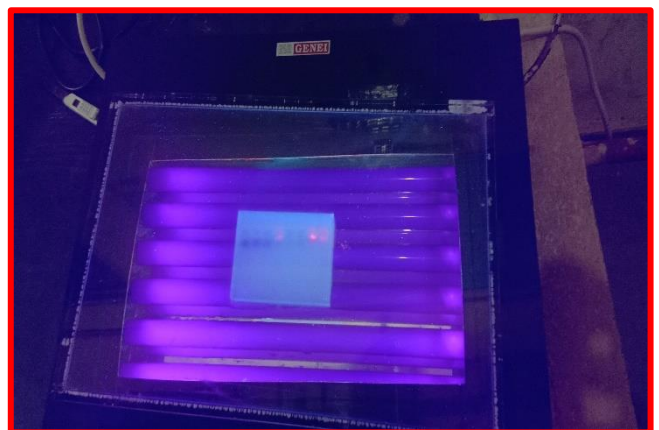
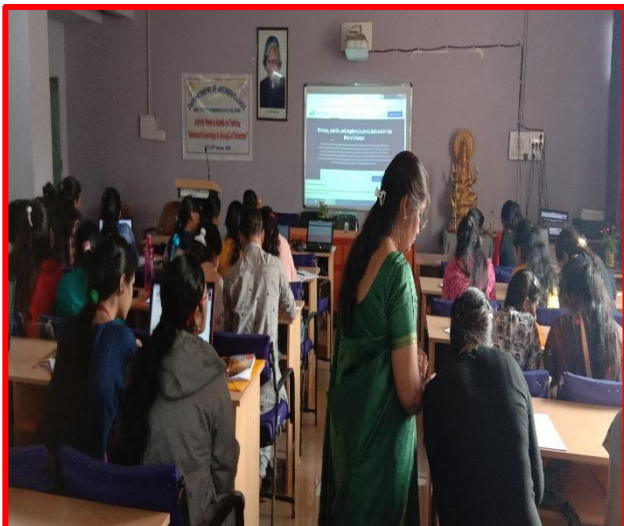
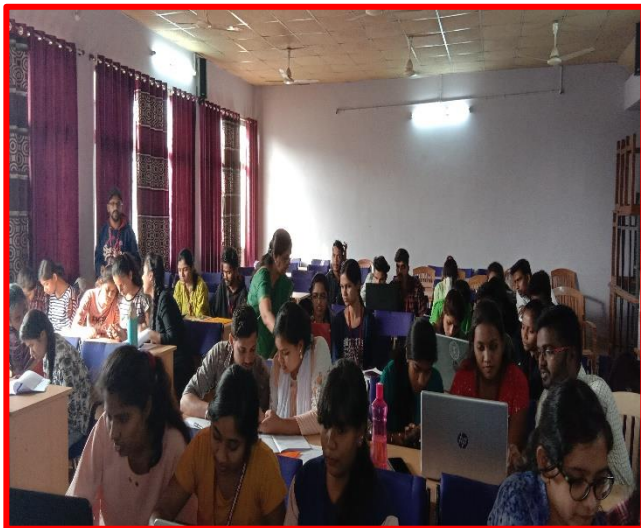


Departmental Events

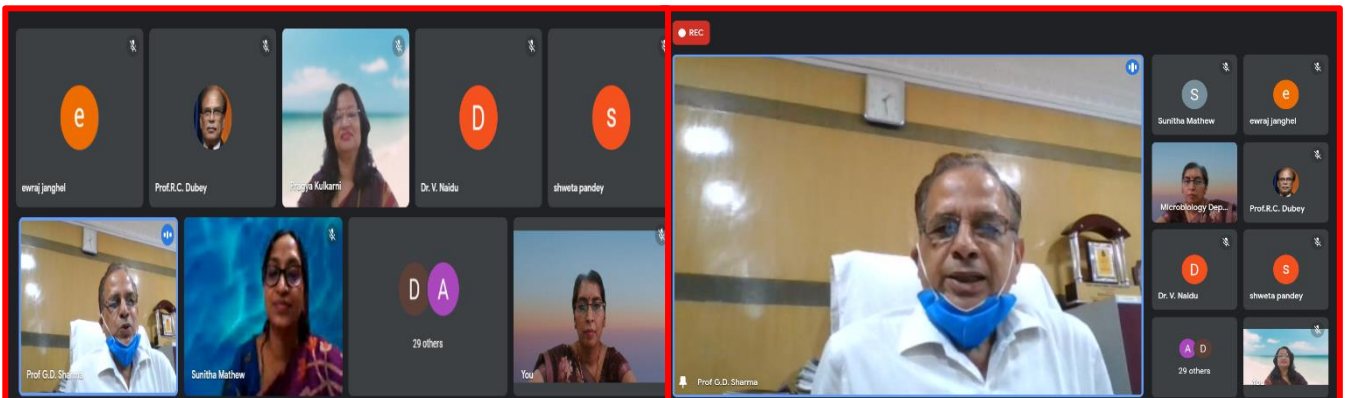
'Workshop and Hands on Training on Advance Learning in Biological Sciences' January 13-19, 2020







National Conference on 'Promises and Challenges with Microorganisms' On the occasion of International Microorganism Day 17.09.2021



Prof.R.C. Dubey is presenting

Challenges with Microorganisms

Harmful effects of microorganisms

1. Food spoilage
2. Spreading of diseases
3. Harmful diseases like tuberculosis, leprosy, colitis, cholera, typhoid, diphtheria, botulism, malaria, filaria, etc.

Harmful Bacteria in Your Water

1. *Escherichia coli*
2. *Campylobacter Jejuni*
3. *Giardia Lamblia*
4. *Salmonella*
5. *Legionella Pneumophila*
6. *Cryptosporidium*

shashant ray is presenting

V275 and nearby residues of FtsZ is important for interaction with B T-benzo-29

Perturbation of FtsZ assembly blocks cytokinesis leading to bacterial cell death

Adopted from Kapoor and Panda (2009) *Expert Opin. Ther. Targets*, 13: 1837-1951

Bacterial cell division

EVALUATION OF BACTERIAL CONSORTIUM EFFICACY TO REMOVE ORGANIC AND INORGANIC CONTENT OF INDUSTRIAL WASTEWATER

Rashmi Parhar

ABSTRACT
The present study of biodegradation was done to evaluate the efficacy of microbial consortium (i.e., strains *Pseudomonas*, *Streptococcus*, *Escherichia coli*, and *Shewanella*) for the removal of organic and inorganic pollutants in the water samples collected at 20°C, 30°C, and 40°C. The results showed that the consortium was able to remove 95% of organic and 80% of inorganic pollutants in the water samples collected at 30°C.

INTRODUCTION
The wastewater is one of the major sources of pollution in the world. It contains various organic and inorganic pollutants which are harmful to the environment. The present study was conducted to evaluate the efficacy of microbial consortium for the removal of organic and inorganic pollutants in the water samples collected at 20°C, 30°C, and 40°C.

CONCLUSIONS
The present study showed that the microbial consortium was able to remove 95% of organic and 80% of inorganic pollutants in the water samples collected at 30°C. The results showed that the consortium was able to remove 95% of organic and 80% of inorganic pollutants in the water samples collected at 30°C.

Entomopathogenic Fungi: A Potential Source for Biological Control Agent

Arushi Sharma, Pragya Kulkarni

ABSTRACT
Entomopathogenic fungi are a group of fungi that are capable of killing insects. They are used as biological control agents against various insect pests. The present study was conducted to evaluate the efficacy of entomopathogenic fungi for the biological control of insect pests.

INTRODUCTION
Entomopathogenic fungi are a group of fungi that are capable of killing insects. They are used as biological control agents against various insect pests. The present study was conducted to evaluate the efficacy of entomopathogenic fungi for the biological control of insect pests.

MODE OF ACTION
Entomopathogenic fungi kill insects by penetrating their cuticle and multiplying in the hemocoel. They also produce toxins that are lethal to the insect.

DISCUSSION
Entomopathogenic fungi are a promising source of biological control agents. They are easy to produce and store, and they are effective against a wide range of insect pests.

Antibacterial activity of Biologically synthesized Gold Nanoparticles using edible mushroom *Catharina* species

Pooja Das, Asha Singh

ABSTRACT
The present study was conducted to evaluate the antibacterial activity of biologically synthesized gold nanoparticles using the edible mushroom *Catharina* species. The results showed that the nanoparticles have antibacterial activity against various bacterial strains.

INTRODUCTION
Antibiotics are used to treat bacterial infections. However, the overuse of antibiotics has led to the development of antibiotic resistance. The present study was conducted to evaluate the antibacterial activity of biologically synthesized gold nanoparticles.

RESULTS

Strain	Zone of Inhibition (mm)
<i>Staphylococcus aureus</i>	12.0
<i>Escherichia coli</i>	10.0
<i>Pseudomonas aeruginosa</i>	8.0
<i>Bacillus subtilis</i>	6.0
<i>Micrococcus luteus</i>	4.0

Subject Popularization Program Govt. H.S. School Anjora Dhaba, Durg (30.01.2017)



Poster Presentation on Common Prevailing Diseases



Blood Group Test



**Industry Visits: Chhatargarh Biofertilizer Unit:
(13.02.2017)**



**Motivational lecture by Alumni: Dr. Loknath
Deshmukh, R. D. University, Jabalpur
(26.02.2018)**



“We are... What we think...”

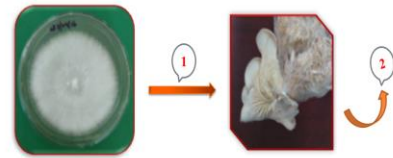
**Be Innovative
Think Productive**



Presented
by
Loknath Deshmukh
(Research Scholar, R.D. Uni. Jabalpur)

Bio-Designing of Mushroom

- ❑ Mushroom is an excellent source of protein, vitamins, minerals, folic acid and iron.
- ❑ Edible and Medicinal Mushrooms.
- ❑ Commercialization : Cultivation Technique ~~Unique~~ Easiest Method.
- ❑ Provide Business Platform.



Mushroom Cultivation

Subject Popularization Program, Govt. H.S. School, Urla, Durg (22.01.2018)



Poster Presentation on Prevailing infectious Diseases

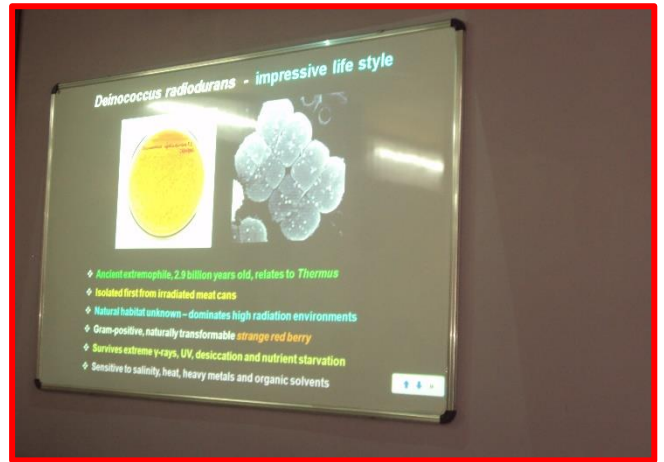
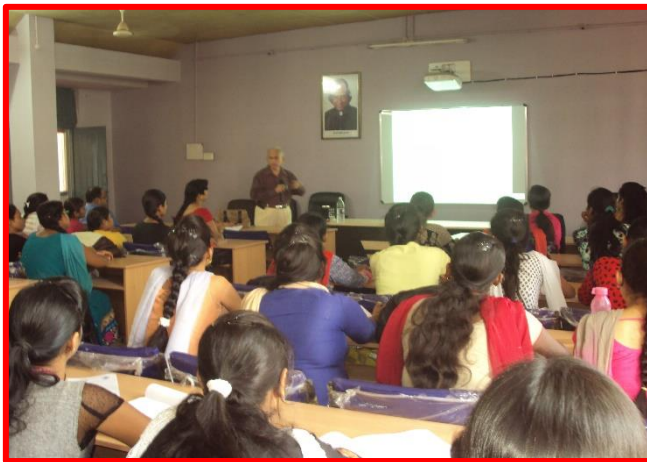


Demonstration of blood group Test

Bio Gas and Biofertilizer production Plant Funda, Patan: (01.03.2018)



Inauguration of Microbiology Association: 05.10.2018



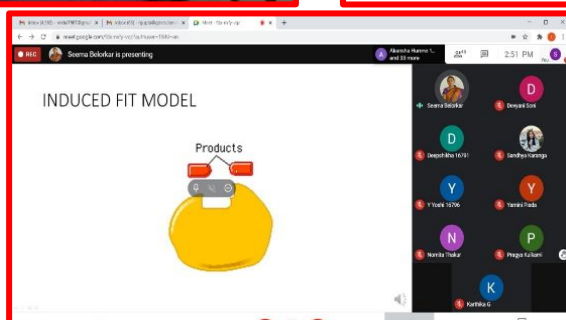
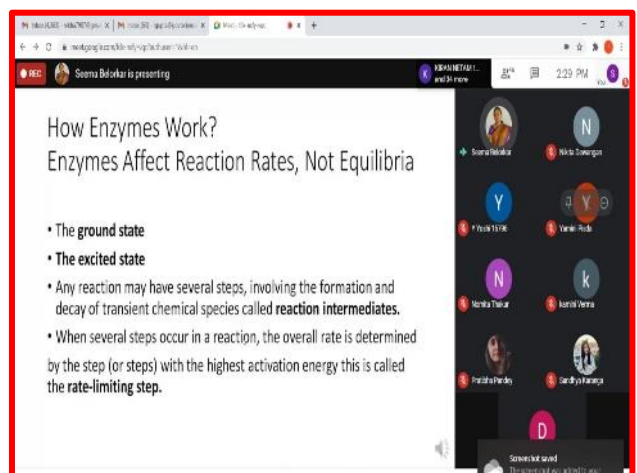
Inauguration of Microbiology Association: 14.11.2019



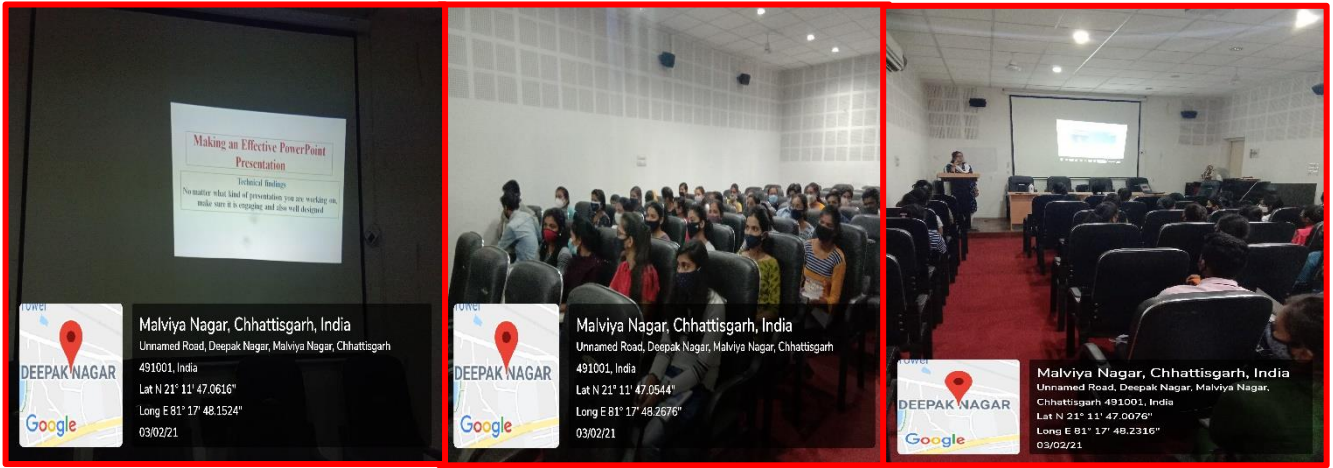
Alumni Meet (07.12. 2019)



Inauguration of Microbiology Association: 12.02.2021

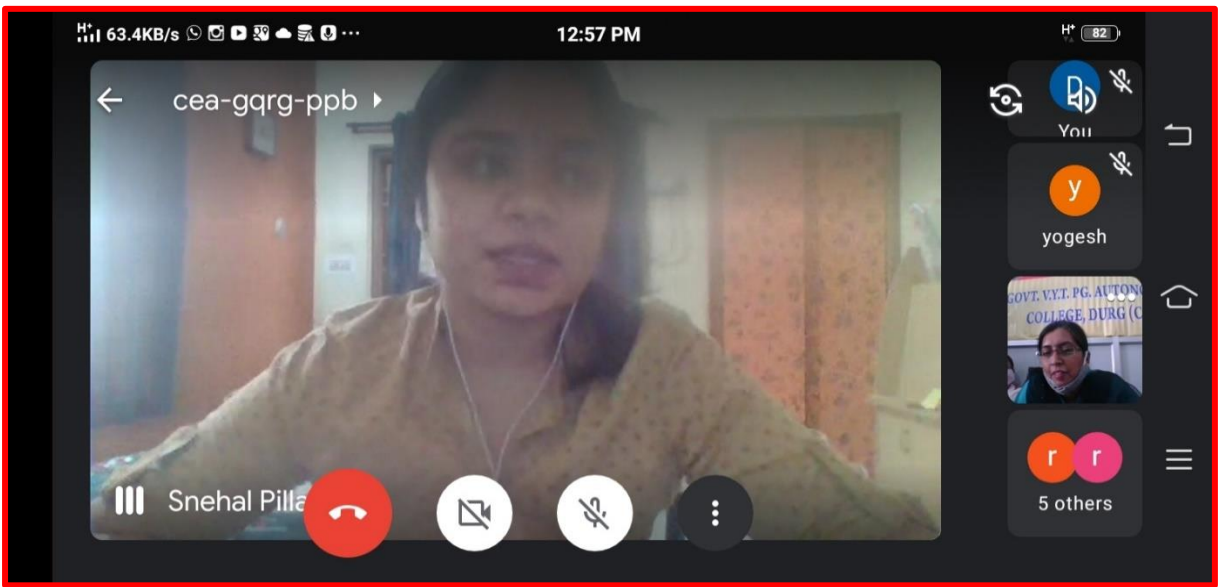


Celebration of National Science Day (02.03.2021)

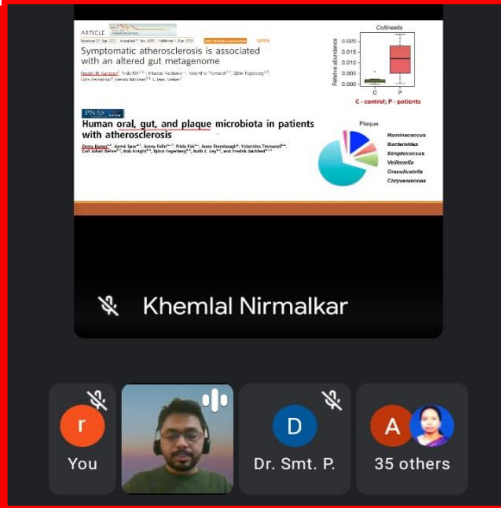
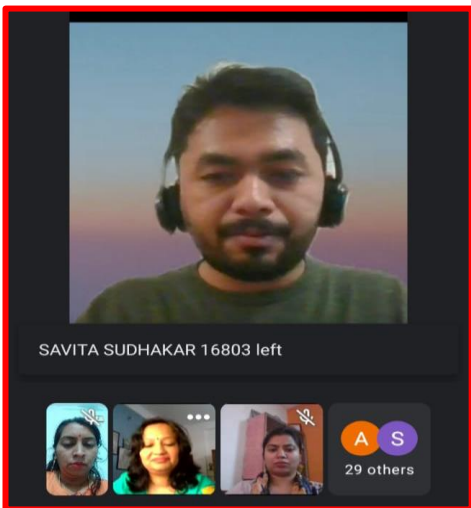


Alumni Meet (05.03.2021)





Endowment Lecture on Role of Gut Microbiota (05.03.2021)

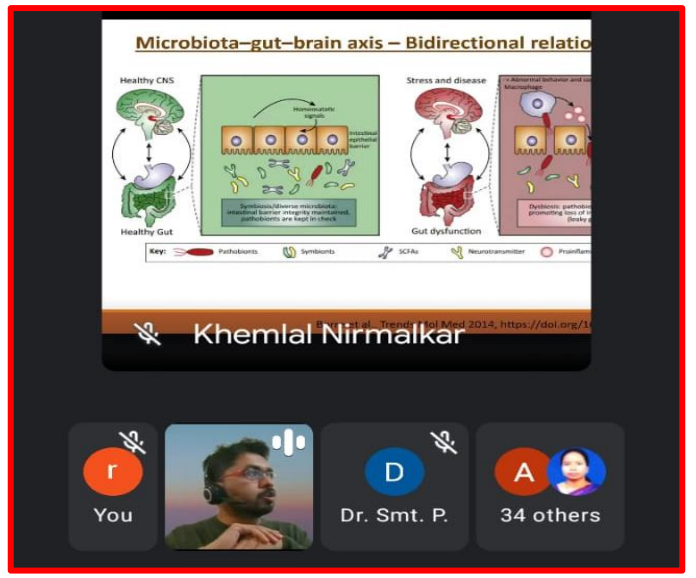
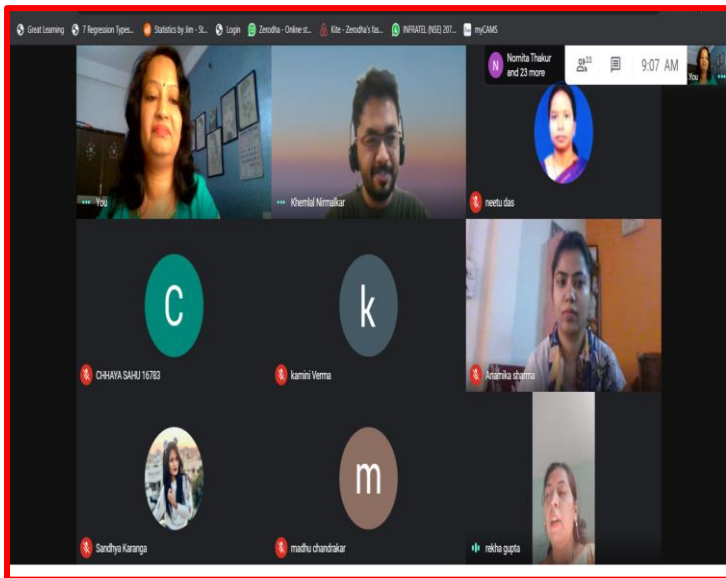


पाश्चात्य देशों में जंकफुड के कारण मोटापे की समस्या बढ़ी

सूक्ष्मजीव विज्ञान विभाग के एक भूतपूर्व छात्र का ऑनलाइन लेक्चर

दुर्ग, 5 मार्च (देशबन्धु)। अति सवेर खबरेत बढने वाते मोटापे को समस्या बढती जा रही है। -न्याय हमेशा अछा नही होता। ये बाते महाविद्यालय डॉ. निर्मलकर ने अपने पोथ से यह निष्कर्ष निकाला है कि पाश्चात्य देशों में बहो खानपान का समय एबे 'पु' कार अलग है वही न्याय प्रोबायोटिक का सेवन भी आहार नाल के उपयोगी सूक्ष्मजीवों को संछता को कम क र उन्हे अन्य कार्य में संलग्न है। (विभाग के सहकोगर विद्यार्थियों के लिये आयोजित ऑनलाइन अतिथि लेक्चर के अवसर पर डॉ. खेमलाल निर्मलकर (एम.एससी 2011) ने बताया कि पाश्चात्य देशों में खासकर जंकफुड न्याय प्रचलित होने के कारण लगातार

बढने वाते मोटापे को समस्या बढती जा रही है। डॉ. निर्मलकर ने अपने पोथ से यह निष्कर्ष निकाला है कि पाश्चात्य देशों में बहो खानपान का समय एबे 'पु' कार अलग है वही न्याय प्रोबायोटिक का सेवन भी आहार नाल के उपयोगी सूक्ष्मजीवों को संछता को कम क र उन्हे अन्य कार्य में संलग्न है। (विभाग के सहकोगर विद्यार्थियों के लिये आयोजित ऑनलाइन अतिथि लेक्चर के अवसर पर डॉ. खेमलाल निर्मलकर (एम.एससी 2011) ने बताया कि पाश्चात्य देशों में खासकर जंकफुड न्याय प्रचलित होने के कारण लगातार



Social Health Awareness Program (22.05.2021)

Mucormycosis

Location

- It most commonly affects the sinuses or the lungs after inhaling fungal spores from the air.
- It can also occur on the skin after a cut, burn, or other type of skin injury.

Symptoms

Orbitonasal (rhino-orbital-cerebral) mucormycosis

- nasal or facial swelling
- Headache
- Nasal or sinus congestion
- Black lesions on nasal bridge or upper inside of nostrils
- Fever

Who get infected?

- More, but it's more common in Diabetic patients, especially with diabetic ketoacidosis
- Organ transplant
- Organ with transplant
- Immunosuppression (low number of white blood cells)
- Long-term corticosteroid use
- Injection drug use
- Trauma (most often to the body (arms overhead or laceration/trauma))
- Skin injury due to surgery, burns, or wounds
- Prosthetics and low birth weight

Participants visible in the grid:

- neetu das
- Rahul Tripathi
- Dr. Smt. P. Kulkarni
- shubhang ji
- neetu das
- Raj Kumar Sarda 1889
- KHOMATA SAHU
- HRONDI 16804
- Shehal Pillai

Awareness Lecture On 'Understanding Of Fungal Infections'

Speaker: **Dr. Rahul Tripathi** (M.B.B.S.)
 DESIGNATION: Medical Officer (PHC Mangla, C.G.)
 Currently Posted in Civil Treatment Centre, Sonoli, Raigarh, C.G.

Fungal Nail Infections

Oncychomycosis caused by:

Dermatophytes	Non-Dermatophytic molds	Opportunistic yeasts
<ul style="list-style-type: none"> Trichophyton rubrum Trichophyton mentagrophytes Trichophyton tonsurans Trichophyton violaceum Trichophyton interdigitale Epidermophyton floccosum 	<ul style="list-style-type: none"> Aspergillus Botrytis Chaetomium Cladophiala Exophiala Phanerochaete Scedosporium Trichia Trichocladium Zygomycetes 	<ul style="list-style-type: none"> Candida albicans Candida glabrata Candida tropicalis Candida parapsilosis Candida lusitana Candida guilliermondii Candida lusitana Candida lusitana Candida lusitana

Tinea Unguium (nail)

- Distal-lateral subungual onychomycosis
- Superficial white onychomycosis
- Total dystrophic onychomycosis

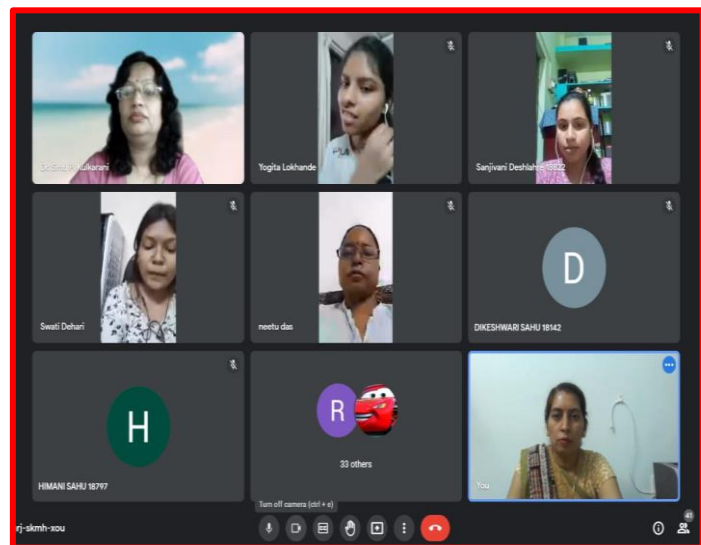
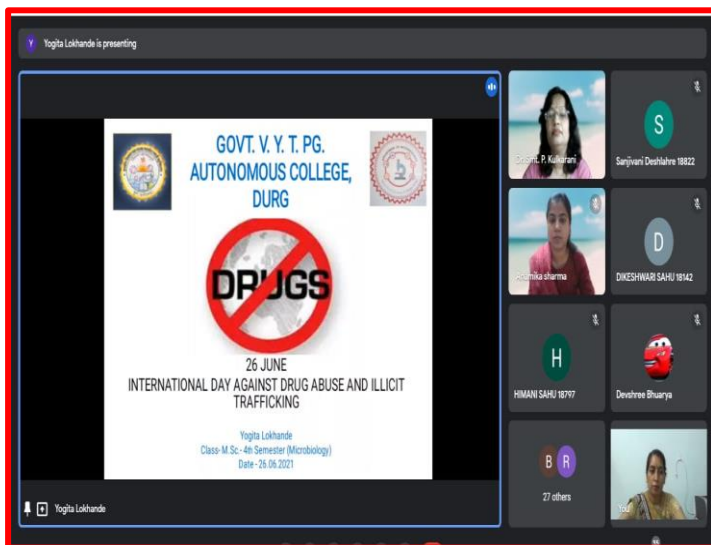
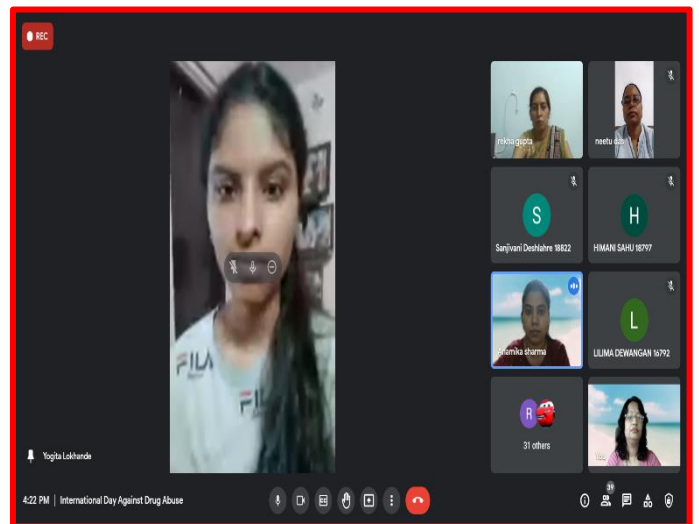
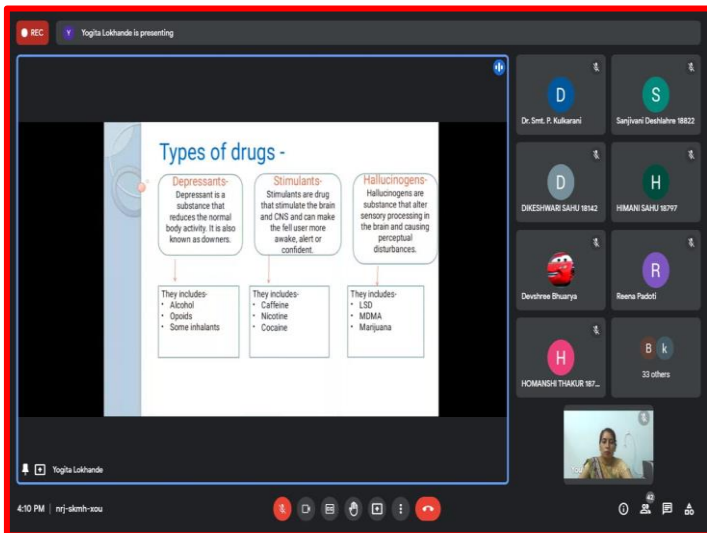
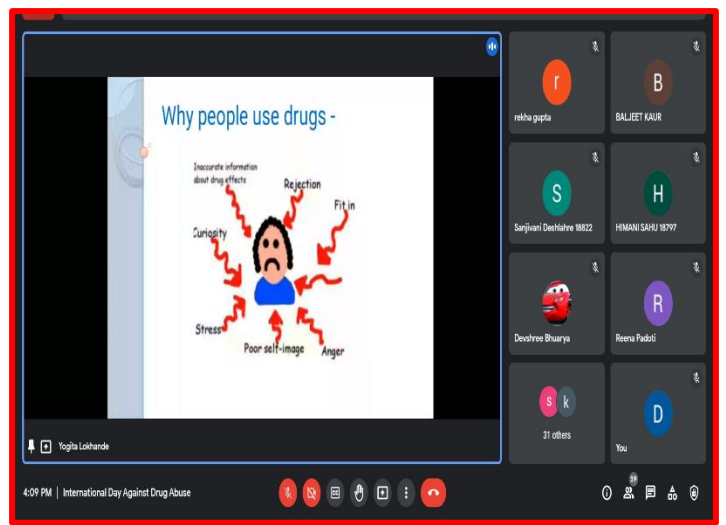
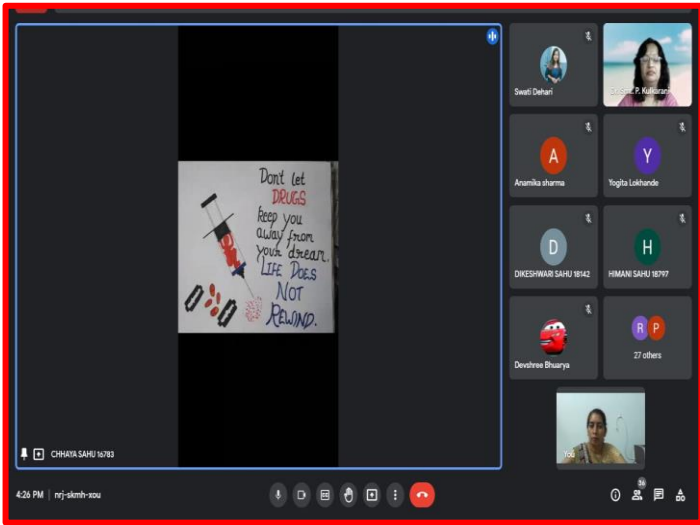
Epidemiology

Diagram illustrating the epidemiology of fungal infections, showing the interaction between the host, the environment, and the pathogen.

Participants visible in the grid:

- neetu das
- Rashmi Singh
- Raj Kumar Sarda 1...
- Devyani Soni
- neetu das
- Dr. Smt. P. Kulkarni
- S

Celebration of International Day against Drug Abuse and Elicit Trafficking (29.06.2021)



Awareness of Drug Abuse and Illicit Trafficking Servant/ Labor colony of Sector 8, Bhilai 02.07.2021



Awareness Through Posters on Drug Abuse



Participation of Faculties and Students of M.Sc. Microbiology



Survey on Drug Habits Among Community

