



## **Best Practice 1**

### **Title- Online Teaching, Learning & Evaluation**

#### **Objectives:**

- To cope up with the pandemic and aftermath, the online teaching platform is being used.
- To enable students to prepare and complete their curriculum in due course of time.
- To access to global knowledge.
- The underlying principle behind this practice was to prepare them for challenges in the difficult situation.
- To Provide access to college level learning.

#### **Context:**

Facing the Pandemic situation and aftermath, alternative arrangement for dissemination of knowledge and learning.

#### **Practice:**

In the beginning, the online training programmes for the faculty were organized and they were made familiar with various apps like Google meet, Teachmint, Zoom app, Google class room etc. The most preferable app was Google meet as the institution was instructed by the department of higher education, Madhya Pradesh, to choose that app and it was free of charge also.

In the next step, class wise What's App groups were made. They were instructed to download the same App & join the link provided in their respective class groups. This led to the smooth conduction of online classes. Evaluation was done via various online Quizzes, presentations for CCE prescribed in the syllabus. For Objective and subjective evaluation, question papers were shared in the corresponding WhatsApp class groups & the answer sheets in the PDF form were submitted in the allotted time by the students.

Online Webinars, lecture series are also being conducted.

#### **Evidence of the Success:**

The success of the best-practice is viewed in teachers and students as an effective tool to enhance the delivery of interaction and develop knowledge acquisition skills through transfer of learning. Likewise, teachers feel a very positive impact on their working style when they are using online classes as part of face to face interaction. In the same manner, students are developing the quality to learn independently.

#### **Problem faced:**

- The network was the major issue faced by both the faculty & the students during online classes. some of the students did not have the mobile phone facility. Some had the mobile facility but availability was not there.


- The students belonging to the weaker section found difficulty in attending the online classes. They were given opportunity to appear in traditional i.e. offline mode of exam for CCE.
- For many students one of the biggest challenges of online learning is the struggle with focusing on the screen for a long period of time.
- There is also a greater chance for students to be easily distracted by social media or other sites.
- The data related to the teachers and students could be misused.

**Notes:**

Besides conducting online classes, some of the college teachers recorded their lectures and uploaded them on you tube.

**The significance of online classes as observed is as follows:**

- Convenient as well as flexible.
- Offer more individual attention.
- Help in interaction between the teacher & the taught.
- Enable us to study / teach from anywhere in the world.
- Saves time but also money.
- The students become tech-savy and are able to connect themselves at national and international level.

  
Principal  
Govt. Dr. Shyama Prasad  
Mukherjee Science & Commerce  
P.G. College BHOPAL (M.P.)

02

## प्रतिवेदन

विषय - "Quiz For Good Home Scientist"

दिनांक - 07/09/2021

समय अवधि- 02:00pm से 02:20pm (कुल 20 मिनट)

माध्यम - Google Form (online)

आयोजक - गृह विज्ञान विभाग

शासकीय डॉ. श्यामा प्रसाद मुखर्जी विज्ञान एवं वाणिज्य महाविद्यालय भोपाल के गृह विज्ञान विभाग के अंतर्गत विद्यार्थियों को आहार एवं पोषण, वस्त्र विज्ञान, मानव विकास, पारिवारिक संसाधन प्रबंधन एवं प्रसार एवं संचार विषय से संबंधित सैद्धांतिक व व्यवहारिक ज्ञान प्रदान किया जाता है जिसका उद्देश्य उनके पारिवारिक, सामुदायिक जीवन को उत्कृष्ट बनाना है। साथ ही गृह विज्ञान के विद्यार्थियों को विभिन्न रोजगार के अवसरों व गृह विज्ञान से संबंधित स्वरोजगार के अवसरों से अवगत करना है।

अतः इसी उद्देश्य को ध्यान में रखते हुए आज दिनांक 07/09/2021 को गृह विज्ञान विभाग द्वारा गृह विज्ञान के समस्त विद्यार्थियों के लिए Google Form के माध्यम से ऑनलाइन Quiz Competition का आयोजन किया गया। जिसका शीर्षक "Quiz For Good Home Scientist" रखा गया। जिसकी समय अवधि 02:00pm से 02:20pm तक कुल 20 मिनट थी। जिसमें गृह विज्ञान के कुल 11 विद्यार्थियों ने सहभागिता की। साथ ही प्रतियोगिता में प्रथम, द्वितीय एवं तृतीय स्थान प्राप्त विद्यार्थियों को पुरस्कृत भी किया गया। विद्यार्थियों की प्रतिक्रिया के आधार पर परिणाम निम्न अनुसार रहे -

प्रथम स्थान - शहीद अहमद पिता रियाज अहमद B.H.Sc. द्वितीय वर्ष

द्वितीय स्थान - आकाश पड़वार पिता सुकृत दास B.H.Sc. तृतीय वर्ष

तृतीय स्थान - कु. ऋषिका इंगले पिता विकास इंगले B.H.Sc. द्वितीय वर्ष

*Meethis*  
07/09/2021

विभागाध्यक्ष

गृह विज्ञान विभाग

डॉ. मीनाक्षी सक्सेना



Untitled form



Send

Questions Responses 11 Settings

Total points: 23

## Quiz For Good Home Scientist

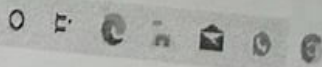
वा सकार्ड डॉ. श्यामा प्रसाद मुखर्जी विश्वविद्यालय एवं वाणिज्य महाविद्यालय भीपाल के गृह विज्ञान विभाग के अंतर्गत विद्यार्थियों को आहार एवं पोषण, शिल्प विज्ञान, मानव विकास, पारिवारिक संसाधन प्रबंधन एवं प्रसार एवं संचार विषय से संबंधित सैद्धांतिक व व्यवहारिक ज्ञान प्रदान किया जाता है जिसका उद्देश्य उनके पारिवारिक, सामुदायिक जीवन को संकट मुक्त बनाना है। साथ ही गृह विज्ञान के विद्यार्थियों को विभिन्न रोजगार के अवसरों व गृह विज्ञान से संबंधित स्वरोजगार के अवसरों से अवगत करना है। अतः इसी उद्देश्य को ध्यान में रखते हुए गृह विज्ञान के समस्त विद्यार्थियों के लिए "Quiz For Good Home Scientist" का निर्माण किया गया है।

Under the Department of Home Science, Government Dr. Shyama Prasad Mukherjee College of Science and Commerce, Bhopal, students are provided theoretical and practical knowledge related to the subjects of diet and nutrition, textile science, human development, family resource management, extension and communication, which aims at their Family, community life is to be made excellent. At the same time, students of Home Science have to be made aware of various employment opportunities and self-employment opportunities related to Home Science. For Good Home Scientists, has been created.

Full Name

Short answer text

Type here to search

ENG 2:33 PM  
IN 9/16/2021

4. BAECE का पूरा नाम बताइये full form of BAECE \*

- ब्रिटिश असोसिएशन फॉर अर्ली चाइल्डहुड एजुकेशन British Association for Early Childhood Education
- ब्रिटिश असोसिएशन फॉर अर्ली केयर एजुकेशन British Association for Early Care Education
- ब्रिटिश असोसिएशन फॉर अर्ली चिल्ड्रन एजुकेशन British Association for Early Children Education
- ब्रिटिश असोसिएशन फॉर अर्ली चाइल्डहुड केयर एंड एजुकेशन British Association for Early Childhood Care and Edu...

5. CARE का पूरा नाम है - Full form of CARE - \*

- Cooperative for Assistance and Relief Everywhere
- Cooperative for Assistance and Relax Everywhere
- Cooperative for Adolescence and Relief Everywhere
- Cooperative for Assistance and Relief Enywhere

भौतिकी विभाग ने दिनांक 11 एवं 12 अगस्त  
को Role of ICT in online teaching, learning  
& evaluation पर online Webinar कराया।  
यह विश्व बैंक के द्वारा प्रायोजित था। इसे  
Google meet पर आयोजित किया गया था। इसमें  
चार वक्ता था। सर्वप्रथम प्रो. अनुज हुंडेत (प्राध्यापक,  
भौतिकी) ने Smart teaching पर व्याख्यान दिया।  
द्वितीय व्याख्यान प्रो. प्रज्ञेश अग्रवाल ने प्राध्यापक (भौतिकी)  
ने MOOCs पर व्याख्यान दिया।  
तृतीय व्याख्यान प्रो. अमित जैन ने Various  
mode of online teaching पर व्याख्यान दिया।  
चतुर्थ व्याख्यान डॉ. सत्येन्द्र जैन ने online  
teaching and examinations on google platform  
पर व्याख्यान दिया। सभी व्याख्यान में online  
अध्ययन के तरीके व कार्यदे भी बताये गये। प्राकृतिक  
आपदा या आपातकाल की स्थिति में ऑनलाइन  
अध्ययन की प्रक्रिया का महत्व और भी अधिक बढ़ जाता है।  
यह बहुत सुविधाजनक है। आप क्लासरूम की तरह से  
आप यहाँ पर भी एक दूसरे से अनन्त सवाल जवाब  
कर सकते हैं। B. Sc. I, II, III एवं पत्रिकाओं के 100 से भी  
अधिक छात्रों ने वेबिनार को सुना एवं लाभान्वित भी हुए।

add

Role of ICT In Online Teaching Learning and Evaluation 11-08-2021

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Webinar on

# Role of ICT in Online Teaching, Learning & Evaluation

organized by

**DEPARTMENT OF PHYSICS**

**GOVT. DR. SHYAMA PRASAD MUKHERJI  
SCIENCE AND COMMERCE PG COLLEGE, BHOPAL**

*WITH COLLABORATION OF*  
**M.P. HEQP OF WORLD BANK**

Date : 11 & 12 August 2021

Platform : Google Meet

Time : 11:30AM - 4:00PM

Meet Code : cfb-ufnb-ebu

## KEYNOTE SPEAKERS



**DR. ANUJ  
HUNDET**

Prof. Physics  
IEHE, Bhopal

Topic: Smart teaching



**DR. PRAGYESH  
AGRAWAL**

Prof. Physics  
OSD, State Project  
Directorate, RUSA

Topic: MOOCS



**DR. AMIT  
JAIN**

Prof. Physics,  
IEHE, Bhopal

Topic: Various modes  
of online teaching



**SATYENDRA  
JAIN**

Asst. Prof. MCA  
SATI Vidisha

Topic: Online teaching  
and examinations on  
google platform



**DR. SAROJ  
SHRIVASTAVA**

Patron



**DR. RAGINI  
TIWARI**

Head of Department



**DR. RAKESH  
SAXENA**

Advisor



**DR. HARSHA  
JALORI**

Convener



**DR. MAMTA  
PANDEY**

Organising  
Secretary



Govt. Dr. Shyama Prasad Mukharjee  
Science & Commerce PG College  
Bhopal (M.P.)



SPMWB40

12-Aug-2021

Two Days Online Webinar

On

"Role of ICT in Online Teaching, Learning & Evaluation"

11 & 12 August 2021

## CERTIFICATE

This is to certified that Ms./Mr./Dr. **Vipin** from **Govt Dr SPM Science and commerce PG college,Bhopal** has participated in Two Days Online Webinar on "Role of ICT in Online Teaching, Learning & Evaluation" organized by Govt. Dr. Shyama Prasad Mukharjee Science & Commerce PG College Bhopal(M.P.), 11<sup>th</sup> & 12<sup>th</sup> August 2021, in collaboration with MPHEQIP of WORLD BANK.


Dr. Harsha Jalori  
Convener

Dr. Mamta Pandey  
Organizing Secretary

Dr. Ragini Tiwari  
Head of the Department

Dr. Saroj Shrivastava  
Principal



 GPS Map Camera



## Bhopal, Madhya Pradesh, India

BX/86, Road, F-Sector, Rajharsh Colony, Uma Vihar, Bhopal, Madhya Pradesh  
462042, India

Lat 23.167445°

Long 77.42011°

15/03/22 12:22 PM

**EMINENT - Dr. Smriti Nigam Shrivastava**  
**SPEAKERS, Ph.D., UGC NET, MCA**  
**(Counsellor in Family Therapy)**

Dr. Ruchi Soni  
Dr. Bharti Goowari

Link <https://meet.google.com/jmg-ijzu-xdv>

Dr. Meenakshi Saxena  
(Organizing Secretary)

Dr. Ila Jain  
(Convener)

Dr. Kirti Jain  
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**Govt. Dr. Shyama Prasad Mukherjee Science & Commerce College, Kolar  
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Re-accredited by NAAC Grade B\*\*

**Department of Chemistry**

(Under the MPHEQP)

**Organizes**

**Lecture series on**

**"SPECTROSCOPY"**

**Date: 15<sup>th</sup> to 17<sup>th</sup> December 2021**

**Venue: Conference Hall**

**Time: 12:30 pm**

**Eminent Speakers**

**Dr. Neelam Dubey**

**Dr. Suman Malik**

**Dr. Bharti Jain**

**Convener**

**Dr. Sudhanshu Dhar Dwivedi**  
(Head, Deptt. Of Chemistry)

**Organizing Committee**

**Dr. Asha Verma**

**Dr. Ila Jain**

**Dr. Neetupriya Lachoria**

**Dr. Smita Verma**

**Principal**

**Dr. Sanjay Telang**

**Govt. Dr. Shyama Prasad Mukherjee Science & Commerce College, Kolar Road,  
Bhopal M.P.**



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**Dr. Neelam Dubey**  
Professor, Govt. MVM,  
Bhopal

**Convener**

**Dr. Sudhanshu Dhar Dwivedi**  
Head, Deptt. Of Chemistry

**Organizing Committee**

**Dr. Asha Verma**

**Dr. Ila Jain**

**Dr. Neetupriya Lachoria**

**Dr. Smita Verma**

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**Dr. Sanjay Telang**



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Re-accredited by NAAC Grade B\*\*

Department of Chemistry

(Under the MPHEQP)

Organizes

Lecture series on

**"SPECTROSCOPY"**

Date: 16<sup>th</sup> December 2021

Venue: Conference Hall, Time: 12:30 pm

Eminent Speaker



**Dr. Surman Malik**  
Professor, Sadhu Vaswani College,  
Bairagarh, Bhopal

Convener

Dr. Sudhanshu Dhar Dwivedi  
Head, Deptt. Of Chemistry

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Dr. Ila Jain  
Dr. Neetupriya Lachoria  
Dr. Smita Verma

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Dr. Sanjay Telang

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Department of Chemistry

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Organizes

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Date: 17<sup>th</sup> December 2021

Venue: Conference Hall, Time: 12:30 pm

Eminent Speaker



**Dr. Bharti Jain**  
Professor, Govt. MLB College,  
Bhopal

Convener

Dr. Sudhanshu Dhar Dwivedi  
Head, Deptt. Of Chemistry

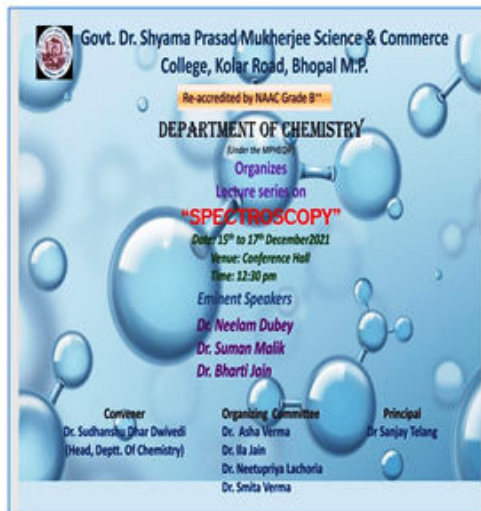
Organizing Committee

Dr. Asha Verma  
Dr. Ila Jain  
Dr. Neetupriya Lachoria  
Dr. Smita Verma

Principal

Dr. Sanjay Telang






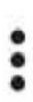







































# LECTURE SERIES 15,16,17 December 2021

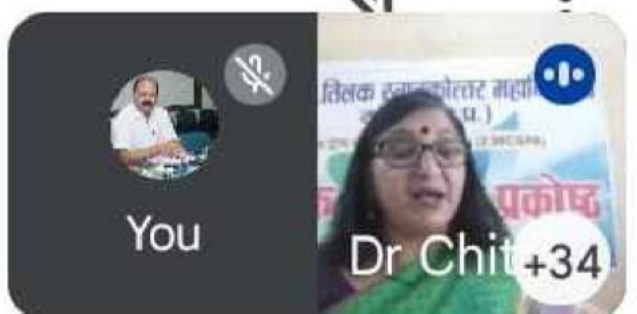


# About this call

## People

## Information

-  Dharmendra Ahirwar  
-  Dr Chitra Prabhat  
-  Dr Sandeep Kumar Malh...  
-  Dr. Neetupriya Lachoria  
-  harshita gajre  
-  Jagdish 123  
-  Kk Kushwah  
-  lokendra mewada  
-  mohan ahirwar  
-  Neeraj Sahu  
-  Nitesh kaushal 8537  
-  Pankaj Pandey  
-  Pramod Kumar  
-  rajkumari jaget  
-  P  



A video call preview window is overlaid on the bottom right of the list. It shows two participants: 'You' (a man) and 'Dr Chit +34' (a woman). The woman's video is larger and more prominent. There are mute icons for both participants.

**GOVT DR SHYAMA PRASAD MUKHERJEE SCIENCE & COMMERCE PG COLLEGE  
KOLAR ROAD BHOPAL M.P.**

Re-accredited By NAAC Grade "B"

**DEPARTMENT OF ENGLISH**

Under the MPHEQIP

**Organizes  
Online Lecture**



**"EFFECTIVE COMMUNICATIVE ENGLISH"**

**EMINENT :  
SPEAKERS**

**Dr. G.S. Goutam  
Professor, English Department  
IEHE, Bhopal**

**DATE :15/03/2022, (Tuesday)  
TIME :02:00pm to 04:00pm**

**Link:**

**<https://meet.google.com/ewx-ifmd-ons>**

**Dr. Pragya Rawat  
(Professor, English Department)**

**Dr. Ila Jain  
(Co-ordinator)**

**Dr. Kirti Jain  
(Convener)**

**Dr. Sanjay Telang  
(Incharge Principal)**

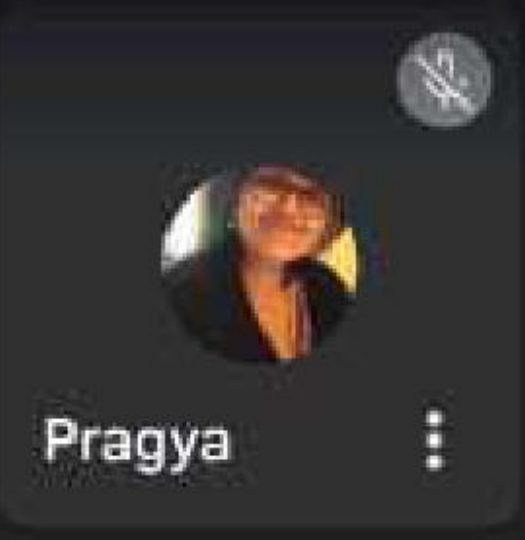




Durga

⋮

A circular profile picture with a blue background and a white letter 'D'.



Pragya

⋮

🔇

A circular profile picture of a woman with dark hair.

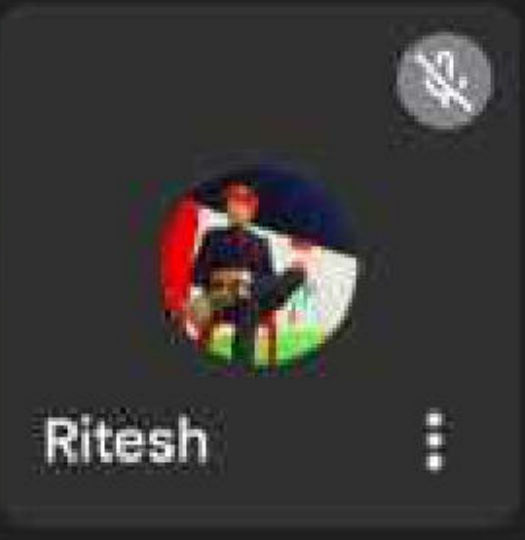


GS

⋮

🔊

A video thumbnail showing a man in a suit and glasses.



Ritesh

⋮

🔇

A circular profile picture of a man sitting on a chair.



Anees

⋮

🔇

A circular profile picture with a brown background and a white letter 'A'.



GOVTDR...

⋮

🔇

A circular profile picture of a man with a mustache.



Durga

⋮

🔇

A circular profile picture with a white background and a black shadow.



Pragya

⋮

🔇

A circular profile picture with a white background and a black shadow.

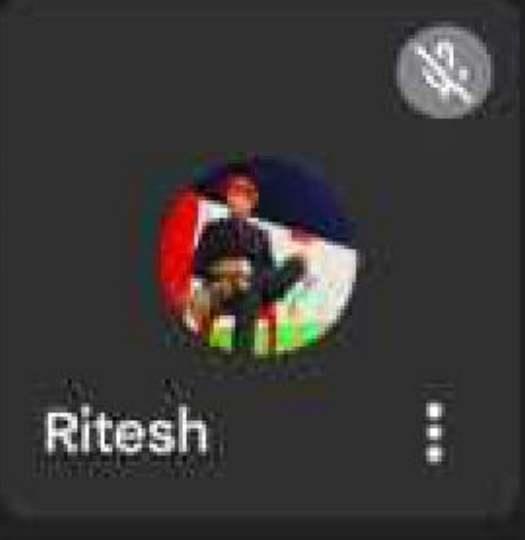


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⋮

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GOVTDR...

⋮

🔇

A circular profile picture of a man with a mustache.



Durga

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🔇

A circular profile picture with a white background and a black shadow.



Pragya

⋮

🔇

A circular profile picture with a white background and a black shadow.

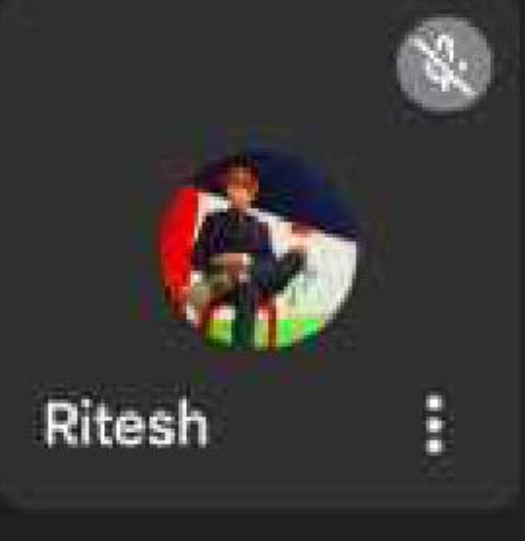


GS

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A video thumbnail showing a man in a suit and glasses.



Ritesh

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A circular profile picture of a man sitting on a chair.



Anees

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A circular profile picture with a brown background and a white letter 'A'.



GOVTDR...

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🔇

A circular profile picture of a man with a mustache.



Durga

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🔇

A circular profile picture with a white background and a black shadow.



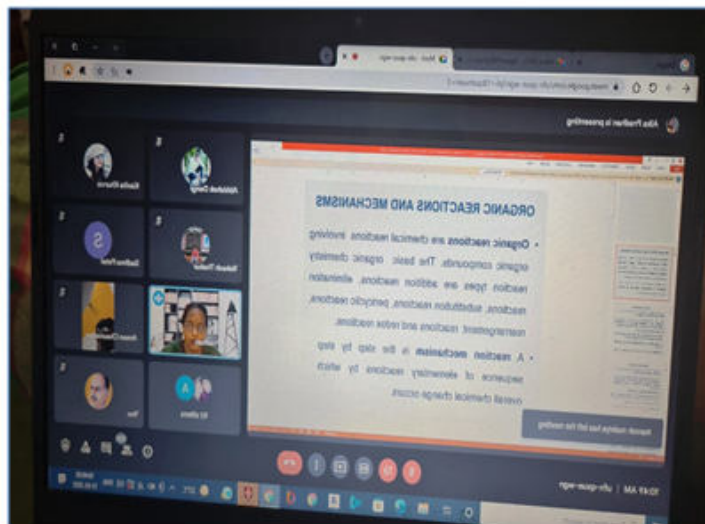
Pragya

⋮

🔇

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# LECTURE SERIES 15,16,17 March 2022



GOVT DR SHYAMA PRASAD MUKHERJEE SCIENCE & COMMERCE PG COLLEGE  
KOLAR ROAD BHOPAL M.P.

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DEPARTMENT OF BOTANY

Under the MPHEQIP

Organizes National Webinar  
Online Lecture

"The Changing Paradigm of Flowering Plants Systematics"



**EMINENT** :Dr. Arun K Pandey  
**SPEAKER** Vice-Chancellor Mansarover  
Global University, Sehore/Bhopal

**Link:** <https://meet.google.com/ewx-ifmd-ons>

**(Organizing Committee)**

Dr. Asha Sharma  
Dr. S.D. Singh  
Dr. Rafat Fatam  
Dr. Sarla Patel  
Dr. Devendra Singh Patel

**DATE**  
**TIME**

:17/03/2022, (Thursday)  
:12:30pm to 02:00pm

Dr. Aruna Jain  
(Organizing Secretary)

Dr. Ila Jain  
(Co-ordinator)

Dr. Kirti Jain  
(Convener)

Dr. Sanjay Telang  
(Incharge Principal)

People	Info
asha wadhvani (You) Meeting host	
Akash akki Dahate	✂
Arvind Rajak	✂
Bindass Parinda Akk...	✂
Deepesh Raikwar	✂
Dharmendra Ahirwar	✂
dharpal silawat	✂
Gireesh Bathre	✂
harshita gajre	✂
lakhan bairagi	✂
Laxmi Ahirwar	✂
Monika Pal	✂
N.K. Food Creat...	✂
Pramod Kumar	✂

Zoom call participant overlay showing 'You' and 'Bindas' with a '+20' indicator.

People	Info
harshita gajre	✂
lakhan bairagi	✂
Laxmi Ahirwar	✂
Monika Pal	✂
N.K. Food Creation	✂
Pramod Kumar	✂
Preeti Tanwar	✂
Raj Dhurve	✂
Rajeev Vishwakarma	✂
Reena Rajak	✂
Revaram Barela	✂
Rohit Choudhary	✂
Shiva Chaurasiy...	✂
udit tamskar	✂

Zoom call participant overlay showing 'You' and 'Bindas' with a '+20' indicator.

8:37 100% 11%

About this call

People	Info
asha wadhvani (You) Meeting host	
abhishek patel	✂
Anuj Yadav	✂
Anurag Rajput	✂
Anushka Yadav	✂
AV STAR	✂
Ayush Verma	✂
Deeksha Singh rajput	✂
DHEERAJ MEENA	✂
Durga Ramose	✂
Manish Meena	✂
Mona Namdeo	✂
Neeraj Meena	✂
Nikita Masani	✂
Nitin Pal	✂
Pinky Dubey	✂
Poonam Sant	✂
Raja koushal	✂
Shalu Dhiware	✂
Shivraj Patel	✂
The king Yash	✂
Umesh Sahu	✂





Zoom call participant overlay showing 'You' and 'Mani' with a '+20' indicator.

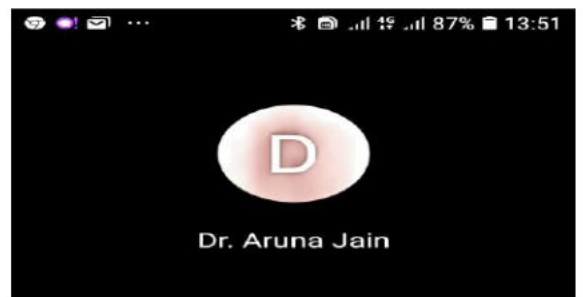
11:07 100% 60%



About this call

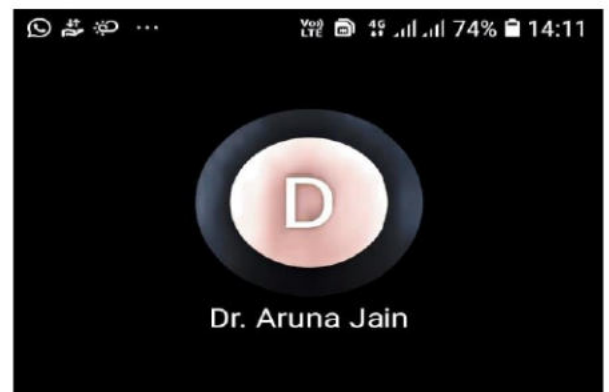
People	Info
asha wadhvani (You) Meeting host	
Abhishek Dubey	✂
Abhishek Tomar, Rajp...	✂
Aman Shejel	✂
Anamika Singh	✂
Anuj Yadav	✂
Anushka Yadav	✂
Ashish Chadar	✂
Ayush Gour	✂
Buddhsingh Baghel	✂
DHEERAJ MEENA	✂
Diksha Rajput	✂
Ganesh Ginnore	✂
Ishika Vyas	✂
Kanchan Patel	✂
King Kohli	✂
Mamta Meena	✂
Mirza Abbas	✂
Neeraj Khiyani	✂
Nitin Pal	✂
pawan aarse	✂
Pinky Dubey	✂
Raj Malviya	✂
Raj saxena	✂
Rohan Vijayvergiya	✂
Sandeep Patel	✂
Shalu Dhiware	✂
Shivani Parihar	✂
Shivanjal Gupta	✂
Shivraj Patel	✂



Zoom call participant overlay showing 'You' and 'Mani' with a '+20' indicator.

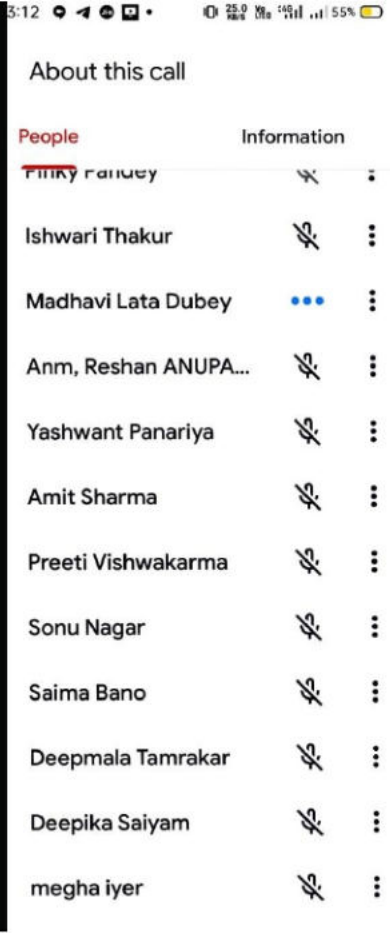
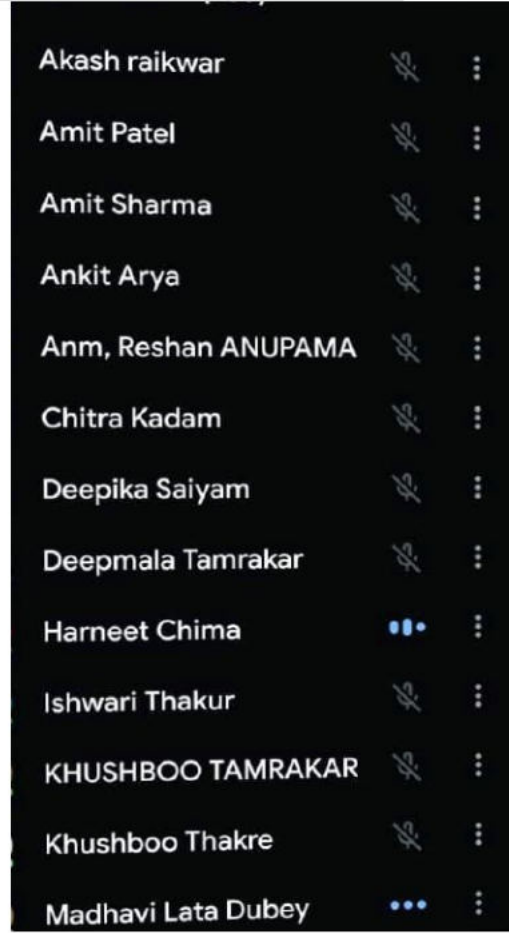
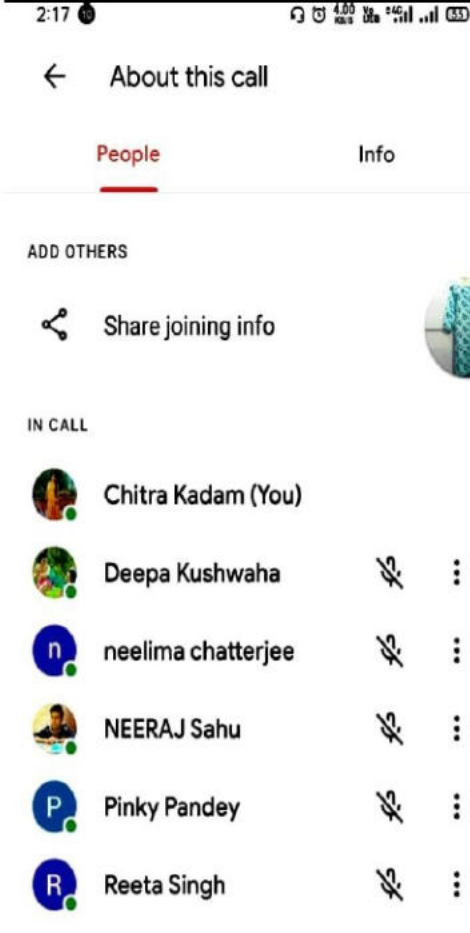
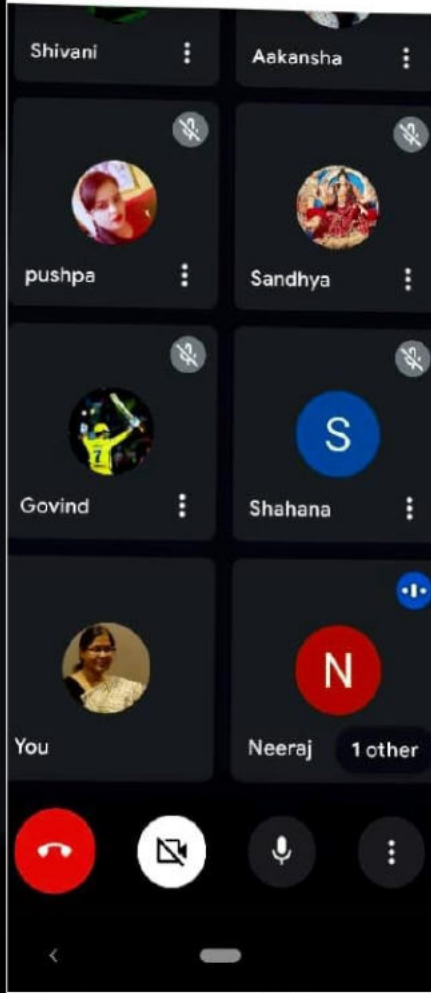
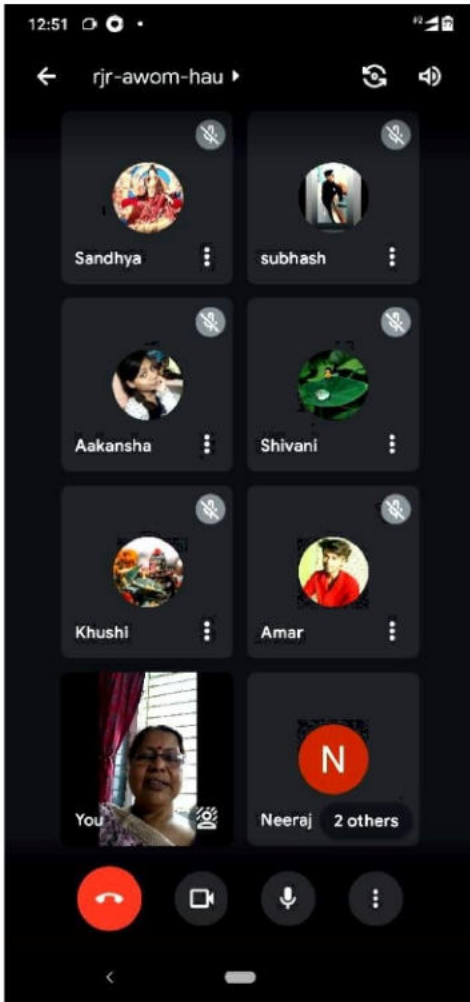
- (10)
-  Omprakash Dhur... >
  -  Pramod Vishwak... >
  -  Roopendra Kush... >
  -  shashi pandey >

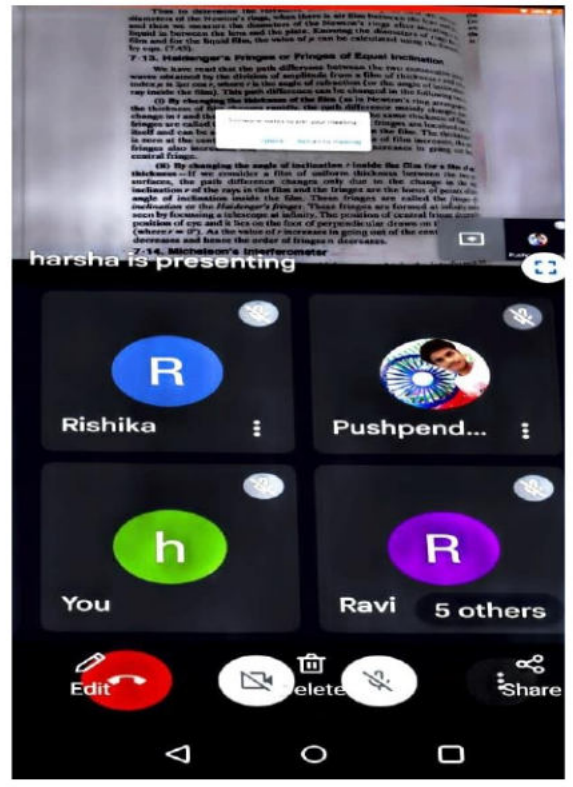
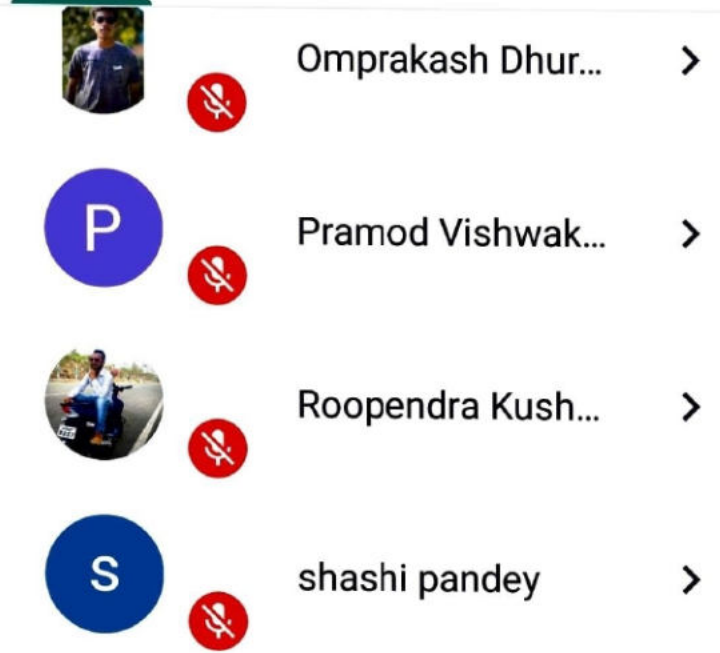
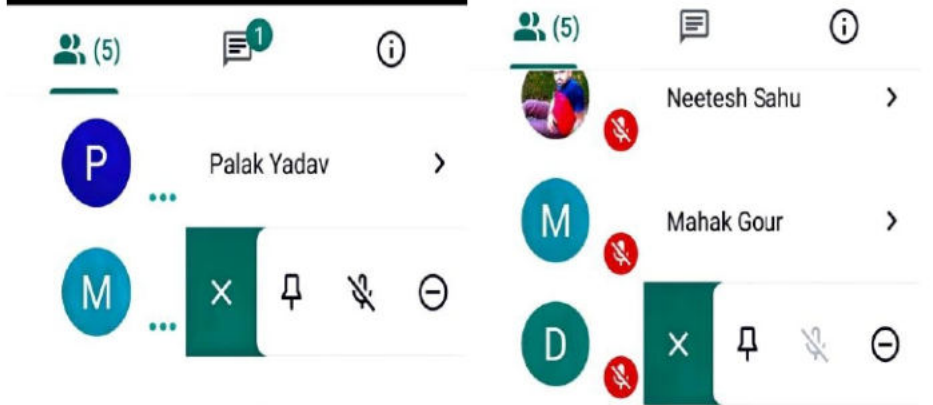
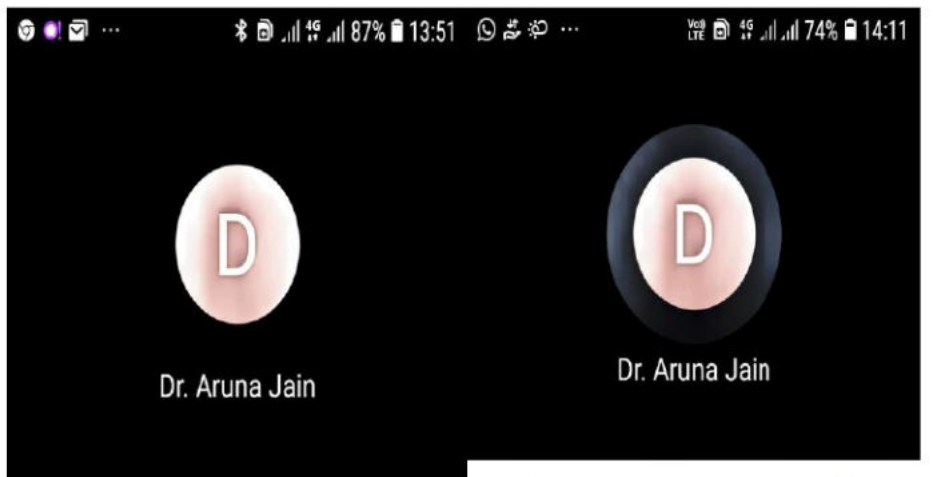
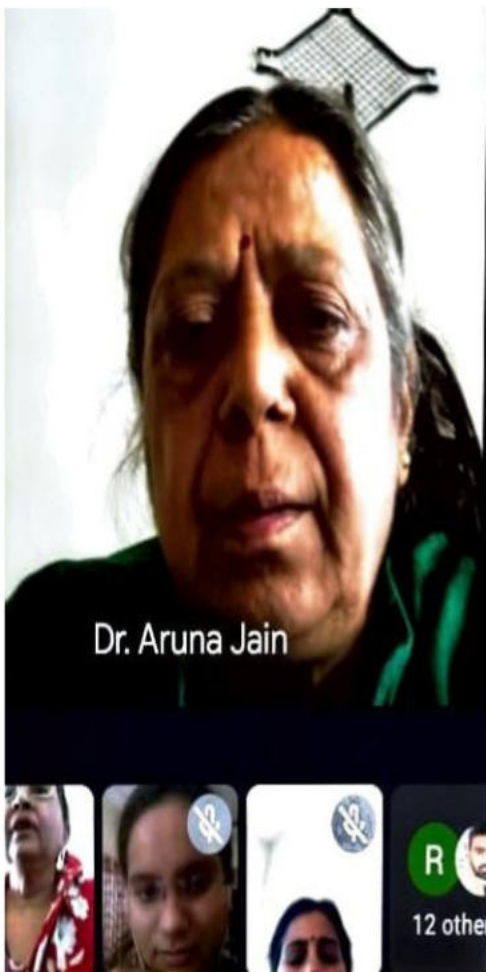


- (5)
-  Palak Yadav >
  -  Ranju Yadav **NEW**
- Others in the meeting (1)



- (5)
-  Neetesh Sahu >
  -  Mahak Gour >
- Others in the meeting (1)





Let  $\frac{E - E_0}{kT} = x$ , then  $dE = kT dx$

Then  $n_v = \frac{4\pi(2m)^{3/2}}{h^3} e^{-E_0/kT} \int_0^\infty (kTx)^2 e^{-x^2} dx$

from standard integral,  $\int_0^\infty x^2 e^{-x^2} dx = \frac{\sqrt{\pi}}{4}$

$\therefore n_v = \frac{4\pi(2m)^{3/2}}{h^3} e^{-E_0/kT} \left(\frac{\sqrt{\pi}}{4}\right)$

or  $n_v = e^{-E_0/kT} \frac{4\pi}{h^3} (2m)^{3/2} \left(\frac{\sqrt{\pi}}{4}\right)$

since  $E_c - E_v = \frac{1}{2} \Delta E$ , where  $\Delta E$  is the forbidden energy gap.

or  $n_v = A T^{3/2} e^{-E_0/kT}$

where  $A = \frac{4\pi}{h^3} (2m)^{3/2} \left(\frac{\sqrt{\pi}}{4}\right) e^{-E_0/kT}$  is a constant. The value of  $A$  is  $4.28 \times 10^{21} \text{ per m}^3 \text{ K}^{3/2}$ .

Similarly, hole density in the valence band

$n_h = \frac{4\pi(2m)^{3/2}}{h^3} e^{-E_g/kT} (E_v - E)$

or  $n_h = e^{-E_g/kT} \frac{4\pi}{h^3} (2m)^{3/2}$

produced in a body is directly proportional to the stress applied on it. Hence within the limit of elasticity, more the deforming force applied on the body, more is the change produced in the size or shape of that object. Remember that Hooke's law is applicable only when the deforming force applied on the object is small (i.e., the deforming force is within the limit of elasticity).

Hence according to Hooke's law, within the elastic limit, more the stress applied on a body, more is the strain produced in that body i.e., stress is always directly proportional to the strain or in other words, the ratio of stress to strain is a constant. i.e.,

$$\frac{\text{stress}}{\text{strain}} = \text{constant} = E \text{ (modulus of elasticity)} \quad (3.5)$$

The constant E is called the modulus of elasticity of material of the body. Its value depends on the material of the body and is different for different materials. Its S.I. unit is newton/metre<sup>2</sup>.

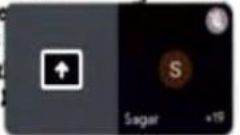
### 3.4. Elastic Constants for an Isotropic Solid

Here we shall consider the homogeneous and isotropic substances or bodies in which the elastic properties are the same at all points and in all directions. All the solids are generally not homogeneous and isotropic. For example, wood, crystal and metals of different points and in different directions (i.e., their elastic properties are different at different points and in different directions). The metals which can be obtained in the form of rod or wire, can be assumed to be homogeneous and isotropic. On the other hand, all liquids and gases (i.e., fluids) are generally homogeneous and isotropic.

There are the following three moduli of elasticity of a homogeneous material: (i) Young's modulus, (ii) Bulk modulus, and (iii) Modulus of rigidity.

If on applying the force, the change is produced in the length of the wire, the ratio of longitudinal stress to longitudinal strain is known as Young's modulus.

If on applying the force, the change is produced in the volume of the body, the ratio of normal stress to volume strain is known as Bulk modulus.



harsha is presenting

SONU Priyansh

h Rohit

You

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Geometrical moment for a beam of (i) rectangular cross-section and (ii) circular cross-section

(i) For rectangular cross-section: Consider a beam of rectangular cross-section of breadth  $b$  and depth  $d$ . We are to find its geometrical moment about the axis MN (Fig. 3.13).

Let there be a layer of width  $dx$  at a distance  $x$  above the axis MN. The area of cross-section of this layer =  $b \cdot dx$ .

Geometrical moment of this layer about the axis MN =  $(b \cdot dx) \cdot x^2$

The geometrical moment of total section of the beam about the axis MN can be obtained by integrating the above expression for  $x = -d/2$  to  $x = +d/2$ . i.e.,

$$I = \int_{-d/2}^{+d/2} (b \cdot dx) x^2 = b \int_{-d/2}^{+d/2} x^2 dx = \frac{2b}{3} \left(\frac{d}{2}\right)^3 = \frac{bd^3}{12} \quad (3.39)$$

(ii) For circular cross-section: For a beam of circular cross-section of radius  $r$ , geometrical moment of an element will be  $(\pi x dx) \cdot x^2$  and the integrating limits will be from  $x = 0$  to  $x = r$ . i.e.,

$$I = \int_0^r (\pi x dx) x^2 = \pi \int_0^r x^3 dx = \frac{\pi r^4}{4}$$

If the beam is hollow and the internal radius is  $r_1$  and external radius is  $r_2$ ,

$$I = \frac{\pi}{4} (r_2^4 - r_1^4) \quad (3.41)$$

the potential energy stored per unit area of the surface is called the surface energy.

In Fig. 3.24, ABCD is a rectangular frame of wire, on which another wire GH can slide without friction. A soap solution film is formed within the frame by immersing it in the soap solution. The film has the two rectangular surfaces: the upper surface and the lower surface.

The force on the wire GH due to surface tension is  $F = T \times 2l$ , which acts inwards and tends to contract the film. Here  $T$  is the surface tension of the liquid (i.e., wire GH). Here the length has been taken as  $2l$  because of the two free surfaces of the film. To keep the wire GH at its position, a force equal to  $F$  acting outwards, is required on it. If the wire GH is displaced through a distance  $x$  by the force  $F$ , the work done on the wire (i.e., the increase in potential energy) is

$$W = F \cdot x$$

Fig. 3.24. Work done in sliding a wire on a soap film.

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But  $F = T \times 2l \therefore W = (T \times 2l) \cdot x = T \cdot \Delta A$  (3.72)

where  $\Delta A$  = increase in the area of film =  $l \times x + l \times x = 2lx$  (because of the two surfaces of the film)

If in eqn. (3.72),  $\Delta A = 1 \text{ m}^2$ , then  $T = W$  joule

Hence the surface tension of a liquid is equal to the work required to increase the surface area of the liquid film by unity at a constant temperature. Thus the surface tension can also be expressed as  $\text{Jm}^{-2}$ .

Work done in formation of a bubble—A bubble has the two free surfaces. Work done in formation of a bubble of radius  $r$  is  $W = 4\pi r^2 T$ . Therefore, the work needed to form a soap bubble of radius  $r$  is  $W = 4\pi r^2 T$ .

harsha is presenting

harsha is presenting

Bho... Sani... Abhi... Ann... Hari... Ram...

h Ram... S 4 others You h Kaml... S 3 others

You

harsha is presenting



meenakshi saxena

Nisha Yadav

Shahid Ahmed

Arvind Namdev

Shubham Jain

Umaira Ahmed

Ritu Uikey

Kaushalaya Meena

Nikita Maran



















Rachna Yadav

Mamta Mamta

Shruti Mali

You

### People

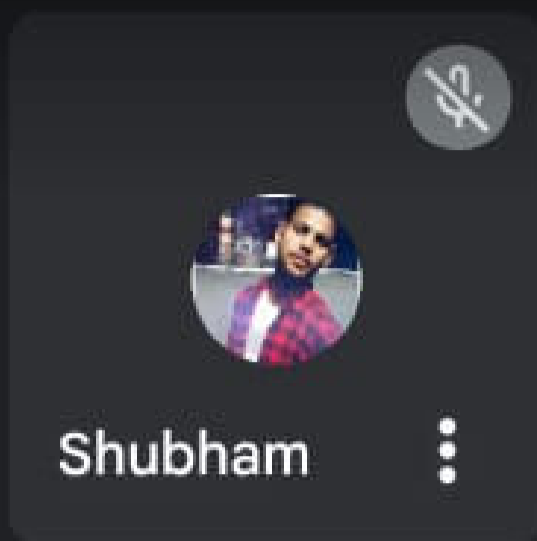
- meenakshi saxena  
- Nikita Maran  
- Nisha Yadav Meeting host  
- Rachna Yadav  
- Ritu Uikey  
- Shahid Ahmed  
- Shruti Mali  
- Shubham Jain  
- Umaira Ahmed  



ddq-qqoj-ftc ▶



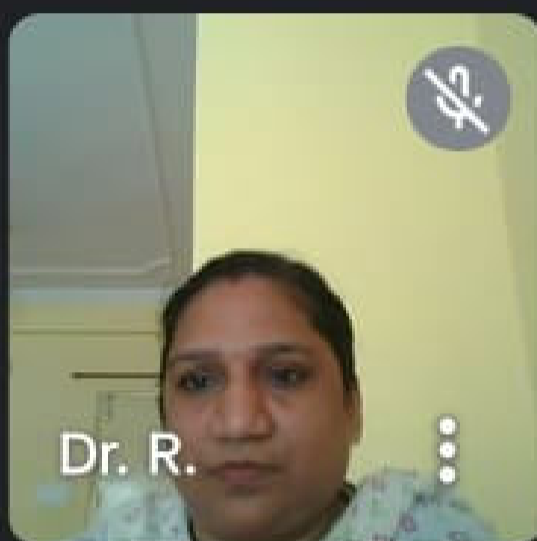
Shahid



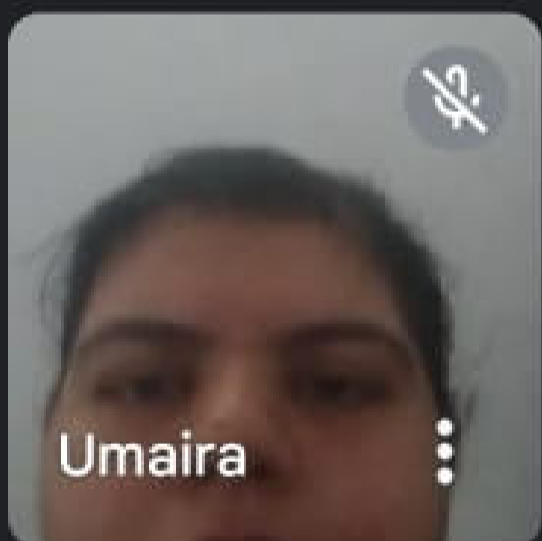
Shubham



meenakshi



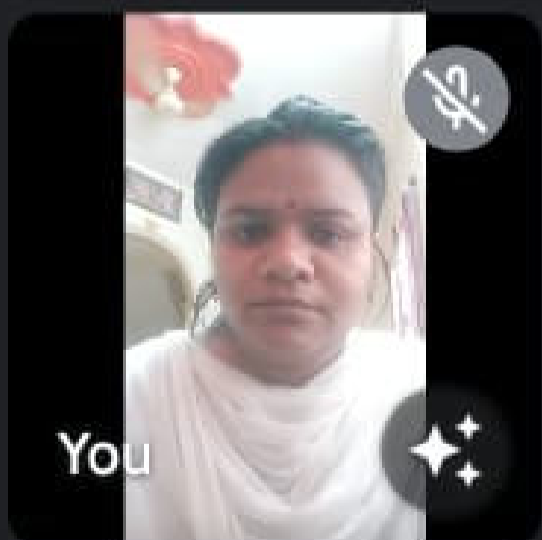
Dr. R.



Umaira



Arvind



You



Ritu

1 other





Anurag

Ritik

Ganesh ...

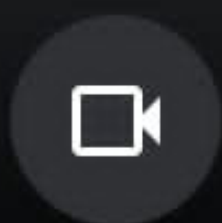
Durga

Hitendra

shivali

You

Vicky 15 others





# About this call

People

Information

In call



Ganesh Prasad Yadav (You)



shivali shakya

Meeting host



Abhishek Dubey



Abhishek Tomar, Rajput



Amar Verma



Ashok Yadav



Bhaktraj Kulaste



Bhupendra Sahu



Chandu G



Chhaya banjare Chhaya



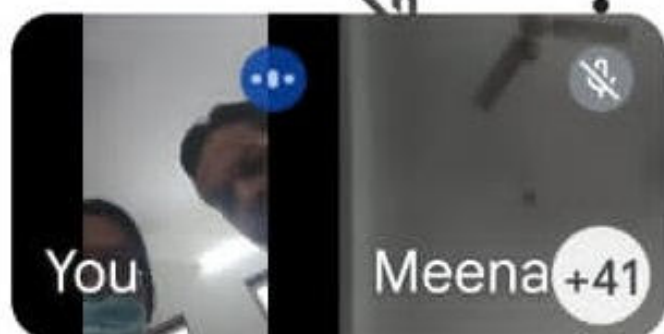
Dishant Thakur



Durga Ramose



Golu Satnaami



...





jwx-upiz-gvs



Dr.Jyoti

Abishek

Abhishek

ANITA

Brij

Ronik

Harsha Vishwakarma left





# About this call

## People

## Information



naval singh



Prashant Shukla



PriYanshu Verma



Pushpendra Singh lodhi



Rajesh Kirar



Ritesh Patidar



Ronik Sen



Rupendra parihar



Sanskar sahu Sahu



Science Kumar



Shyam Dodway



Vikash Dhakad




Vikram Sahu

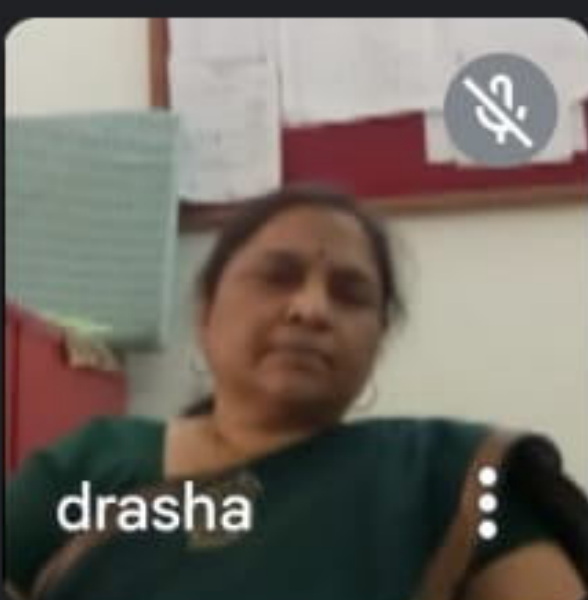





S.D.




Bobby




drasha




Sutesh




Sandhya



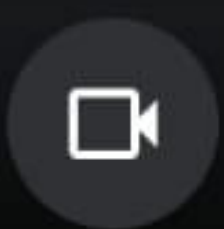
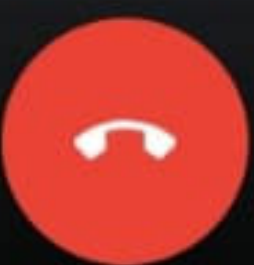
Lakshyika



You



Annpurna 1 other



Kalp... ⋮

Surbhi ⋮

Nikita ⋮

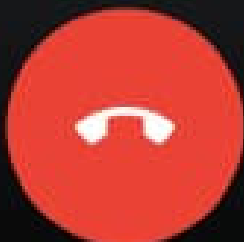
J ⋮

pooja ⋮

N  
NIDHI ⋮

You ✨

4 others
































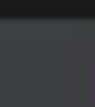






# ← About this call

People





Info

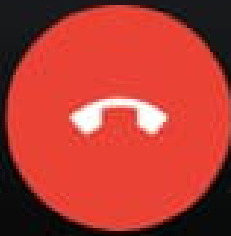
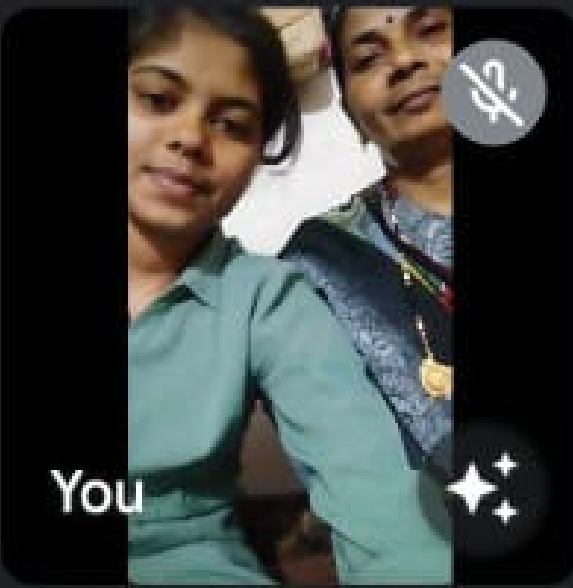
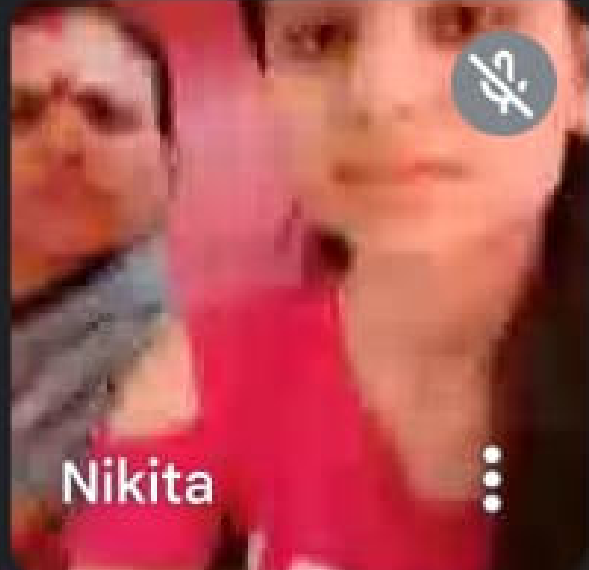
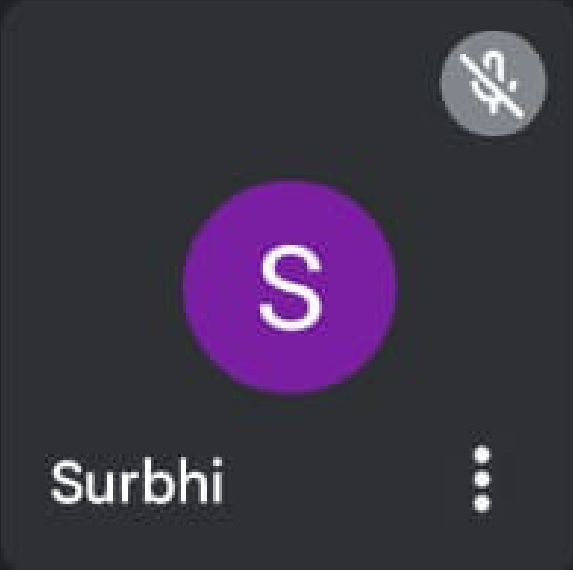
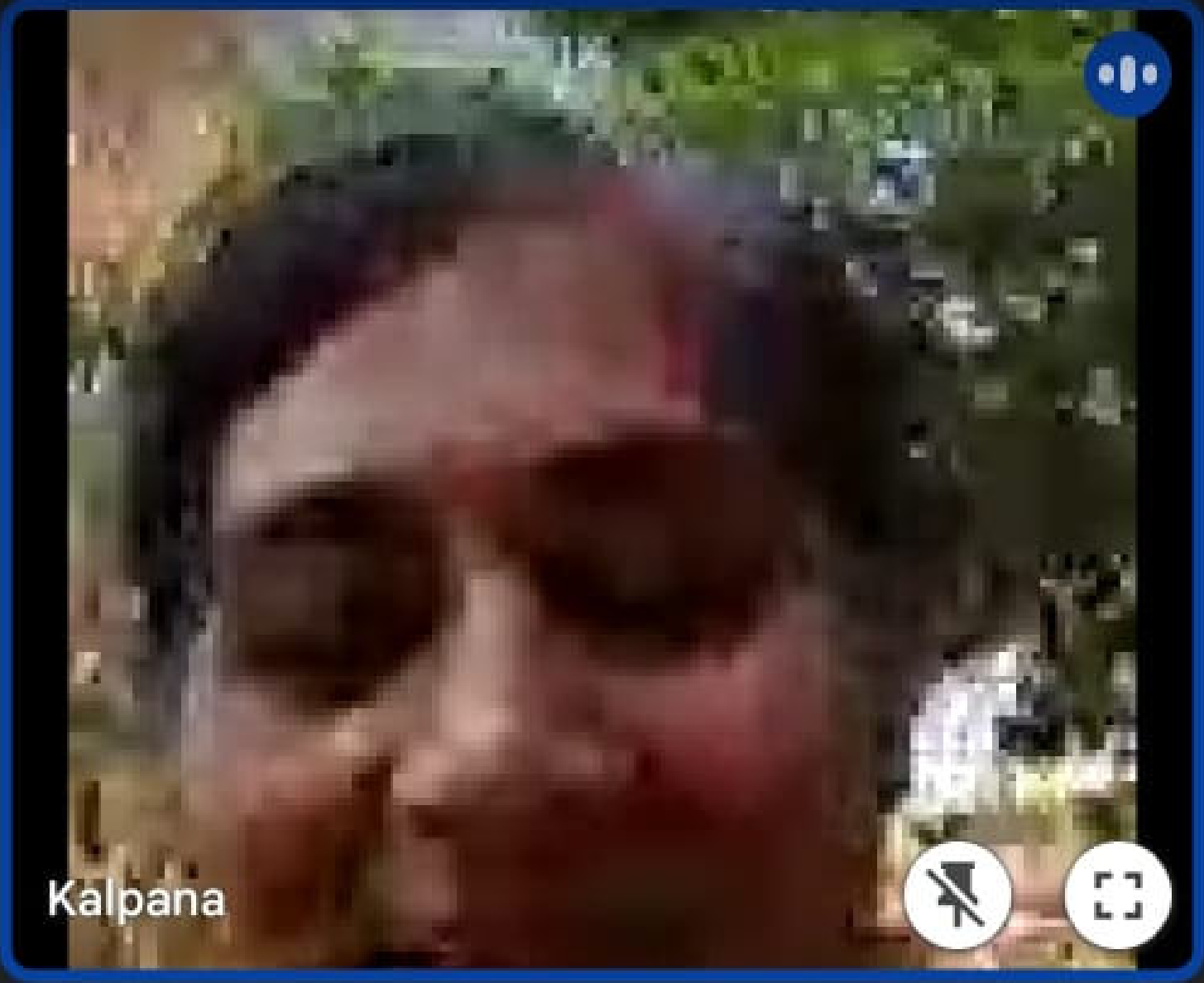
In call

-  **Imara Mahreen I-B (Y...**  
Meeting host
-  **Aadarsh Chaurasiya**  
-  **Annpurna Sharma**  
-  **drasha sharma**  
-  **Golu Satnaami**  
-  **Lakshyika Gautam**  
-  **Prashant Udeniya**  
-  **S.D. Singh**  
-  **Sandhya Bhaware**  
-  **Saniya Khan**  
-  **Sutesh Maravi**  
-  **Vinay Narvariya**  

**Calls and notifications will vibrate**

Call control overlay showing:

- 
-  You
-  S.D.
-  +10



# About this call

People

Information

Add others

Share joining information

Search for someone in this call

In call

 priyanka lodhi (You)

 Kalpana Dave  
Meeting host  

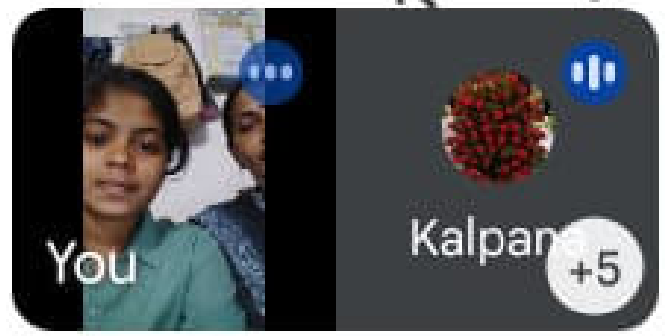
 NIDHI SAHU  

 Nikita Thakur  

 pooja jaiswar  

 pooja SINGH  

 Surbhi Tiwari  



Video call thumbnails showing 'You' and 'Kalpana Dave +5'.

# About this call

## People

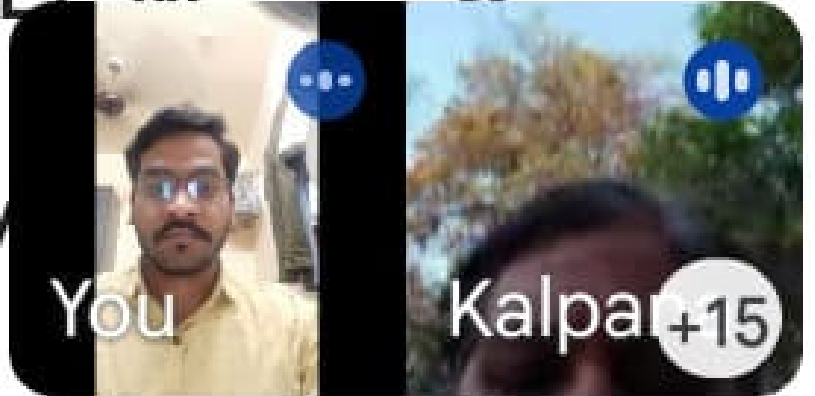
## Info



DEEPALEE M



JEETU M



NIDHI SAHU



Nikita Thakur



pooja jaiswar



pooja SINGH



Pritam Saryam



priyanka lodhi



Rambabu Bhil...



Saloni Soni





Surbhi Tiwari








Dr. Neetu... 




Rohit 




Shubhan... 




Govind 




Chemistry 



yogesh 



You 



Ritik 39 others 



## **Best Practice II**

### **Title of the Practice – Philanthropic Responsibility of the Institution**

#### **Objectives:**

- To provide assistance to the people affected by the Covid-19 pandemic.
- To give them financial, medical aid as well as essential items (edibles).
- To generate awareness for social responsibility among the faculty & the students.

#### **Context:**

The college decided to undertake humanitarian activity not only during pandemic but also after that.

#### **Practice:**

With the kind consent of the principal, it was decided to provide relief and support to those in need specially during lockdown period. Professors volunteered and contributed money for this noble cause. Rations & other essentials were purchased with the amount collected, packets were prepared & distributed with the help of Gurudwara volunteers, college students & ex-student also.

#### **Evidence of the Success:**

Regular distribution of rations to the needy brought smiles on their faces. It saved them from hunger. This created a feeling of oneness among them. It also developed a feeling of social responsibility among students. The teaching staff as well as the students of the college have pledged to extend help to the needy from time to time.

The best practices carried out by the institute enhanced the social responsibility of the students, their ability of sharing and caring, reciprocity and co-operation.


The undergraduate program students were motivated by this practice and many students have chosen “Community Engagement” as project-work under NEP-2020 in the session 21-22.

#### **Problems:**

- To differentiate between the needy and greedy is difficult.
- To Choose the non-working days for this worthy cause is also equally difficult.

#### **Note:**

- Apart from the distribution of edibles, various other activities like ‘health check-up camp’, distribution of eco-friendly bags clothes etc. were also conducted in the adopted village ‘Gram Borda’.
- Another extraordinary effort made by the college staff was donation during the pandemic. The 100 percent staff of the college contributed collectively apart from contributing personally a significant amount. The practice is still being continued.

  
Principal  
Govt. Dr. Shyama Prasad  
Mukherjee Science & Commerce  
P.G. College BHOPAL (M.P.)



Ration distribution. ..faces are not visible clearly..that's why I hv just put some photos  
10:30 pm ✓







Transaction ID  
T2105101442283905407904



Paid to



Om Traders

₹11,000

Debited from



\*\*\*\*\*6446

UTR:113007919333

₹11,000



Money sitting idle in your bank account?

Move it to Liquid Funds and give it a chance to grow >

Rate the store

Share your experience to help others





Lecture 2022-01-08



Classroom 08 Jan'22

0 Views

[See Students List](#)



Lecture 2021-12-08



Classroom 08 Dec'21

8 Views

[See Students List](#)



Lecture 2021-12-08



Classroom 08 Dec'21

4 Views

[See Students List](#)



Lecture 2021-12-08



Classroom 08 Dec'21

4 Views

[See Students List](#)



## गोद ग्राम संबंधी प्रतिवेदन

(2021-22)

मध्य प्रदेश उच्च शिक्षा विभाग मंत्रालय भोपाल के आदेश क्रमांक 132 /32/रासेयो/2021/38 भोपाल दिनांक 8:03 2021 के परिपालन में महाविद्यालय द्वारा गोद ग्राम अधिग्रहण हेतु सलाहकार समिति का गठन शासन के आदेश अनुसार किया गया समिति में महाविद्यालय की प्राचार्य डॉ सरोज श्रीवास्तव के अलावा डॉ माधवी लता दुबे, डॉ.संगीता गुप्ता, डॉ राकेश सक्सेना, डॉ. के के मिश्रा, डॉ मधुसूदन प्रकाश, डॉ. हेमलता वर्मा ,डॉ. सरला पटेल, डॉ. मुकेश नापित एवं डॉ.एकता पाल समिति के सदस्य नामित किए गए।

समिति की पहली बैठक दिनांक 16/6/21में गोद ग्राम की कार्ययोजना के संबंध में आयोजित की गई जिसमें 'ग्राम बोर्दा' में स्वास्थ्य पोषण जागरूकता, स्कूल में स्वच्छता कार्यक्रम का संदेश देना ,पर्यावरण संरक्षण और ग्रामीण महिलाओं को रोजगारपरक गतिविधियों की जानकारी देना शामिल किया गया। दिनांक 7 /8/21 में ग्राम बोर्दा में वृक्षारोपण के लिए महाविद्यालय के विद्यार्थी एवं समिति सदस्य उपस्थित हुए। दिनांक 5 अक्टूबर 21 को ग्राम बोर्दा में समिति के सदस्यों द्वारा शासकीय योजनाओं की जानकारी प्रदान करने हेतु ग्राम वासियों से संपर्क किया गया। 3 फरवरी 2022 को ग्राम बोर्दा में स्कूलों में छात्र-छात्राओं के बीच संपर्क करके उन्हें स्वच्छता जागरूकता के तहत शारीरिक सफाई और आसपास के पर्यावरण के प्रति जागरूक होने के संबंध में जानकारी प्रदान की। कोरोना काल में उत्पन्न स्वास्थ्य संबंधी चुनौतियां से राहत हेतु स्वास्थ्य जागरूकता और वैक्सीन से सुरक्षा दो महत्वपूर्ण पहलें थी।

महाविद्यालय की गोद ग्राम समिति और राष्ट्रीय सेवा योजना के संयुक्त तत्वावधान में इन दोनों पहल पर सुनियोजित ढंग से कार्य किया गया और स्थानीय ग्राम वासियों को वैक्सीन तक पहुंच कैंप के माध्यम से सुलभ बनाई गई।

सत्र 22 -23 की गोद ग्राम कार्ययोजना में ग्रामीण किशोरी बालिकाओं के स्वास्थ्य ,पोषण एवं स्वच्छता जागरूकता के साथ महिलाओं के लिए स्वयं सहायता समूह की जानकारी उपलब्ध कराना और प्रेरित करना एवं खेती में जैविक उत्पादों के प्रति ग्राम वासियों का रुझान विकसित करना शामिल है।



सत्र 2021-22 शिविर प्रस्थान एवं उद्घाटन कार्यक्रम



शिविर स्थल पर कोविड 19 वेक्सीनेशन गतिविधि



शिविर स्थल पर वृक्षारोपण गतिविधि



शिविर स्थल पर योग एवं व्यायाम गतिविधि



शिविर स्थल पर स्वल्पहार एवं बौद्धिक सत्र गतिविधि





शिविर स्थल पर ग्राम में स्वच्छता परियोजन कार्य



शिविर स्थल पर स्वास्थ्य जागरूकता गतिविधि



शिविर स्थल व ग्राम में शैक्षणिक सर्वे गतिविधि



शिविर स्थल पर वृक्षारोपण गतिविधि



शिविरार्थियों द्वारा गरीब बच्चों को शैक्षणिक सामग्री प्रदाय



शिविर स्थल व आंगनवाड़ी केन्द्र पर सफाई अभियान



शिविरार्थियों द्वारा आयोजित खेल एवं सांस्कृतिक गतिविधि



8x8- 1 FL

शासकीय डॉ. श्यामा प्रसाद मुखर्जी विज्ञान एवं वाणिज्य महाविद्यालय  
(पुराना बेनजीर) भोपाल म.प्र.

## राष्ट्रीय सेवा योजना

**सात दिवसीय विशेष शिविर**  
सत्र :- 2021-22

शिविर अवधि :- 25/02/2022 से 03/03/2022  
शिविर स्थल :- ग्राम बोरदा, भोपाल  
थीम - स्वास्थ्य, जनस्वच्छता एवं व्यक्तिगत स्वास्थ्य



शिविर समापन व शिविरार्थियों को प्रमाण पत्र वितरण



## एनएसएस इकाई द्वारा रक्तदान शिविर का आयोजन

भोपाल। शासकीय डॉ. श्यामा प्रसाद मुखर्जी विज्ञान एवं वाणिज्य स्नातकोत्तर महाविद्यालय, कोलार रोड, भोपाल में रक्तदान शिविर का आयोजन किया गया। राष्ट्रीय सेवा योजना इकाई



द्वारा महाविद्यालय परिसर में सैम ग्लोबल विश्वविद्यालय के तत्वावधान में ब्लड डोनेशन कैम्प का एक दिवासीय शिविर आयोजित किया गया जिसमें महाविद्यालयीन प्राध्यापक, स्टाफ एवं राष्ट्रीय सेवा योजना इकाई के स्वयं सेवकों की सहभागिता रही। रक्तदान शिविर में लगभग 20 महाविद्यालयीन स्टाफ व विद्यार्थियों द्वारा 60 यूनिट रक्तदान किया गया।

## राष्ट्रीय सेवा योजना इकाई द्वारा शिविर का आयोजन



भोपाल (आरएनएन)। शासकीय डॉ. श्यामा प्रसाद मुखर्जी विज्ञान एवं वाणिज्य महाविद्यालय कोलार रोड भोपाल की राष्ट्रीय सेवा योजना इकाई द्वारा 25 फरवरी से 3 मार्च तक इकाई स्तरीय कैंप का आयोजन ग्राम पंचायत बोरदा में किया जा रहा है। शिविर का शुभारंभ एवं शिविर स्थल के लिए रवानगी हरी झंडी दिखाकर महाविद्यालय प्राचार्य डॉ सुधा बैसा द्वारा किया गया। इस अवसर पर महाविद्यालय प्राध्यापक गण, स्टाफ, कार्यक्रम अधिकारी एवं शिविरार्थियों की उपस्थिति रही। शिविर स्थल पर शिविर के प्रथम दिवस का शुभारंभ ग्राम पंचायत बोरदा के सरपंच सुनीता तोमर, समीम बेगम, सरबर खॉन व सचिव भगवान सिंह कीर द्वारा दीप प्रज्ज्वल कर किया गया। शिविर अवधि के दौरान शिविरार्थियों द्वारा जन जागरूकता कार्यक्रमों का आयोजन कर ग्रामीणों को जागरूक किया जाएगा। जिसमें मुख्य रूप से जनस्वास्थ्य जागरूकता, कोरोना बचाव, मतदाता जागरूकता, स्वच्छता अभियान, जल संरक्षण, ऊर्जा संरक्षण, वनसंरक्षण, पकृति संरक्षण, पॉलीथिन स्वच्छता अभियान, सोखता गद्दों का निर्माण व अन्य जागरूकता गतिविधियों का आयोजन किया जायेगा। शिविर का संचालन कार्यक्रम अधिकारी डॉ. मुकेश नापित व डॉ. मधुसूदन प्रकाश द्वारा किया जा रहा है।

## एआईसीटीई की गाइडलाइन के इंतजार में कॉलेज संचालक

भोपाल। अखिल भारतीय तकनीकी शिक्षा परिषद (एआईसीटीई) से नये सत्र की गाइडलाइन भी जारी नहीं की गई हैं। इसके चलते सूबे में सत्र 2022-23 में नये कॉलेजों को स्थापित करने के लिये सोसायटी

इंतजार कर रही हैं, क्योंकि पिछले दो साल से एआईसीटीई ने बीई और



फार्मैसी के नये कालेजों को स्थापित करने की मंजूरी नहीं दी है। तीसरे साल में गाइडलाइन नये कालेजों को स्थापित करने की मंजूरी देता है, जिसे लेकर सभी चिंतित हैं। इसके अलावा जेईई मैस और एडवांस का कोई कार्यक्रम भी जारी नहीं किया गया। इसके चलते तकनीकी शिक्षा विभाग की सभी गतिविधियां रुकी हुई हैं।

## डॉ. श्यामा कॉलेज ने बोरदा में लगाया NSS का कैंप

भोपाल। डॉ. श्यामा प्रसाद मुखर्जी विज्ञान एवं वाणिज्य कॉलेज की राष्ट्रीय सेवा योजना इकाई (एनएसएस) द्वारा ग्राम पंचायत बोरदा में कैम्प का आयोजन किया गया। शिविर स्थल के लिए रवानगी करने कालेज प्राचार्य डॉ.

सुधा बैसा द्वारा हरी झण्डी दिखाई गई। इस दौरान प्रो. सुधांशु द्विवेदी, एसके

मल्होत्रा, राजेश श्रीवास्तव सहित अन्य प्रोफेसर, अधिकारी एवं बड़ी संख्या में विद्यार्थी मौजूद थे। ग्राम पंचायत बोरदा की सरपंच सुनीता तोमर, समीम बेगम, सरबर खॉन व सचिव भगवान सिंह कीर की शिविर में अहम भूमिका रही।



अनुबंध द्वारा अन्य तान राज्या म भा सचालत करन का याजना ह।

## एनएसएस इकाई का सात दिवसीय नेतृत्व प्रशिक्षण शिविर



भोपाल। शासकीय डॉ. श्यामा प्रसाद मुखर्जी विज्ञान एवं वाणिज्य महाविद्यालय, कोलार रोड भोपाल की छात्र एनएसएस इकाई का सात दिवसीय विशेष नेतृत्व प्रशिक्षण शिविर गोदग्राम ग्राम पंचायत बोदरा में संचालित किया जा रहा है। शिविर अवधि के दौरान शिविरार्थियों द्वारा प्रभात फेरी, योग, ध्यान व प्रणायाम के साथ परियोजना कार्य के अंतर्गत पंचायत सामुदायिक परिसर व गांव में साफ-सफाई, समतलीकरण कर स्वच्छता का संदेश प्रसारित कर रहे हैं। साथ ही ग्राम उदय से भारत उदय के अनुक्रम में स्वच्छता व मतदाता जागरूकता रैली के माध्यम से हर जन को दो यह संदेश स्वच्छ सुंदर हो अपना देश, स्वच्छता का दीप जलाएंगे चारों ओर उजाला फैलाएंगे का प्रचार प्रसार कर रहे हैं। शिविरार्थियों द्वारा शैक्षणिक जागरूकता को बढ़ावा देने के उद्देश्य से गांव के अनमोल एकेडमी स्कूल परिसर में शैक्षणिक गतिविधि आयोजित कर आर्थिक रूप से कमजोर ग्रामीण बच्चों को निःशुल्क शैक्षणिक सामग्री पेन, पेन्सिल रबर, कटर कॉपी रजिस्टर व ड्राइंग सामग्री का वितरण किया गया। मुख्यमंत्री शिवराज सिंह चौहान मंत्र शासन के जन्मदिवस के अवसर पर पंचायत परिसर गोद ग्राम-बोरदा में ही महा. रासेयो इकाई के शिविरार्थियों द्वारा विभिन्न प्रकार के लगभग 20 पौधे रोपितकर पौधरोपण गतिविधि आयोजित की गई। इस गतिविधि के दौरान श्रीमती सुनीता बचन सिंह तोमर, सरपंच, श्रीमती शमीम सरवर खान उप सरपंच, भगवान सिंह कीर सचिव, बीएस एण्डन मैनेजर बैंक वसंती सिसोदिया-आगनवाड़ी प्रभारी, डॉ. मुकेश नापित, डॉ. मधुसूदन प्रकाश, कार्यक्रम अधिकारी रासेयो व शिविरार्थियों की उपस्थिति रही।

पु अण्य १८।५५ १५१५ ०५।१५।। ५।

## एनएसएस इकाई द्वारा रक्तदान शिविर का आयोजन

भोपाल। शासकीय डॉ. श्यामा प्रसाद मुखर्जी विज्ञान एवं वाणिज्य स्नातकोत्तर महाविद्यालय, कोलार रोड, भोपाल में रक्तदान शिविर का आयोजन किया गया। राष्ट्रीय सेवा योजना इकाई



द्वारा महाविद्यालय परिसर में सैम ग्लोबल विश्वविद्यालय के तत्वावधान में ब्लड डोनेशन कैम्प का एक दिवसीय शिविर आयोजित किया गया जिसमें महाविद्यालयीन प्राध्यापक, स्टाफ एवं राष्ट्रीय सेवा योजना इकाई के स्वयं सेवकों की सहभागिता रही। रक्तदान शिविर में लगभग 20 महाविद्यालयीन स्टाफ व विद्यार्थियों द्वारा 60 यूनिट रक्तदान किया गया।