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Arts, Commerce & Science (Granted)
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Dr. Amir A. Dhamani
M.Sc.Ph.D.
Ph.No. (07170) 203870, 203879
Mob. 9422128453, 9834230982

Online Classes Conducted in the institutes during the Pandemics

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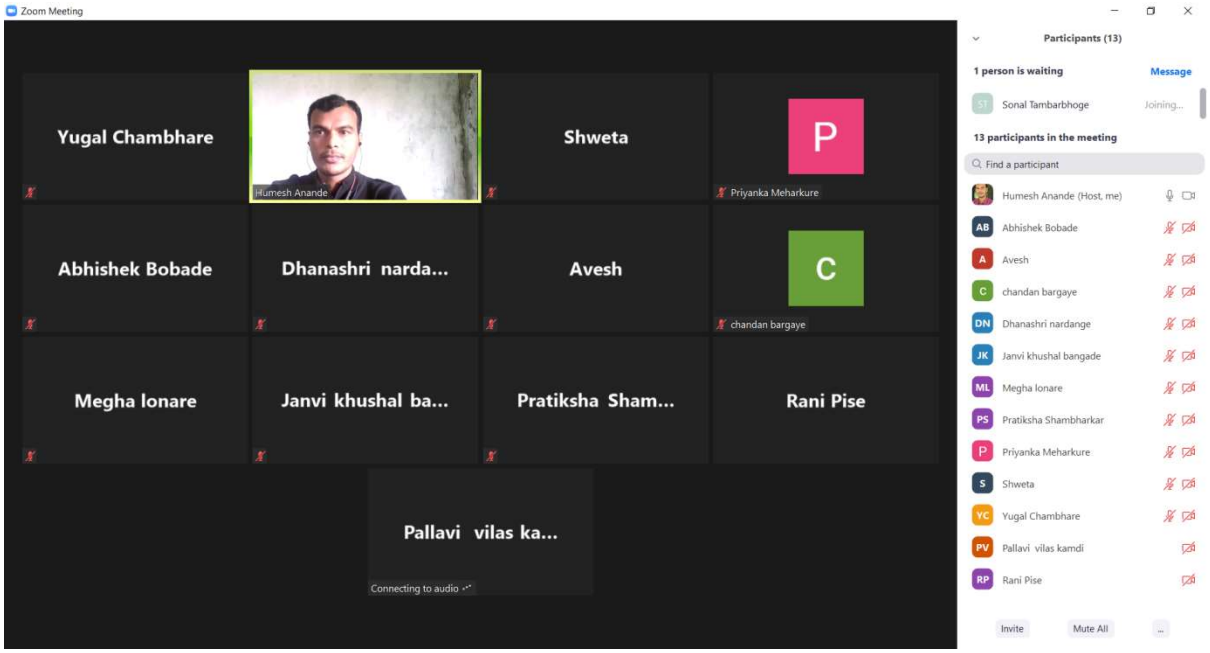

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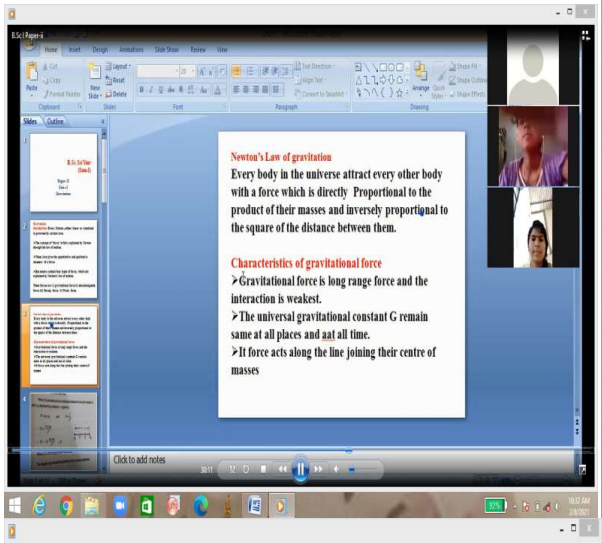
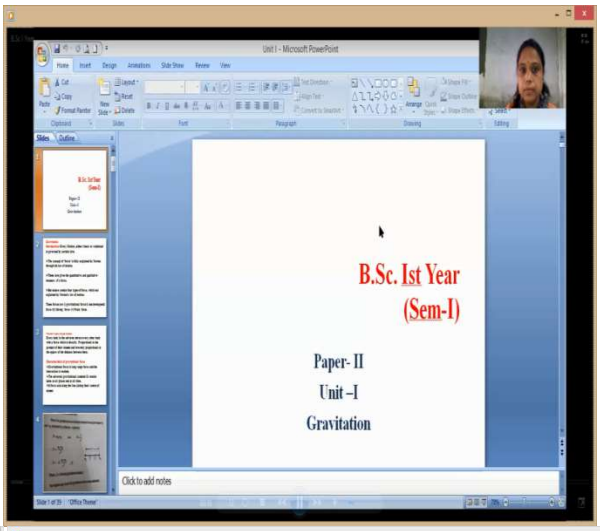
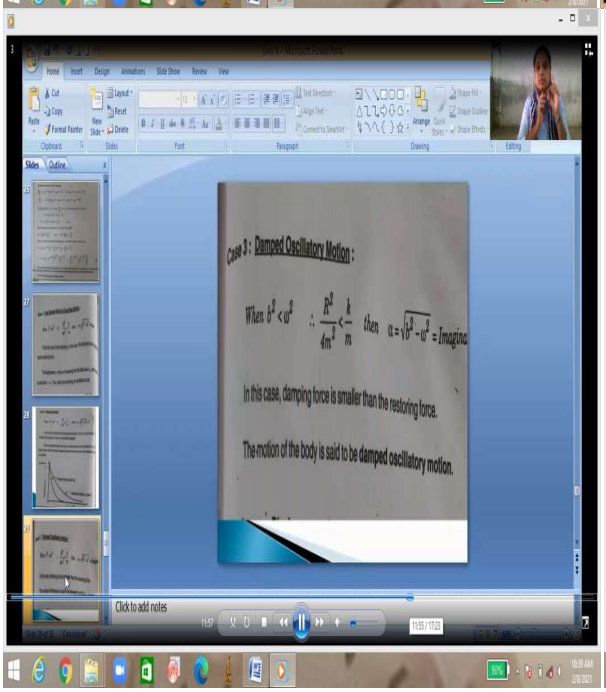
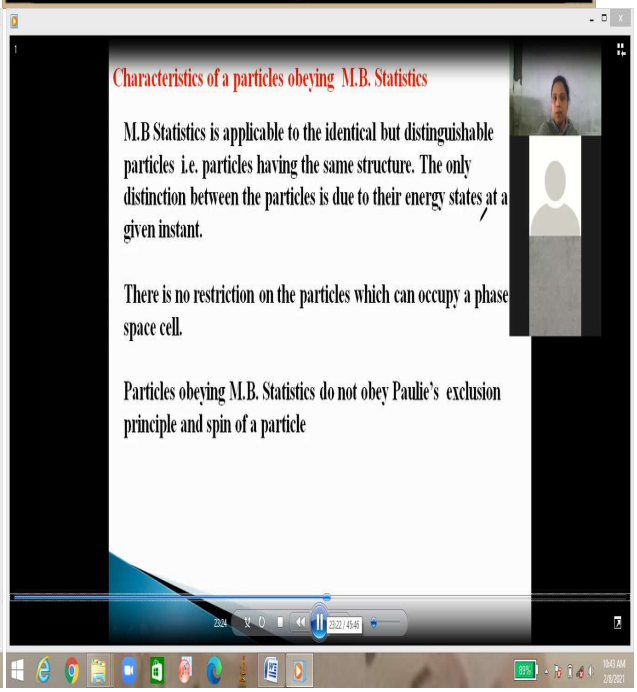








INTRODUCTION

- On the basis of assumption of the kinetic theory of gases and by applying the laws of probability Maxwell derived the distribution of speeds among the molecules
- Boltzmann derived velocity distribution function for the molecules of an ideal gas in thermal equillibrium.
- From this theory speed and energy distribution among the molecules of ideal gas can be obtained easily.

These distribution are known as Maxwell-Boltzmann distribution .

Now, for the 1st energy level E_1, we have to find the no. of ways in which n_1 particles are chosen from N distinguishable particles.

Consider only 4 particles a, b, c & d in the 1st energy level E_1.

E_4 ... n_3
E_3 ... n_3
E_2 ... n_2
E_1 ... a b c d ... $n_1 = 4$

The 1st particle 'a' in energy level E_1 can be chosen in 'N' ways.

and second particle can be chosen in (N-1) ways.
IIIrd third particle can be chosen (N-2) ways and so on ...

∴ The total no. of ways of chosing

Damped Harmonic Oscillation

In a ideal S.H.M. the displacement follows a sinusoidal curve. The amplitude of oscillation remains constant for an infinite time. This is because there is no loss of energy and thus total energy remains constant. Such oscillation are called "Free oscillation".
In actual practice , the S.H.M. always experiences frictional or resistive force due to which energy of free oscillator is continuously lost and amplitude of vibration decreases gradually and ultimately body comes to rest. Hence, decay of amplitude with time is called damping. Such oscillation are called " damped harmonic oscillation"

Case 1 : Over Damped Motion or Dead Beat Motion :

This is the case of heavy damping. In this case, the damping force is greater than the restoring force.

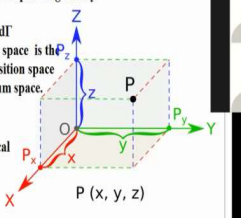
The displacement x will go on decreasing from its initial value x_0 and will tend to zero when $t \to \infty$. Thus, under heavy damping, no oscillations occur.

Statistical Basis of Thermodynamics

- Statistics is that branch of science which deals with the collection Classification and tabulation of numerical data as the basis of explanation, description and comparison of various phenomenon.
- When statistical concept are applied to physics, the new branch emerges is called statistical physics.
- Statistical physics deals with macroscopic system.i.e. system consist of large no. of individual particles such as atoms, molecules,protones, neutron or electrons.
- In certain cases, where system containing large no. of particles ,ordinary laws of mechanics could not be used. because it is impossible to follow the laws of mechanics.
- All these problem solved by statistical mechanics.

Phase Space

- A combination of the Position Space and momentum space is known as phase space. Thus phase space has six dimensions.
- A point in phase space is, therefore, completely specified by six co-ordinates x,y,z,Px,Py,Pz.
- A small volume element($d\tau$) in phase space is given by
- $d\tau = dx.dy.dz.dpx.dpy.dpz$
  $d\tau = (dx.dy.dz).(dpx.dpy.dpz) = dV.d\tau$
- Thus volume element $d\tau$ in Phase space is the Product of volume element dV in position space And volume element $d\tau$ in momentum space.
- 6 dimensional diagram can not be phase space is purely a mathematical Concept.



Example 2: What is the probability of drawing a king and a queen consecutively from a deck of 52 cards, without replacement.

Probability of drawing a king = 4/52 = 1/13
After drawing one card, the number of cards are 51.
Probability of drawing a queen = 4/51.
Now, the probability of drawing a king and queen consecutively is
1/13 * 4/51 = 4/663

Derivation of Planck's Radiation Law

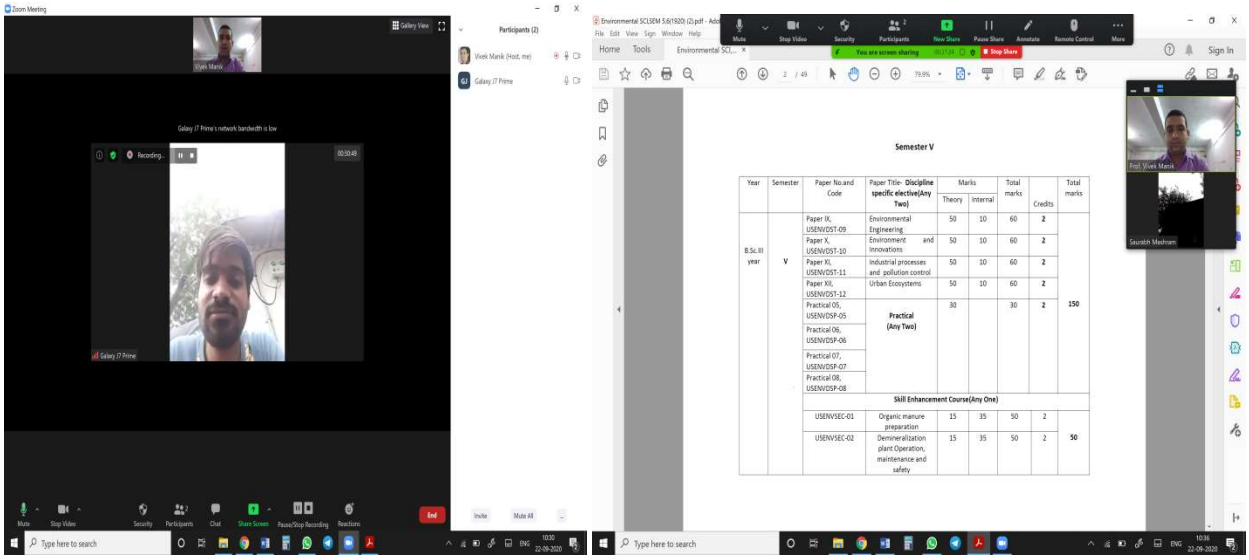
To derive the plancks radiation law , we have to find
- Number of resonator per unit volume in the frequency range v and v+dv
- Average energy of oscillator.
- Inside the box , Stationary waves are formed due to multiple reflection.
- Only certain discrete frequency is allowed is called mode of vibration.

The Black body radiation travell with the velocity of light c, the no. Of mode of vibration per unit volume within the frequency range v and v+dv is

Formula.

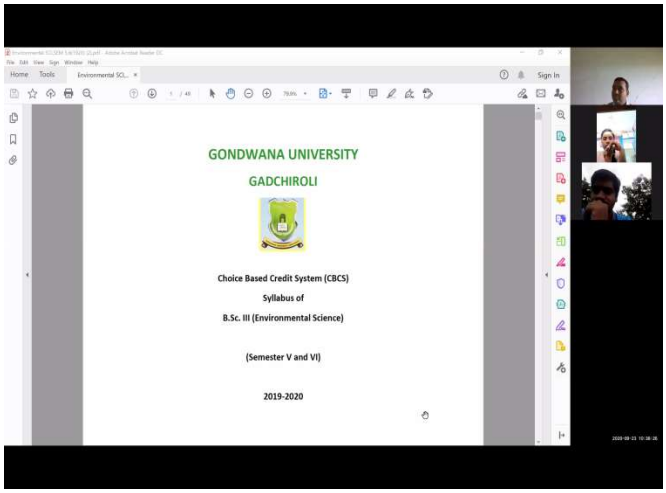
$$\frac{8\pi v^2}{c^3} dv$$

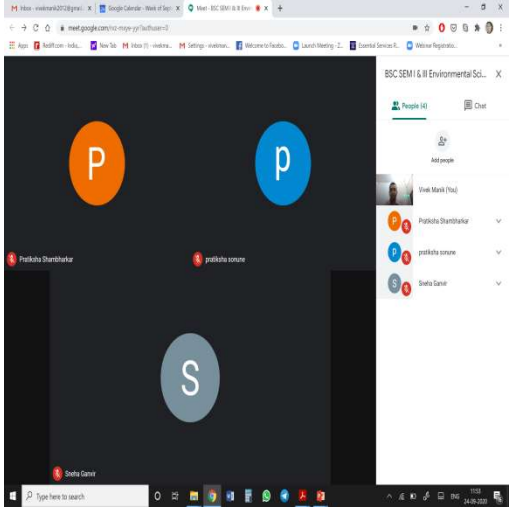
Department of Environmental Science



Semester V

Year	Semester	Paper No.and Code	Paper Title- **Discipline specific elective(Any Two)**	Marks		Total marks	Credits	Total marks
				Theory	Internal			
B.Sc.III year	V	Paper IX, USENVDST-09	Environmental Engineering	50	10	60	2	150
		Paper X, USENVDST-10	Environment and Innovations	50	10	60	2	
		Paper XI, USENVDST-11	Industrial processes and pollution control	50	10	60	2	
		Paper XII, USENVDST-12	Urban Ecosystems	50	10	60	2	
		Practical 05, USENVDSP-05	**Practical (Any Two)**	30		30	2	
		Practical 06, USENVDSP-06						
		Practical 07, USENVDSP-07						
		Practical 08, USENVDSP-08						
		Skill Enhancement Course(Any One)						
		USENVSEC-01	Organic manure preparation	15	35	50	2	50
		USENVSEC-02	Demineralization plant Operation, maintenance and safety	15	35	50	2	

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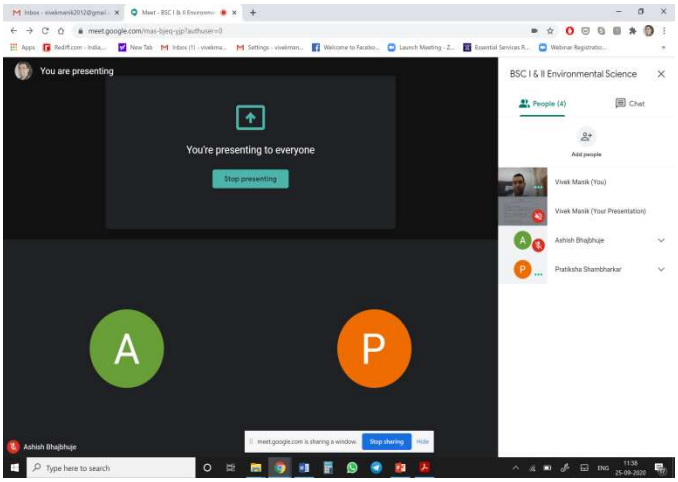
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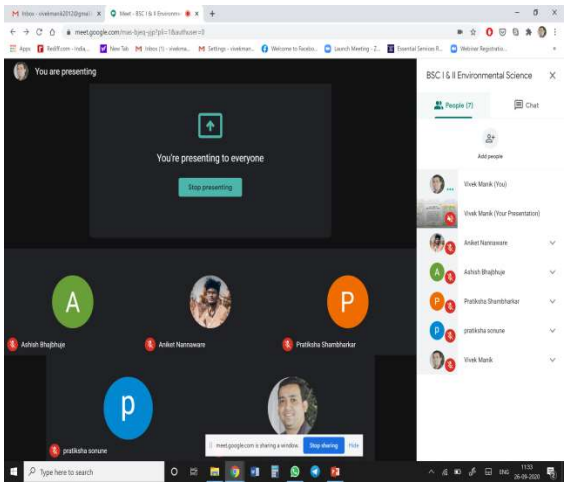
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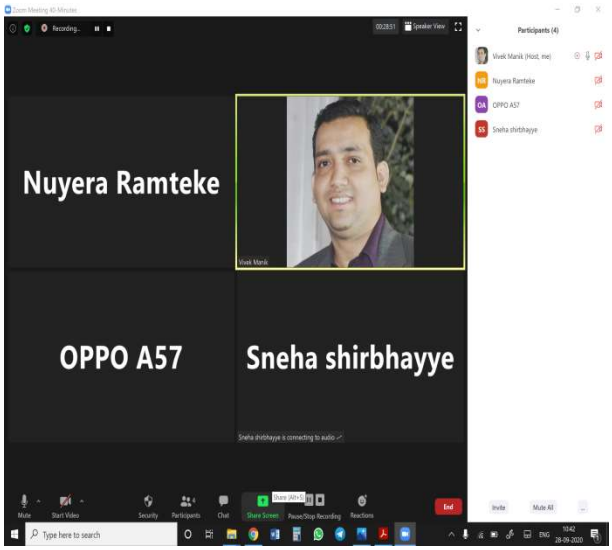
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Sneha shirbhayye
Nuyera Ramteke
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OPPO A57
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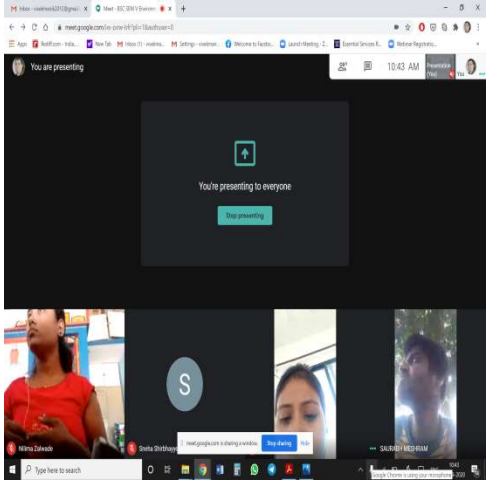
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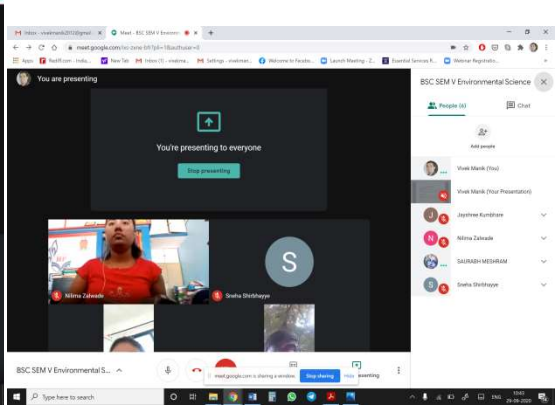
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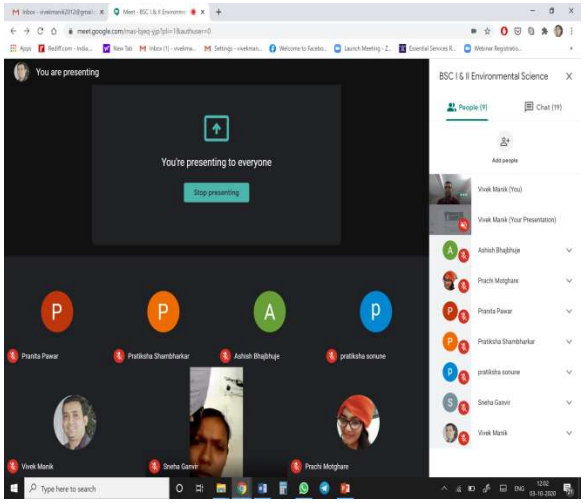
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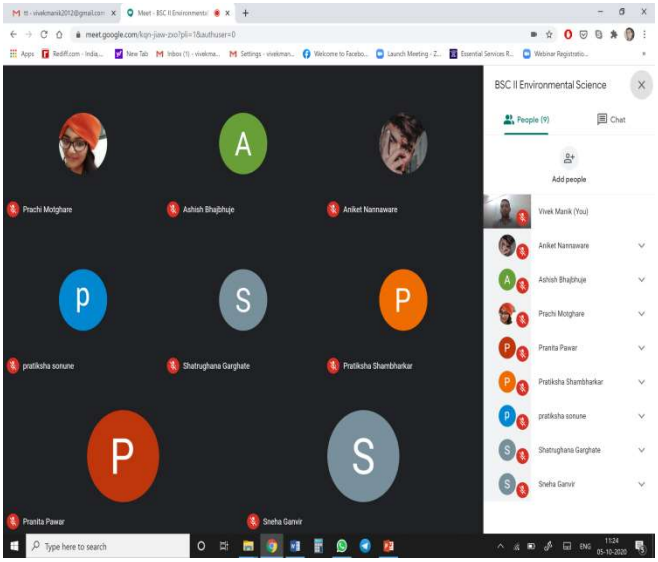
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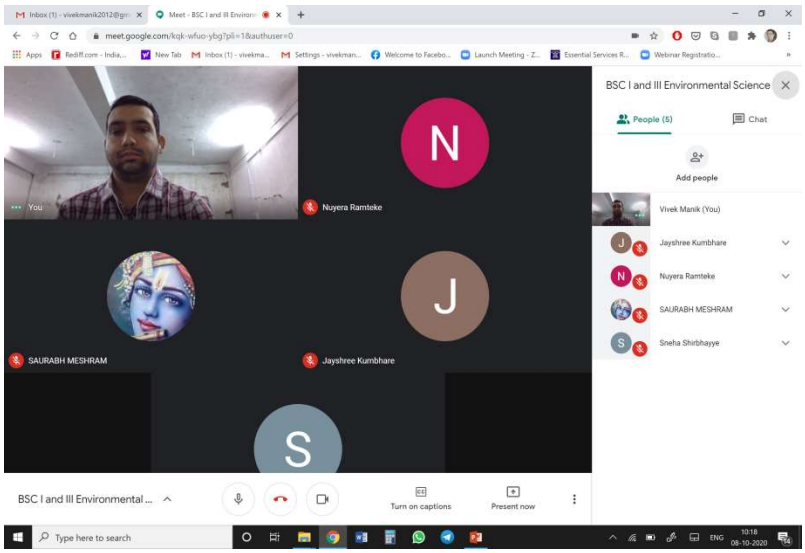
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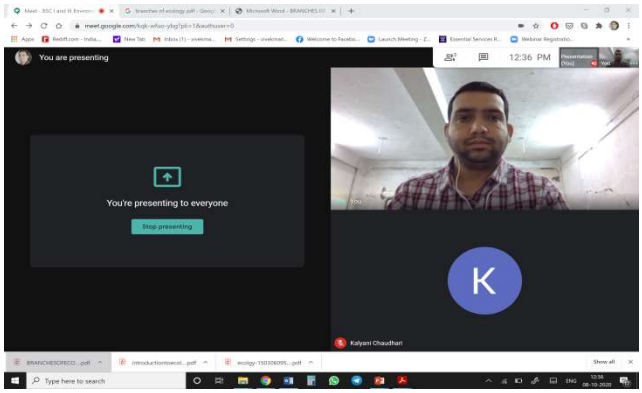
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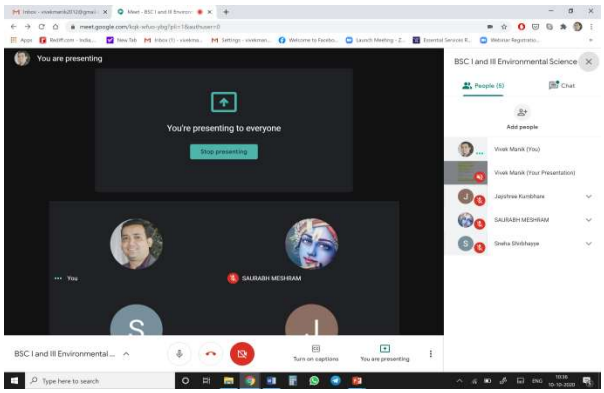
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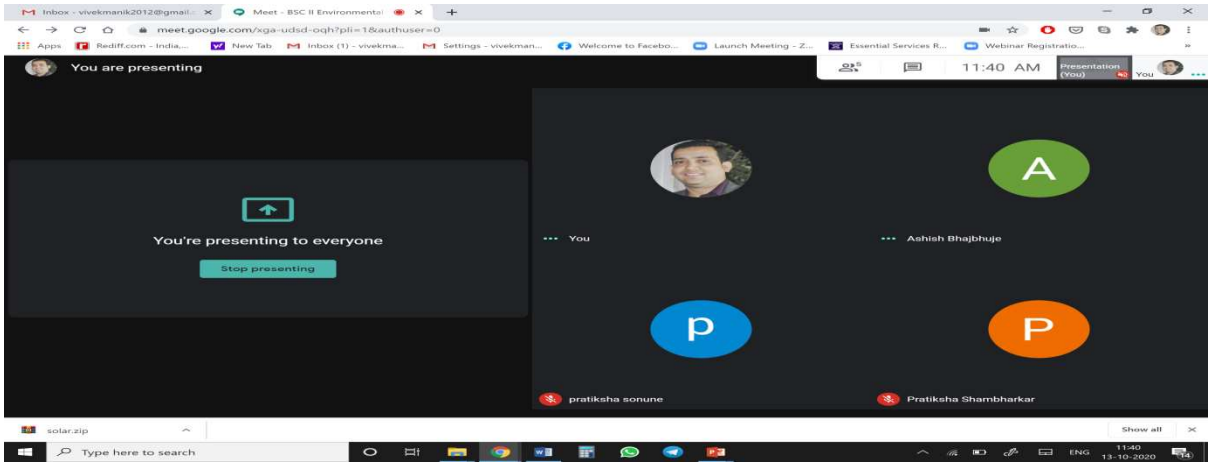
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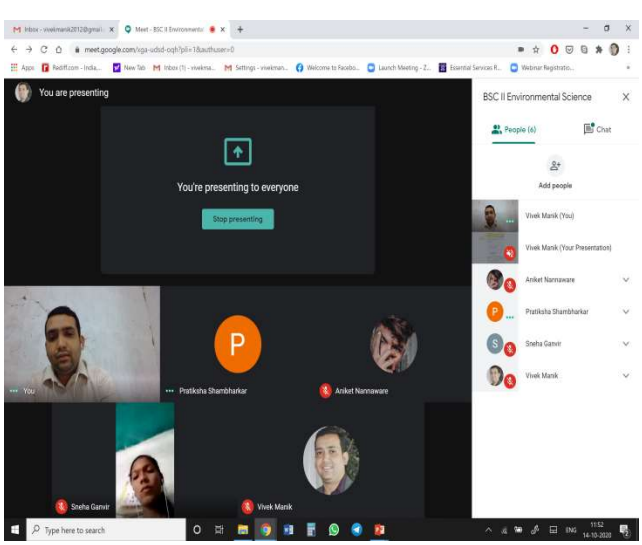
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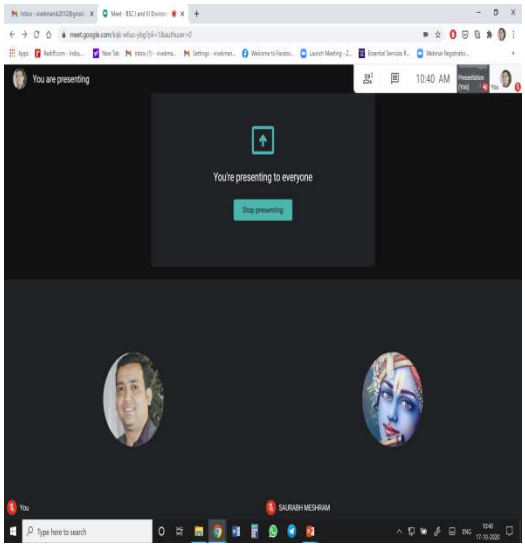
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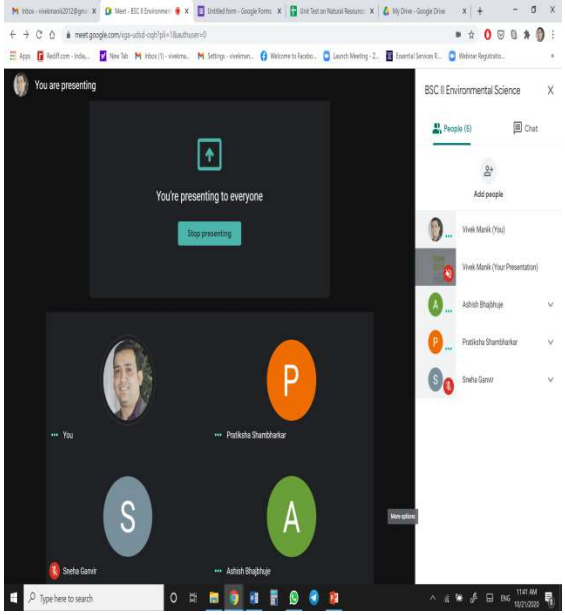
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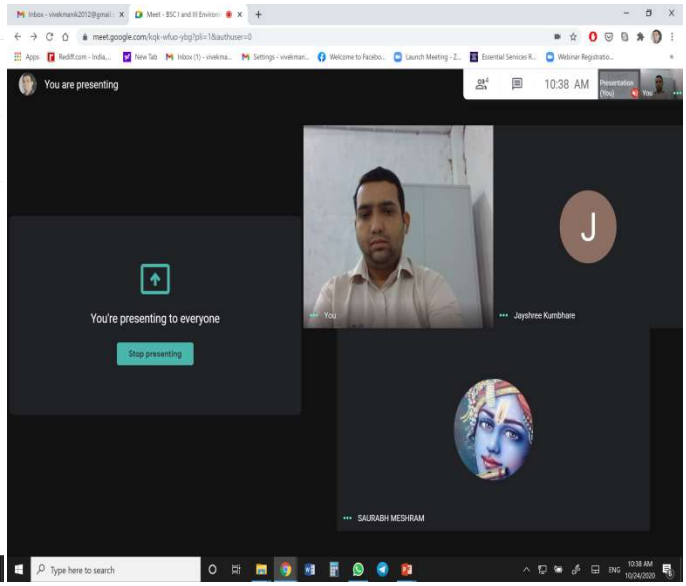
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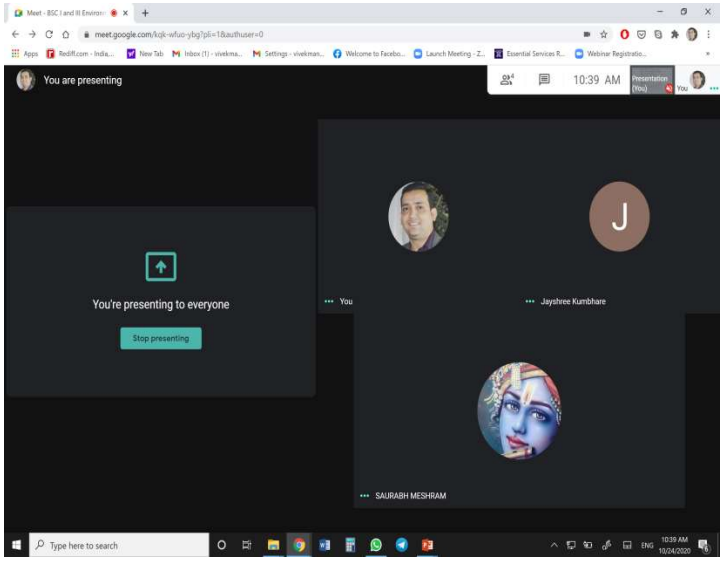
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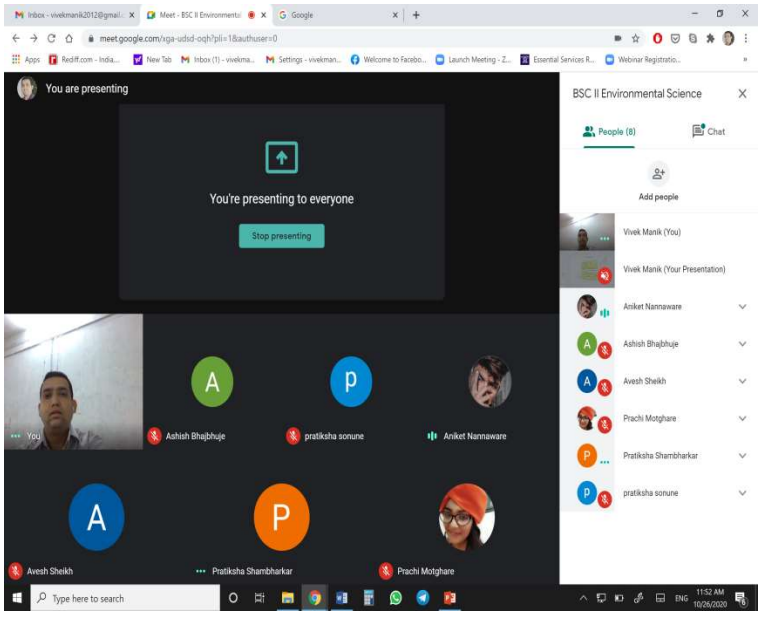
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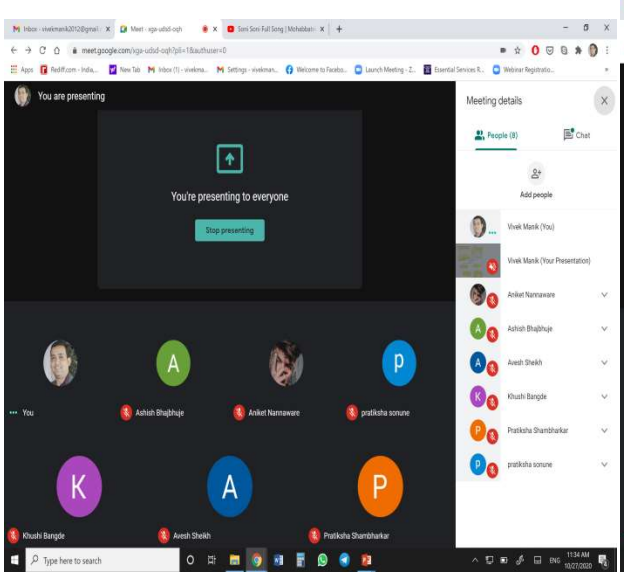
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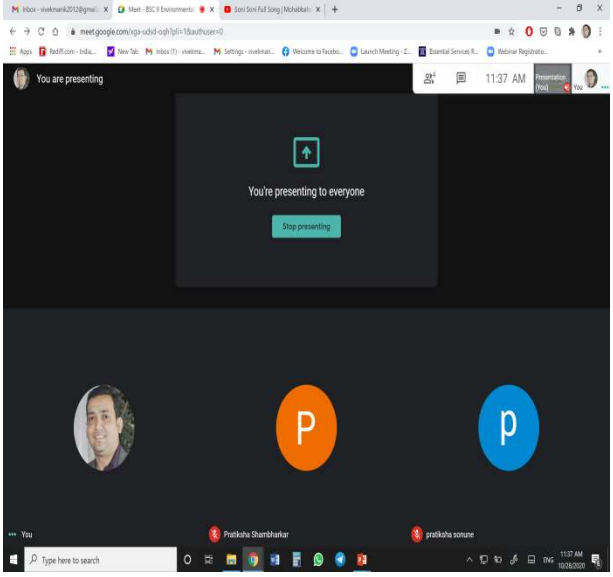
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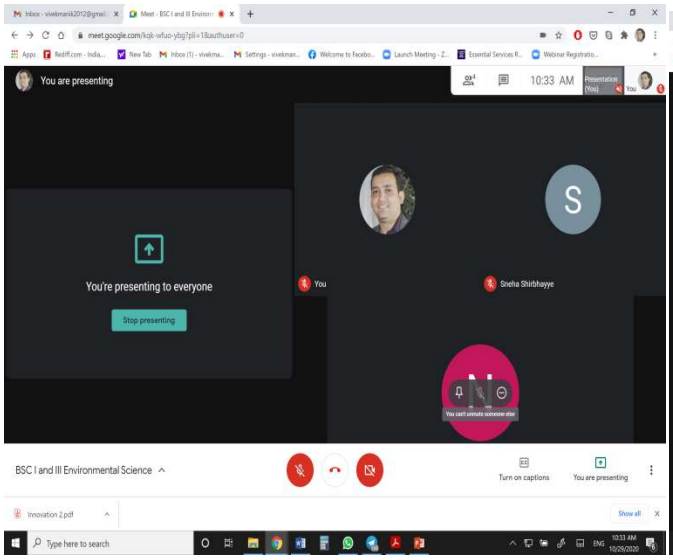
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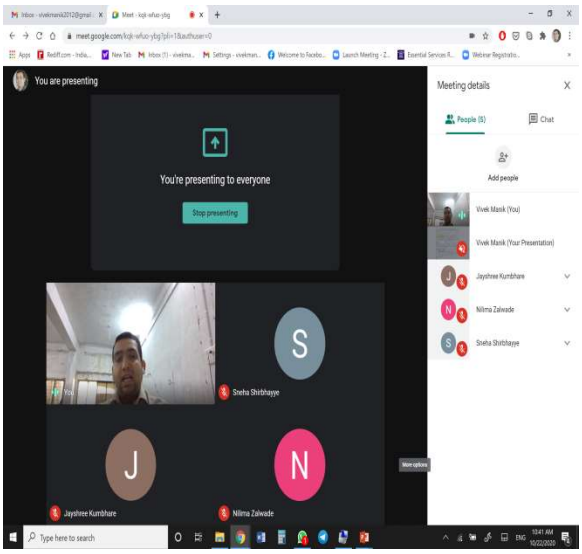
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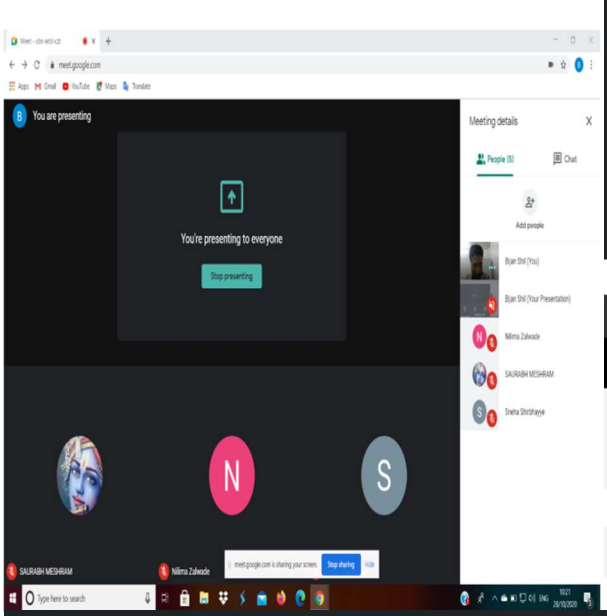
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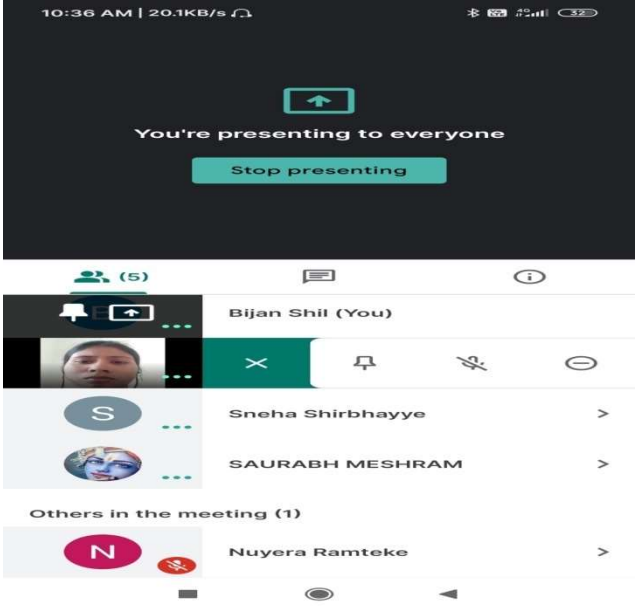
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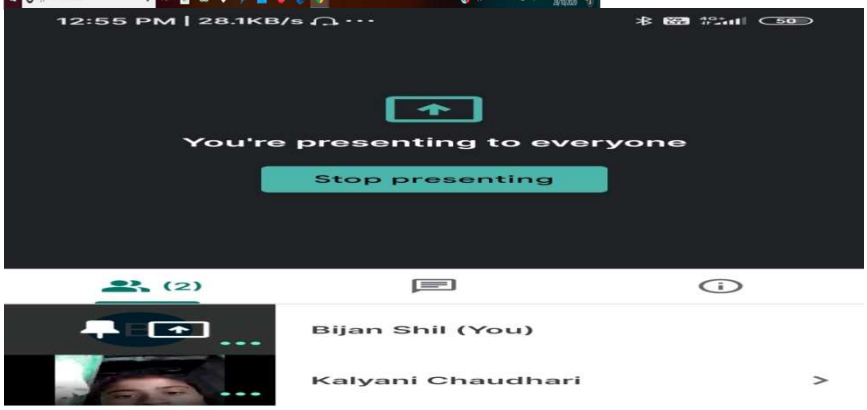
(5)
Bijan Shil (You)
Sneha Shirbhayye
SAURABH MESHRAM
Others in the meeting (1)
Nuyera Ramteke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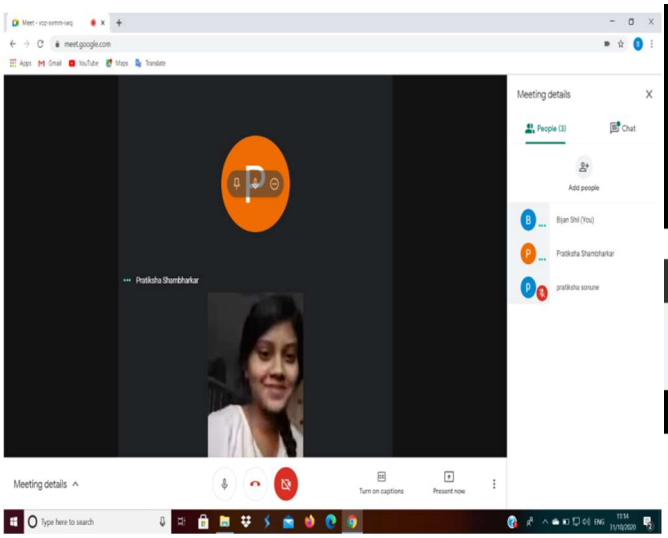
(2)
Bijan Shil (You)
Kalyani Chaudhari


Meeting details
People (3)
Chat
Add people
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Pratiksha Shambharkar
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Meeting details
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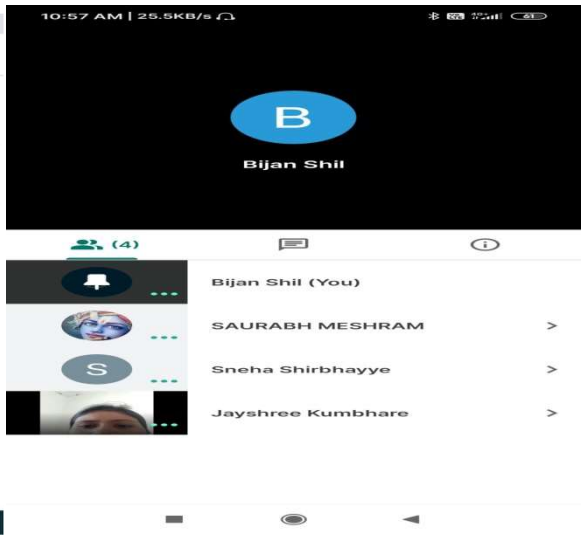
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B
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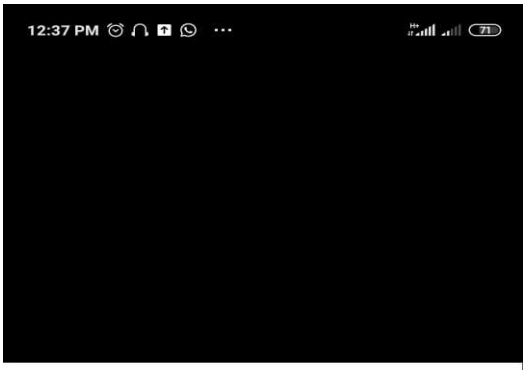
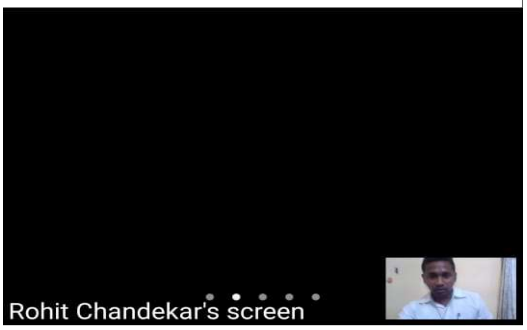
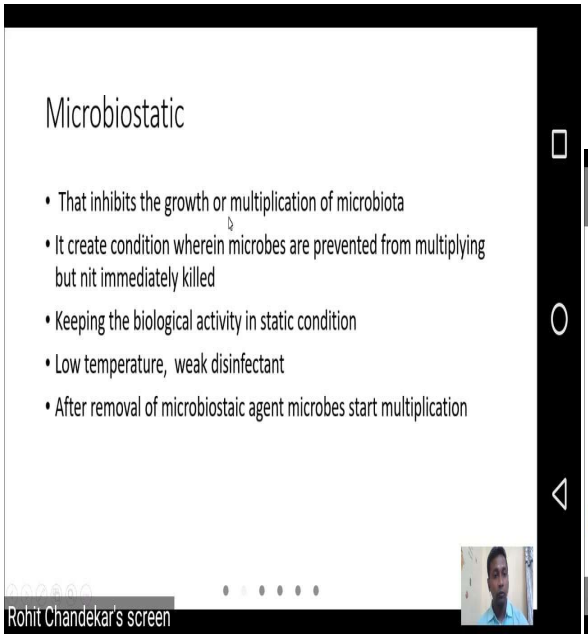
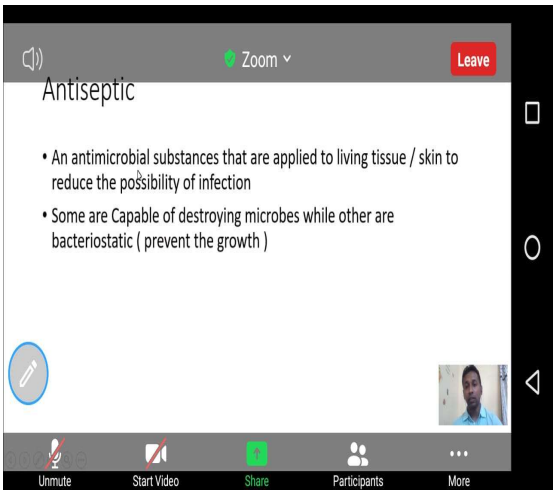
Sneha Shirbhayye
Jayshree Kumbhare

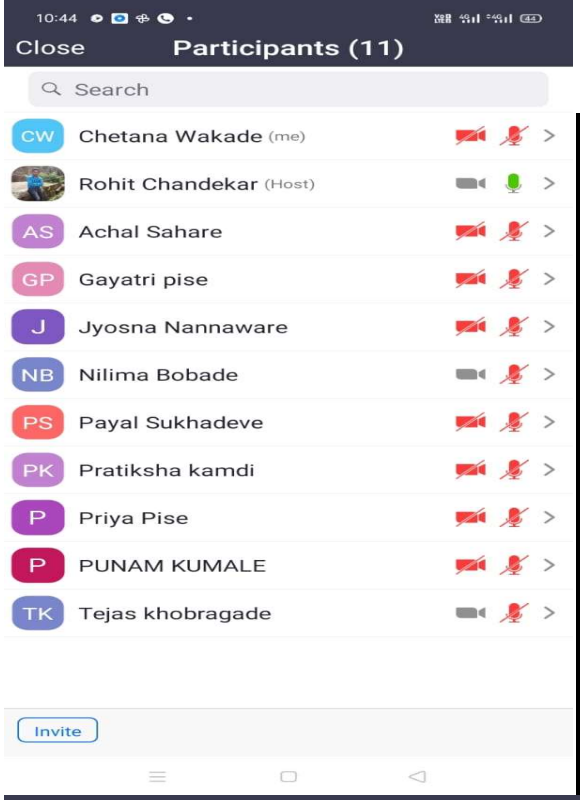
Department of Microbiology







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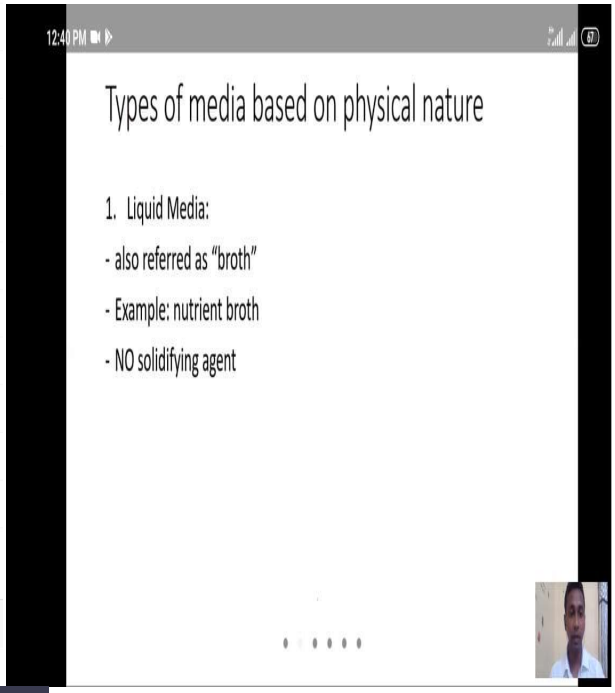
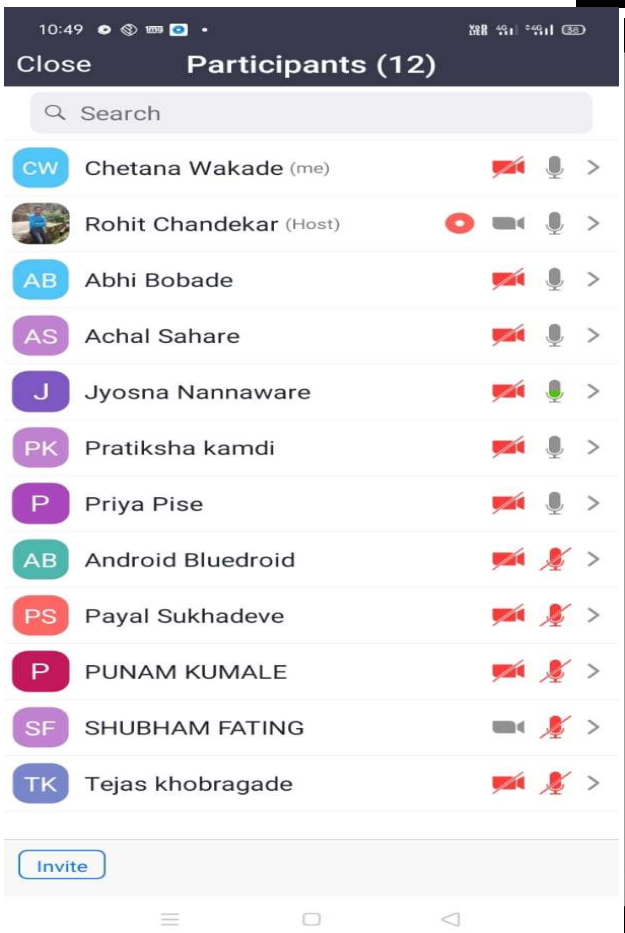
Rohit Chandekar (Host)
AS Achal Sahare
GP Gayatri pise
J Jyosna Nannaware
NB Nilima Bobade
PS Payal Sukhadeve
PK Pratiksha kamdi
P Priya Pise
P PUNAM KUMALE
TK Tejas khobragade
Invite


12:40 PM
Types of media based on physical nature
1. Liquid Media:
- also referred as "broth"
- Example: nutrient broth
- NO solidifying agent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Participants (12)
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Rohit Chandekar (Host)
AB Abhi Bobade
AS Achal Sahare
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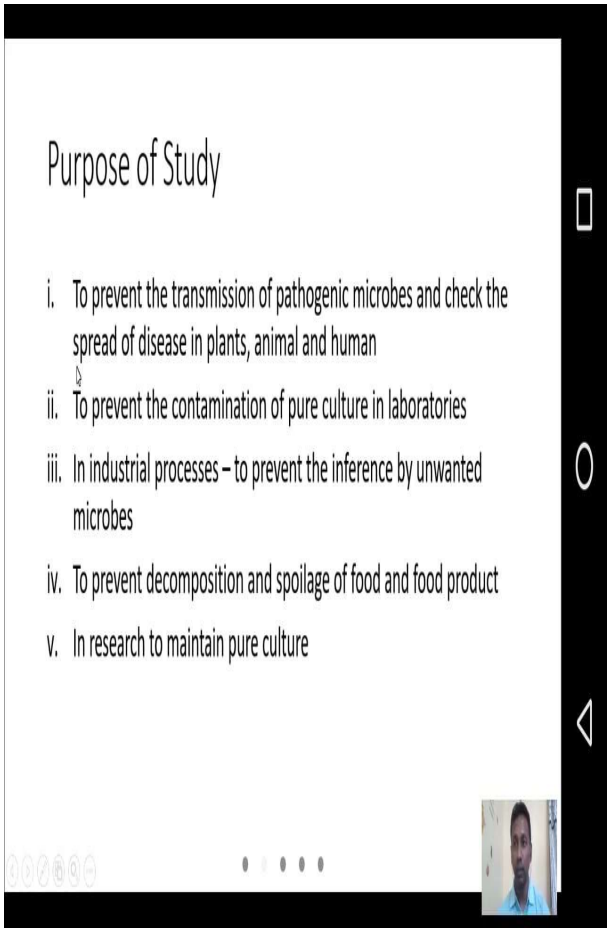
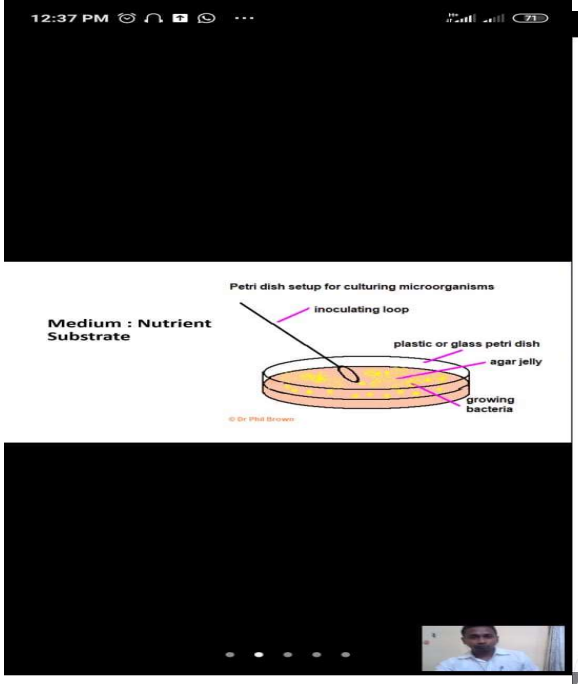
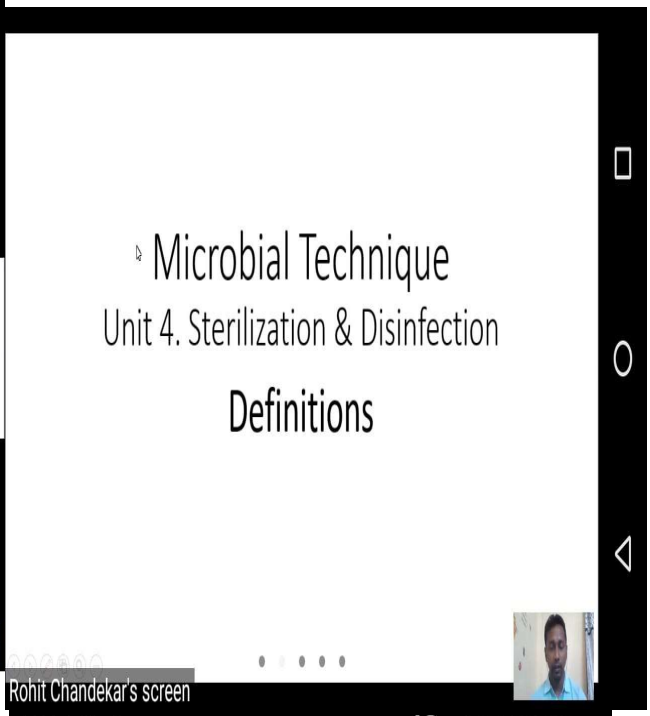
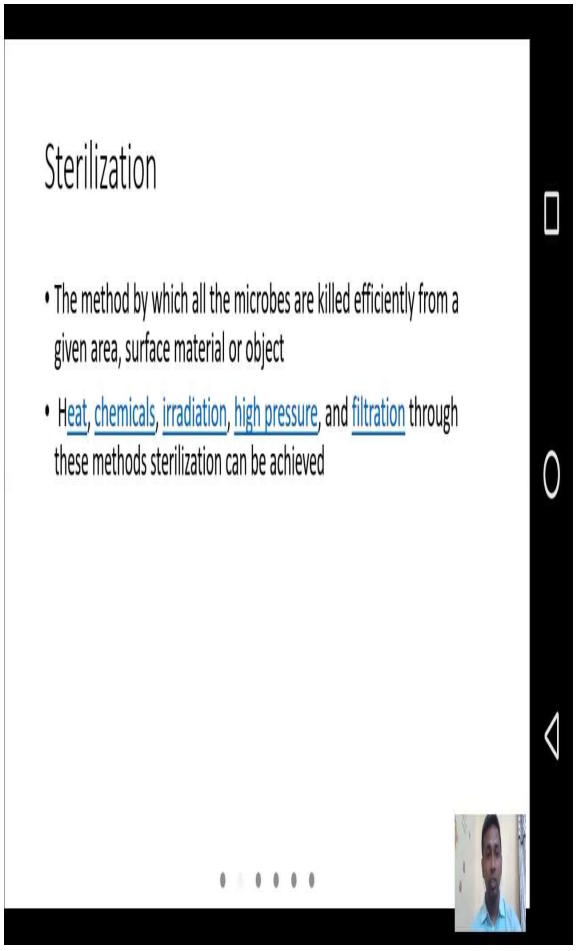
PK Pratiksha kamdi
P Priya Pise
AB Android Bluedroid
PS Payal Sukhadeve
P PUNAM KUMALE
SF SHUBHAM FATING
TK Tejas khobragade
Invite

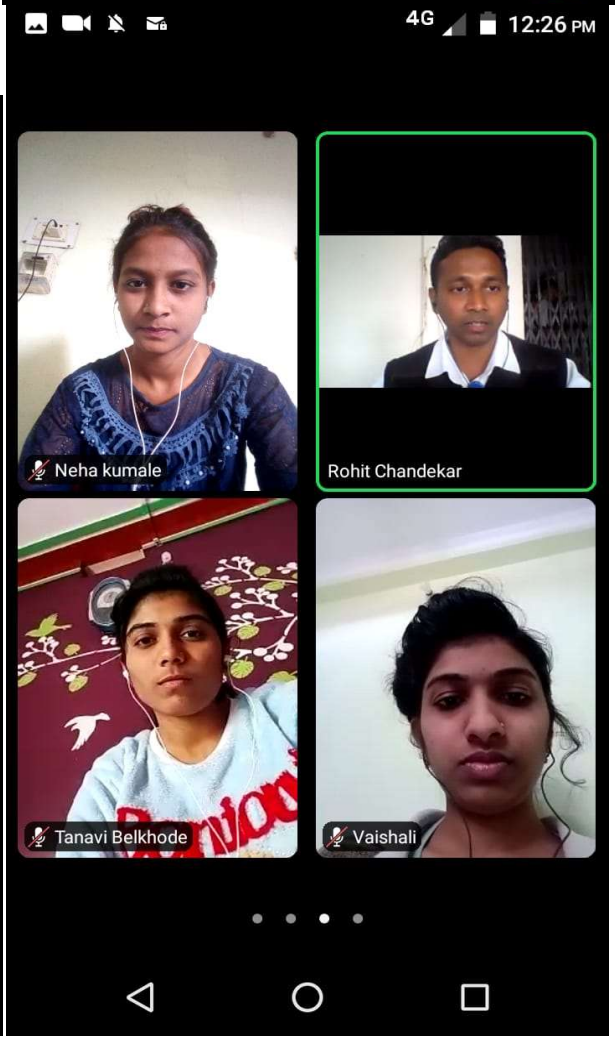

Purpose of Study
i. To prevent the transmission of pathogenic microbes and check the spread of disease in plants, animal and human
ii. To prevent the contamination of pure culture in laboratories
iii. In industrial processes – to prevent the inference by unwanted microbes
iv. To prevent decomposition and spoilage of food and food product
v. In research to maintain pure culture





Rohit Chandekar's screen





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i. To prevent the transmission of pathogenic microbes and check the spread of disease in plants, animal and human
ii. To prevent the contamination of pure culture in laboratories
iii. In industrial processes – to prevent the inference by unwanted microbes
iv. To prevent decomposition and spoilage of food and food product
v. In research to maintain pure culture

12:17 PM

Rohit Chandekar's screen

Zoom

Leave

Microbiostatic

- That inhibits the growth or multiplication of microbiota
- It create condition wherein microbes are prevented from multiplying but nit immediately killed
- Keeping the biological activity in static condition
- Low temperature, weak disinfectant
- After removal of microbiostatic agent microbes start multiplication

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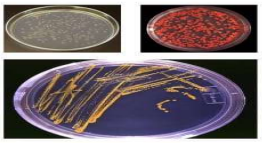
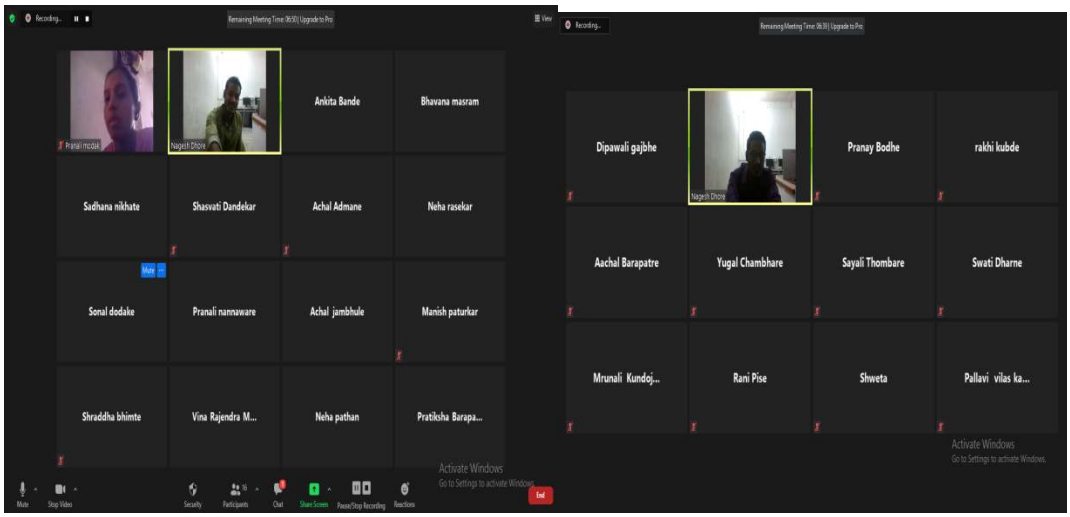
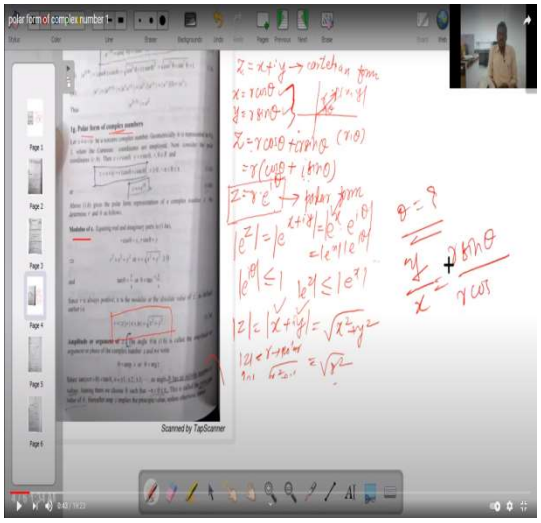
12:39 PM

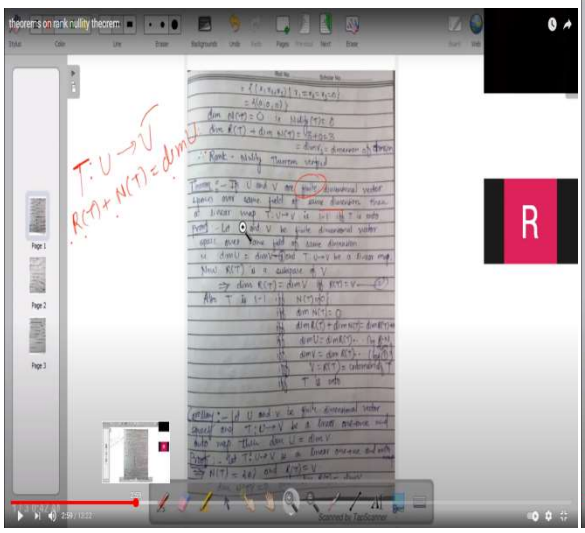
Pure Culture : Isolation of Single species of Microorganism

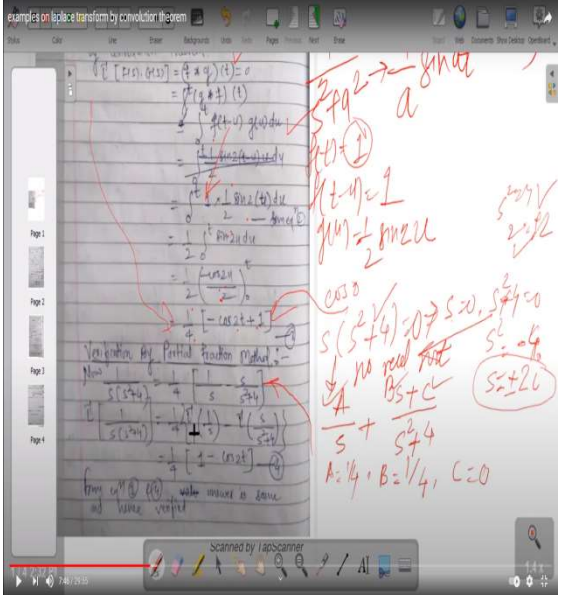


Department of Mathematics






theorem's on rank nullity theorem
T: U → V
R(T) + N(T) = dim U
R


examples on laplace transform by convolution theorem
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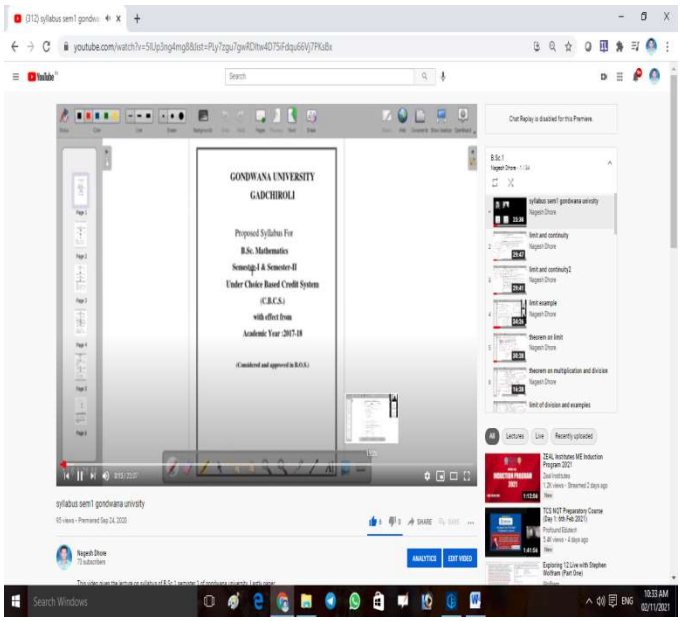
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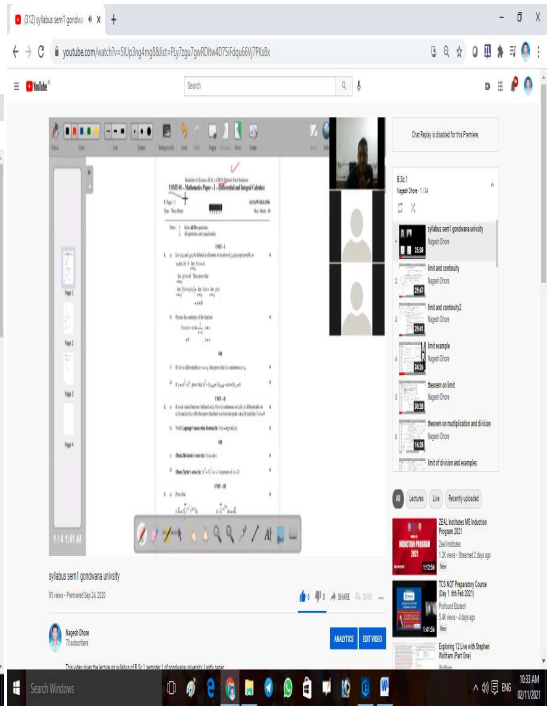
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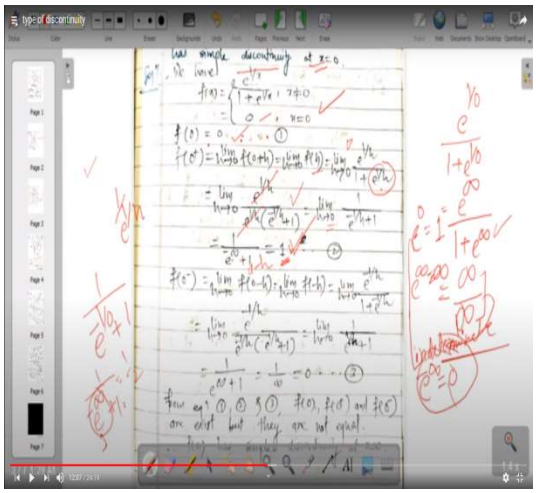
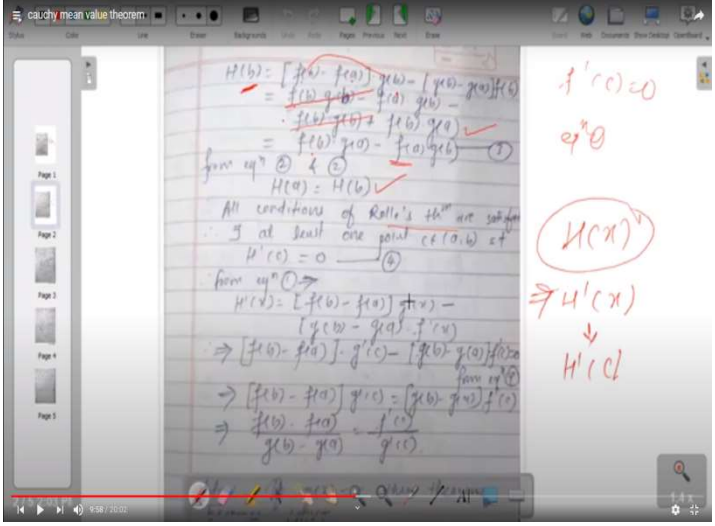

type of discontinuity


cauchy mean value theorem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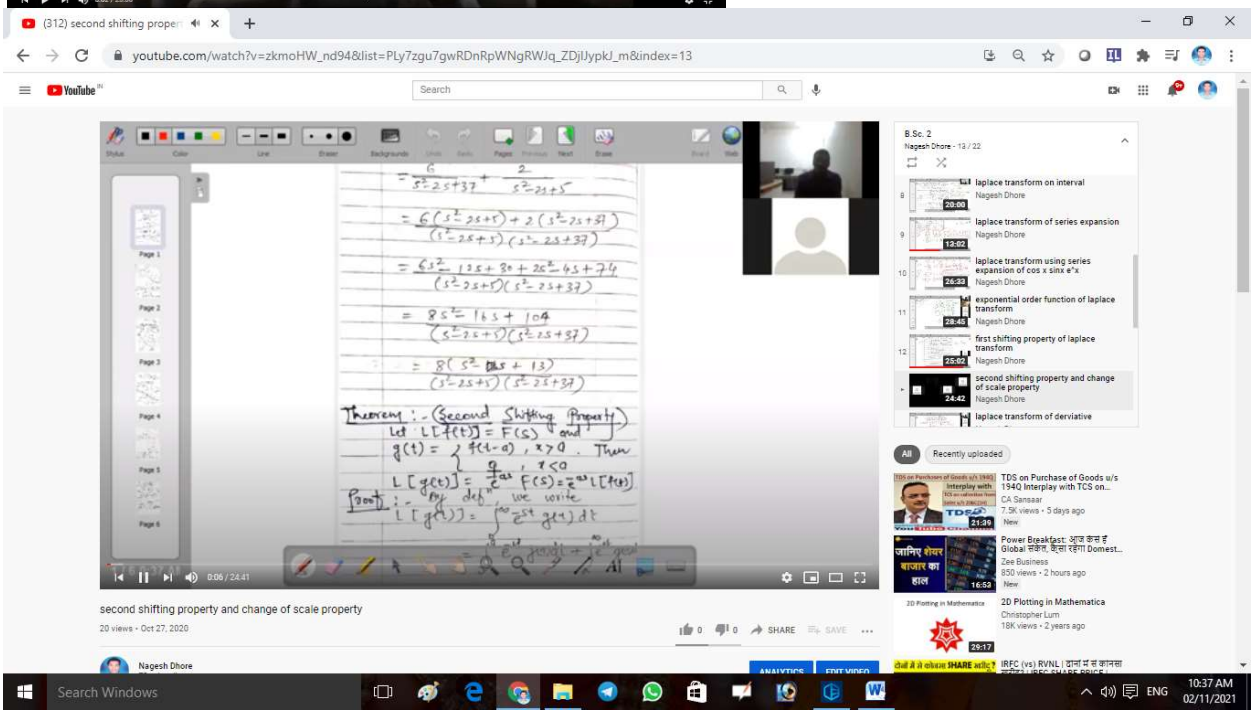
(312) second shifting proper
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Theorem :- (Second Shifting Property)
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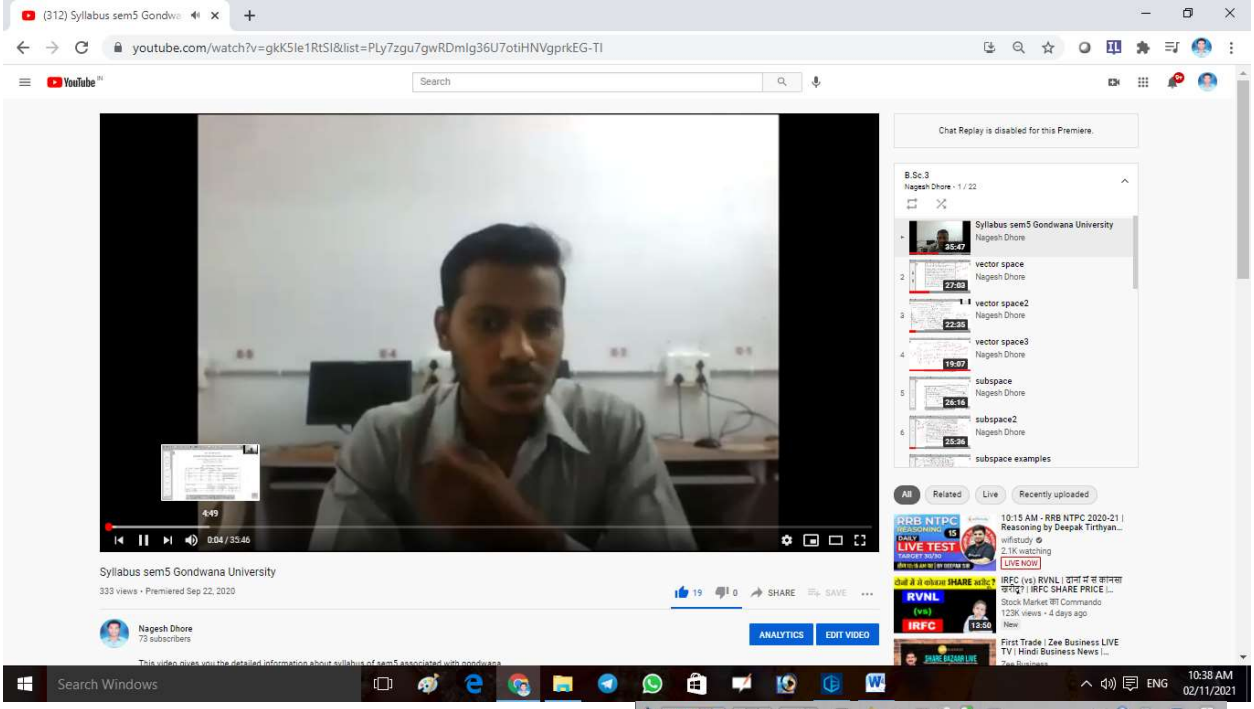
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subspace
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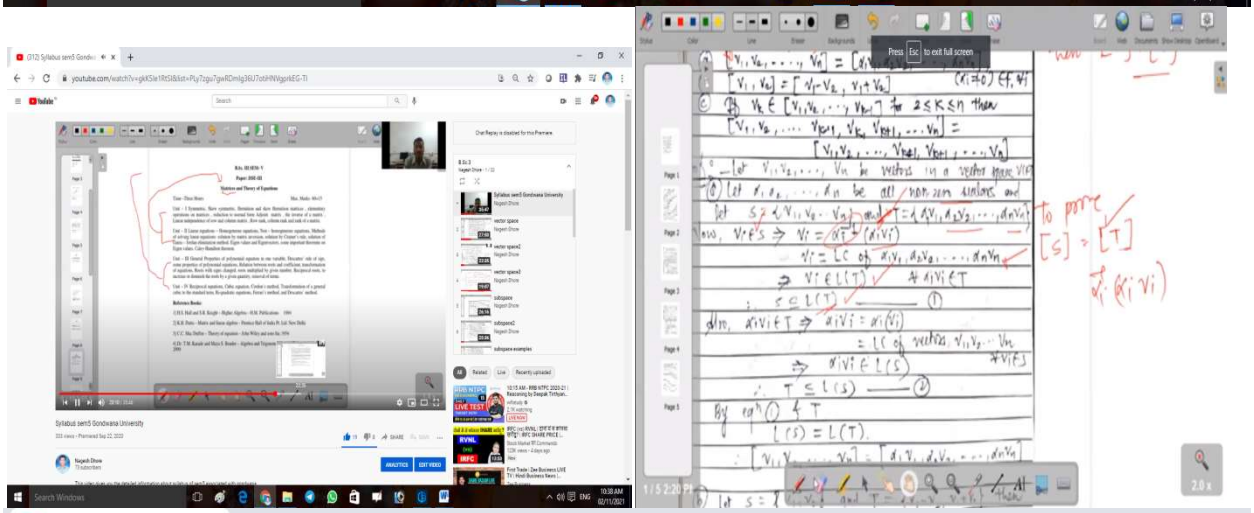
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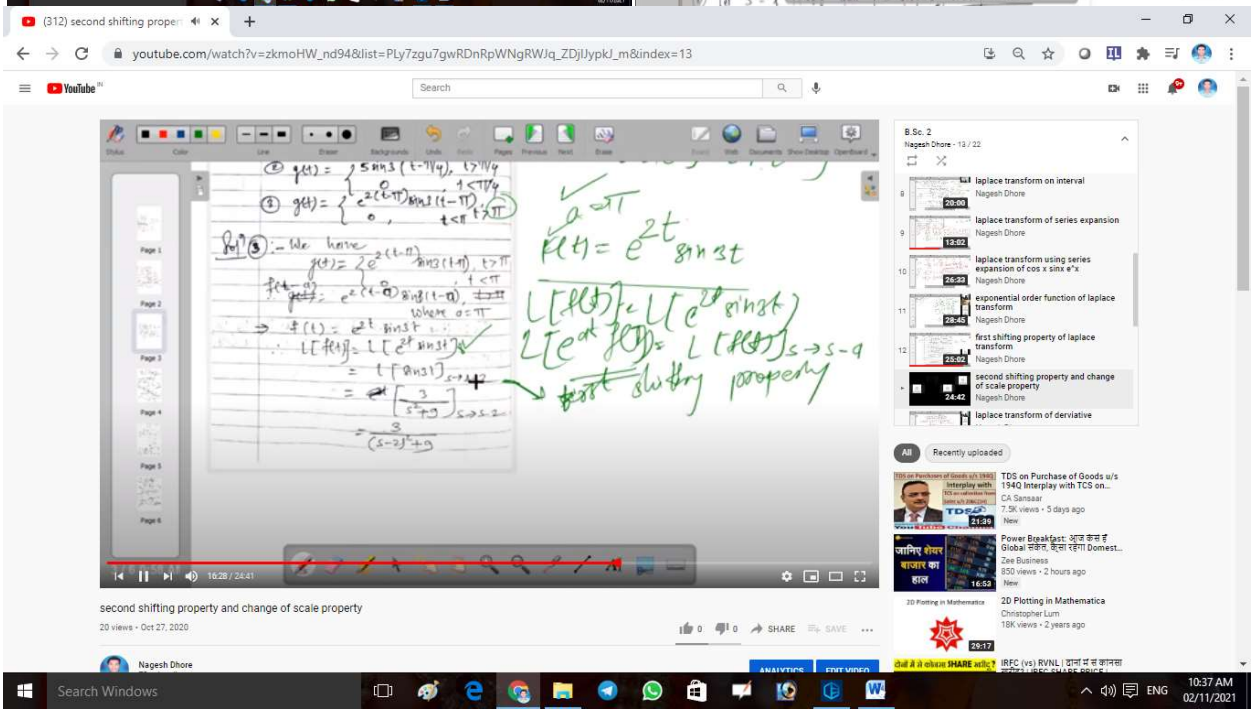
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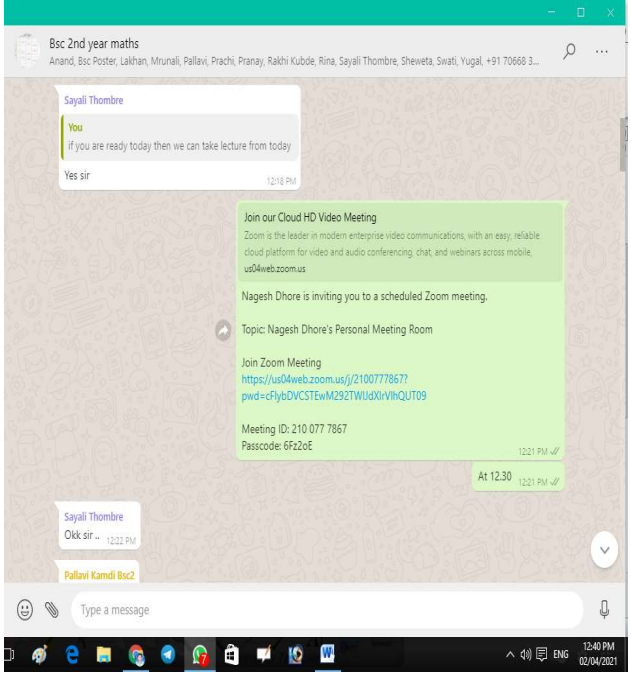
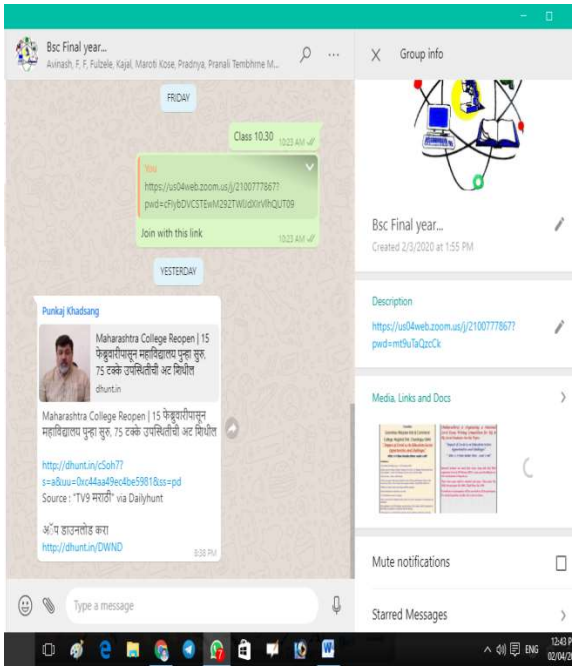
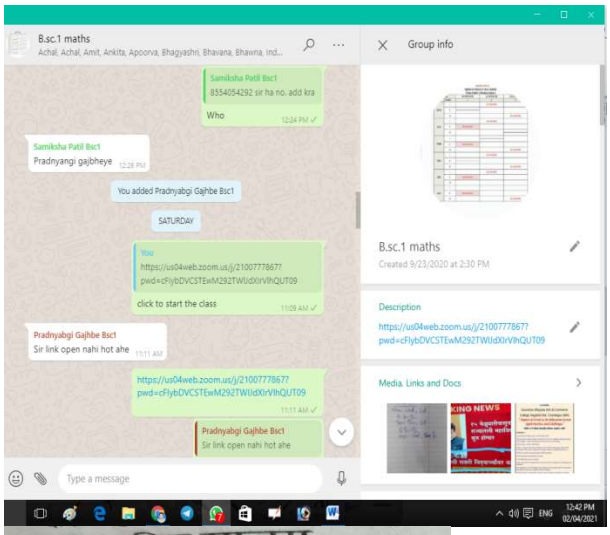
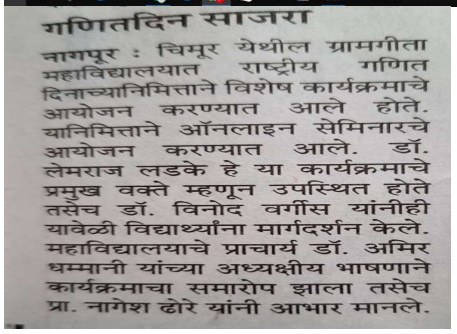


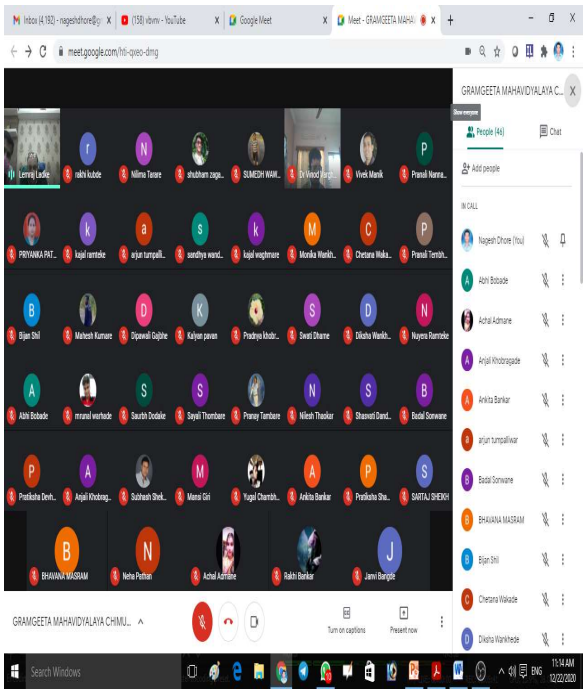






गणितदिन साजरा

नागपूर : चिमूर येथील ग्रामगीता महाविद्यालयात राष्ट्रीय गणित दिनाच्यानिमित्ताने विशेष कार्यक्रमाचे आयोजन करण्यात आले होते. यानिमित्ताने ऑनलाइन सेमिनारचे आयोजन करण्यात आले. डॉ. लेमराज लडके हे या कार्यक्रमाचे प्रमुख वक्ते म्हणून उपस्थित होते तसेच डॉ. विनोद वर्गीस यांनीही यावेळी विद्यार्थ्यांना मार्गदर्शन केले. महाविद्यालयाचे प्राचार्य डॉ. अमिर धम्मानी यांच्या अध्यक्षीय भाषणाने कार्यक्रमाचा समारोप झाला तसेच प्रा. नागेश ढोरे यांनी आभार मानले.



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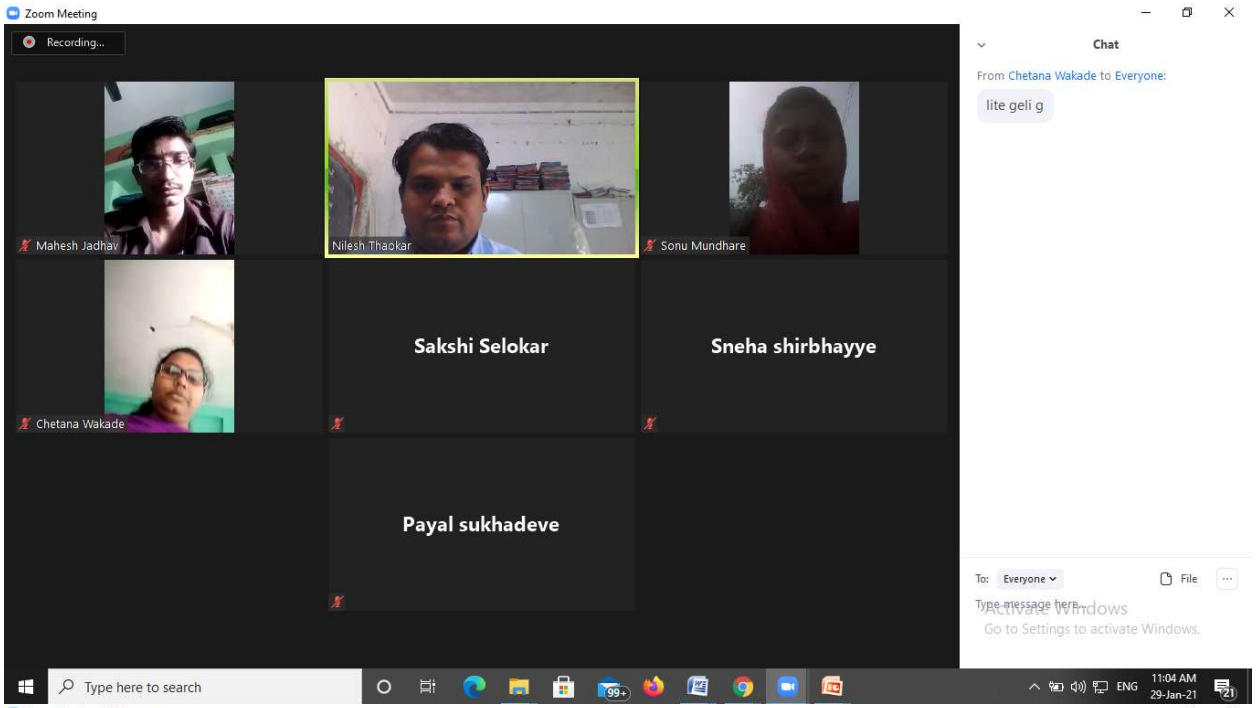

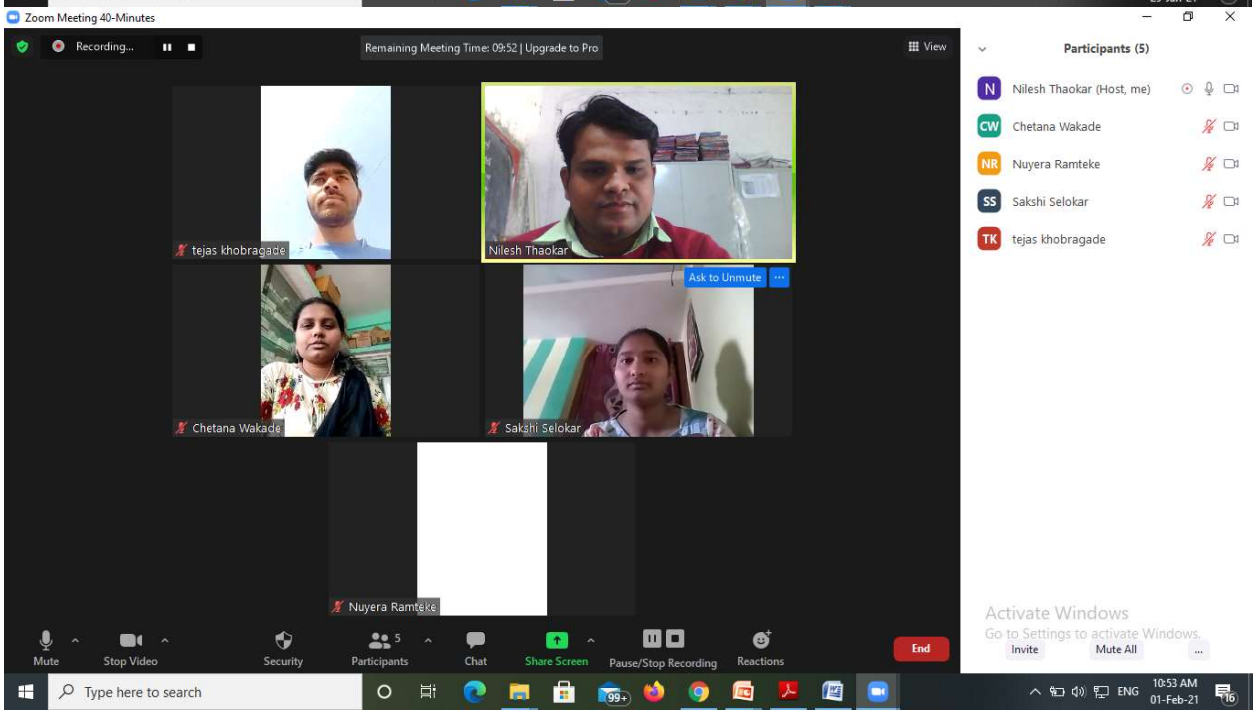

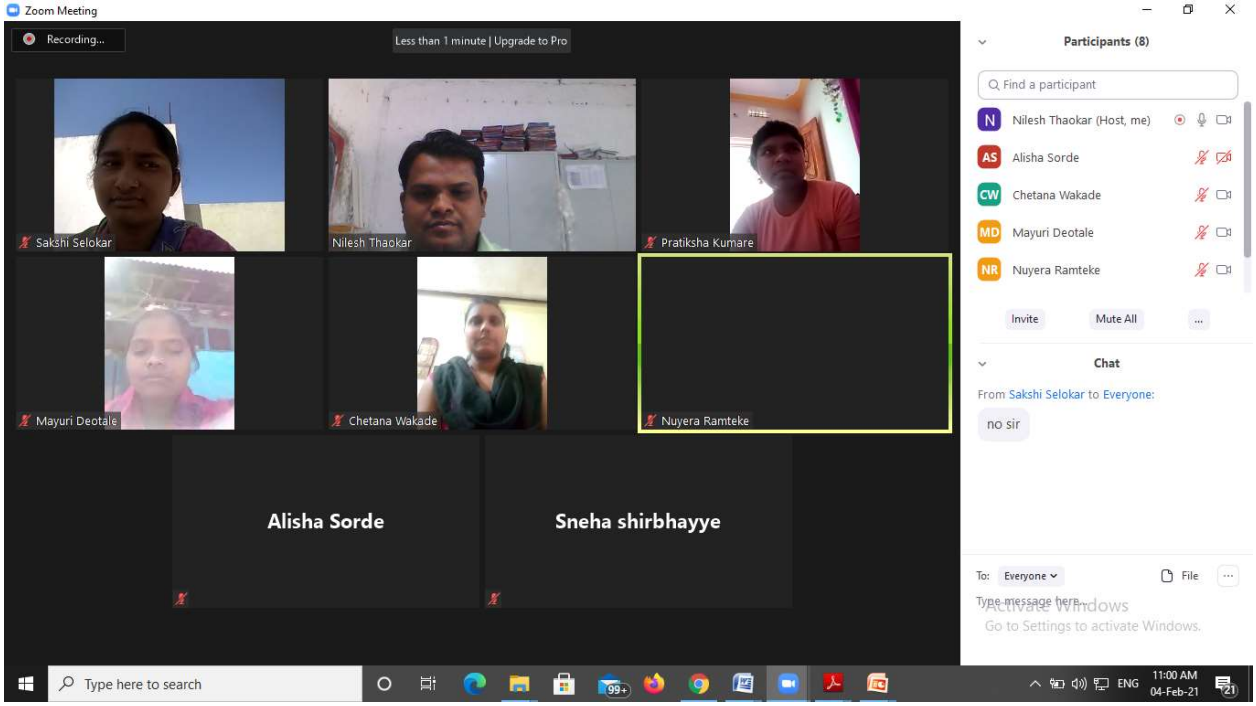
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Sakshi Selokar
Nilesh Thaokar
Pratiksha Kumare
Mayuri Deotale
Chetana Wakade
Nuyera Ramteke
Alisha Sorde
Sneha shirbhayye
Participants (8)
Find a participant
Nilesh Thaokar (Host, me)
Alisha Sorde
Chetana Wakade
Mayuri Deotale
Nuyera Ramteke
Invite
Mute All
Chat
From Sakshi Selokar to Everyone:
no sir
To: Everyone
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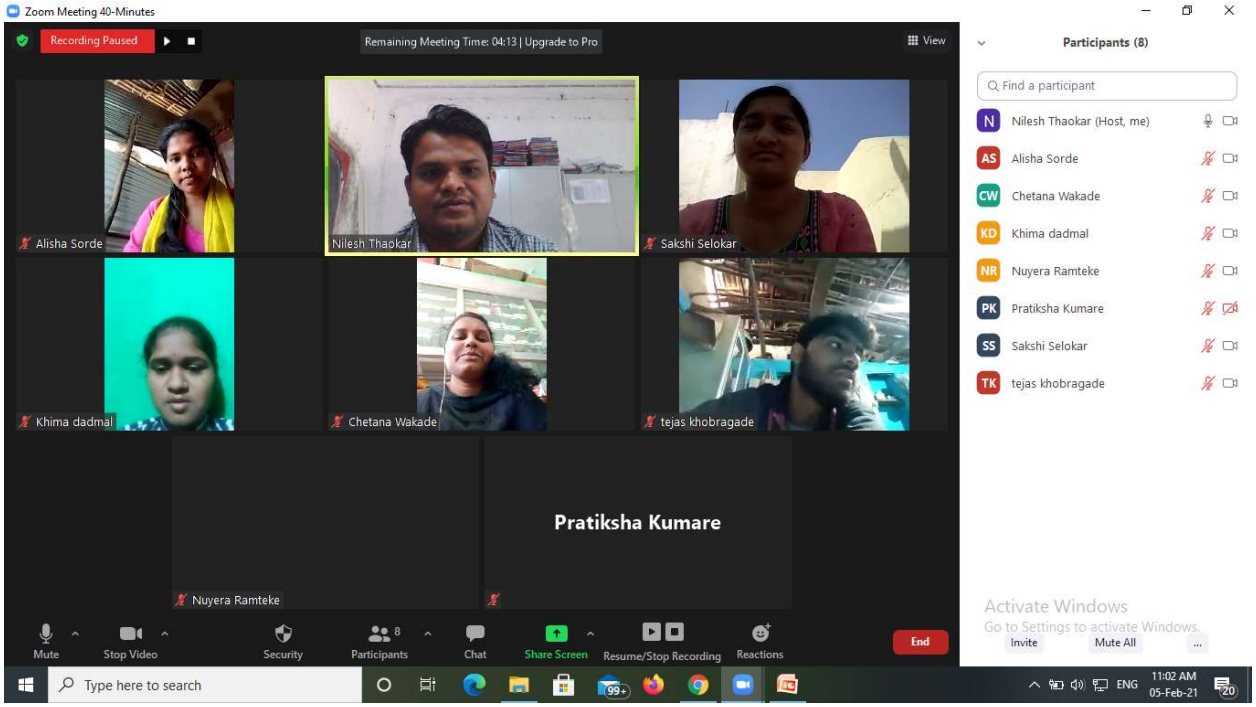
04-Feb-21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Nilesh Thaokar
Sakshi Selokar
Khima dadmal
Chetana Wakade
tejas khobragade
Nuyera Ramteke
Pratiksha Kumare
Participants (8)
Find a participant
Nilesh Thaokar (Host, me)
Alisha Sorde
Chetana Wakade
Khima dadmal
Nuyera Ramteke
Pratiksha Kumare
Sakshi Selokar
tejas khobragade
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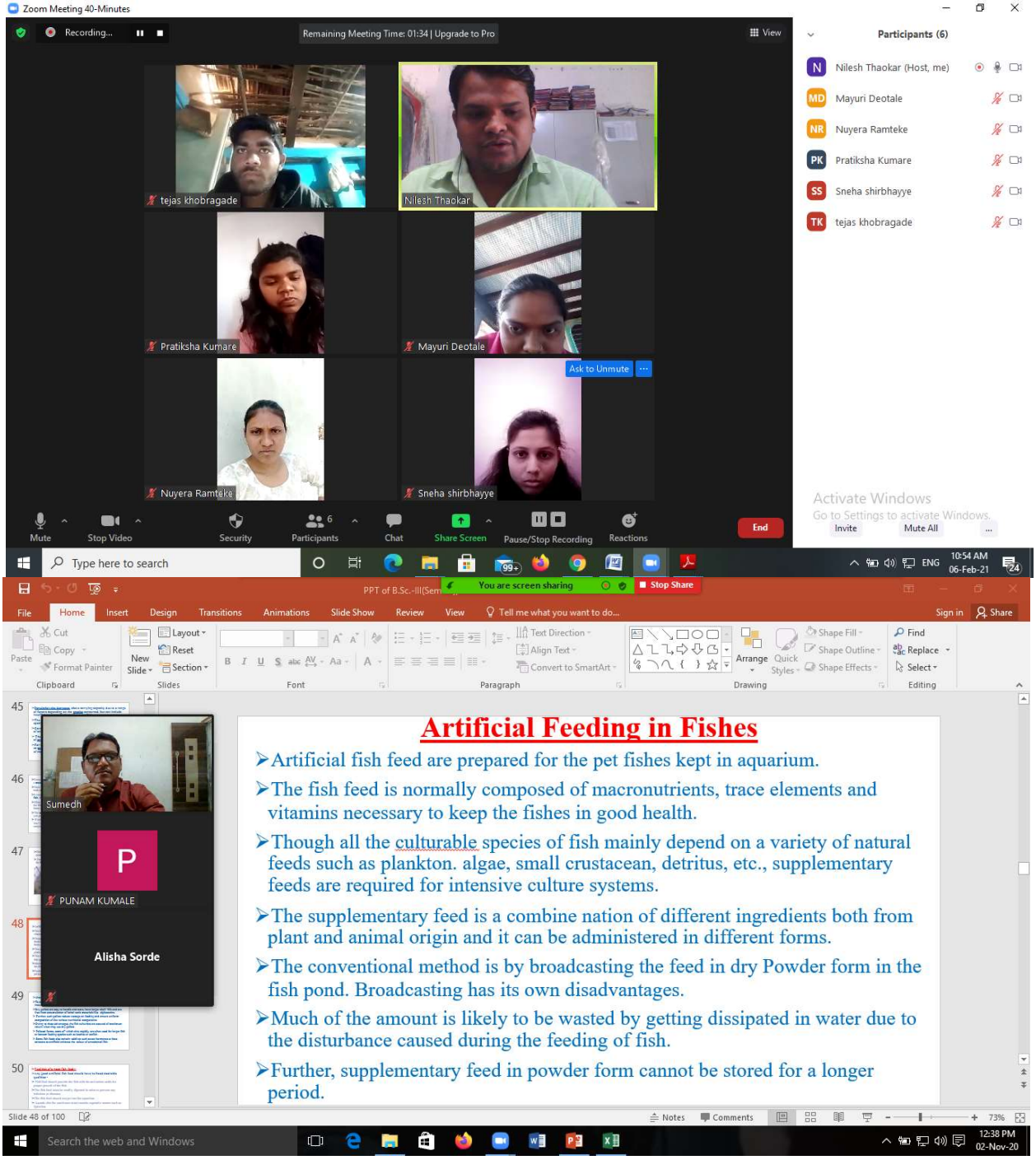
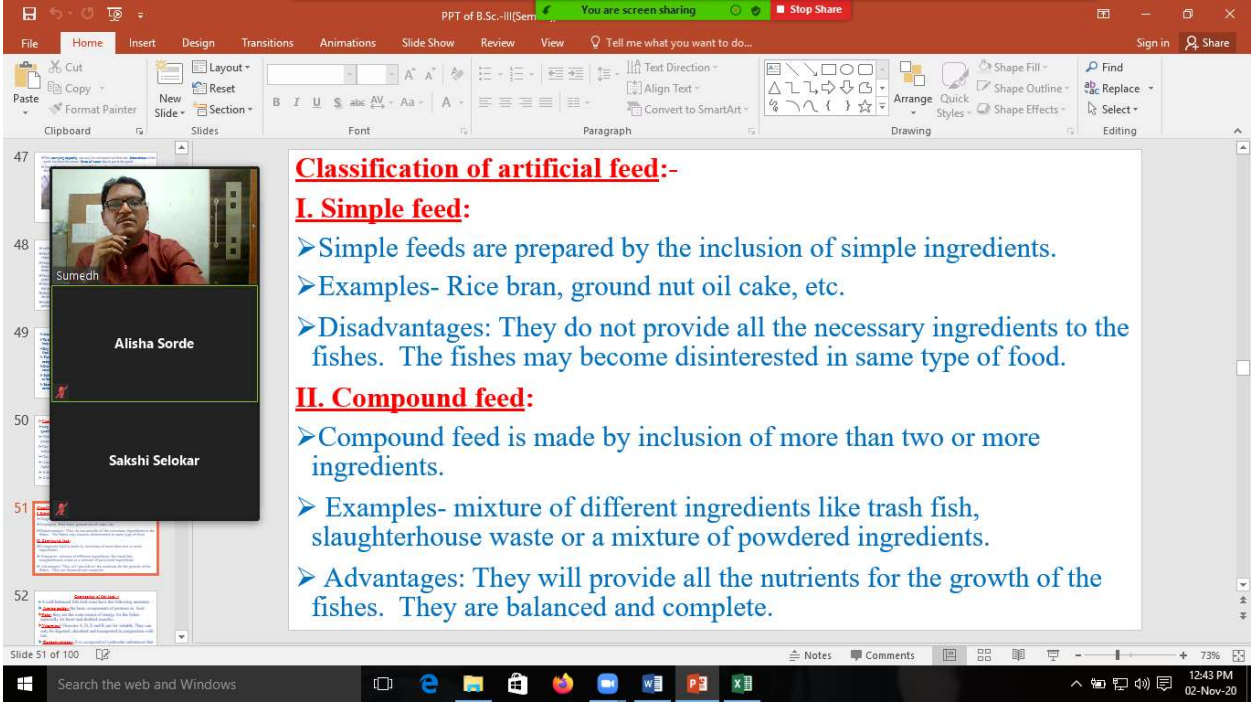


Date:-02/11/2020 Time:-12:30 to 1:10pm(Monday) 3rd Period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Sakshi Selokar
Classification of artificial feed:-
I. Simple feed:
Simple feeds are prepared by the inclusion of simple ingredients.
Examples- Rice bran, ground nut oil cake, etc.
Disadvantages: They do not provide all the necessary ingredients to the fishes. The fishes may become disinterested in same type of food.
II. Compound feed:
Compound feed is made by inclusion of more than two or more ingredients.
Examples- mixture of different ingredients like trash fish, slaughterhouse waste or a mixture of powdered ingredients.
Advantages: They will provide all the nutrients for the growth of the fishes. They are balanced and complete.
Slide 51 of 100
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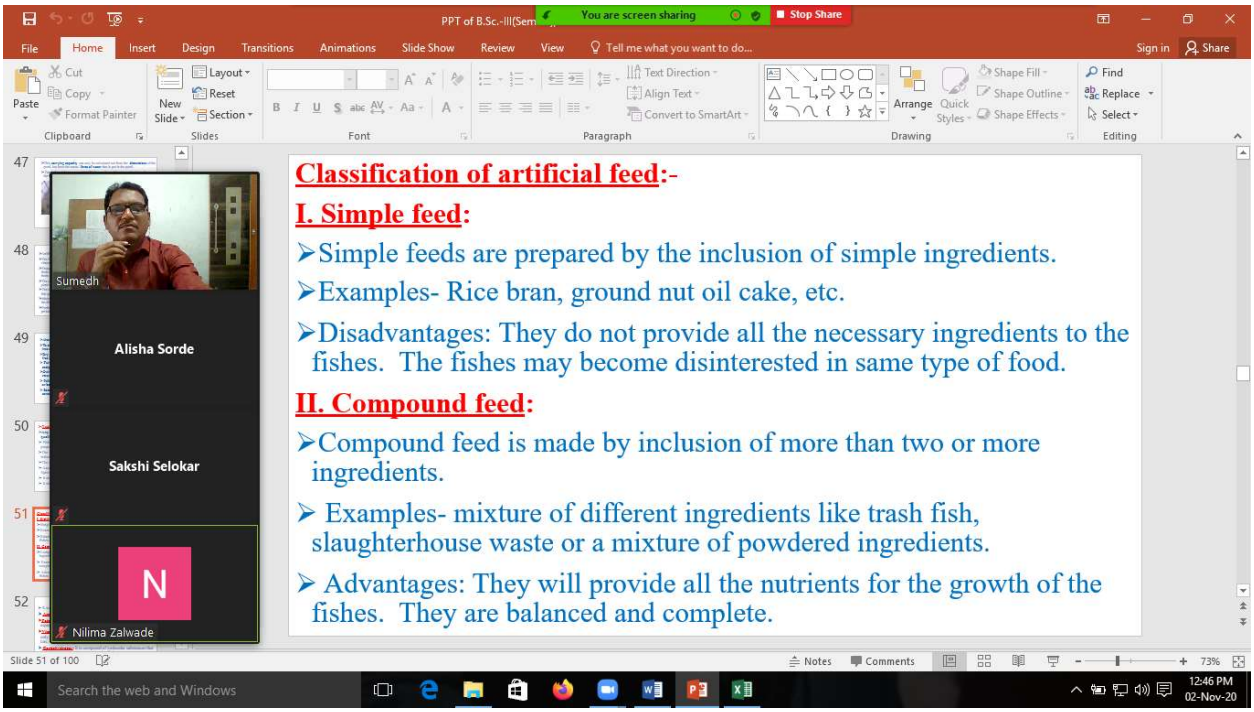
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Nilima Zalwade
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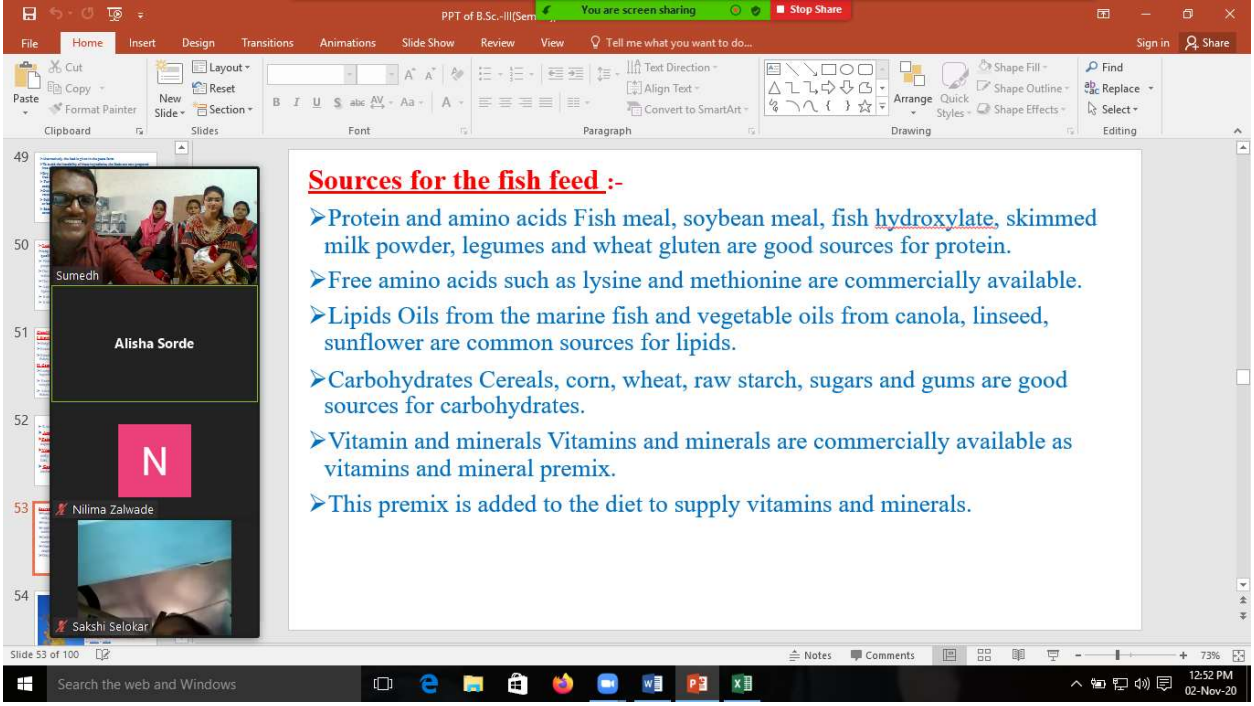
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Sources for the fish feed :-
Protein and amino acids Fish meal, soybean meal, fish hydroxylate, skimmed milk powder, legumes and wheat gluten are good sources for protein.
Free amino acids such as lysine and methionine are commercially available.
Lipids Oils from the marine fish and vegetable oils from canola, linseed, sunflower are common sources for lipids.
Carbohydrates Cereals, corn, wheat, raw starch, sugars and gums are good sources for carbohydrates.
Vitamin and minerals Vitamins and minerals are commercially available as vitamins and mineral premix.
This premix is added to the diet to supply vitamins and minerals.
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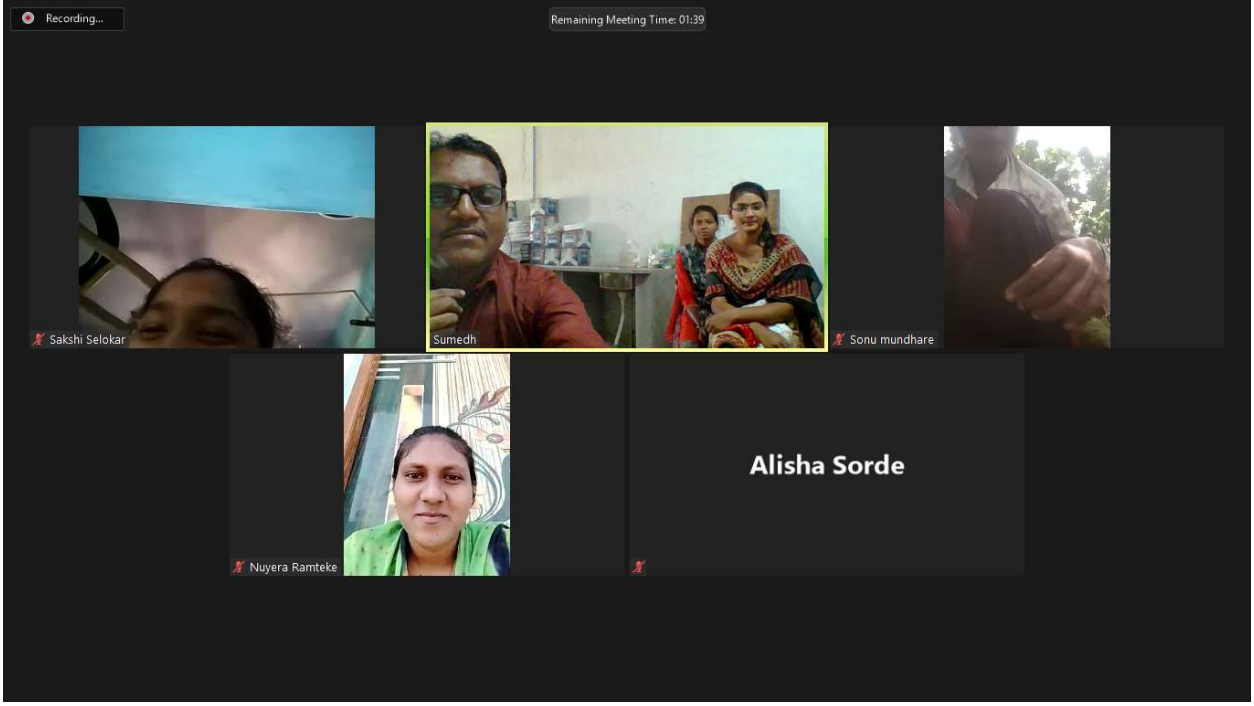
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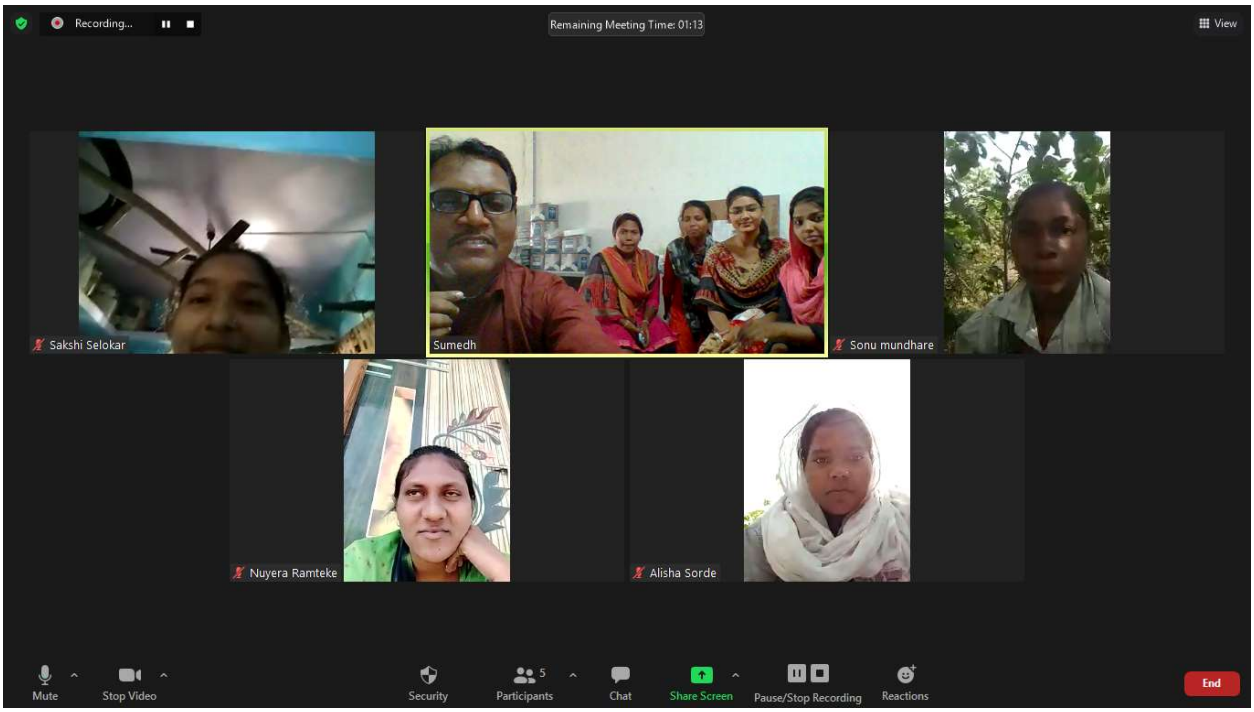
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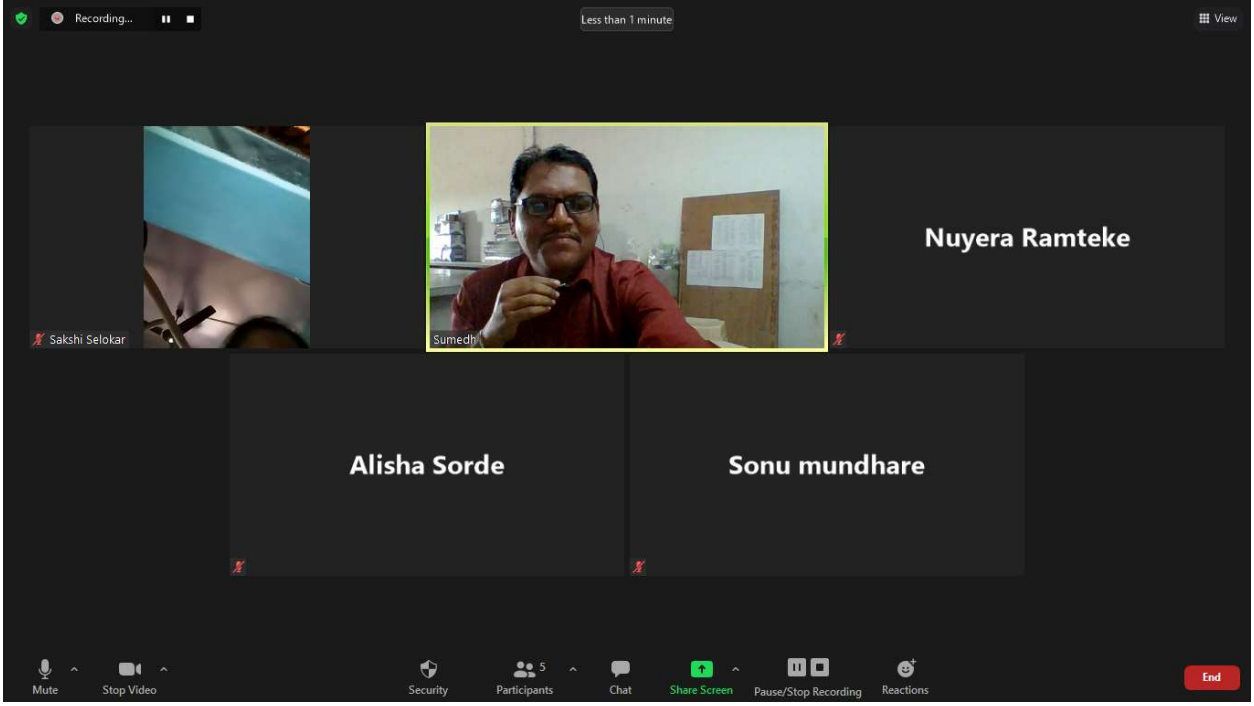

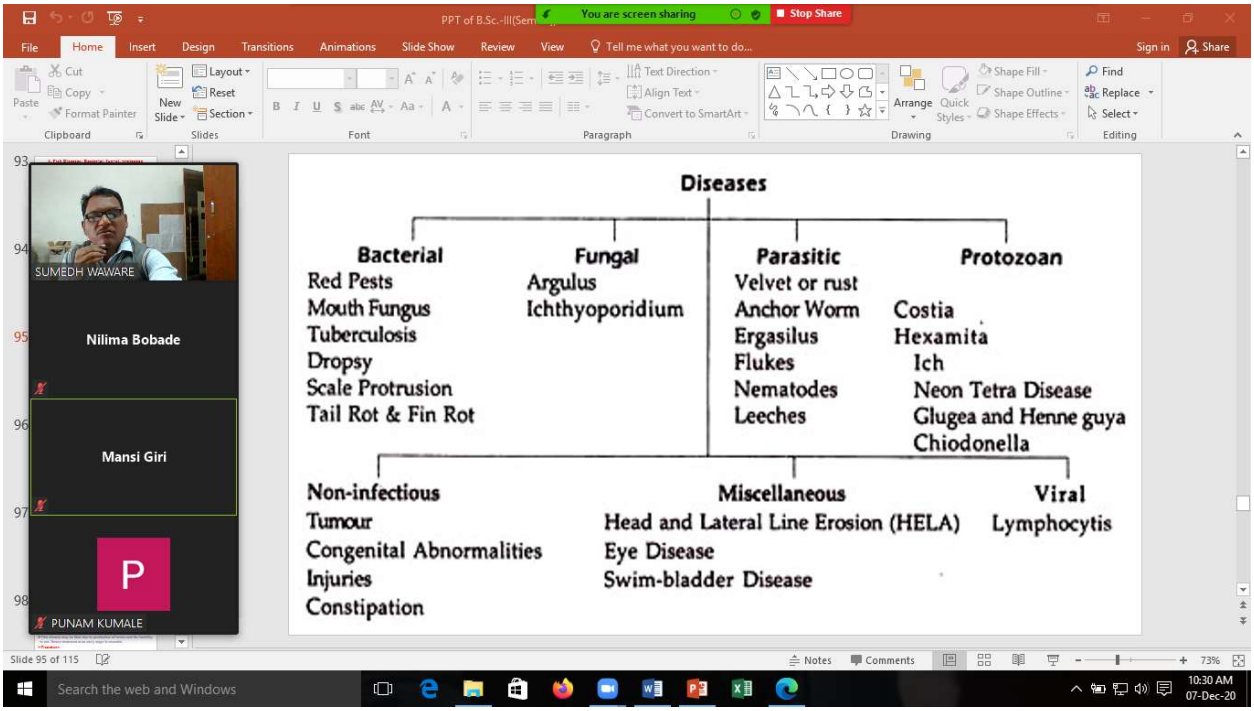

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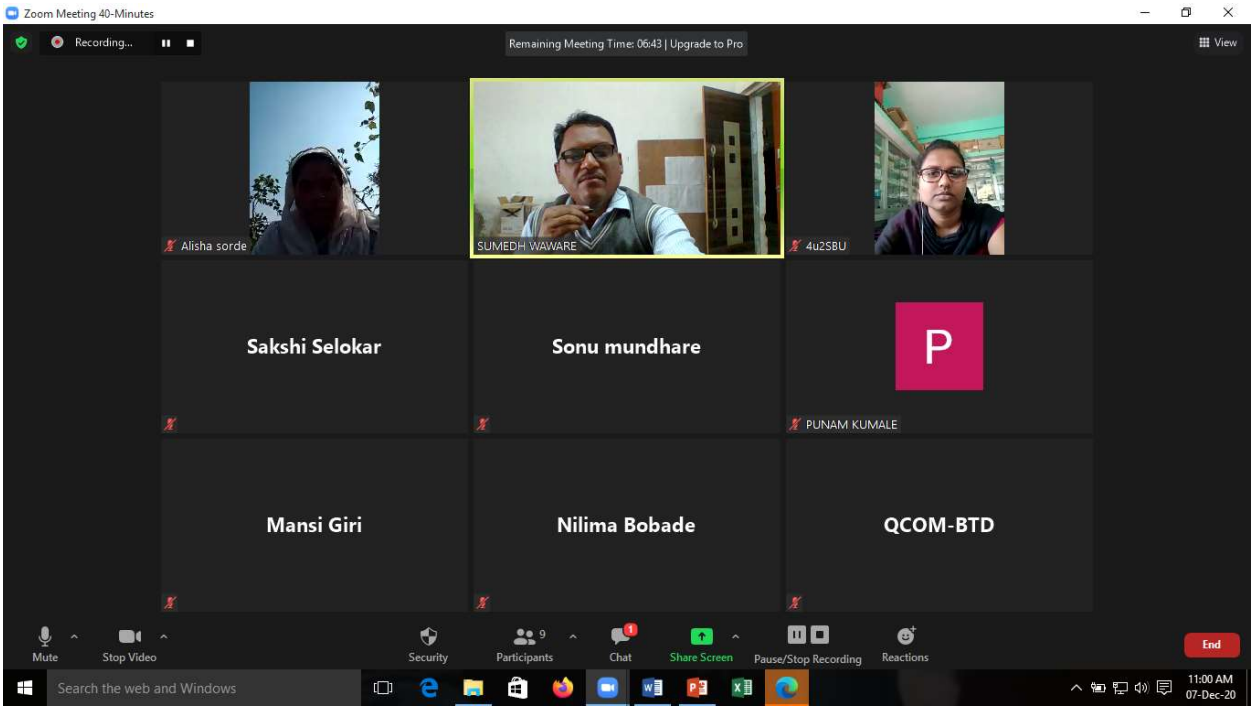
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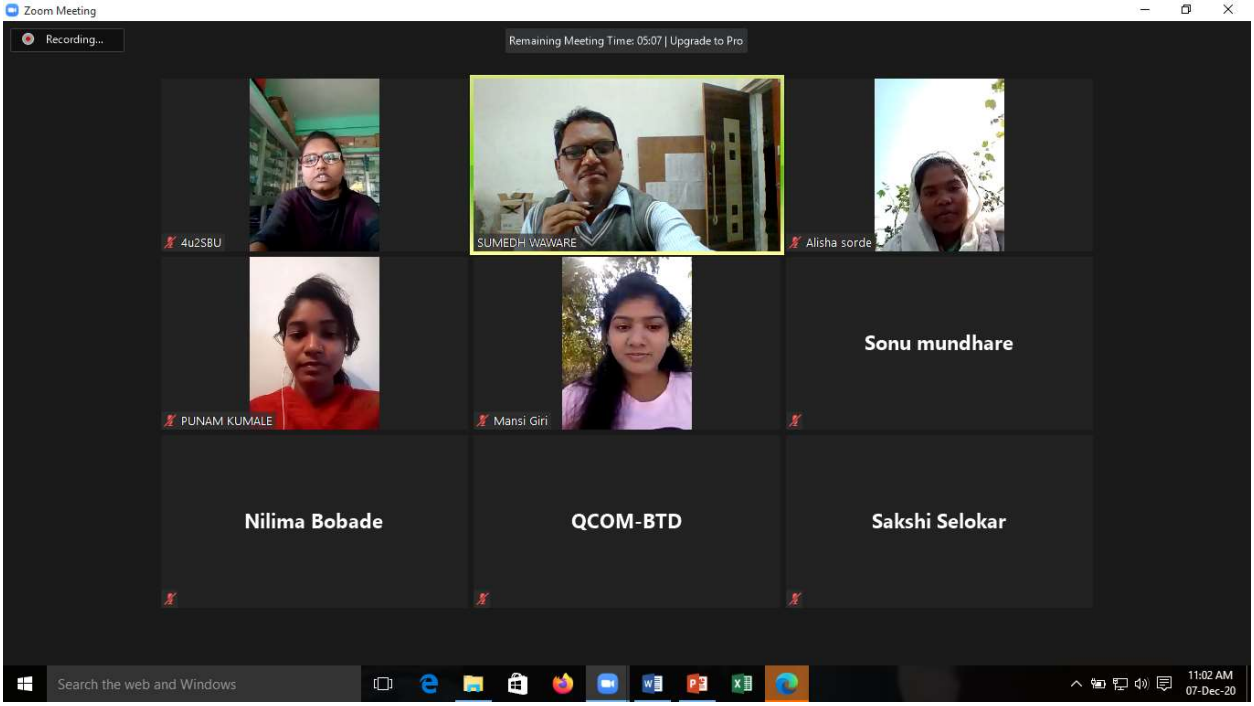
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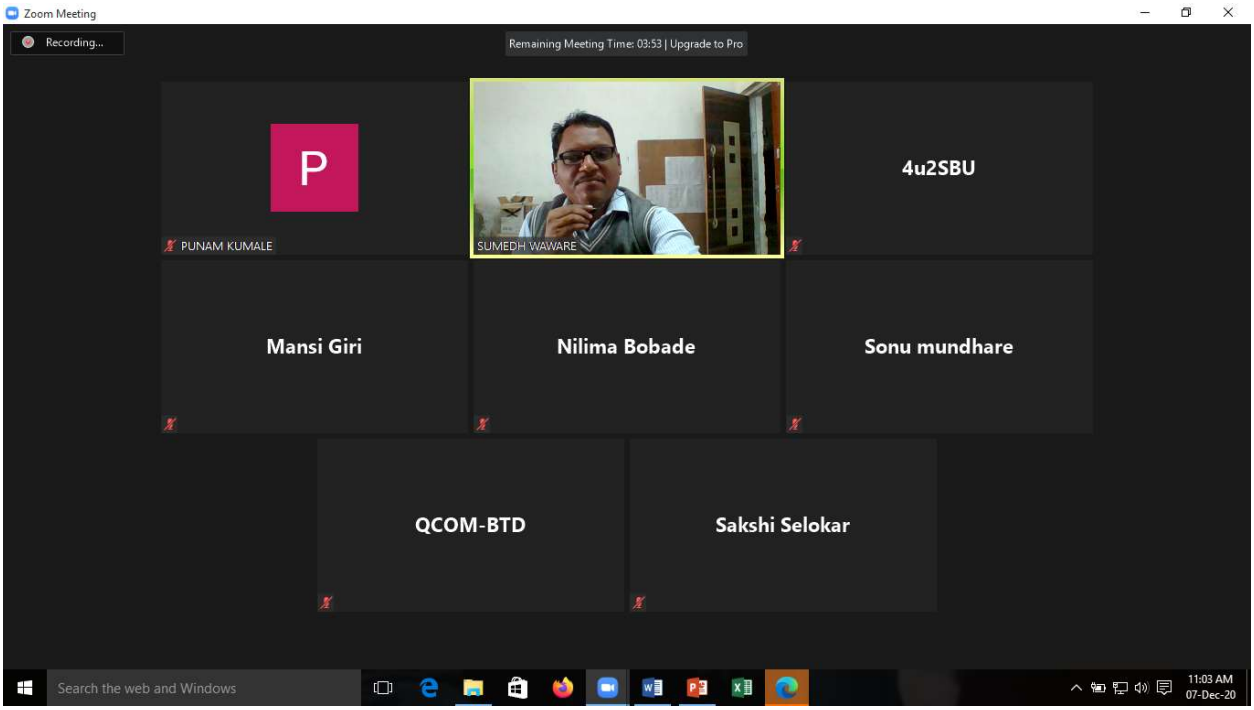
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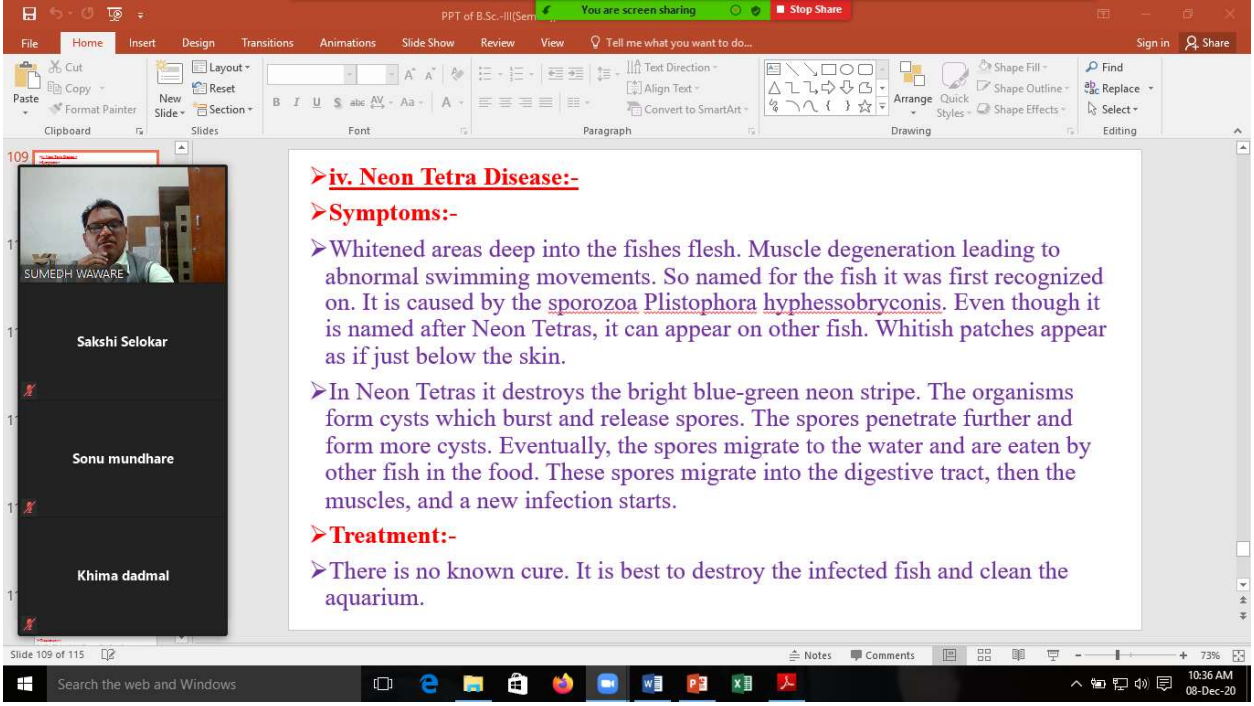
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iv. Neon Tetra Disease:-
Symptoms:-
Whitened areas deep into the fishes flesh. Muscle degeneration leading to abnormal swimming movements. So named for the fish it was first recognized on. It is caused by the sporozoa Plistophora hyphessobryconis. Even though it is named after Neon Tetras, it can appear on other fish. Whitish patches appear as if just below the skin.
In Neon Tetras it destroys the bright blue-green neon stripe. The organisms form cysts which burst and release spores. The spores penetrate further and form more cysts. Eventually, the spores migrate to the water and are eaten by other fish in the food. These spores migrate into the digestive tract, then the muscles, and a new infection starts.
Treatment:-
There is no known cure. It is best to destroy the infected fish and clean the aquarium.
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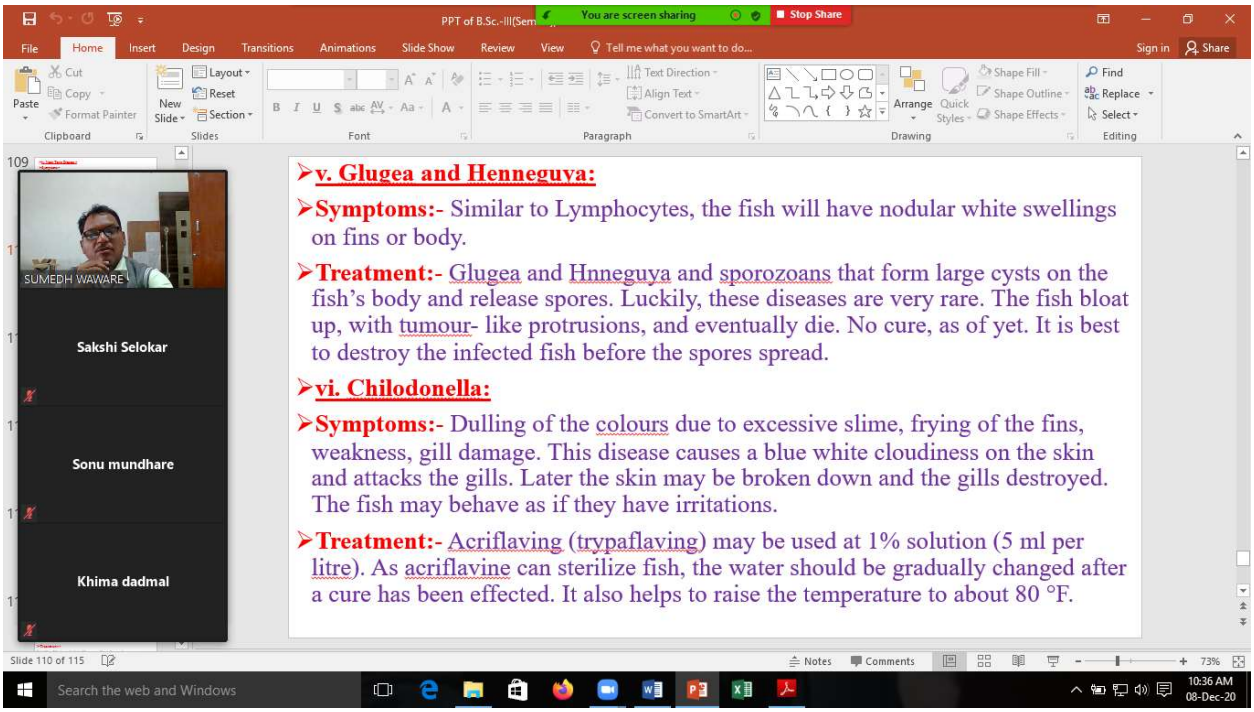
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v. Glugea and Henneguya:
Symptoms:- Similar to Lymphocytes, the fish will have nodular white swellings on fins or body.
Treatment:- Glugea and Hnneguya and sporozoans that form large cysts on the fish's body and release spores. Luckily, these diseases are very rare. The fish bloat up, with tumour- like protrusions, and eventually die. No cure, as of yet. It is best to destroy the infected fish before the spores spread.
vi. Chilodonella:
Symptoms:- Dulling of the colours due to excessive slime, frying of the fins, weakness, gill damage. This disease causes a blue white cloudiness on the skin and attacks the gills. Later the skin may be broken down and the gills destroyed. The fish may behave as if they have irritations.
Treatment:- Acriflaving (trypaflaving) may be used at 1% solution (5 ml per litre). As acriflavine can sterilize fish, the water should be gradually changed after a cure has been effected. It also helps to raise the temperature to about 80 °F.
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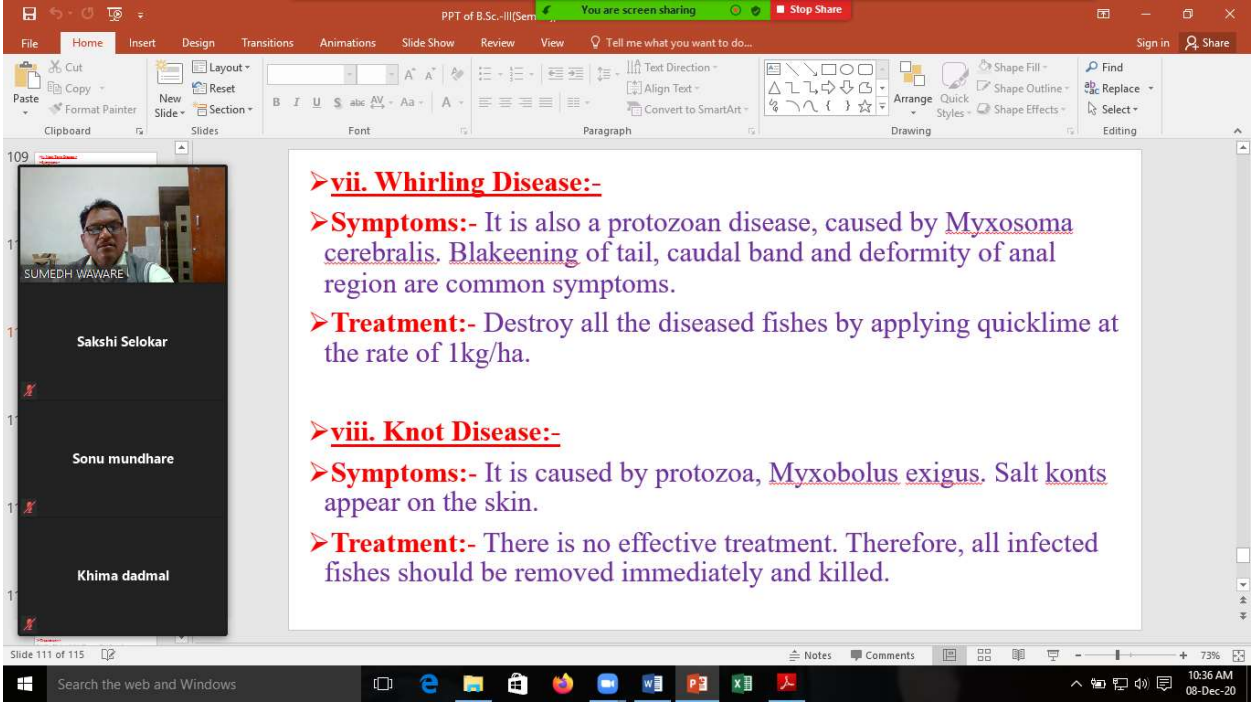
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➢vii. Whirling Disease:-
➢Symptoms:- It is also a protozoan disease, caused by Myxosoma cerebralis. Blakeening of tail, caudal band and deformity of anal region are common symptoms.
➢Treatment:- Destroy all the diseased fishes by applying quicklime at the rate of 1kg/ha.
➢viii. Knot Disease:-
➢Symptoms:- It is caused by protozoa, Myxobolus exigus. Salt konts appear on the skin.
➢Treatment:- There is no effective treatment. Therefore, all infected fishes should be removed immediately and killed.
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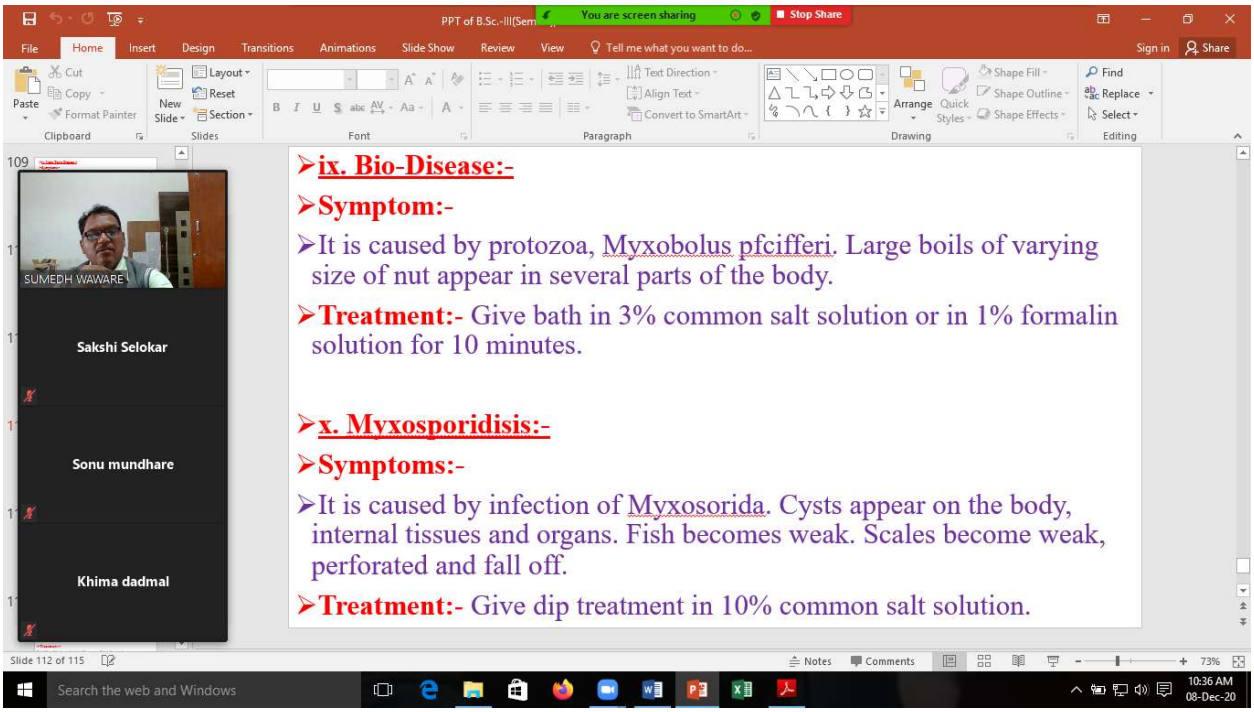
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➢ix. Bio-Disease:-
➢Symptom:-
➢It is caused by protozoa, Myxobolus pfcifferi. Large boils of varying size of nut appear in several parts of the body.
➢Treatment:- Give bath in 3% common salt solution or in 1% formalin solution for 10 minutes.
➢x. Myxosporidisis:-
➢Symptoms:-
➢It is caused by infection of Myxosorida. Cysts appear on the body, internal tissues and organs. Fish becomes weak. Scales become weak, perforated and fall off.
➢Treatment:- Give dip treatment in 10% common salt solution.
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ARTHROPODANS FISH DISEASES:-

- **i. Velvet or Rust:**
- **Symptoms:**
- Yellow to light brown **"dust"** on body, clamped fins, respiratory distress (breathing hard). This disease has the appearance of a golden or brownish dust over the fins and body. The fish may show signs of irritation, like glancing off aquarium decor, shortage of breath (fish-wise), and clamping of the fins.
- The gills are usually the first thing affected. Velvet affects different species in different ways. Danios seem to be the most susceptible, but often show no discomfort. The disease is highly contagious and fatal.
- **Treatment:**
- The best treatment is with copper at 0.2 mg per litre (0.2 ppm) to be repeated once in a few days, if necessary. Acriflaving (trypaflavine) may be used instead at 0.2% solution (1 ml per liter). As acriflavine can possibly sterilize fish and copper can lead to poisoning, the water should be gradually changed after a cure has been effected.

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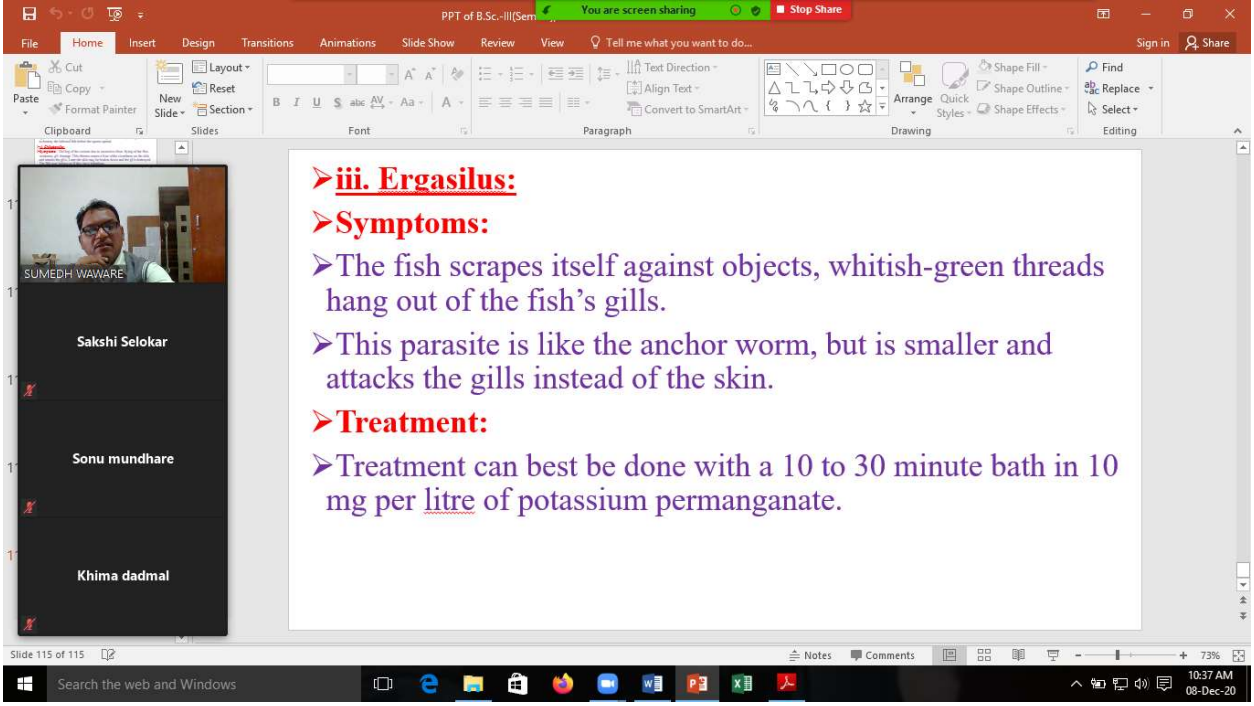
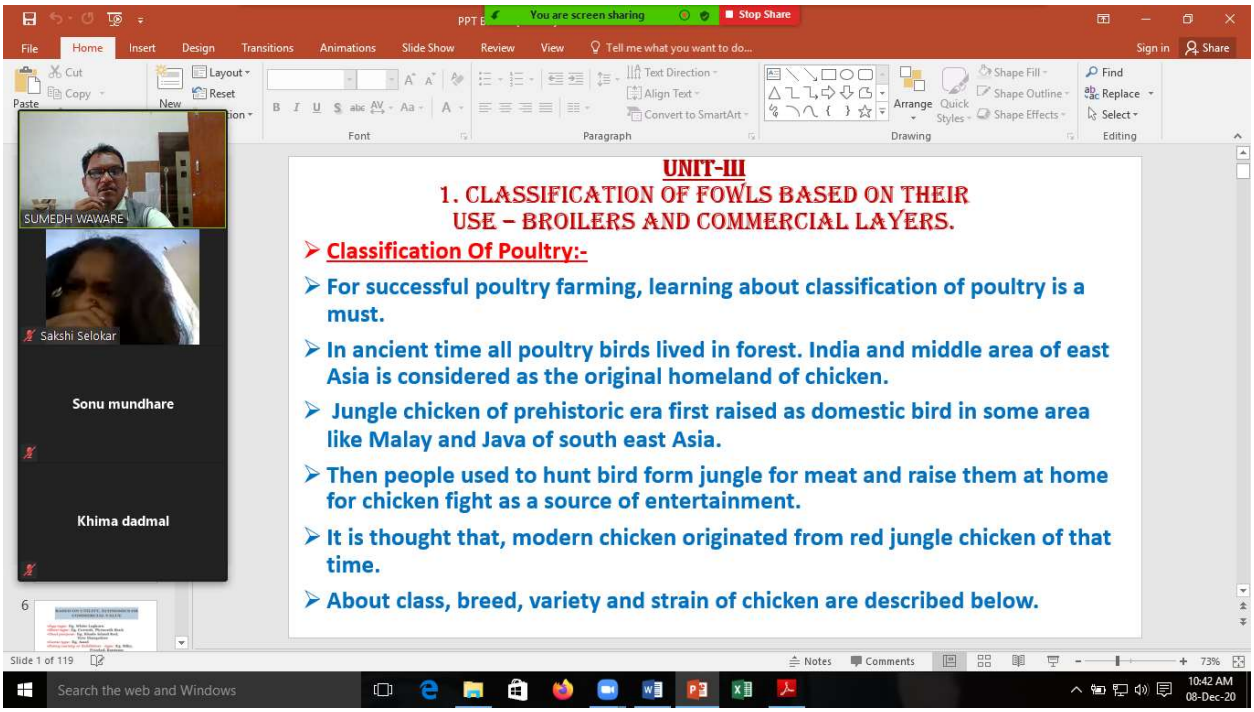
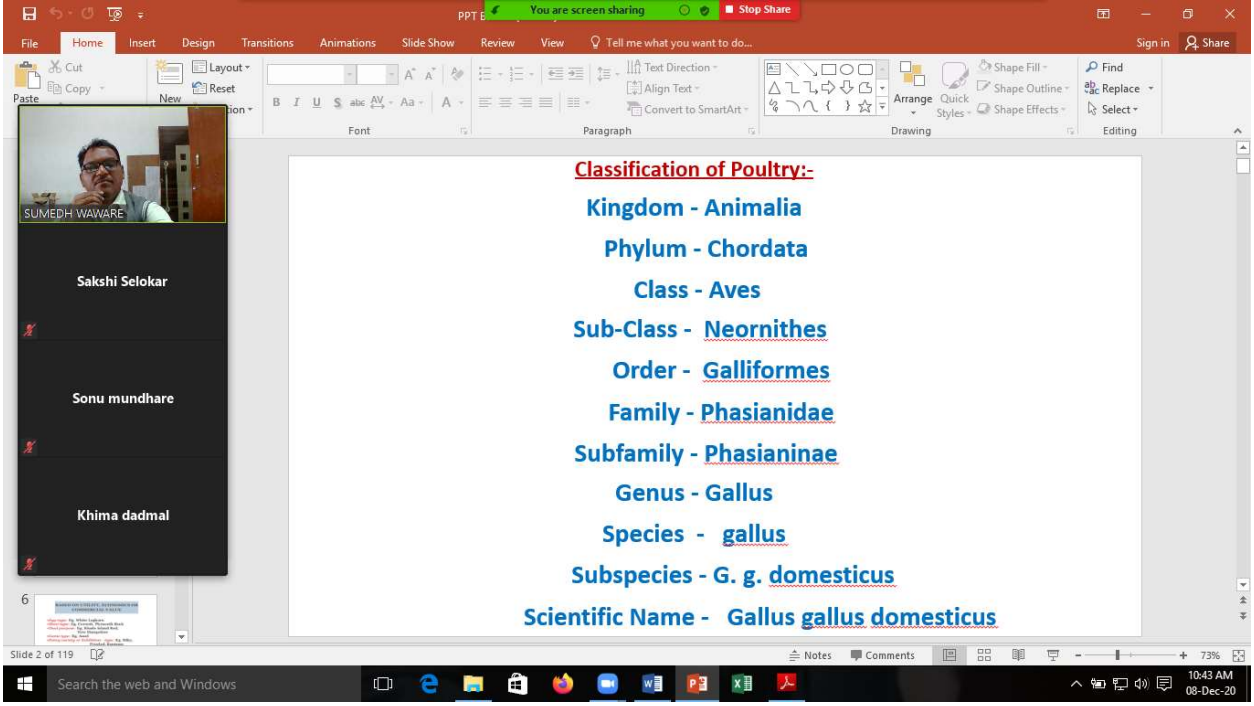
- **ii. Anchor Worm (Lernaea):**
- **Symptoms:-**
- The fish scrapes itself against objects, whitish-green threads hang out of the fish's skin with an inflamed area at the point of attachment. Ahchor worms are actually crustaceans.
- The youngs are free swimming and borrow into the skin, go into the muscles and develop for several months before showing. They release eggs and die. The holes left behind are ugly and may become infected. The anchor worm is too deeply imbedded to safely remove.
- **Treatment:-**
- A 10 to 30 minute bath in 10 mg per litre of potassium permanganate, or treat the whole tank with 2 mg per litre, but this method is messy and dyes the water.





Date:-08/12/2020 Time:-10:15am(Tuesday)1st Period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Classification of Poultry:-
Kingdom - Animalia
Phylum - Chordata
Class - Aves
Sub-Class - Neornithes
Order - Galliformes
Family - Phasianidae
Subfamily - Phasianinae
Genus - Gallus
Species - gallus
Subspecies - G. g. domesticus
Scientific Name - Gallus gallus domesticus
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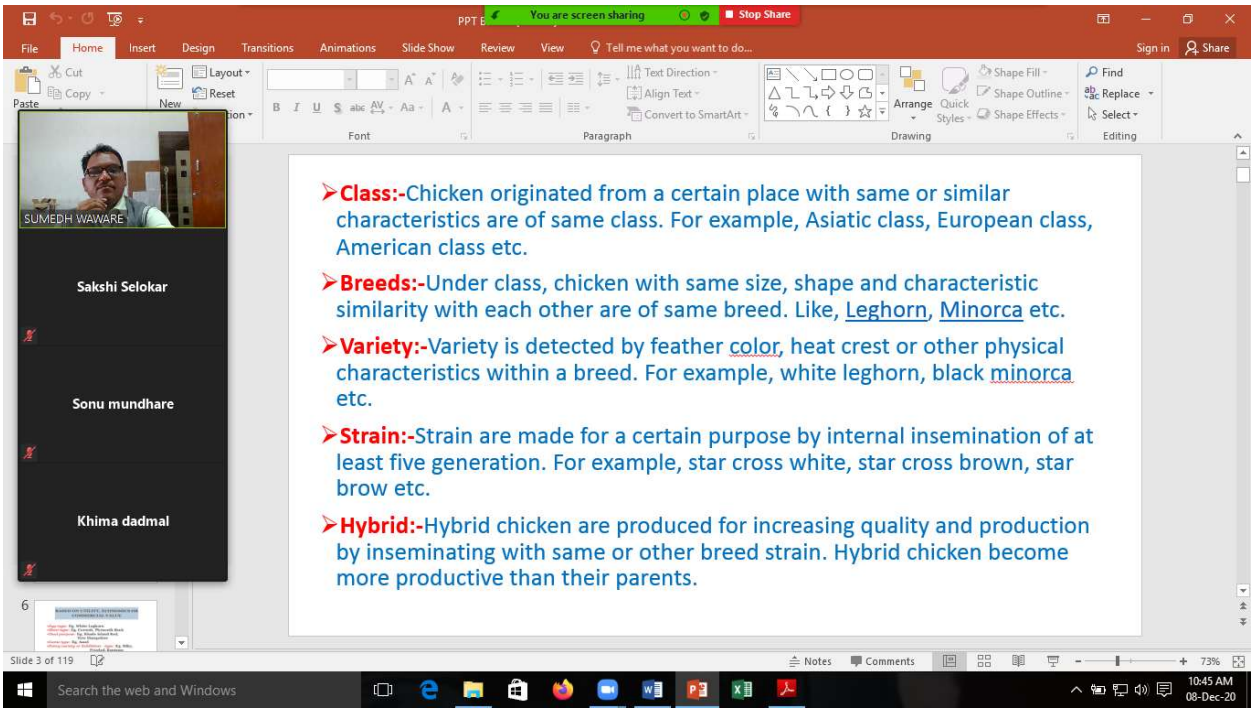
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Class:-Chicken originated from a certain place with same or similar characteristics are of same class. For example, Asiatic class, European class, American class etc.
Breeds:-Under class, chicken with same size, shape and characteristic similarity with each other are of same breed. Like, Leghorn, Minorca etc.
Variety:-Variety is detected by feather color, heat crest or other physical characteristics within a breed. For example, white leghorn, black minorca etc.
Strain:-Strain are made for a certain purpose by internal insemination of at least five generation. For example, star cross white, star cross brown, star brow etc.
Hybrid:-Hybrid chicken are produced for increasing quality and production by inseminating with same or other breed strain. Hybrid chicken become more productive than their parents.
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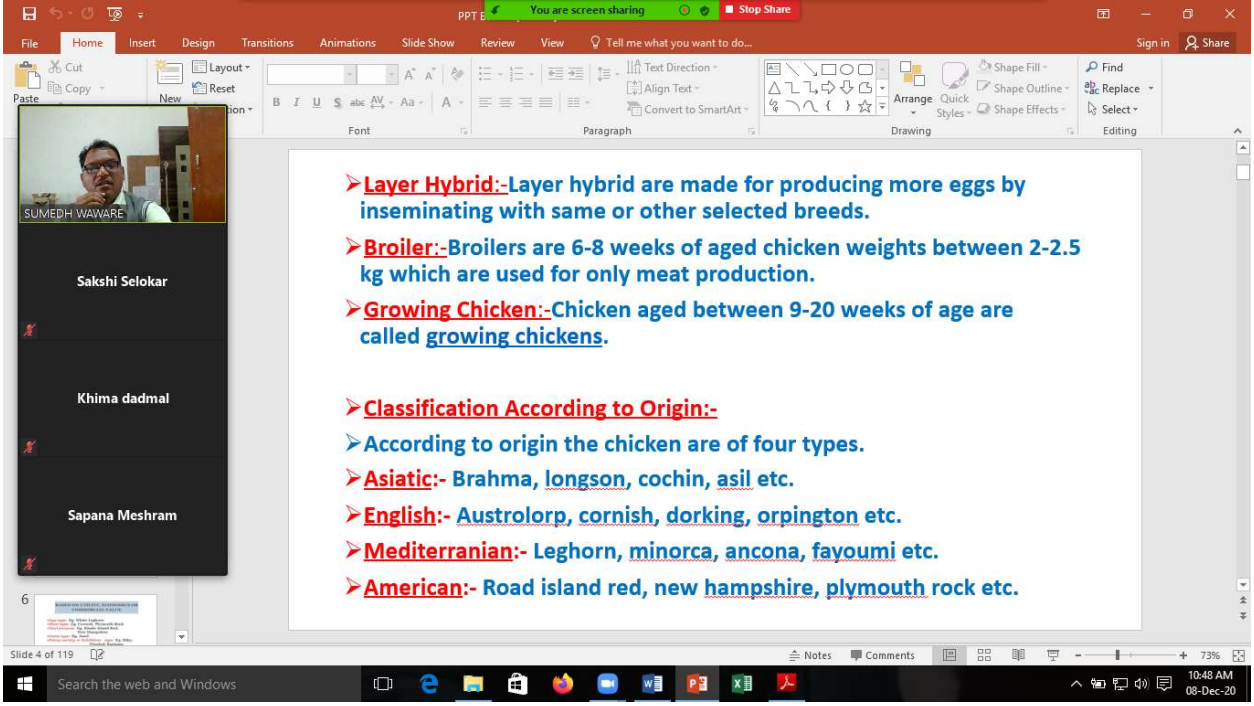
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Sapana Meshram
Layer Hybrid:-Layer hybrid are made for producing more eggs by inseminating with same or other selected breeds.
Broiler:-Broilers are 6-8 weeks of aged chicken weights between 2-2.5 kg which are used for only meat production.
Growing Chicken:-Chicken aged between 9-20 weeks of age are called growing chickens.
Classification According to Origin:-
According to origin the chicken are of four types.
Asiatic:- Brahma, longson, cochin, asil etc.
English:- Austrolorp, cornish, dorking, orpington etc.
Mediterranian:- Leghorn, minorca, ancona, fayoumi etc.
American:- Road island red, new hampshire, plymouth rock etc.
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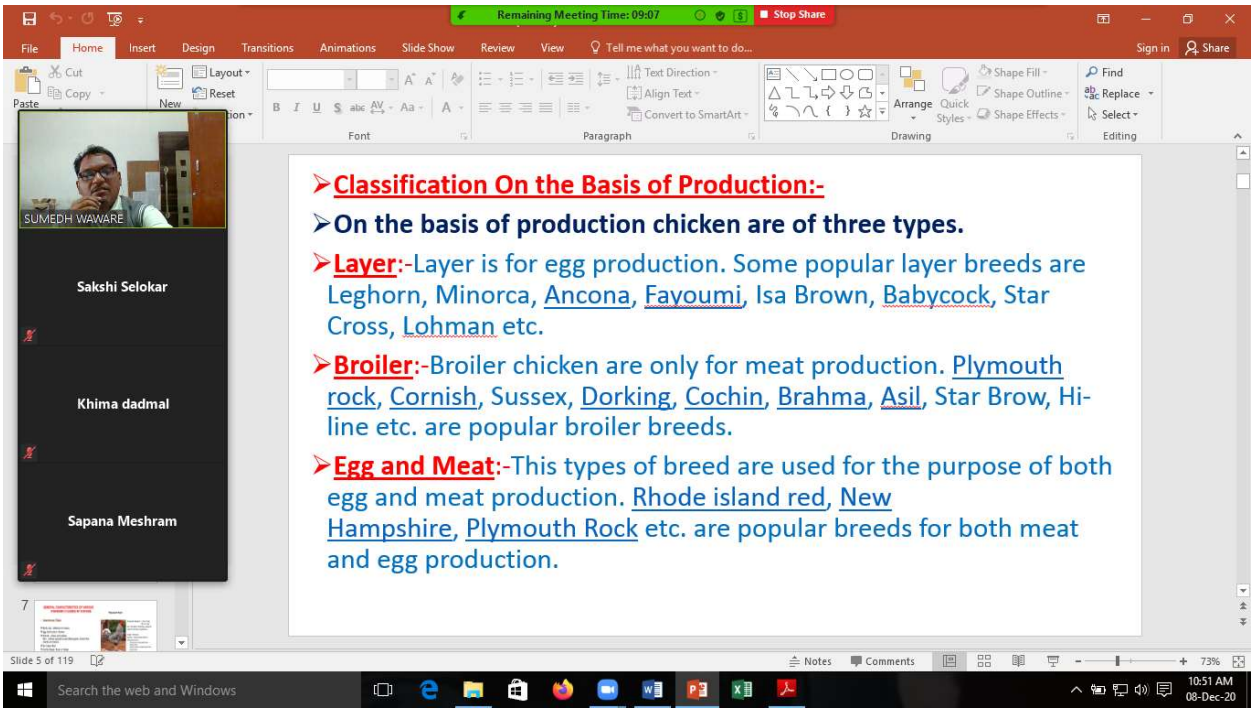
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Sapana Meshram
Classification On the Basis of Production:-
On the basis of production chicken are of three types.
Layer:-Layer is for egg production. Some popular layer breeds are Leghorn, Minorca, Ancona, Fayoumi, Isa Brown, Babycock, Star Cross, Lohman etc.
Broiler:-Broiler chicken are only for meat production. Plymouth rock, Cornish, Sussex, Dorking, Cochin, Brahma, Asil, Star Brow, Hi-line etc. are popular broiler breeds.
Egg and Meat:-This types of breed are used for the purpose of both egg and meat production. Rhode island red, New Hampshire, Plymouth Rock etc. are popular breeds for both meat and egg production.
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BASED ON UTILITY, ECONOMICS OR COMMERCIAL VALUE

- *Egg-type:* Eg. White Leghorn
- *Meat-type:* Eg. Cornish, Plymouth Rock
- *Dual purpose:* Eg. Rhode Island Red, New Hampshire
- *Game type:* Eg. Aseel
- *Fancy variety or Exhibition - type:* Eg. Silky, Frizzled, Bantams
- *Desi type:* Eg. Kadaknath, Naked neck, Chittagong

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Asiatic Class

Brahma

Cochin

- Body size -Heavy
- Egg shell colour-Brown,
- Broody with motherly instinct
- Ear lobes -Red, mostly
- Shank - feathered and yellow
- Skin - Yellow (except Langshan
- Eg: Brahma, Cochin, Langshan

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Ancona

Minorca

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Mediterranean Class

- Body size -Small
- Egg-type, non-broody
- Egg shell color - White
- Ear lobes -White
- Shanks - Clean and yellow/slate coloured
- Skin -Yellow or White
- Eg: Leghorn, Minorca, Ancona, Andalusian

Leghorn

- Weights: cock-2.7kg, hen-2.0kg.
- Egg Shell Color: White.
- Varities-16
- Use: An egg-type chicken, excellent laying.
- E.P-300 eggs/year
- Origin: city of Leghorn, Italy.
- Characteristics: A small, compact and light body, active.
- Small head with well set comb
- Neatest of all birds

Slide 9 of 119 Notes Comments 73%

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Sapana Meshram

Rhode Island Red

- Standard Weights: Cock-3.8kg
  Hen-2.9 Kg
- Varieties: Single Comb, and Rose Comb
- Egg Shell Color: Brown
- Use: Egg production.
- Origin: Massachusetts and Rhode Island.
- Characteristics:

Long rectangular body, golden brown plumage
- Relatively hardy.
- The best egg layers of the dual purpose breeds.
- handle marginal diets and poor housing conditions.

New Hampshire

- Standard Weights: Cock-3.8kg
  Hen-2.9 Kg
- Use: broiler production, large egg size, early maturity.
- Origin: Massachusetts and New Hampshire (developed from RIR).
- Characteristics:
  - They possess a deep, broad body, grow feathers rapidly.
  - Single comb
  - The color is chestnut red .
  - Brown-eggs

Slide 8 of 119 Notes Comments 73%

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Alisha sorde

GENERAL CHARACTERISTICS OF VARIOUS STANDARD CLASSES OF CHICKEN

- **American Class**

❖Body size - Medium to heavy
❖Egg shell colour -Brown
❖Shanks - Clean and yellow
Skin - yellow (except Jersey Black giant, where the shanks are black)
❖Ear lobes-Red
❖Comb Shape- Rose or Single
❖Eg. Plymouth rock, Wyandotte, Rhode Island Red, Jersey Black giant, New Hampshire

Plymouth Rock

Standard Weights: Cock-4.5kg
Hen-3.5 Kg
Use: Excellent fleshing property used for broiler production.

Origin: America
Variety- 7 (Barred & White)
Characteristics:
They possess long deep body .
Single comb
Grayish-white plumage-black bars.
Auto sexing
Brown-eggs

Slide 7 of 119 Notes Comments 73%

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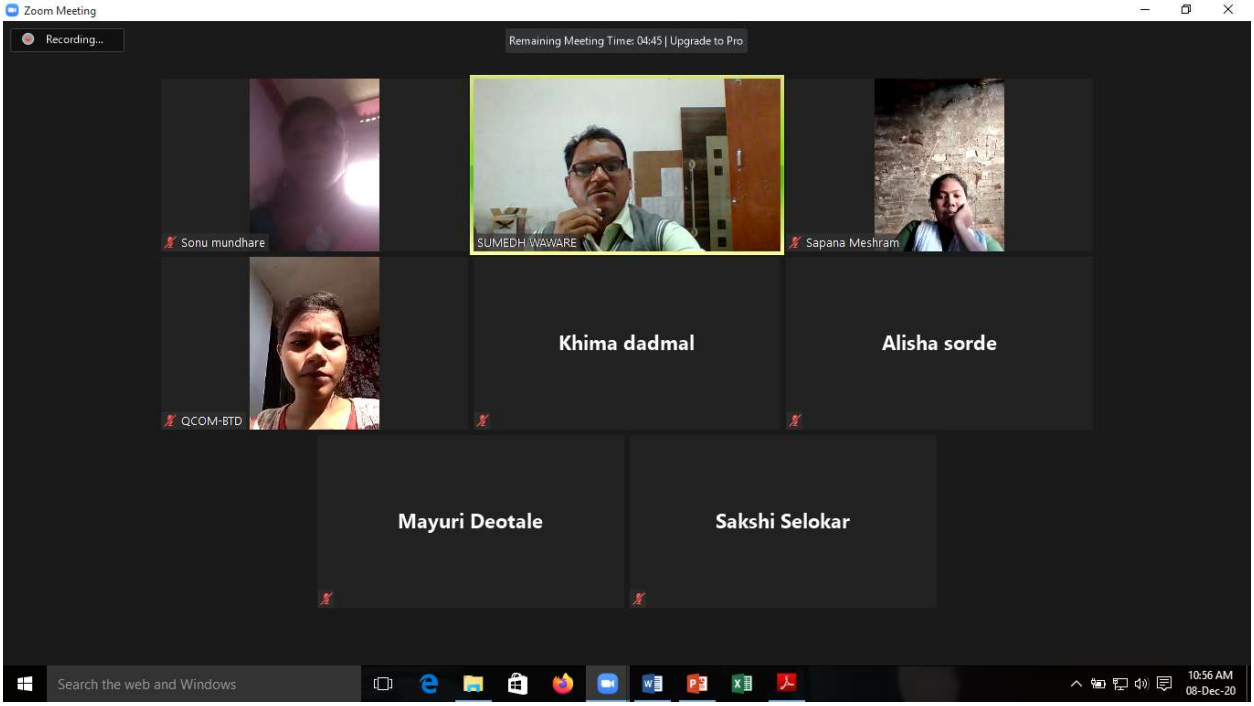
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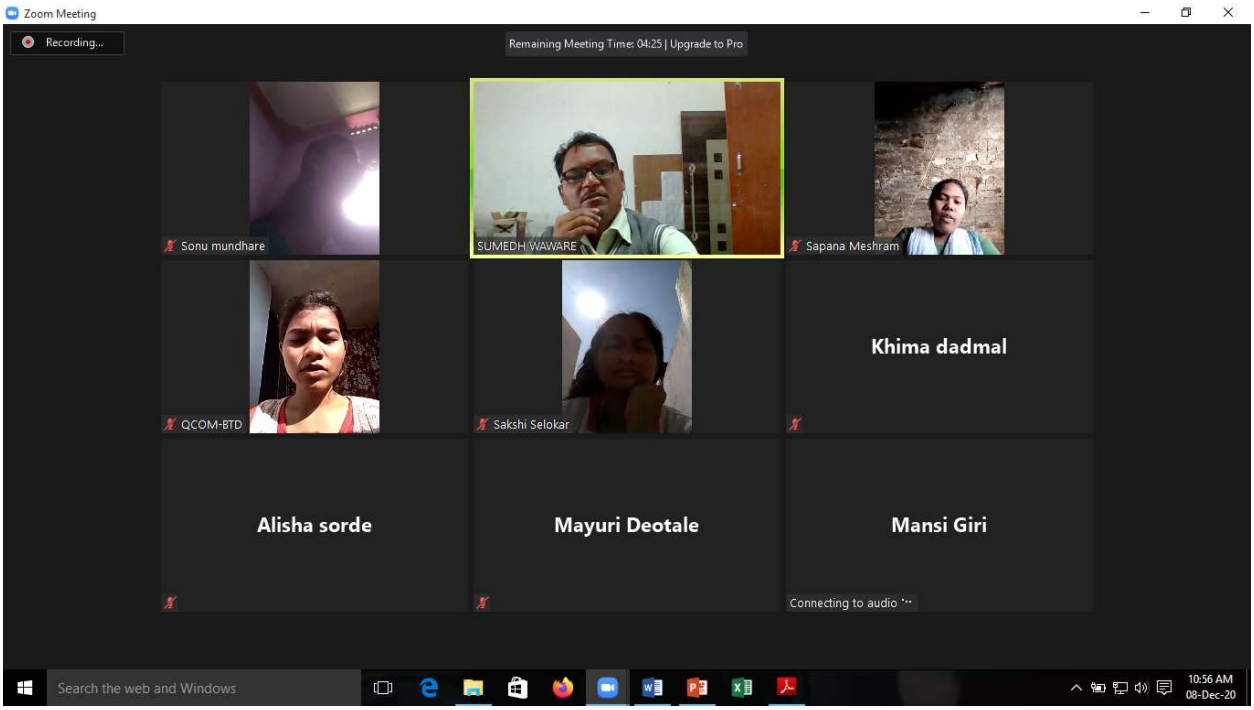
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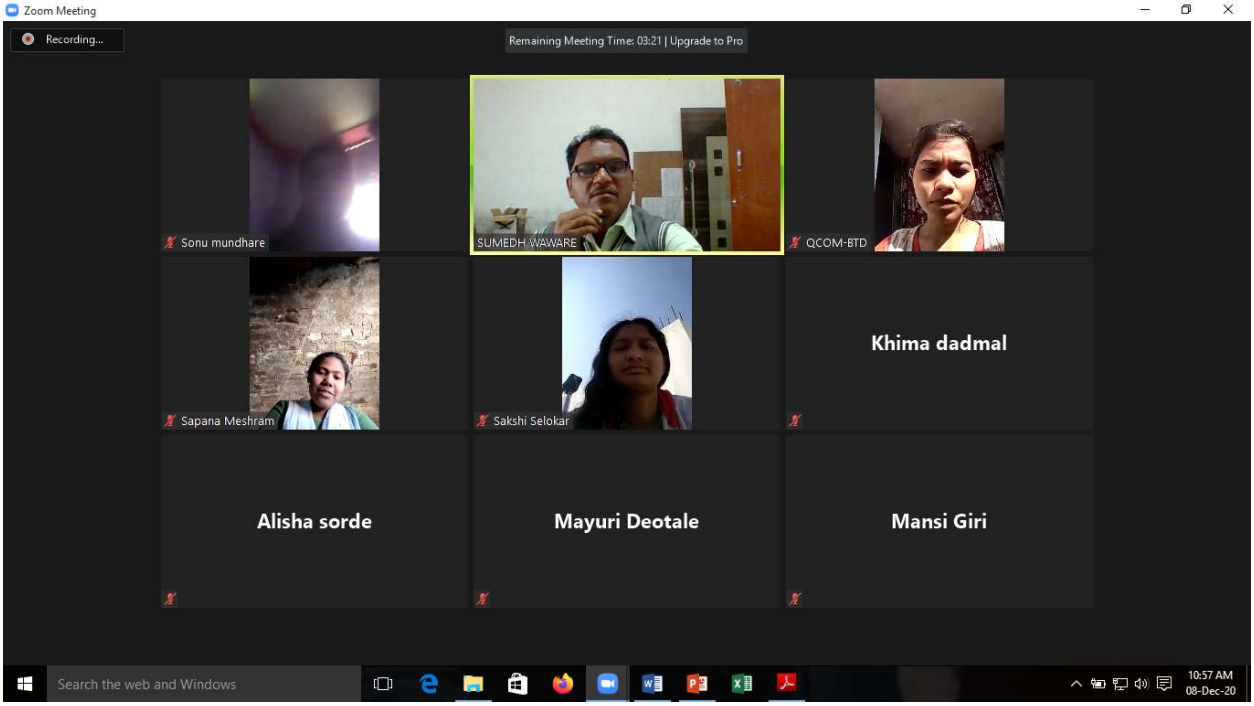
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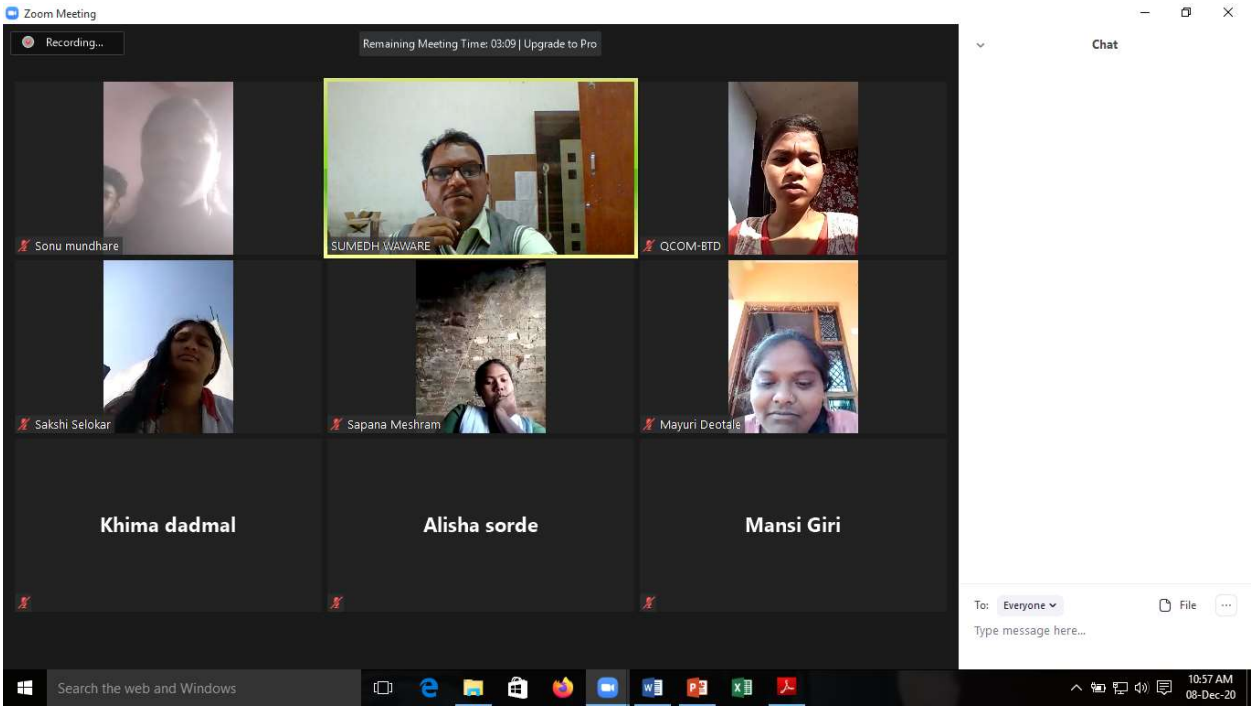
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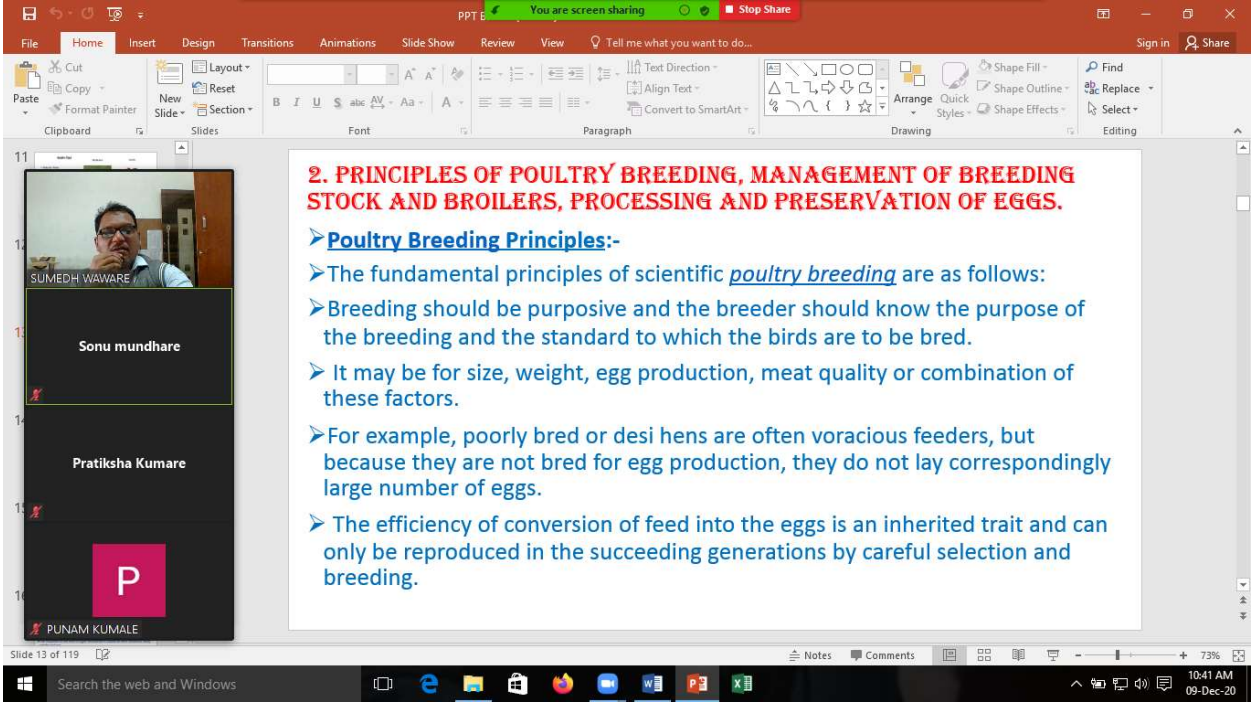

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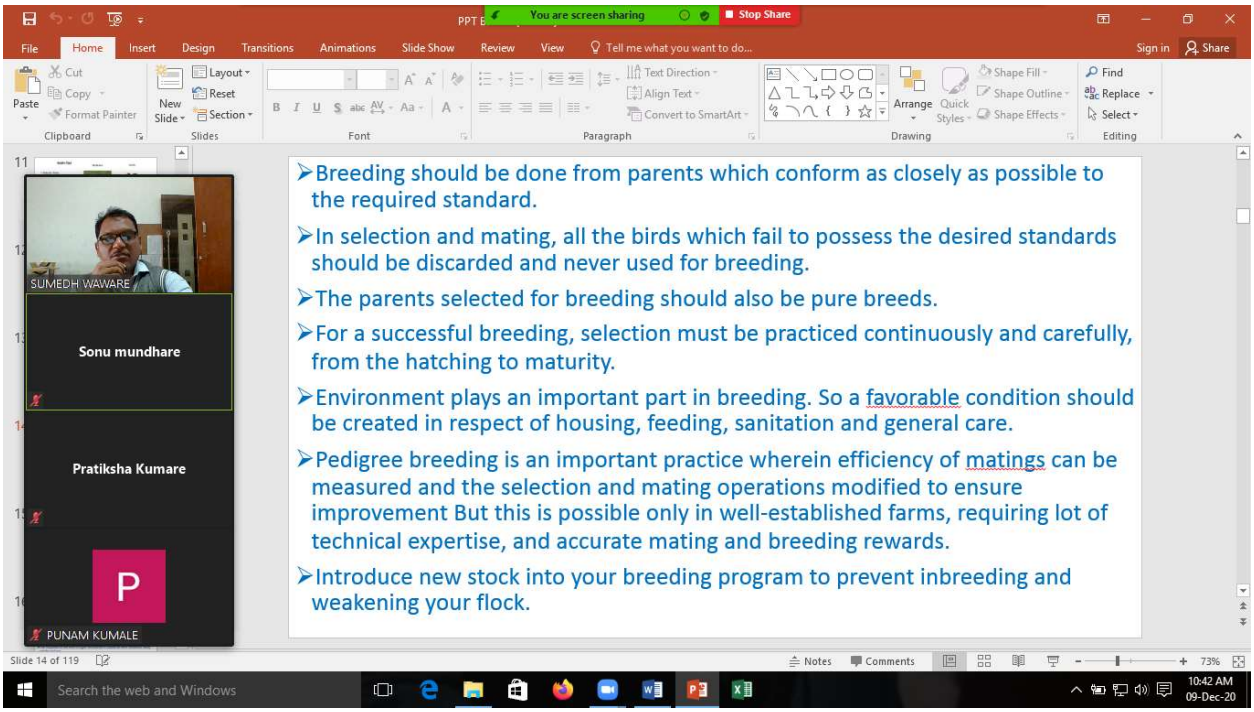

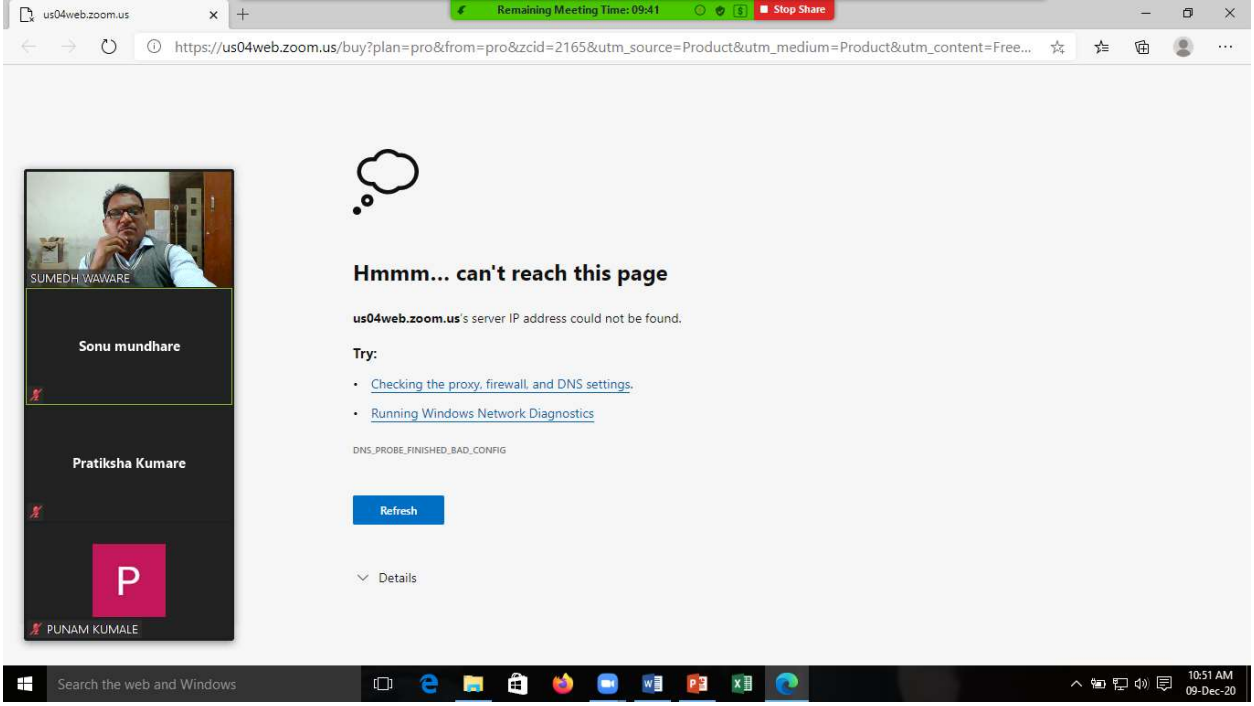
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Pratiksha Kumare
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PUNAM KUMALE
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us04web.zoom.us's server IP address could not be found.
Try:
Checking the proxy, firewall, and DNS settings.
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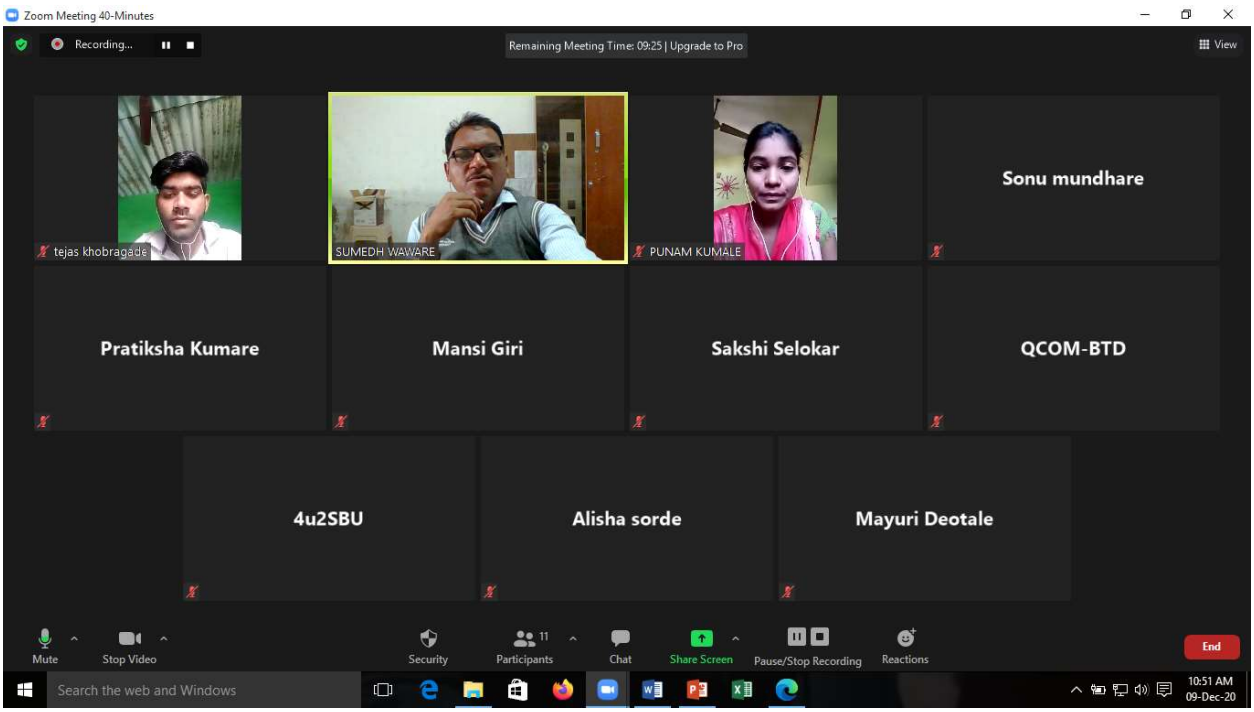
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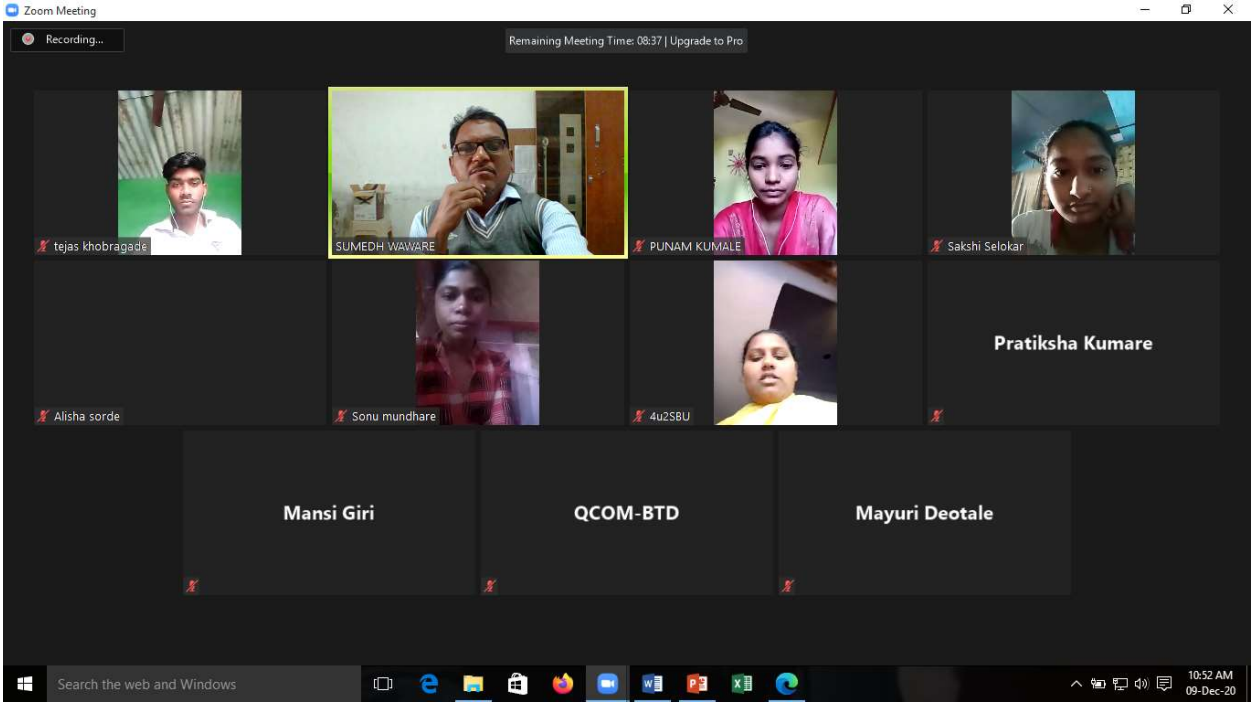
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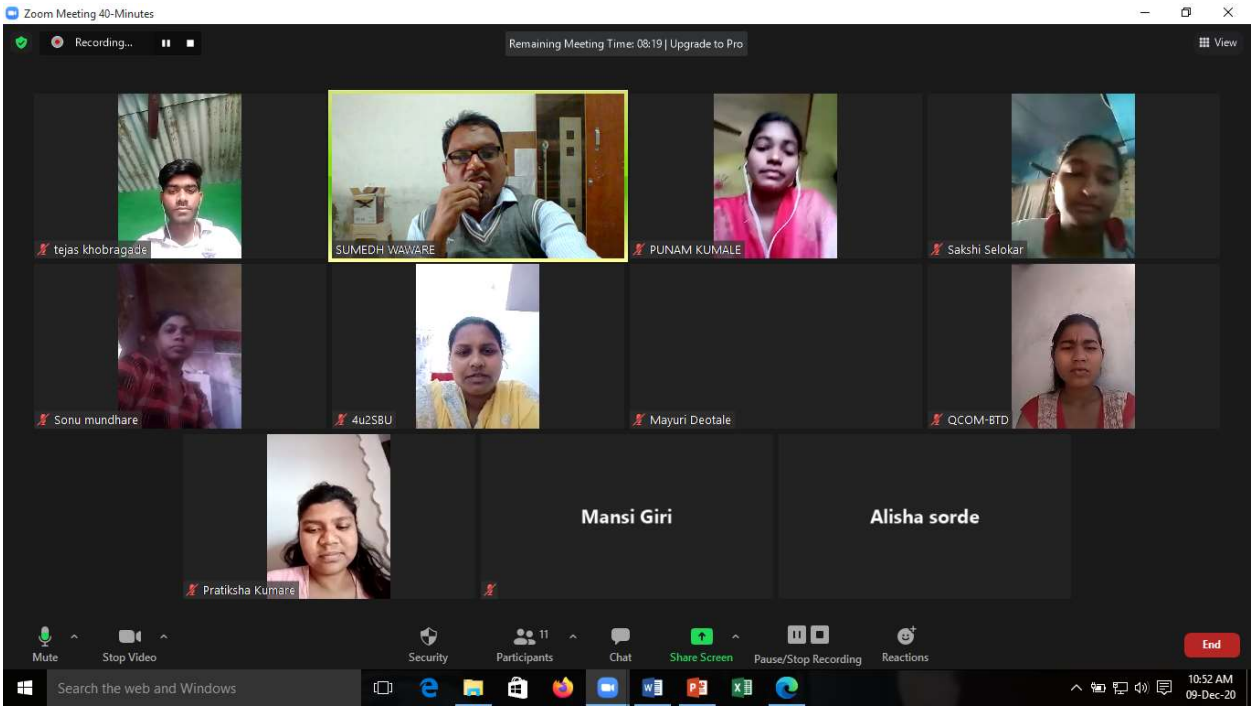
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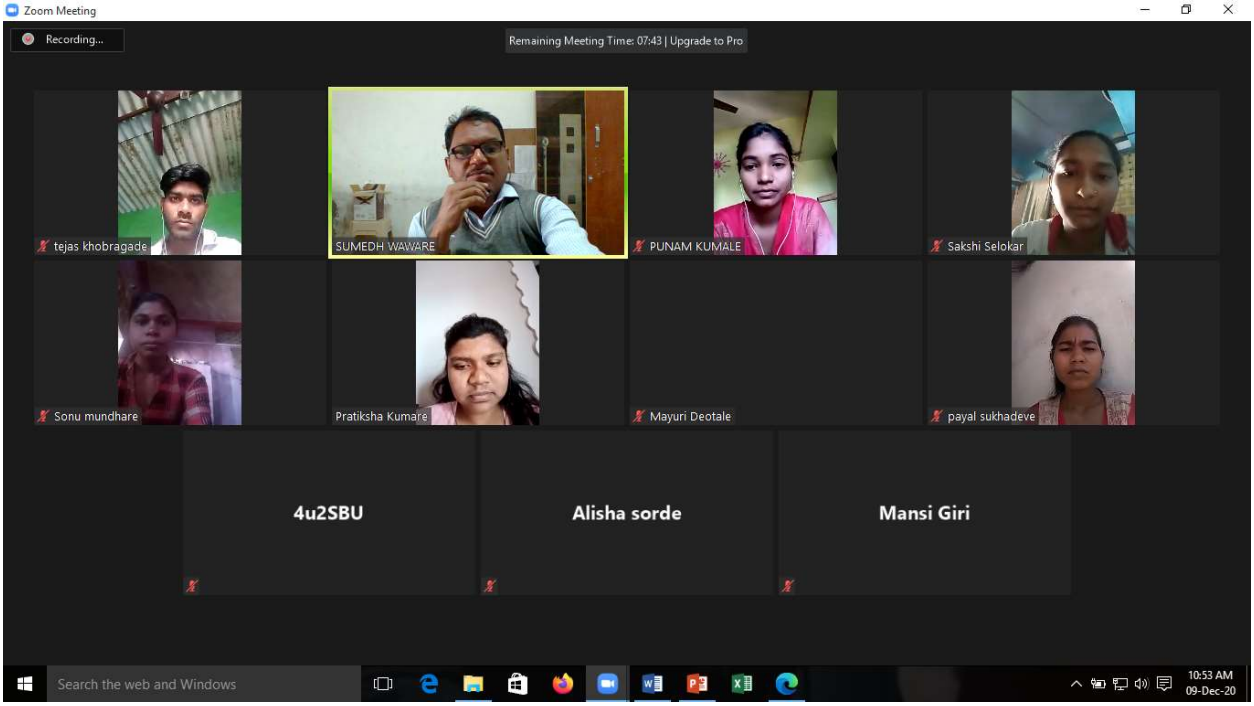
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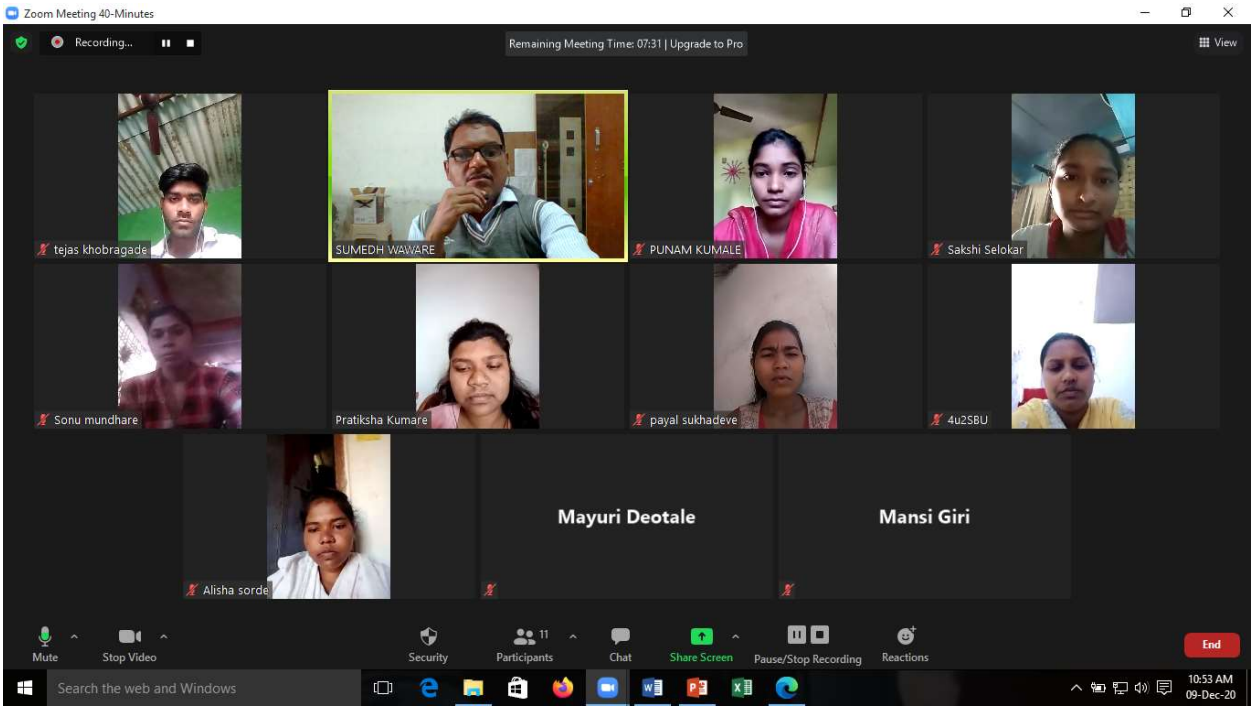
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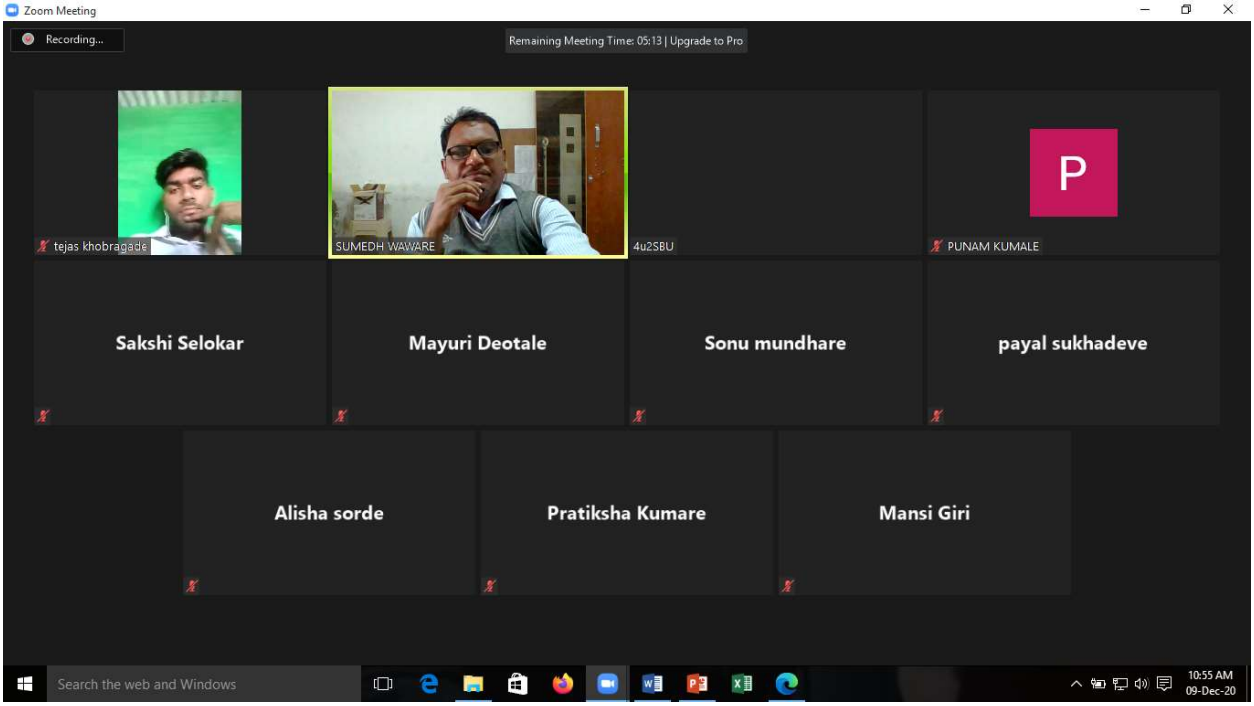
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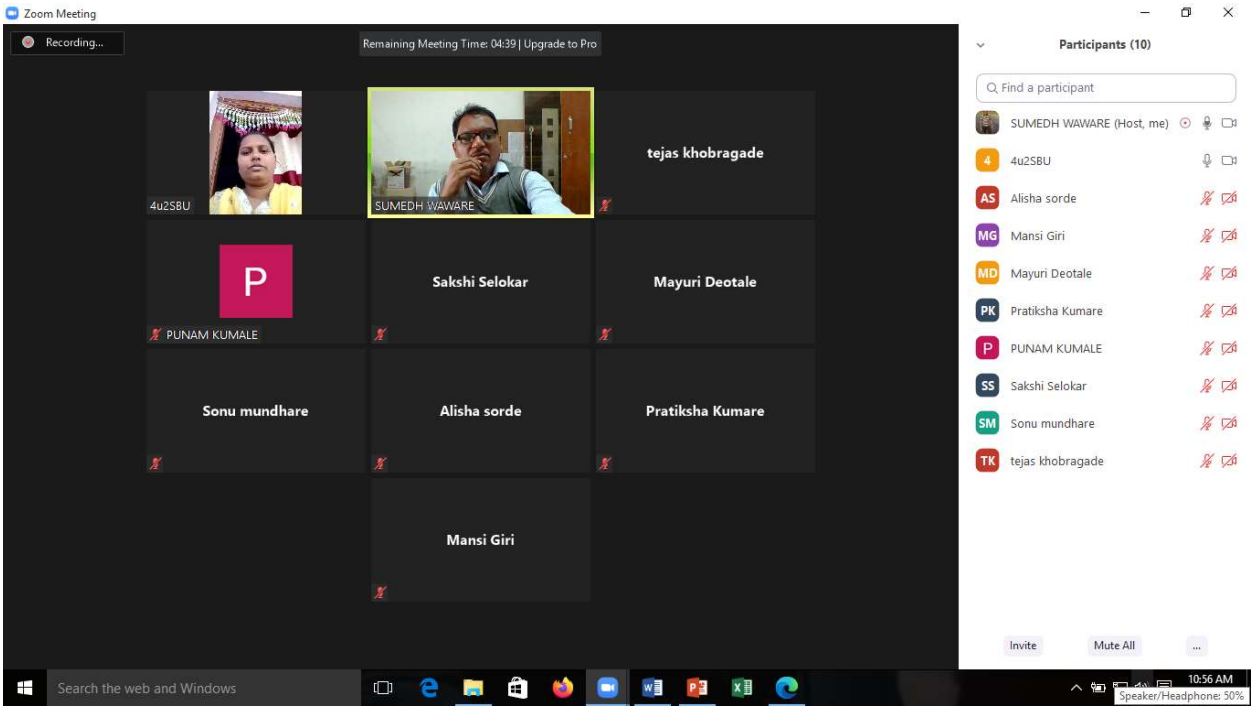
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Mayuri Deotale
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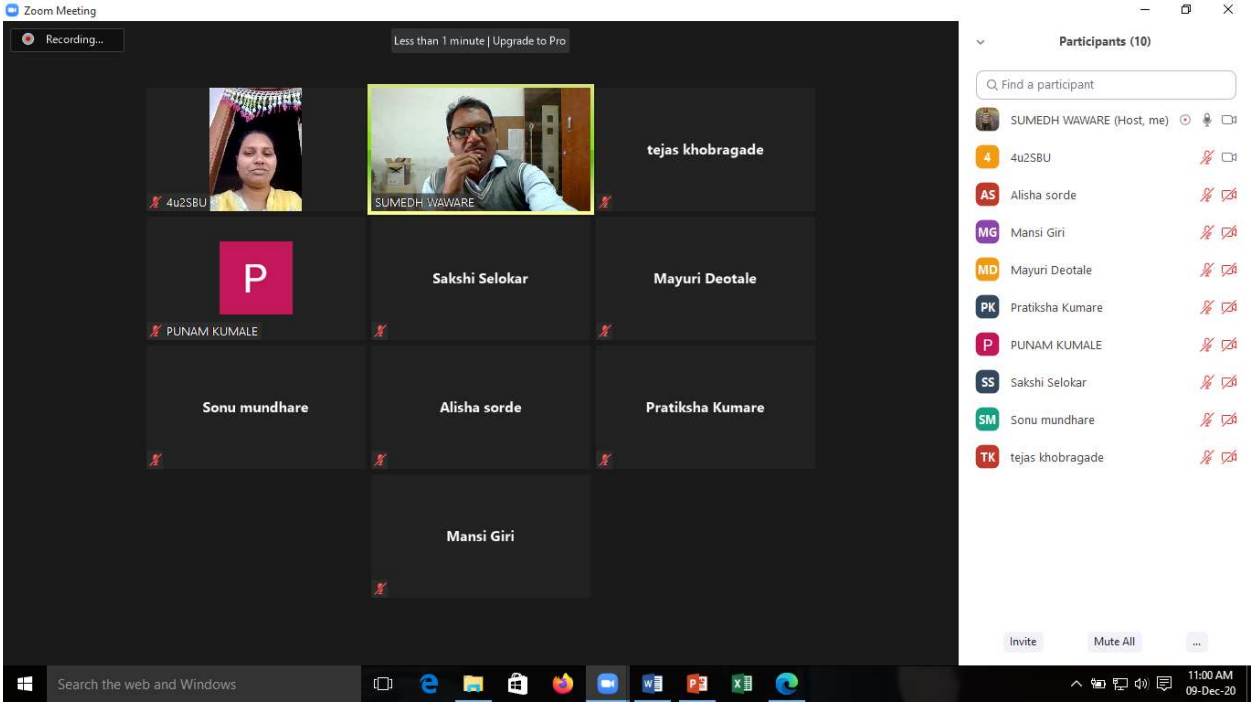

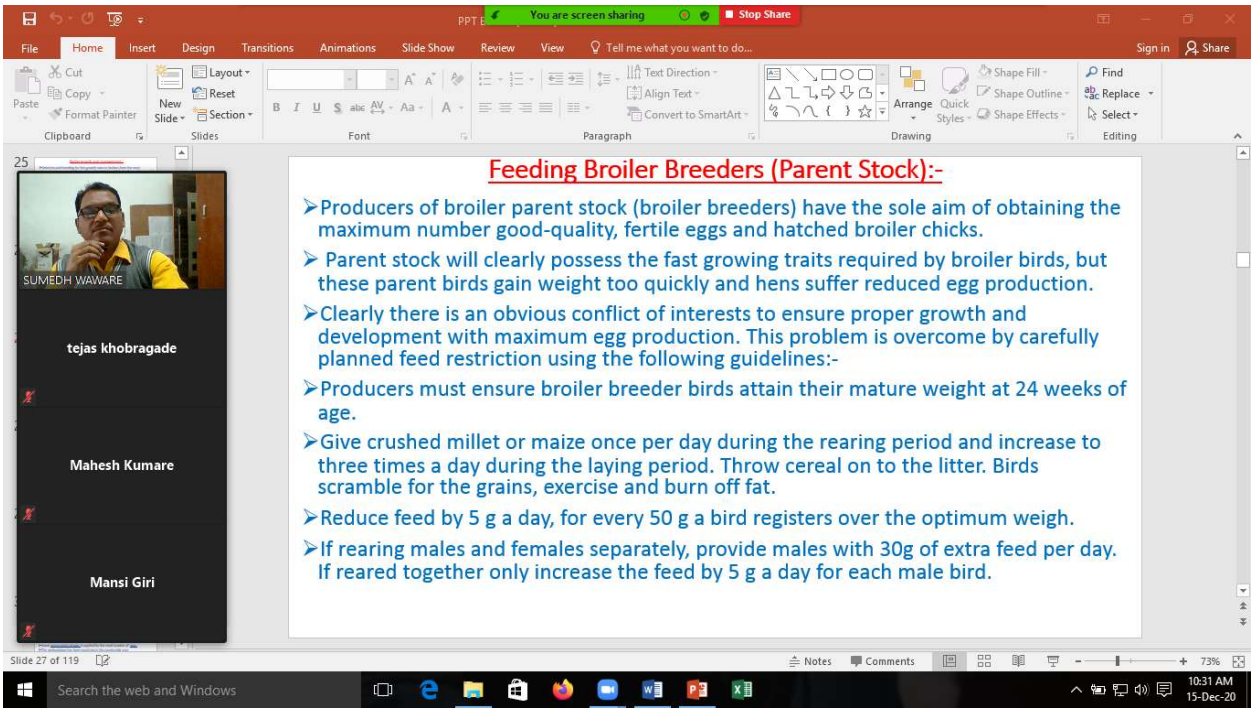

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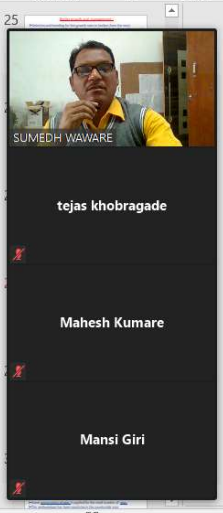


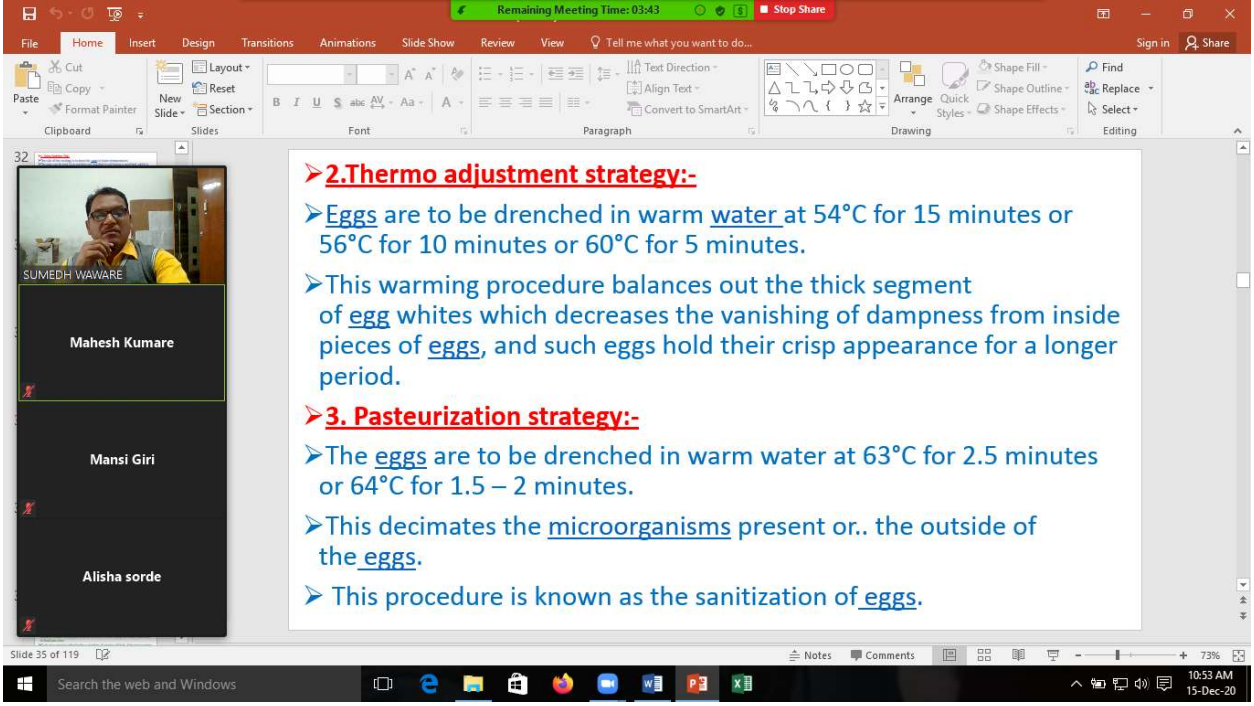
Broiler Breeder Management:-

- Broiler breeder production employs a system much like that used to rear laying bird chicks.
- Use the same vaccination programme plus administration of an avian encephalomyelitis vaccine in the drinking water when birds are 18 weeks old.
- Cull low-quality chicks (usually 3-5 per cent) at 6 weeks and use the same pattern of lighting offered to layer birds.
- Immature broiler breeder birds eat excessively to satisfy their inherent (custom-bred) fast growth rates.
- As a result they grow too fast and become grossly overweight.
- Compensatory feed restriction techniques, including reduction in daily ration, low protein, high-fibre diet; miss a day feeding, restricting time access to feed and low lysine levels, are required to alleviate the problem.

26

PROCESSING AND PRESERVATION OF EGGS:-

- **PRESERVATION OF EGGS:-**
- The Objective of the **preservation of eggs** to know the various strategies for safeguarding eggs. It is for improving keeping nature of this transitory nourishment thing. The best way to the preservation of eggs is elucidated below:-
- **Methodology:-**
- There are different methodologies for the preservation of eggs, and in like manner the prerequisites are unique. So necessities are referenced while explaining the singular technique.
- **(A) HOME Conservation:-**
- Hoem preservation of eggs is applied for the small number of eggs.
- This methodology has been practicing in the countryside area.
- Basically, people who live in the village has been domesticated small number of chicken, duck, pigeon and producing few numbers of eggs.
- There are some home preservation of eggs methods are-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Mansi Giri
Alisha sorde
➢2.Thermo adjustment strategy:-
➢Eggs are to be drenched in warm water at 54°C for 15 minutes or 56°C for 10 minutes or 60°C for 5 minutes.
➢This warming procedure balances out the thick segment of egg whites which decreases the vanishing of dampness from inside pieces of eggs, and such eggs hold their crisp appearance for a longer period.
➢3. Pasteurization strategy:-
➢The eggs are to be drenched in warm water at 63°C for 2.5 minutes or 64°C for 1.5 – 2 minutes.
➢This decimates the microorganisms present or.. the outside of the eggs.
➢ This procedure is known as the sanitization of eggs.
Slide 35 of 119
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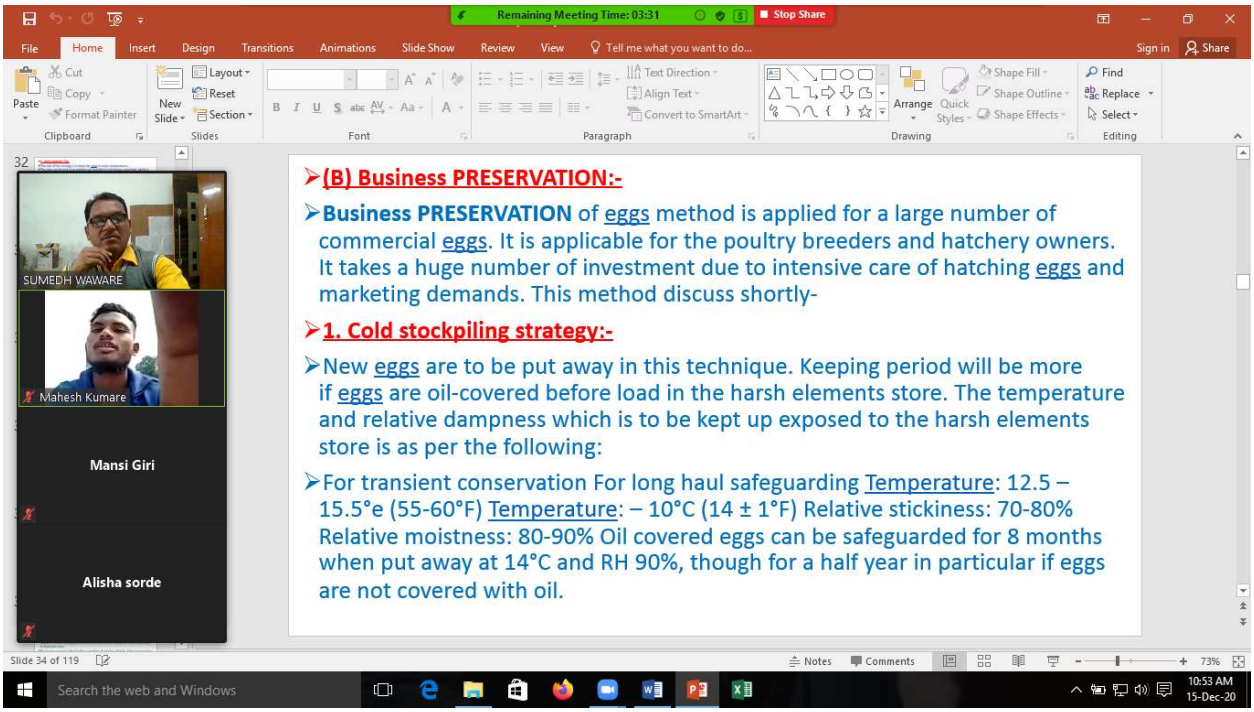
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Alisha sorde
➢(B) Business PRESERVATION:-
➢Business PRESERVATION of eggs method is applied for a large number of commercial eggs. It is applicable for the poultry breeders and hatchery owners. It takes a huge number of investment due to intensive care of hatching eggs and marketing demands. This method discuss shortly-
➢1. Cold stockpiling strategy:-
➢New eggs are to be put away in this technique. Keeping period will be more if eggs are oil-covered before load in the harsh elements store. The temperature and relative dampness which is to be kept up exposed to the harsh elements store is as per the following:
➢For transient conservation For long haul safeguarding Temperature: 12.5 – 15.5°e (55-60°F) Temperature: – 10°C (14 ± 1°F) Relative stickiness: 70-80% Relative moistness: 80-90% Oil covered eggs can be safeguarded for 8 months when put away at 14°C and RH 90%, though for a half year in particular if eggs are not covered with oil.
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SUMEDH WAWARE

4u2SBU

Mahesh Jadhav

Sakshi Selokar

False Mount

False mounting to arouse bull

An erect penis indicates arousal

Collector ready with AV

Collector diverting penis to the AV

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4u2SBU

Mahesh Jadhav

Sakshi Selokar

By dummy

Electro ejaculation method

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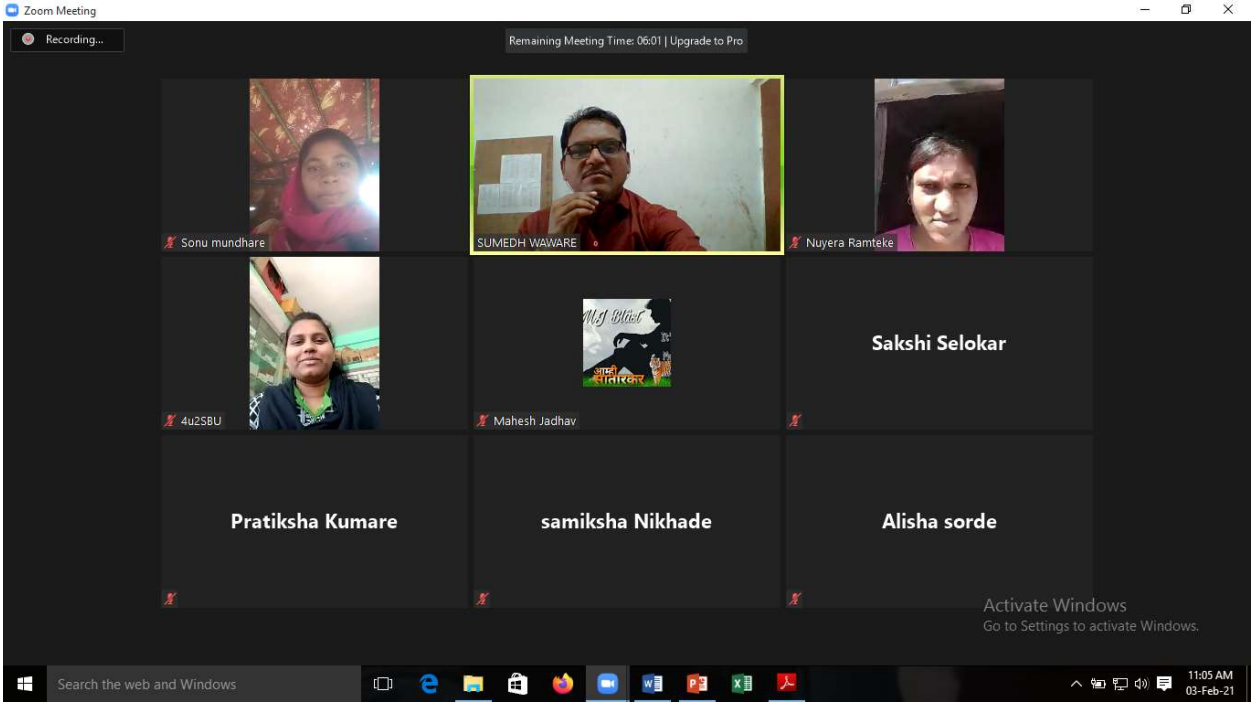
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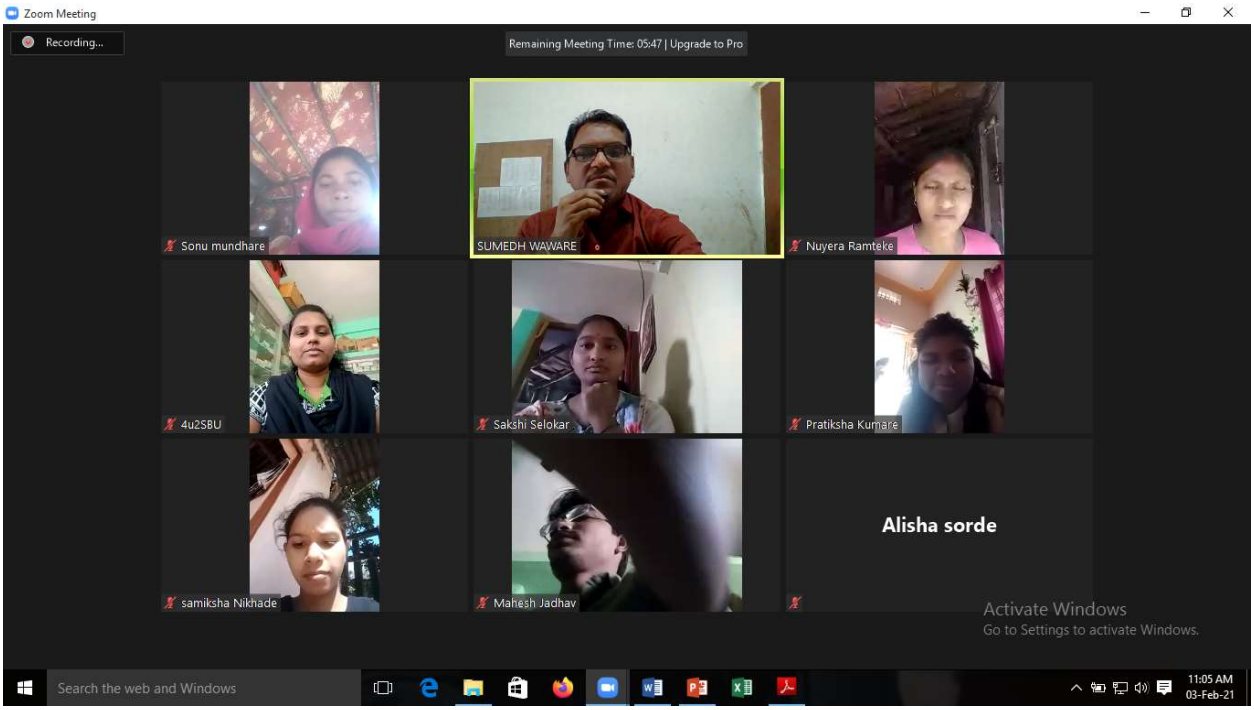
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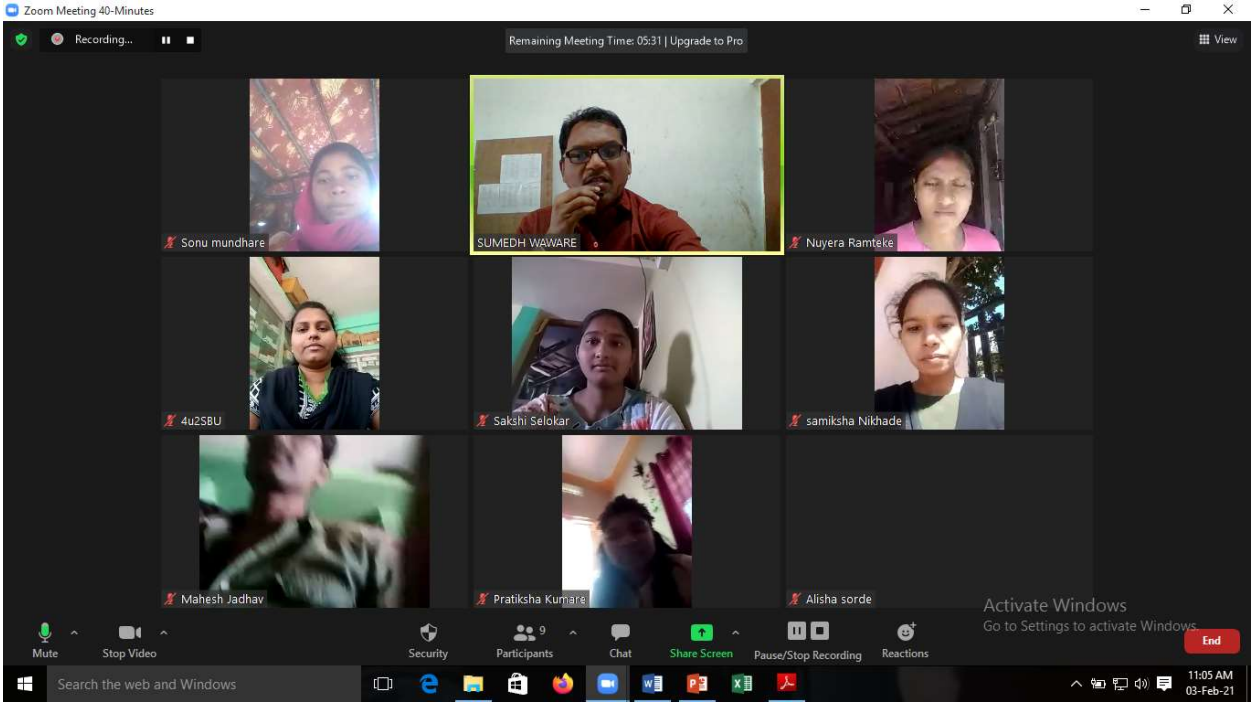
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Pratiksha Kumare
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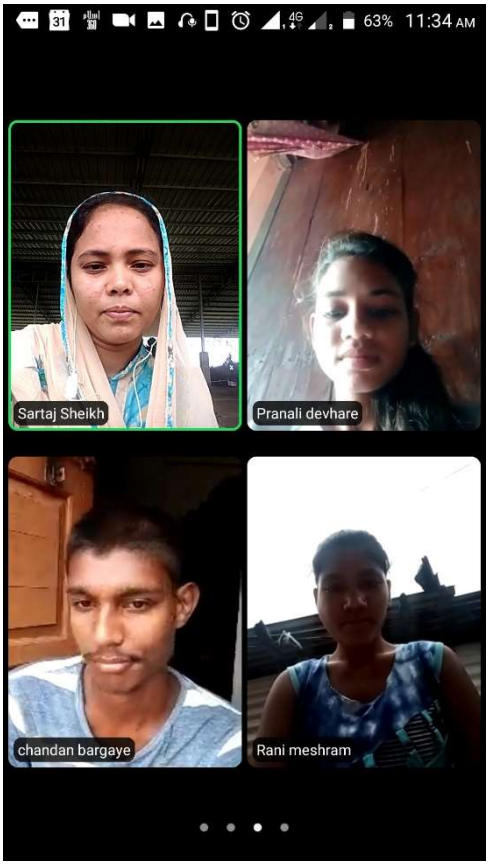
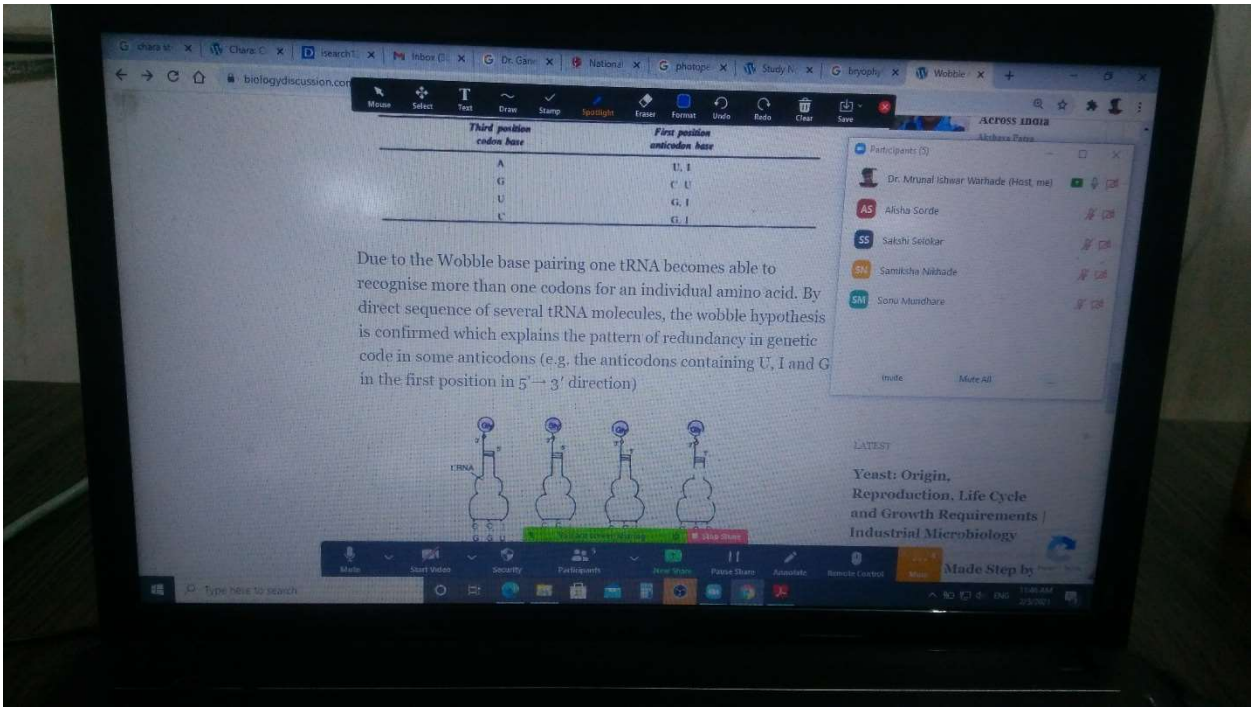
Department of Botany

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Third position codon base
First position anticodon base
A
U, I
G
C, U
U
G, I
C
G, I
Due to the Wobble base pairing one tRNA becomes able to recognise more than one codons for an individual amino acid. By direct sequence of several tRNA molecules, the wobble hypothesis is confirmed which explains the pattern of redundancy in genetic code in some anticodons (e.g. the anticodons containing U, I and G in the first position in 5′→3′ direction)
tRNA
Participants (5)
Dr. Mrunal Ishwar Warhade (Host, me)
Alisha Sorde
Sakshi Selokar
Samiksha Nikhade
Sonu Murdhare
Invite
Mute All
LATEST
Yeast: Origin, Reproduction, Life Cycle and Growth Requirements | Industrial Microbiology
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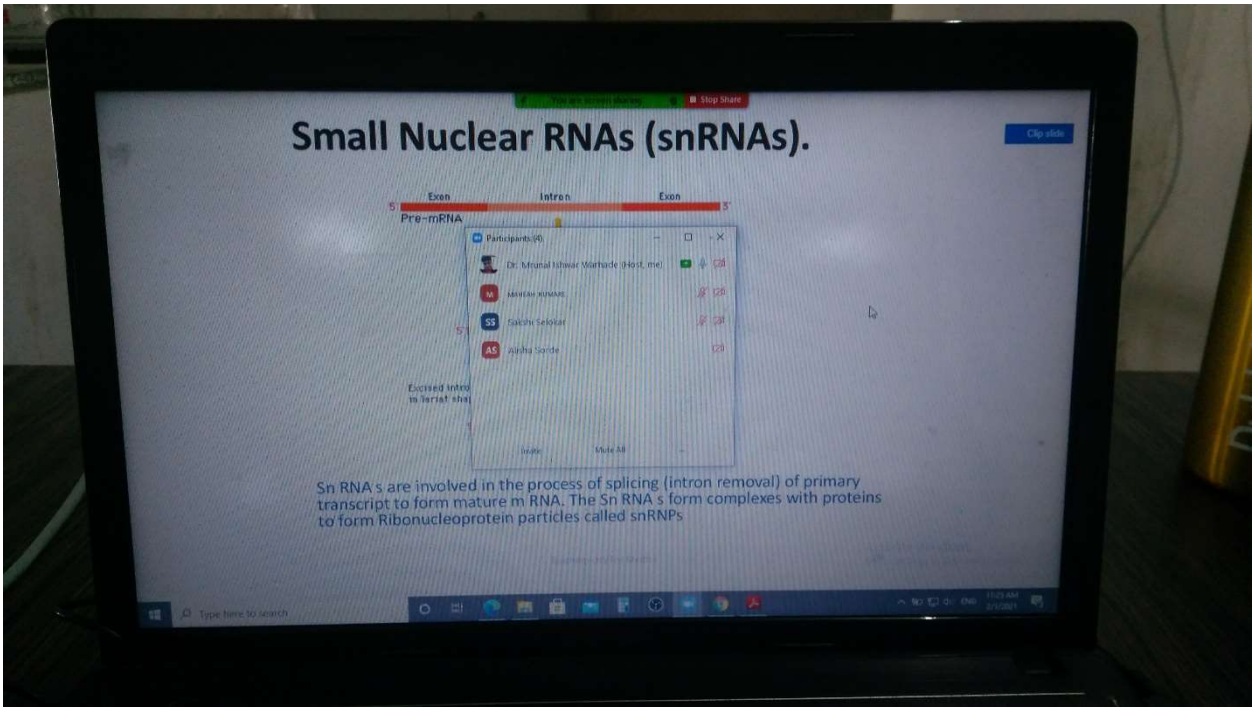
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Exon
5′
3′
Pre-mRNA
Participants (4)
Dr. Mrunal Ishwar Warhade (Host, me)
MAHESH KUMARE
Sakshi Selokar
Alisha Sorde
Invite
Mute All
Sn RNA s are involved in the process of splicing (intron removal) of primary transcript to form mature m RNA. The Sn RNA s form complexes with proteins to form Ribonucleoprotein particles called snRNPs
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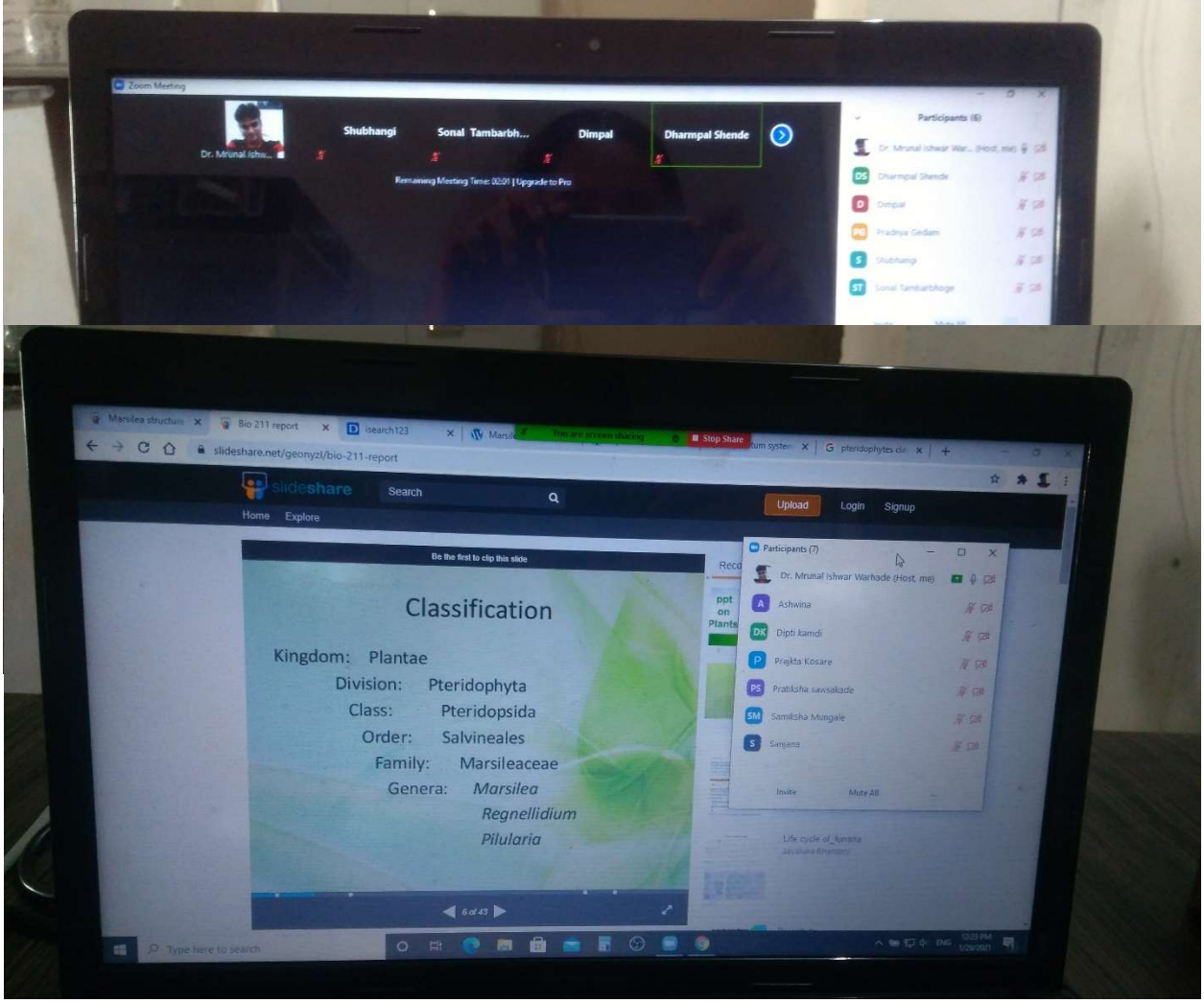
Zoom Meeting
Dr. Mrunal Ishw...
Shubhangi
Sonal Tambarbh...
Dimpal
Dharmpal Shende
Remaining Meeting Time: 02:01 | Upgrade to Pro
Participants (6)
Dr. Mrunal Ishwar War... (Host, me)
Dharmpal Shende
Dimpal
Pradnya Gedam
Shubhangi
Sonal Tambarbhoge

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Classification
Kingdom: Plantae
Division: Pteridophyta
Class: Pteridopsida
Order: Salvineales
Family: Marsileaceae
Genera: Marsilea
Regnellidium
Pilularia
6 of 43
Participants (7)
Dr. Mrunal Ishwar Warhade (Host, me)
Ashwina
Dipti kamdi
Prajkta Kosare
Pratiksha sawsakade
Samiksha Mungale
Sanjana
Invite
Mute All
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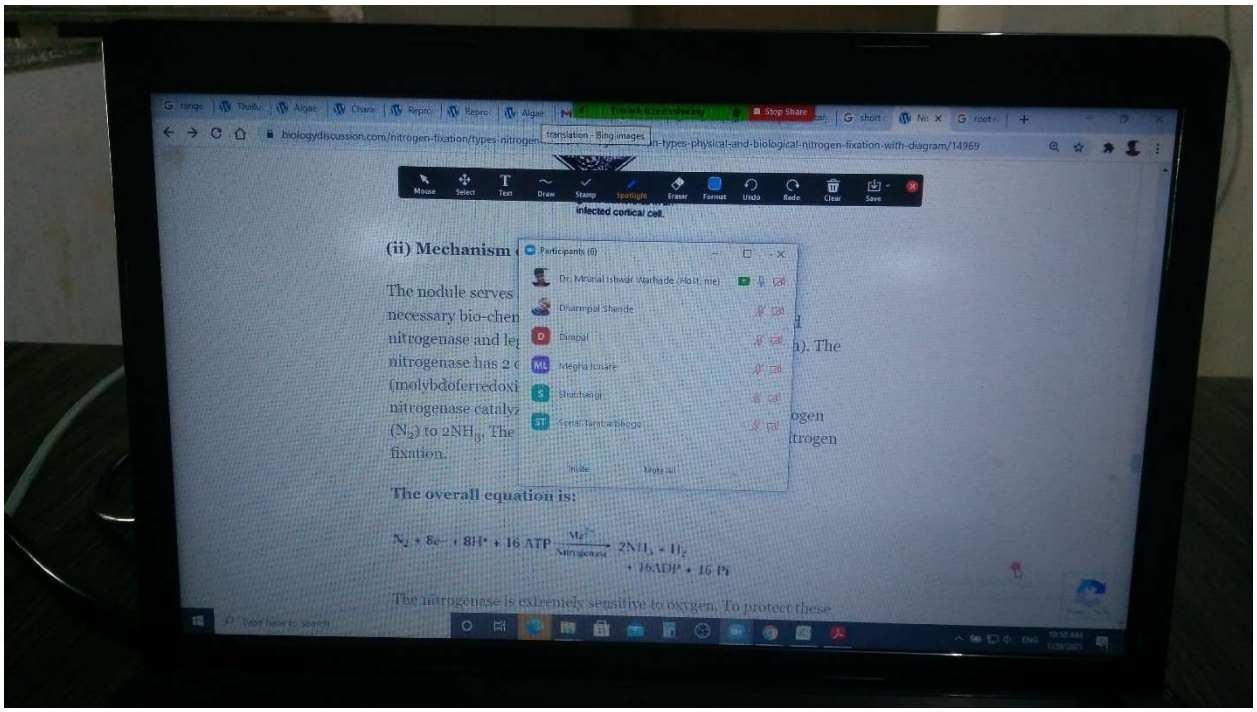
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Redo
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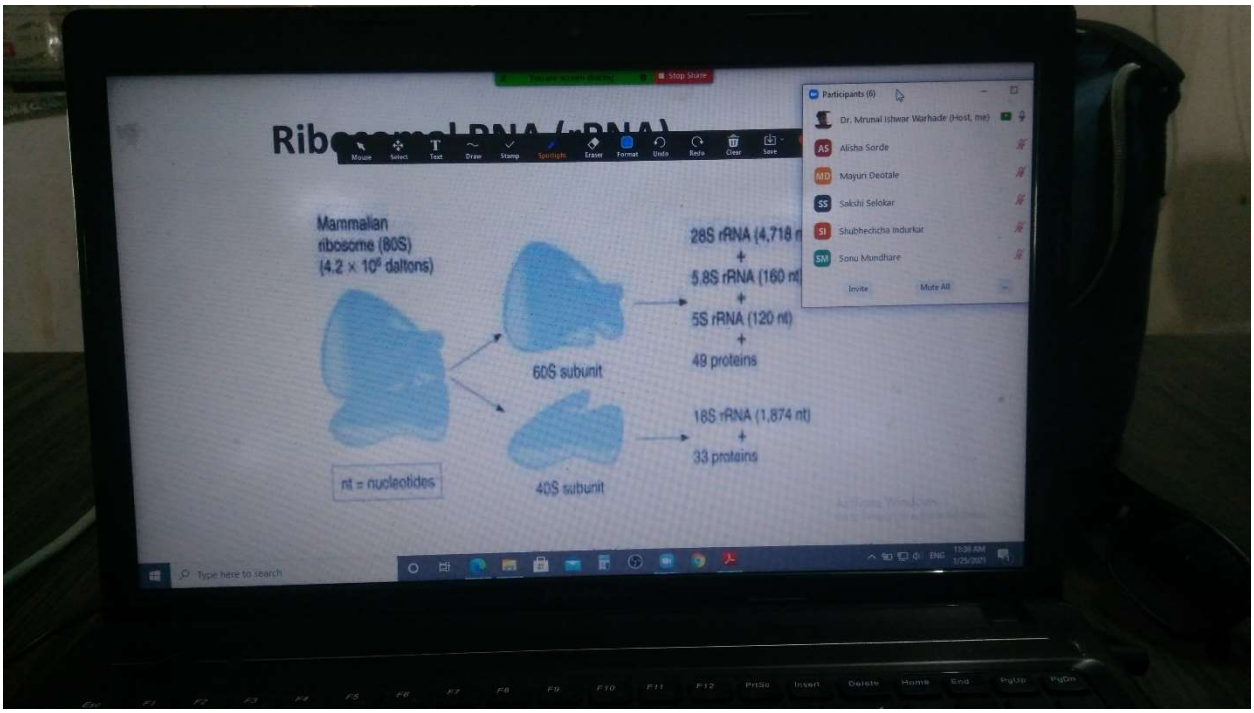
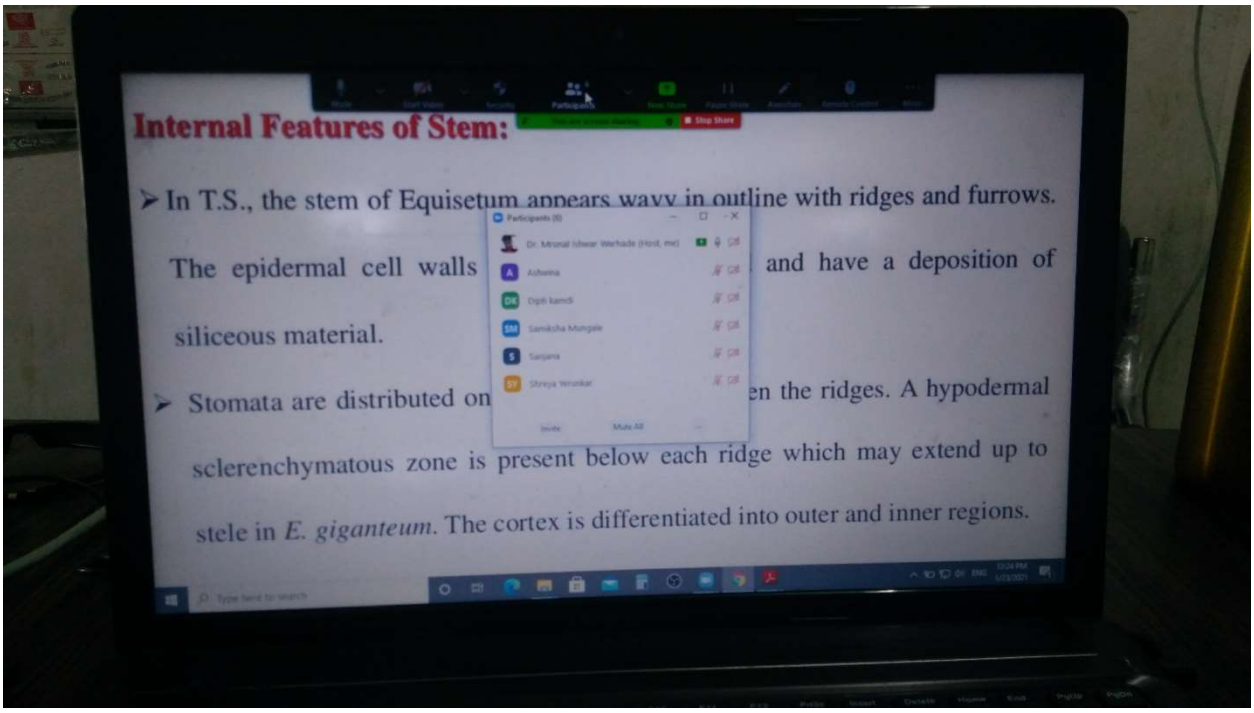
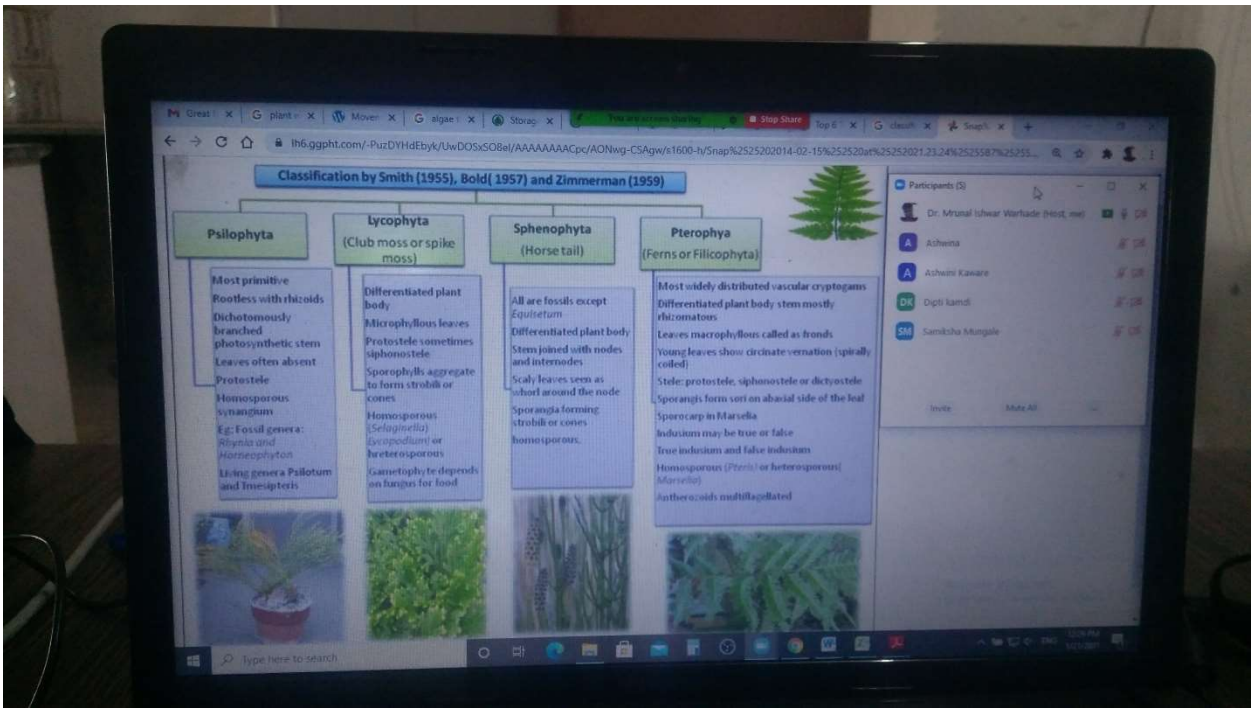
infected cortical cell.
(ii) Mechanism
The nodule serves
necessary bio-chen
nitrogenase and le
nitrogenase has 2
(molybdoferredoxi
nitrogenase catalyz
(N_2) to $2NH_3$. The
fixation.
The overall equation is:
$N_2 + 8e^- + 8H^+ + 16\ ATP \xrightarrow{Mg^{2+}} 2NH_3 + H_2 + 16ADP + 16\ Pi$
The nitrogenase is extremely sensitive to oxygen. To protect these
Participants (6)
Dr. Mrunal Ishwar Warhade (Host, me)
Dharmpal Shende
Dimpal
Megha Ichare
Shubhangi
Sonal Tamrakarkoge
Invite
Mute All


Ribosomal RNA (rRNA)
Mammalian
ribosome (80S)
(4.2 × 10⁶ daltons)
60S subunit
40S subunit
28S rRNA (4,718 nt)
+
5.8S rRNA (160 nt)
+
5S rRNA (120 nt)
+
49 proteins
18S rRNA (1,874 nt)
+
33 proteins
nt = nucleotides
Participants (6)
Dr. Mrunal Ishwar Warhade (Host, me)
Alisha Sorde
Mayuri Deotale
Sakshi Selokar
Shubhechcha Indurkar
Sonu Mundhare
Invite
Mute All


Internal Features of Stem:
In T.S., the stem of Equisetum appears wavy in outline with ridges and furrows.
The epidermal cell walls
and have a deposition of
siliceous material.
Stomata are distributed on
en the ridges. A hypodermal
sclerenchymatous zone is present below each ridge which may extend up to
stele in E. giganteum. The cortex is differentiated into outer and inner regions.


Classification by Smith (1955), Bold(1957) and Zimmerman (1959)
Psilophyta
Most primitive
Rootless with rhizoids
Dichotomously branched photosynthetic stem
Leaves often absent
Protostele
Homosporous synangium
Eg: Fossil genera: Rhynia and Horneophyton
Living genera Psilotum and Tmesipteris
Lycophyta (Club moss or spike moss)
Differentiated plant body
Microphyllous leaves
Protostele sometimes siphonostele
Sporophylls aggregate to form strobili or cones
Homosporous (Selaginella) Lycopodium) or heterosporous
Gametophyte depends on fungus for food
Sphenophyta (Horse tail)
All are fossils except Equisetum
Differentiated plant body
Stem joined with nodes and internodes
Scaly leaves seen as whorl around the node
Sporangia forming strobili or cones
homosporous.
Pterophya (Ferns or Filicophyta)
Most widely distributed vascular cryptogams
Differentiated plant body stem mostly rhizomatous
Leaves macrophyllous called as fronds
Young leaves show circinate vernation (spirally coiled)
Stele: protostele, siphonostele or dictyostele
Sporangia form sori on abaxial side of the leaf
Sporocarp in Marsella
Indusium may be true or false
True indusium and false indusium
Homosporous (Pteris) or heterosporous(Marsella)
Antherozoids multiflagellated
Participants (5)
Dr. Mrunal Ishwar Warhade (Host, me)
Ashwina
Ashwini Kaware
Dipti kamdi
Samiksha Mungale
Invite
Mute All
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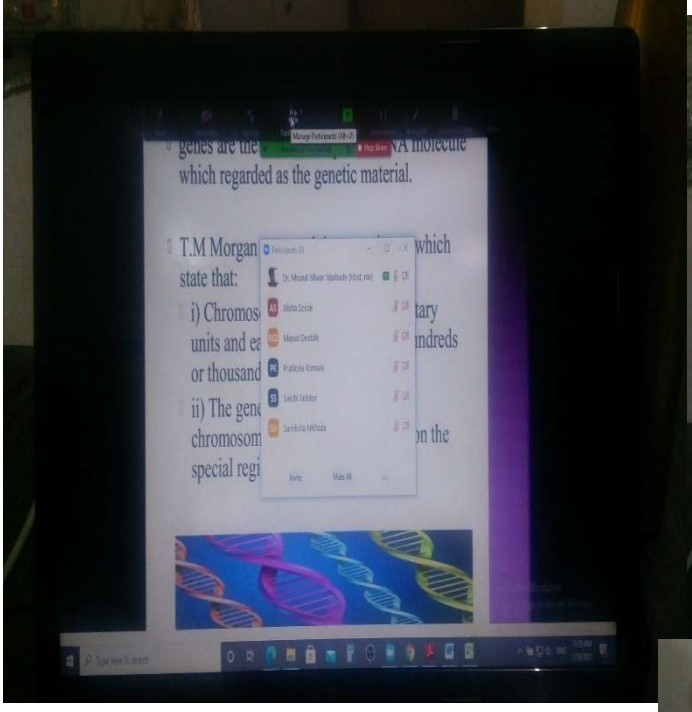
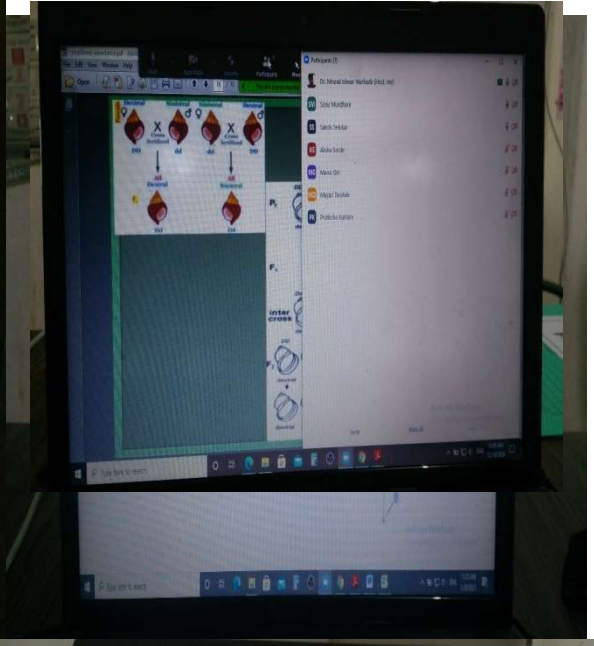
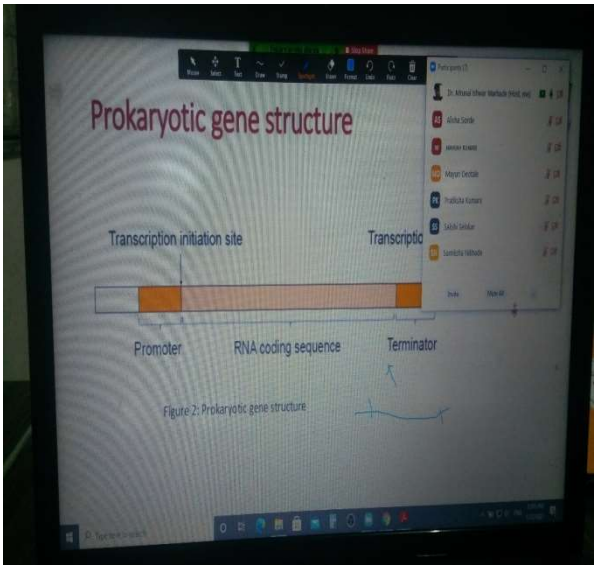
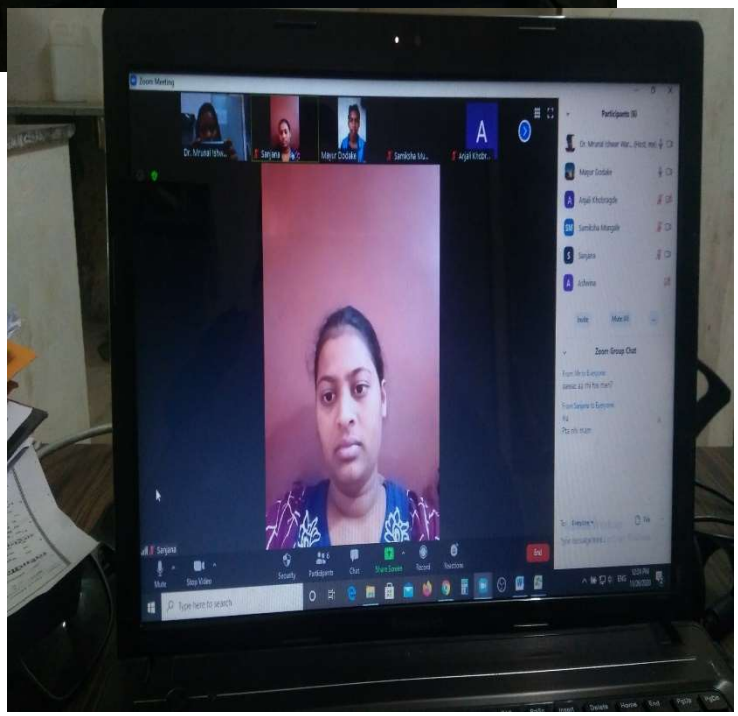
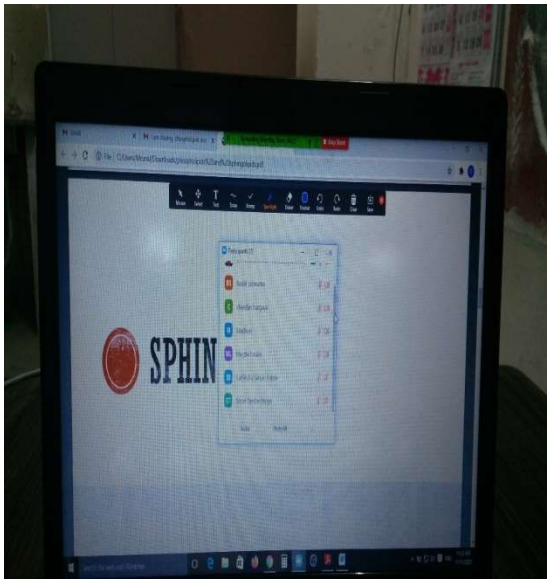
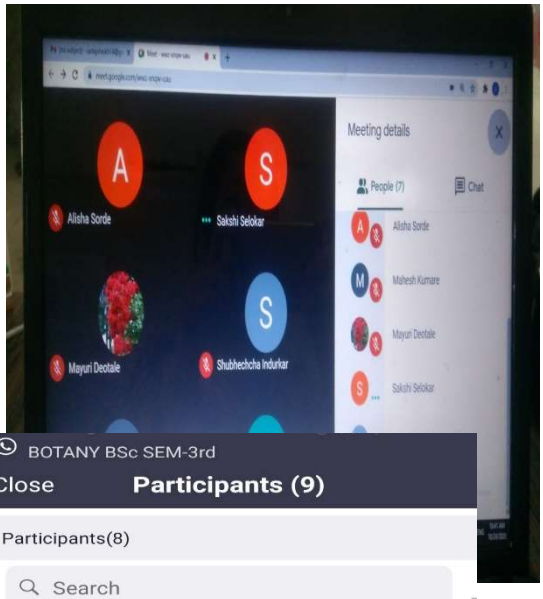

which regarded as the genetic material.
T.M Morgan
which
state that:
i) Chromos
tary
units and ea
ndreds
or thousand
ii) The gene
chromosom
on the
special regi

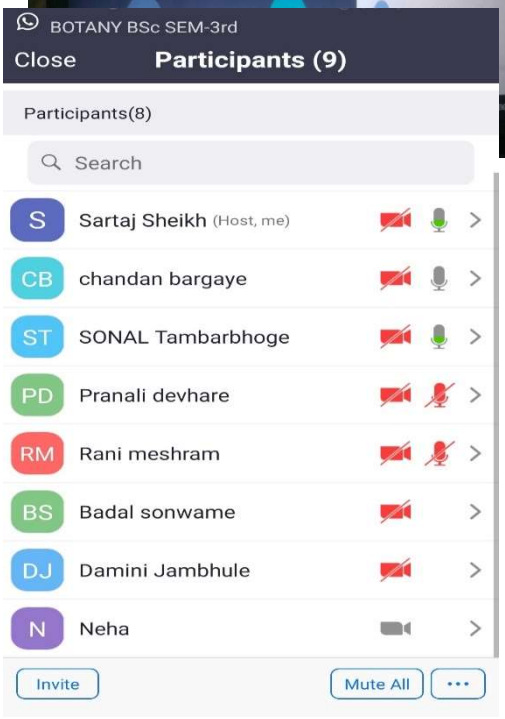



Prokaryotic gene structure
Transcription initiation site
Transcriptio
Promoter
RNA coding sequence
Terminator
Figure 2: Prokaryotic gene structure




SPHIN


Meeting details
People (7)
Chat
Alisha Sorde
Sakshi Selokar
Mayuri Deotale
Shubhechcha Indurkar
Mahesh Kumare


BOTANY BSc SEM-3rd
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Participants (9)
Participants(8)
Search
Sartaj Sheikh (Host, me)
chandan bargaye
SONAL Tambarbhoge
Pranali devhare
Rani meshram
Badal sonwame
Damini Jambhule
Neha
Invite
Mute All


S
Sartaj Sheikh
chandan bargaye
Sonal Tambarbhoge
Neha Lohakare