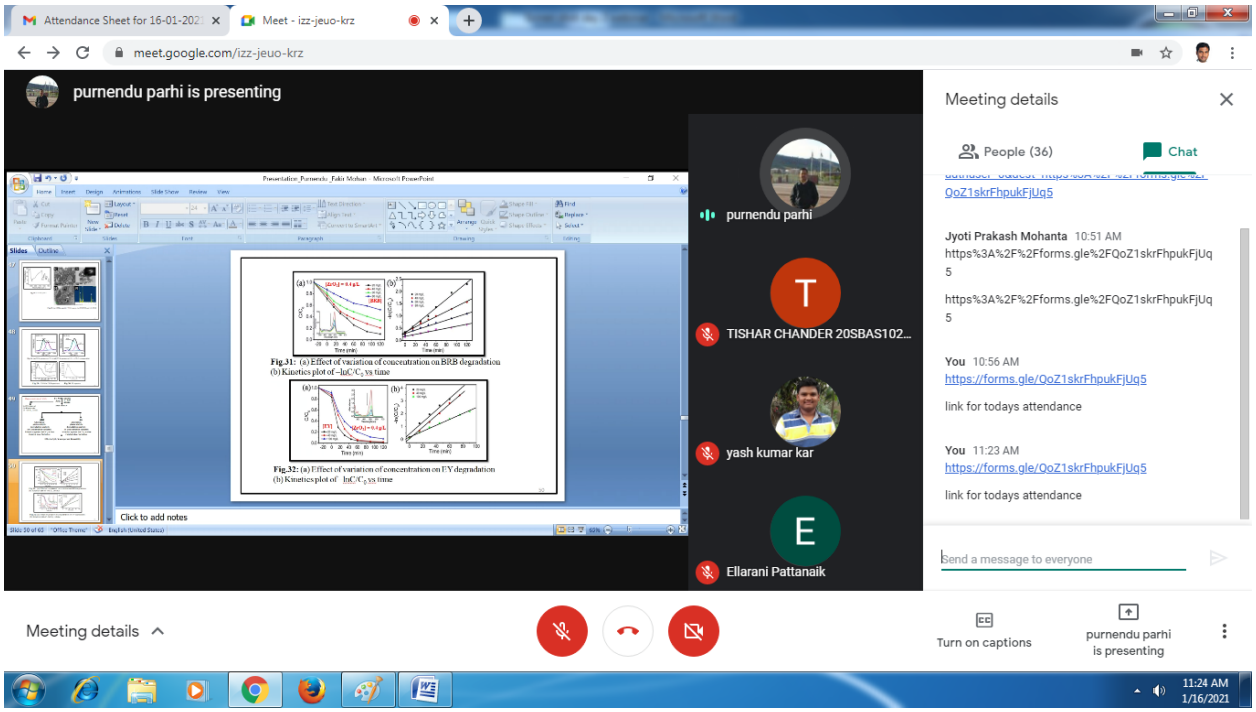
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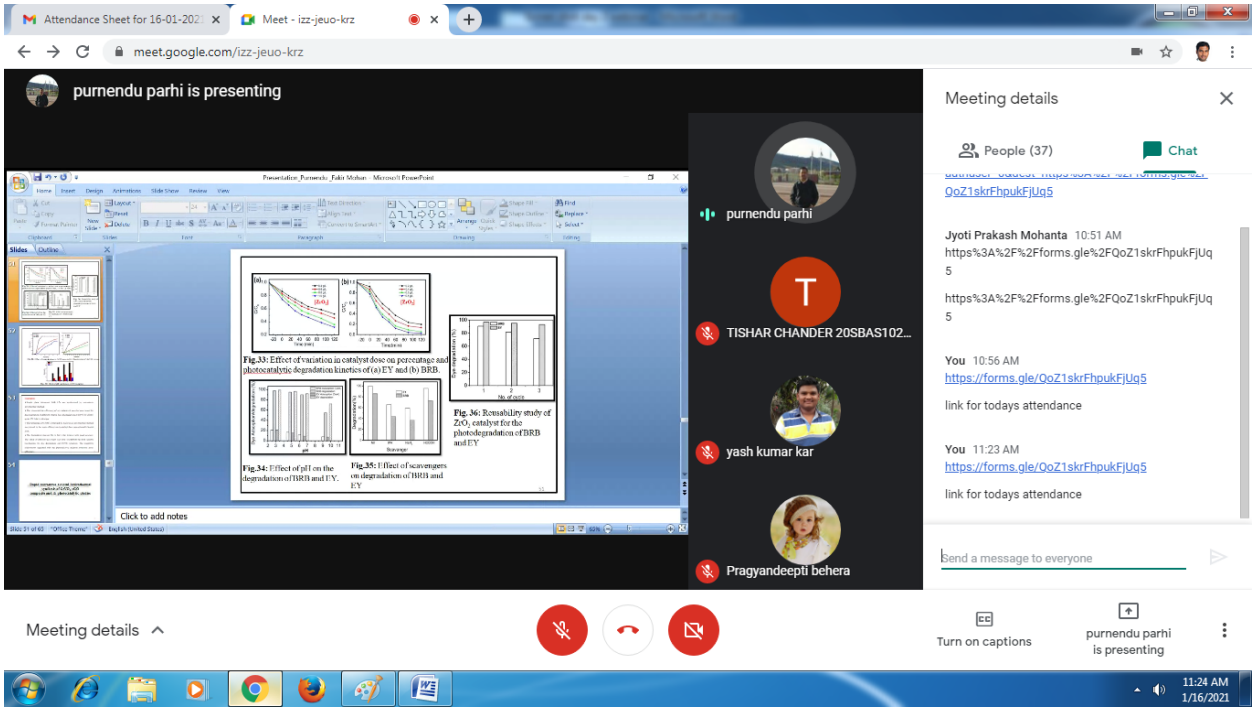
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Fig.33: Effect of variation in catalyst dose on percentage and photocatalytic degradation kinetics of (a) EY and (b) BRB.
Fig.34: Effect of pH on the degradation of BRB and EY.
Fig.35: Effect of scavengers on degradation of BRB and EY
Fig.36: Reusability study of ZrO2 catalyst for the photodegradation of BRB and EY
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Pragyandeepti behera
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