

## **Activities Report Zoology Department:** **From April 2020-April 2021**

To draw the students out of the depressed atmosphere imposed by the sudden pandemic lockdown and engage them in an creative way,  
A poster making competition was organized by 'OYSTER' the Zoological society, in the last week of April. The theme for the poster was entitled 'Psychological, Socio-Economic and Health Effect Of Covid-19 Pandemic'.

21 Entries from all over India were received.



A six-week online summer training program "COVID-19: Epidemiology & Impacts" was held at national level (June 15- July 25, 2020) under Star College scheme.

### **Online summer training program "COVID-19: Epidemiology & Impacts"**



**SHIVAJI COLLEGE**

NAAC ACCREDITED GRADE "A"  
(UNIVERSITY OF DELHI)



**DEPARTMENT OF ZOOLOGY**  
(UNDER THE AEGIS OF DBT STAR COLLEGE SCHEME)  
Organizes

**"COVID-19 : Epidemiology and Impacts"**  
**ONLINE SUMMER TRAINING INTERNSHIP**  
(15<sup>th</sup> June – 26<sup>th</sup> July, 2020)  
(For Undergraduate Students)

For registration :  
Scan the QR code



Or on the link: [https://docs.google.com/forms/d/e/1FAIpQLSfxyQoeu4hDG\\_d09Nm-Oyt-lx22QMaJLiuiPkSAz0GL0wU7CQ/viewform?usp=sf\\_link](https://docs.google.com/forms/d/e/1FAIpQLSfxyQoeu4hDG_d09Nm-Oyt-lx22QMaJLiuiPkSAz0GL0wU7CQ/viewform?usp=sf_link)

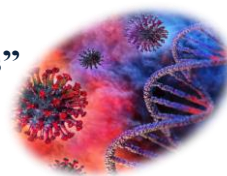
Last Date: 14<sup>th</sup> June 2020 (12 :00 pm)

Convener  
Dr. Deepika Yadav  
Co-Convener  
Ms. Nimita Kant

Coordinator  
Dr. Darshan Malik

**Virtual training will be held  
on: Google Meet/ Zoom**

Patron  
Dr. Shiv Kumar Sahdev  
Principal (Acting)



A six week Online Summer Training Internship entitled “**COVID-19: Epidemiology & Impacts**” was conducted by the Department of Zoology, Shivaji College under the aegis of DBT Star College Scheme from 15<sup>th</sup> June -25<sup>th</sup> July, 2020. The topic was chosen to impart knowledge about the grave pandemic that has enveloped the globe in an unprecedented situation today. In-depth comprehensive teaching modules about various aspects of COVID-19 were taught with hands on activities that highlighted the following:

- Biology of COVID-19
- Public Health & Epidemiological studies with respect to COVID-19 <sup>[L]</sup><sub>SEP</sub>
- Laboratory diagnosis of infections caused by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2)
- Reverse Vaccinology : a relevant technique for vaccine generation in the post-pandemic era
- Impact of COVID-19 on wildlife- its study and scope
- COVID-19 & Environment

There were more than 150 participants all over the country from various Universities such as Aligarh Muslim University, Govt. P. G College for Women, Udai pratap Autonomous college Varanasi, Indira Gandhi National Open University (IGNOU) and many Delhi University Colleges such as Sri Venkateswara College, Ramjas College, Deen Dyal Upadhyaya College, Gargi, Kalindi, Rajdhani, Acharya Narendra Dev College, Zakir Husain Delhi College, Bhaskaracharya College of Applied Sciences and Daulat Ram College. Total 107 participants successfully completed the rigorous training program. The feedback obtained from the participants was overwhelming and we hope to conduct many such events in the future.

**Teachers involved :**

**Dr. Deepika Yadav (Convener)**

**Ms. Nimita Kant (Co-convener)**

**Dr. Aeshna Nigam**

**Dr. Jitendra K Chaudhary**

**Dr. Parul Kulshreshtha**

**Dr. Ankita Dua**

**Dr. Neetu Singh**

**Dr. Tarun K Vats**

**Dr. Nidhi Garg**

**Dr. Rakesh Roshan**

zoom.us Meeting View Edit Window Help Zoom Meeting 99% Thu 11:40 am

Participants (117)

Recording

**Losses to follow-up**  
Loss to follow-up is a particular problem associated with cohort studies. Bias may be introduced if the individuals lost to follow-up differ with respect to the exposure and outcome from those persons who remain in the study.

**Berksonian bias**  
Berkson's bias is a type of selection bias. It can arise when the sample is taken not from the general population, but from a subpopulation. It was first recognised in case control studies when both cases and controls are sampled from a hospital rather than from the community

**Hawthorne effect**  
The Hawthorne effect (also referred to as the observer effect) is a type of reactivity in which individuals modify an aspect of their behavior in response to their awareness of being observed.

zoology depa...

Dr.Deepika Yadav (Co-host, me) ☐ ☐

zoology depar... (Host) ☐ ☐

zoology department (Co-host) ☐ ☐

Rakesh Roshan ☐ ☐

Dr. Tarun Kumar Vats ☐ ☐

Gurleen Bagga ☐ ☐

Kalash Gu... ☐ ☐

Lavanya Singh (ST6) ☐ ☐

Nitika Vaid ☐ ☐

Shikha ST 186 ☐ ☐

ST -67 Rahul Kaushik ( Shiv... ☐ ☐

ST 100, Mansi Gupta, Shiva... ☐ ☐

ST 110 PRACHI ☐ ☐

ST 119 Sonam (Shivaji college) ☐ ☐

zoom.us Meeting View Edit Window Help Zoom Meeting 42% Thu 12:32 pm

Dr.Deepika Y...

Chat

From ST 133 RIYA THOMAS to Everyone:  
Can the fluid which gets accumulated in the lungs be removed using radiation therapy? how much effective would radiation therapy be?

From ST 129 Lishika to Everyone:  
sir in that case how will the herd community will be created if the person gets the disease again?

From ST 122 Surinder Singh Shivaji College to Everyone:  
why we would not check blood group becoz we give the antibody and may be the antibody of the donor fight with the antigen of the receiver person

From ST 70 Sakshi sharma shivaji college to Everyone:  
sir how do we differentiate that virus is natural or created as in news we sometimes heard that its a bioweapon how some people claim that

From ST 122 Surinder Singh Shivaji College to Everyone:  
Which factor control the cytokinesis release means in some people it doesn't cross threshold and in some it do cross the threshold

To:

Type message here...

amCharts

CHART TITLE

NUMBER OF CASES

DELHI TAMIL NADU MAHARASHTRA

CASE ACTIVE RECOVERED DEATH

Category	Case	Active	Recovered	Death
DELHI	47162	27741	17547	1904
TAMIL NADU	50193	21993	27624	576
MAHARASHTRA	116752	51935	59166	5651

**SUMMER INTERNSHIP TRAINING: TAKE AWAY MESSAGE**

- Developing nation-wide networking to broaden ones knowledge horizon
- Every topics in acadmia has multilayerd complexity and dimensions and hence require multifaceted approach to develop holistic understanding for benefit of society

1. Multiple aspects → 6-modules → H O L I S T I C

2. Systematic order → 6-modules → U N D E R S T A N D I N G

3. Thorough explication and analysis → 6-modules → Q & A

4. Discussion and deliberation → 6-modules → Q & A

**Steps of LAMP**

- 1. For example, the sequences (typically 23-24 nt) inside both ends of the target region for amplification in a DNA are designated F2c and B2, respectively
- 2. Two inner sequences (typically 23-24 nt) 40 nt from the ends of F2c and B2 are designated F1c and B1 and two sequences (17-21 nt) outside the ends of F2c and B2 are designated F3c and B3
- 3. FIP contains F1 sequence and the sequence (F2) complementary to F2c while BIP contains the sequence (B1c) complementary to B1
- 4. The two outer primers consist of B3 and the sequence (F3) complementary to F3c, respectively
- 5. A DNA sample containing the target sequence and the four primers is heat denatured and rapidly cooled on ice.
- 6. The LAMP reaction is then initiated by addition of the Bst DNA polymerase large fragment and carried out at 65°C for 1 h.

**A. I. Starting material producing step**

1. FIP, BIP, F1c, B1c, F3c, B3

2. FIP, BIP, F1c, B1c, F3c, B3

3. FIP, BIP, F1c, B1c, F3c, B3

4. FIP, BIP, F1c, B1c, F3c, B3

5. FIP, BIP, F1c, B1c, F3c, B3

6. FIP, BIP, F1c, B1c, F3c, B3



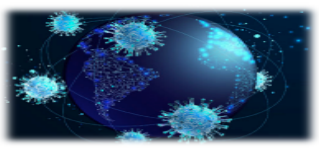
**A webinar was held on ‘Epidemiology, Detection, Treatment and Comparative Genomics of SARSCoV-2 and Managing Personal and Professional Life During COVID-19 Pandemic and Lockdown’ on July 9, 2020 on virtual platform under Star College scheme. WEBINAR ORGANIZED:**

**Topic of the Talk:** “Epidemiology, Detection, Treatment and Comparative Genomics of SARS-CoV-2 and Managing Personal and Professional Life during COVID-19 Pandemic and Lockdown”



**Speaker:** Professor Rup Lal  
FNA, FNASc, FNAAS  
NASI Senior Scientist Platinum Jubilee Fellow  
The Energy and Resources Institute  
Beneficiaries: 150 students & faculties

A webinar was organized by the Department of Zoology on 9<sup>th</sup> July, 2020 at 11 am on Zoom Platform entitled, **“Epidemiology, Detection, Treatment and Comparative Genomics of SARSCoV-2 and Managing Personal and Professional Life During COVID-19 Pandemic and Lockdown”**, under the aegis of DBT sponsored Star College Scheme. The guest speaker for the event was renowned academician Prof. Rup Lal. The webinar was an inter-college, pan India event with over 150 participants including students and faculty. Dr. Deepika Yadav, Convener, Star College Scheme, Department of Zoology welcomed the guest, Prof. Rup Lal, Dr. Shiv Kumar Sahdev, Principal, Shivaji College and all participants. Dr. Shiv Kumar Sahdev conveyed his best wishes for a fruitful event through his encouraging words. Dr. Aeshna Nigam elaborated on Professor Rup Lal’s career achievements. Prof. Lal spoke at length about the molecular aspect of the pandemic, biology of the virus, mosaic pattern of its transmission and his research related on it. His papers spanning the comparative genomics of various *Coronavirus* species were very well described and it was interesting to know that maximum evolution is occurring at the level of RNA replication and processing genes. He even pointed out how the different geographical strains had altered genomic aspects. Such papers can lead to a lot of answers regarding impending vaccine development for the pandemic strain. His message through the webinar focused on ‘Microbiology literacy for the society’ where he conveyed how the role of microorganisms must be highlighted to the general public especially educate children about it. He also gave real life examples of how to handle our personal and professional lives in this unprecedented situation. He stressed on making the pandemic a learning opportunity, to polish our skill set, spend time with family and focus on personal health. At the end of his lecture, a number of questions were discussed at length with Prof. Lal. The webinar ended with vote of thanks by Dr. Ankita Dua. An overwhelming feedback was obtained by the participants via Google forms, especially faculty all over the country really appreciated Prof. Lal’s presentation.

	<b>SHIVAJI COLLEGE</b> NAAC ACCREDITED GRADE “A” (UNIVERSITY OF DELHI)	
<b>DEPARTMENT OF ZOOLOGY</b> (UNDER THE AEGIS OF DBT STAR COLLEGE SCHEME)		
<b>Organizes a webinar</b> on		
<b>“Epidemiology, Detection, Treatment and Comparative Genomics of SARS-CoV-2 and Managing Personal and Professional Life During COVID-19 Pandemic and Lockdown”</b>		
For registration : Scan the QR code	<b>Speaker</b> <b>Prof. Rup Lal</b>  <b>(11 A.M. 9<sup>th</sup> July, 2020)</b>	
Or on the link: <a href="https://docs.google.com/forms/d/e/1FAIpQLScL_SKE4hMzRH0D_wpyUip55pqQ4uTEmOxP2i5G7M-LacF-Xg/viewform?usp=sf_link">https://docs.google.com/forms/d/e/1FAIpQLScL_SKE4hMzRH0D_wpyUip55pqQ4uTEmOxP2i5G7M-LacF-Xg/viewform?usp=sf_link</a>		<b>Webinar will be held on:</b> <b>Zoom</b>
Last Date: 8 <sup>th</sup> July 2020 (12 :00 pm)		
<b>Convener</b> Dr. Deepika Yadav <b>Co-Convener</b> Ms. Nimita Kant	<b>Coordinator</b> Dr. Darshan Malik	<b>Patron</b> Dr. Shiv Kumar Sahdev Principal (Acting)



## Webinar “Importance of IPR in Pandemic situation: Special focus on Expedite Patent Processing”

WEBINAR ORGANIZED:

**Topic of the Talk:** “Importance of IPR in Pandemic situation: Special focus on Expedite Patent Processing”

**Speaker:** Dr. Kumar Karitkey Yadav

Examiner of Patents & Designs


Patent Office Delhi

On 11th July, 2020 at 11:00 a.m.

Beneficiaries: 199 students & faculties


A webinar was organized by the Department of Zoology on 11<sup>th</sup> July, 2020 at 11 am on Zoom Platform entitled “**Importance of IPR in Pandemic situation: Special focus on Expedite Patent Processing**” under the aegis of DBT sponsored Star College Scheme. The guest speaker for the event was Dr. Kumar Karitkey Yadav, Examiner of Patents & Designs Patent Office, Delhi. The webinar was an inter-college, pan India event with 199 participants including students and faculty. Dr. Deepika Yadav, Convener, Star College Scheme, Department of Zoology welcomed the guest, Dr. Kumar Karitkey Yadav, Dr. Shiv Kumar Sahdev, Principal, Shivaji College and all participants. Dr. Shiv Kumar Sahdev inaugurated the webinar with his encouraging words. Dr. Aeshna Nigam elaborated on Dr. Kumar Karitkey Yadav’s career profile. Dr. Yadav gave a comprehensive presentation on the topic ‘intangible creations of human intellect’. Intellectual property rights or IPR is a very upcoming topic of discussion these days and he explained the concept right from the very basic upto the current scenario in the pandemic situation. He spoke about advantages of patents to academicians, rights & responsibilities of patent owners, step by step guidance of online & offline patent applications and a lot more. He also spoke about the current drug in the market for COVID patients, Remdesvir, its patent, production and usage for treatment. He had a brilliant pool of knowledge related to subject which he described in an extensive presentation. The webinar ended with

vote of thanks by Dr. Ankita Dua. All participants at the end of the webinar filled a feedback form and unanimously appreciated Dr. Kumar Karitkey Yadav's lecture.



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### DEPARTMENT OF ZOOLOGY


(UNDER THE AEGIS OF DBT STAR COLLEGE SCHEME)

**Organizes a webinar**

on

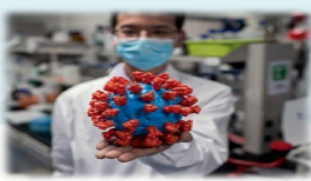
## “Importance of IPR in Pandemic situation: Special focus on Expedite Patent Processing”

**For registration :**  
Scan the QR code



Or on the [https://docs.google.com/forms/d/e/1FAIpQLSfAY73Jb17sbgOv2xHTcbS0UsWHJSSGpdor7bakmh8luSKb-Q/viewform?usp=sf\\_link](https://docs.google.com/forms/d/e/1FAIpQLSfAY73Jb17sbgOv2xHTcbS0UsWHJSSGpdor7bakmh8luSKb-Q/viewform?usp=sf_link)  
Last Date: 10<sup>th</sup> July 2020 (12 :00 pm)

**Speaker**  
**Dr. Kumar Karitkey Yadav**  
Examiner of Patents & Designs  
Patent Office Delhi  
(11 A.M. 11<sup>th</sup> July, 2020)



**Webinar will be held on:**  
**Zoom**

**Convener**  
**Dr. Deepika Yadav**  
**Co-Convener**  
**Ms. Nimita Kant**

**Coordinator**  
**Dr. Darshan Malik**

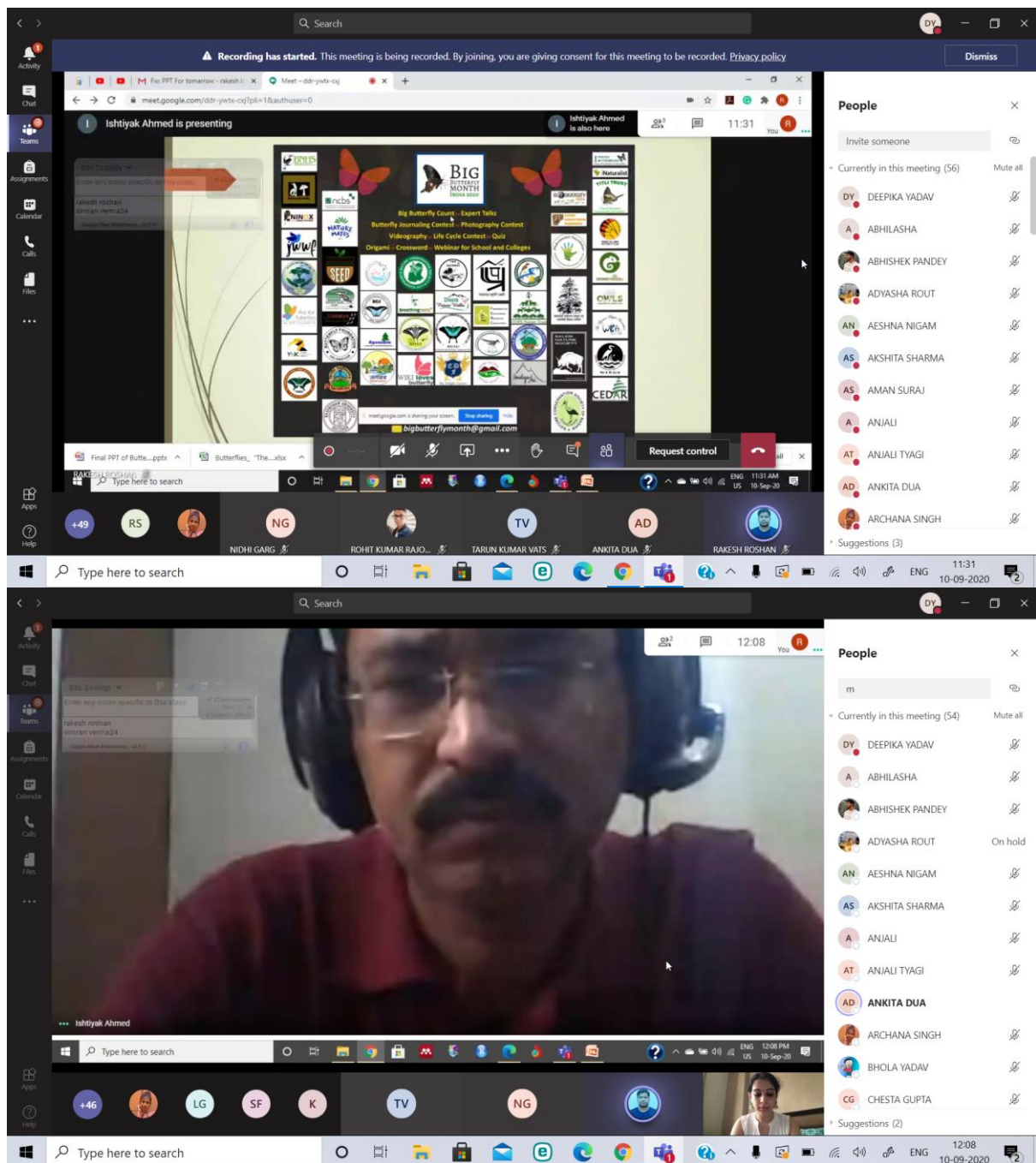
**Patron**  
**Dr. Shiv Kumar Sahdev**  
**Principal (Acting)**



The Department organized a webinar on, “ Butterflies: The Winged Jewels”, on 10<sup>th</sup> September 2020 in collaboration with Bombay Natural History Society & Conservation Education Centre Delhi as a sensitization program for students under Big Butterfly Month India 2020, As part of an annual affair with the explicit purpose of highlighting the status of butterflies in our capital. Education Officer CEC -BNHS Dr. Ishtiyak Ahmed was the resource person for the event.

Webinar on “Butterflies: The Winged Jewels” by Dr. Ishtiyak Ahmed, Education officer (CEC) on virtual platform MS Teams and Google Meet  
Beneficiaries: 56 students and faculties





Webinar on, **“Combating the millennium pandemic: Diagnostics & Infection prevention”** by Dr. Devjani De, Head, Microbiology, Dr. Dang’s Lab

Date: 18.9.2020

Participants: ~98 students & faculties

To keep our students and faculties safe and abreast with the latest developments about the pandemic a Webinar entitled “Combating the millennium pandemic: Diagnostics & Infection prevention” by Dr. Devjani De, Head, Microbiology, Dr. Dang’s Lab was held on September 18<sup>th</sup> 2020 on Google Meet.

Participants were immensely benefitted to have the diagnostic and preventive measures direct from the horse’s mouth.





# SHIVAJI COLLEGE

NAAC ACCREDITED GRADE "A"

(UNIVERSITY OF DELHI)



## DEPARTMENT OF ZOOLOGY

(UNDER THE AEGIS OF IQAC)

ORGANIZES A WEBINAR

### COMBATING THE MILLENNIUM PANDEMIC: DIAGNOSTICS AND INFECTION PREVENTION



DATE : 18<sup>th</sup> September 2020

TIME : 5:30 p.m.-6: 30 p.m.

Platform: Google Meet

Scan the QR code or use the following  
link for the registration:

[https://docs.google.com/forms/d/e/1FAIpQLSfSBwfUqUW6Pvt1Vsa50tGkaXcefX2Hh7naxso-nhz8sF-ujQ/viewform?usp=sf\\_link](https://docs.google.com/forms/d/e/1FAIpQLSfSBwfUqUW6Pvt1Vsa50tGkaXcefX2Hh7naxso-nhz8sF-ujQ/viewform?usp=sf_link)



By

**Dr. Devjani De**

Head Microbiology (Gold Medalist)

Dr. Dangs Lab LLP

Member Executive Committee IAMM

**Convener:**

**Dr. Deepika Yadav**

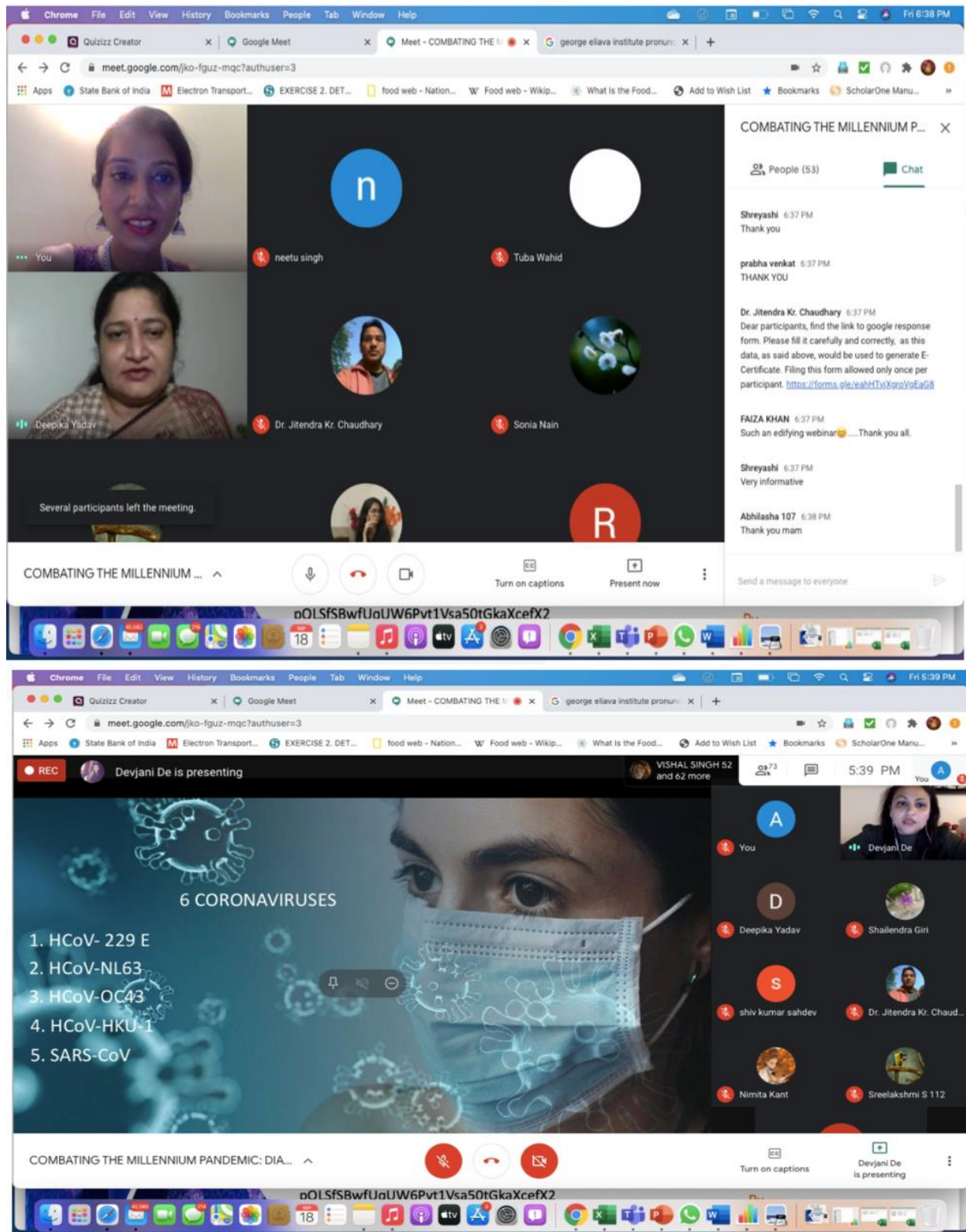
(Teacher- In- charge)

Department of Zoology

**Patron:**

**Dr. Shiv Kumar Sahdev**

(Principal)



Webinar on, “ **Plastics & Endocrine Disruption: A 21<sup>st</sup> Century Update**”, by Dr. (Prof.) Deep Dutta, D.M. Endocrinology FRCP, FACE  
 Date: 24.9.2020  
 Participants: 110 students & Faculties

Although Covid 19 has shifted the global attention to its march, there are some environmental and health related issues which require our urgent attention. Plastic usage is definitely one of them. So a webinar was conducted on, “Plastics & Endocrine Disruption: A 21<sup>st</sup> Century Update”, on 24<sup>th</sup> September 2020 under the aegis of DBT Star College Scheme by the Department of Zoology. The guest speaker for the webinar was Dr. (Prof.) Deep Dutta, D.M. Endocrinology FRCP, FACE.

He introduced the topic with a lucid explanation of how plastic acts as a toxic-conveyor-belt, sponging pollutants from surroundings into the tissues and in that way the plastic pollution is changing the very chemistry and Biology of life. Water and air, the two essential fluids on which all the life depends, have turned into garbage cans.

Once plastic reaches the environment in the form of macro- or microplastics, it contaminates and accumulates in food chains through agricultural soils, terrestrial and aquatic food chains and the water supply.

Microplastics entering the human body via direct exposures through ingestion or inhalation can lead to an array of health impacts, including inflammation, genotoxicity, oxidative stress, apoptosis, necrosis and endocrine disruptors, which are linked to an array of negative health outcomes including cancer, cardiovascular diseases, inflammatory bowel disease, diabetes, rheumatoid arthritis, chronic inflammation, auto-immune conditions, neuro-degenerative diseases and infertility.

This interactive session with Dr. Deep Dutta made the participants aware of the various ill health effects caused by plastic usage and enabled them to end the uncertainties and knowledge gaps that undermine the full evaluation of both acute and long-term health risks at all stages of the plastic lifecycle, and limit the ability of consumers, communities, and regulators to make informed choices.

REC Aeshna Nigam is presenting

Rahul Kaushik and 53 more

9:54

You

SHIVAJI COLLEGE  
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DEPARTMENT OF ZOOLOGY  
(UNDER THE AEGIS OF DBT STAR COLLEGE SCHEME)  
Welcomes you to the webinar  
on  
"Plastics & Endocrine Disruption: A 21<sup>st</sup> Century Update"

DATE : 24<sup>th</sup> September, 2020  
TIME: 5:00 p.m.-6:00 p.m.  
Platform: Google Meet

For registration  
Scan the QR code:

Or on the link:  
[https://docs.google.com/forms/d/e/1FAIpQL5cG4x9SK3XmR6DVTZu-CUNdaOSMd2vnlRyNCeQV8TtYV2w/viewform?usp=sf\\_link](https://docs.google.com/forms/d/e/1FAIpQL5cG4x9SK3XmR6DVTZu-CUNdaOSMd2vnlRyNCeQV8TtYV2w/viewform?usp=sf_link)  
Last Date of registration : 23<sup>rd</sup> September 2020 (8:00 pm)

Dr.(Prof.) Deep Dutta  
D.M. Endocrinology  
FRCP, FACE

Convener :  
Dr. Deepika Yadav

Coordinator :  
Dr. Darshan Malik

Patron :  
Dr. Shiv Kumar Sahdev

Aeshna Nigam

Vinod Gaur

Ishika Panchal

Deep Dutta

Nimita Kant

Dr. Jitendra Cha...

Shiv Kumar Sahdev

Ankita Dua



REC

Deep Dutta is presenting

Compound	Use/Source	Disease Links
BPA	Plastics, thermal receipts	Breast and other cancers, metabolism, puberty, neurobehavioral
Phthalates	Plastics, fragrances	Low sperm count, metabolism, birth defects, asthma, neurobehavioral
PCBs	Electrical coolant and other uses	Cancers, developmental issues
PBDEs	Flame retardants	Thyroid disruption, neurological issues
Lead	Drinking water, paint, gasoline	Neurological issues, premature birth, kidney disorders
Mercury	Burning coal, seafood	Neurological issues, diabetes
Dioxin	Formed in industrial processing	Cancers, sperm quality, fertility, neurobehavioral
DDT/DDD/DDD	Pesticides	Cancers, developmental toxicity
Arsenic	Drinking water, animal feed, herbicides, fertilizers	Cancers, diabetes, immune suppression, neurodevelopment, cardiovascular disease
Cadmium	Tobacco smoke, fertilizers	Cancers, reproductive issues
Atrazine	Herbicide	Alterations in pubertal development
Alkylphenols and p-Nonyl-phenol	Detergents, additives	Breast cancer

Aeshna Nigam

Ishika Panchal

Dr. Jitendra Cha...

Deep Dutta

sperm count cancer agent is a major issue and breast cancer is development. So when we talk of this endocrine disturbing chemicals in Plastics and key formula activity which most of

Meeting details

Turn off captions

Deep Dutta is presenting

REC

Aeshna Nigam

Ishika Panchal

Nidhi Garg

ankita dua

Aeshna Nigam

Anjali Gupta

prachi sharma

Pushp Lata

Shweta Nagpal

Benny

Nimita Kant

ankita dua

Thank you so much. So I have a couple of questions. First of all, I would just like to ask you one thing as an endocrine disruptor. Do we count aluminum foil which is used daily in our homes and

Meeting details

Turn off captions

Present now

Meeting details

People (110)

Chat

Dr. Jitendra Chaudhary 5:21 PM

Please note that there will be a feedback google link posted here in a while which, you all need to fill in to receive your respective certificate.

Dr. Jitendra Chaudhary 5:36 PM

Feedback response form. Please fill it correctly as the details furnished will be collated to generate your E-Certificate. Thanks

<https://forms.gle/7HdwYRUfYbY3L4PT7>

Nidhi Garg 5:38 PM

Good evening to all. Thank you Dr Dutta for such an informative and interesting webinar. My question is- Is the use of canned carbonated drinks safer than plastic bottled carbonated drinks.

Send a message to everyone

**One week Inter College Laboratory Skill Training Programme for Assistants/Attendants in the Chemical and Life Science Laboratories Under the aegis of DBT sponsored Star College Scheme of Shivaji College**

**(February 08-15, 2021)**



Department of Zoology organised the Inter College Laboratory Skill Training sessions on February 10,2021 under the supervision of Dr. Deepika Yadav, Ms. Nimita Kant, Mr. Manish Kr. Sachdeva, Dr. Aeshna Nigam, Dr. Parul Kulshreshtha, Dr. Jitendra Kr. Chaudhary, Dr. Ankita Dua, Dr. Neetu Singh, Dr. Tarun Kr. Vats, Dr. Nidhi Garg and Dr. Rakesh Roshan.

Twenty laboratory staff from various Delhi University colleges participated in the following hands on sessions conducted during the training program:

1. Buffer Preparation
2. Instrumentation: Colorimeter & Spectrophotometer Care and Handling
3. Media preparation
4. Museum Keeping

**Dr. Deepika Yadav, Convenor**  
**Ms. Nimita Kant, Co-convenor**



**Day 3, 10<sup>th</sup> February, 2021**

**10:00 AM to 2:00 PM  
Department of Zoology**

Sessions and Resource Persons			
Session I	Session II	Session III	Session IV
Buffer Preparation	Instrumentation: Colorimeter &	Media preparation	Museum Keeping

	Spectrophotometer Care and Handling		
Dr. Jitendra K Chaudhary Dr. Parul Kulshreshtha Dr. Neetu Singh	Dr. Deepika Yadav Dr. Tarun K Vats Dr. Rakesh Roshan	Mr. Manish K Sachdeva Dr. Aeshna Nigam Dr. Ankita Dua	Ms. Nimita Kant Dr. Nidhi Garg

## Report

Department of Zoology, Shivaji College, University of Delhi, organised a training session cum webinar on, **“How to Read Scientific Literature & Introduction to MANAV- The Human Atlas Initiative”**, under the aegis of DBT Star College Scheme on **24th February 2021** from 11:00 a.m. onwards on Zoom platform. **Dr. Anupma Harshal W. from IISER, Pune** was the resource person for the session. Certificates were awarded to the participants on successful completion of two ONLINE TESTS.

- (1) English Proficiency Test
- (2) Post Webinar Questionnaire

**Around 227 PAN India participants** registered and attended the session including students as well as faculties.

Convener Dr. Deepika Yadav delivered the welcome address and vote of thanks was proposed by Dr. Aeshna Nigam.

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Organizes a webinar  
On  
**How to Read Scientific Literature  
&  
Introduction to MANAV – The Human Atlas Initiative**  
24<sup>th</sup> February, 2021  
11:00 a.m. onwards

**By: DR. ANUPMA HARSHAL W.**  
CONSULTANT  
(Science Communication and Public Engagement)  
Manav-Human Atlas Initiative, IISER, Pune

Convener :  
Dr. Deepika Yadav  
Co-Convener :  
Ms. Nimita Kant

Coordinator :  
Dr. Darshan Malik

Patron :  
Dr. Shiv Kumar Sahdev  
Principal

**The Human Atlas Initiative**  
A citizen-science initiative to build human atlas by the curation of all available maps to micro-level information from life science literature and public databases.  
Curate | Comprehend | Connect  
Join MANAV

**Registration form for MANAV Session at Shivaji College, University of Delhi.**

MANAV- The Human Atlas Initiative is a citizen science project funded by the Department of Biotechnology (DBT), Government of India, and co-funded by Persistent Systems as a collaboration between Persistent Systems, NCCS, and IISER, Pune.

MANAV - The Human Atlas Initiative aims to construct a comprehensive map of the entire human body which will explicitly document macro to micro-level information.

For more information about the project, please visit our website <https://manav.gov.in/>.  
Follow us on TWITTER, LINKEDIN, FACEBOOK, INSTAGRAM, SCIETWEET

What is the webinar about?  
This webinar will cover the following two topics:  
(1) How to Read Scientific Literature?  
(2) An Introduction to MANAV- The Human Atlas Initiative

Request edit access





## **REPORT**

### **WORKSHOP FOR SCHOOL TEACHERS IN BIOLOGICAL AND CHEMICAL SCIENCES**

**22<sup>nd</sup> – 26<sup>th</sup> March, 2021**

A five-day “Workshop for school teachers in biological and Chemical sciences” was organized by the Department of Biochemistry, Botany, Chemistry and Zoology of Shivaji college under the aegis of DBT sponsored star college scheme from March 22-26, 2021. The Directorate of Education was approached and they sent around 20 school teachers from different branches of Rashtriya Pratibha Vikas Vidyalaya (RPVV) to attend this workshop. The aim of this workshop was to train the school teachers of government schools with latest techniques, protocols, experiments and instruments related to the curriculum of 11<sup>th</sup> and 12<sup>th</sup> science stream. The far-sighted vision is that they would use the skills and knowledge gained during the workshop in their regular teaching and enhance the skills of countless number of government school students.

#### **Day 3**

**Department of Zoology** conducted the School Teachers training sessions on March 24, 2021 under the supervision of Dr. Sunita Gupta, Dr. Deepika Yadav, Ms. Nimita Kant, Mr. Manish Kr. Sachdeva, Dr. Aeshna Nigam, Dr. Parul Kulshreshtha, Dr. Jitendra Kr. Chaudhary, Dr. Ankita Dua, Dr. Neetu Singh, Dr. Tarun Kr. Vats, Dr. Nidhi Garg And Dr. Rakesh Roshan. Following Experiments were conducted during the training programs:

1. ABO Blood Grouping: Knowing your Blood Group
2. Graphical Representation of Biological Data: Its Application
3. Chick Egg Windowing: Naked-Eye Visualization and Manipulating Chick Embryo to Study Early Embryonic Developmental Processes as a Cost-Effective Paedagogical Tool.

**Dr. Deepika Yadav, Convenor**  
**Ms. Nimita Kant, Co-convenor**



### **Department of Zoology**

Mentoring Sessions were held through Zoom Virtual Platform to help applying for DBT Star College Scheme for the following institutes:

On 5<sup>th</sup> February 2021 from 4p.m.- 6p.m.

1. Government J.D.B. Girls College, Kota, Rajasthan
2. Jawaharlal Nehru College, Pasighat, East Siang District, Arunachal Pradesh

And on 17<sup>th</sup> February 2021 from 4:00 p.m. – 6:00 p.m.

3. Government P.G. College, Ambala Cantt

The faculty members of the above 3 institutes were also guided for devising subject-specific projects and practical for the DBT Star College Scheme.

Activity Pictures:

End Show Use Slide Show Tips

0:26 5:27 PM

Next slide

SHIVAJI COLLEGE  
UNIVERSITY OF DELHI

DEPARTMENT OF ZOOLOGY  
DBT STAR COLLEGE SCHEME  
PRESENTATION

4.2.2021

1/53

Click to add notes

Dr. Deepika Yadav

Richa Arora

Renu Laxmeja

Ambala Cantt

Dr. Deepika Yadav

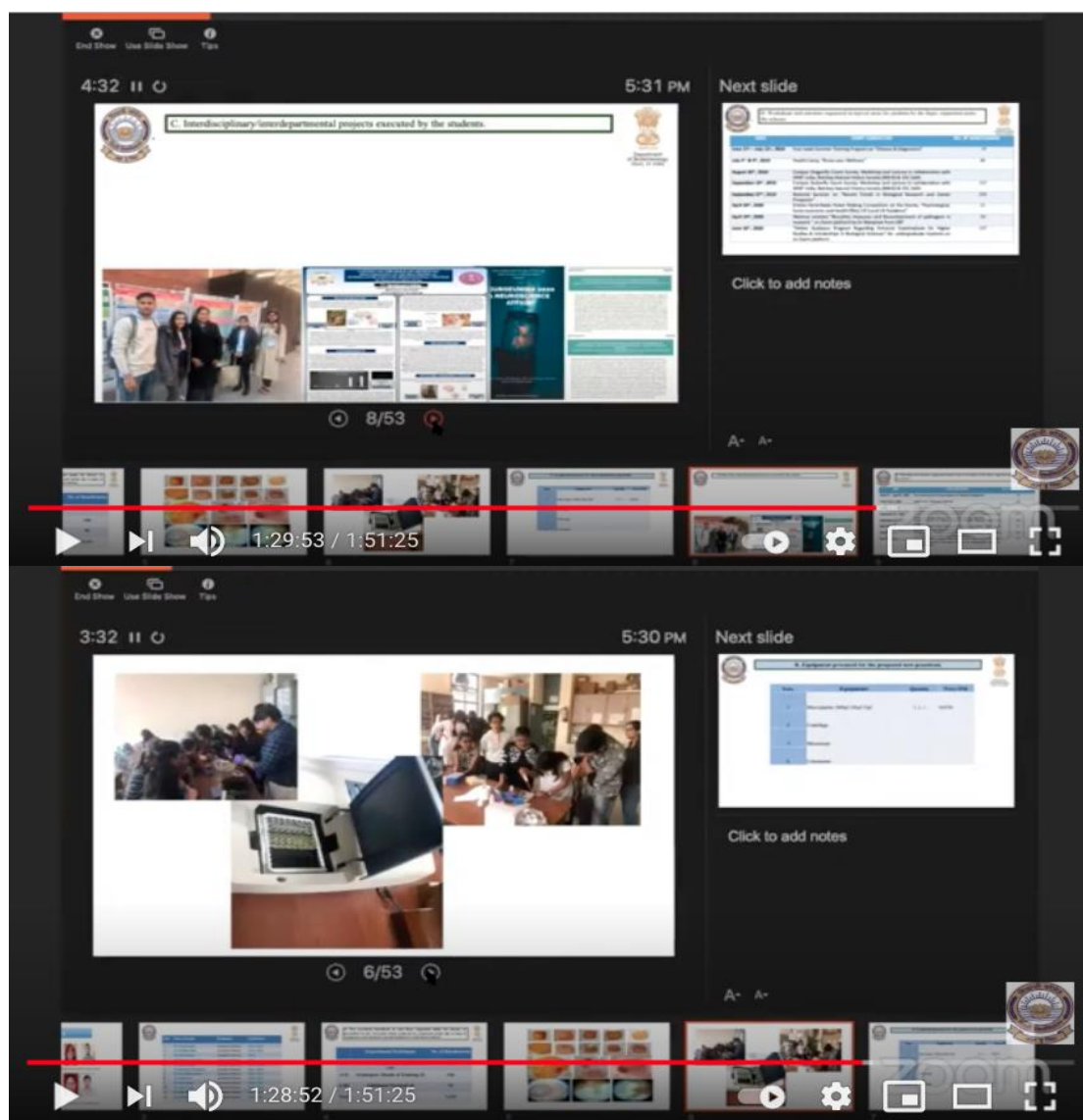
Richa Arora

Renu Laxmeja

Ambala Cantt

1:25:46 / 1:51:25

1:29:28 / 1:31:30



## Report Annual Academic Fest

Department of Zoology, Shivaji College, University of Delhi, organised its annual fest "ZOO CARNIVAL" on an online mode for the first time, on 26th March 2021.

For the very first time, the Departmental Annual Fest was organised with lots of online learning cum fun events whereas students were sensitised for various biodiversity and environment related issues.

The events were executed by the students council members; Mr.Laksh Singh, Mr. Ravi Sharma, Ms. Anjali, Ms. Muskaan Verma, Ms. Adyasha Rout & Ms. Ishika Panchal.

Fest got tremendous response from PAN India with overall 29 Colleges and institutes participating. Around 150 participants registered for the various events.

Teaser video of the event and Instagram handle was also created.

Following events were organised:

1. ZOOLYWOOD - Online Quiz competition (Round I & II)  
Total registrations: 57  
Registrations from Shivaji college: 23



Registrations from other colleges: 34

2. MASQUERADE - Online face painting Competition  
THEME - Endangered / Endemic Faunal species

Total registrations: 12

Registrations from Shivaji college: 3

Registrations from other colleges: 9

3. RAISE YOUR VOICE - Online poster competition  
THEME - Against Cruelty on animals

Total registrations: 28

Registrations from Shivaji college: 13

Registrations from other colleges: 15

4. LIFE THROUGH LENSES - Online photography competition  
THEME - Animals in the vicinity

Total registrations: 48

Registrations from Shivaji college: 19

Registrations from other colleges: 29

Pictures:

**Oyster - The Zoological Society**  
OF  
**DEPARTMENT OF ZOOLOGY  
SHIVAJI COLLEGE**  
NAAC ACCREDITED GRADE 'A'  
UNIVERSITY OF DELHI  
PRESENTS  
**ZOO - CARNIVAL 2021**  
THE ANNUAL ZOOLOGICAL FEST  
26-03-2021

**LIFE THROUGH LENSES**  
ONLINE PHOTOGRAPHY COMPETITION  
Theme: Animals in the vicinity  
Submission till: 25th March 6 P.M.

**MASQUERADE**  
ONLINE FACE PAINTING COMPETITION  
Theme: Endangered/Endemic faunal species  
Submission till: 25th March 6 P.M.

**RAISE YOUR VOICE**  
ONLINE POSTER MAKING COMPETITION  
Theme: Cruelty on animals  
Submission till: 25th March 6 P.M.

**ZOOLOGYWOOD**  
ONLINE QUIZ COMPETITION  
Theme: Popular science fiction movies  
Submission till: 25th March 6 P.M.

For More Information Contact:  
Laksh Singh: 9871279170    Anjali: 9315851048    Ishika Panchal: 9211355435  
Ravi Sharma: 8800257538    Muskaan Verma: 9999086873    Adyasha Rout: 8076590474


Convenor  
**Dr. Deepika Yadav**  
T-I-C, Department Of Zoology

Patron  
**Dr. Shiv Kumar Sahdev**  
Principal

@depzoo\_shivajicollege  
oyster.shivajizoo@gmail.com

**OYSTER**  
THE ZOOLOGICAL SOCIETY OF SHIVAJI COLLEGE  
Presents  
**LIFE THROUGH LENSES**  
ONLINE PHOTOGRAPHY COMPETITION  
At  
**ZOO-CARNIVAL**  
ONLINE DEPARTMENTAL FEST

Rules:  
1. You are required to give a suitable title and a description (no more than 50 words) of the photograph.  
2. Only pictures with animals as subjects are allowed.  
3. One participant can submit only one photograph.  
4. Photographs are accepted only in .jpg/.jpeg/.png format only.  
5. Submitted photograph must be original work.  
6. Basic editing such as color correction, use of color filter and cropping of image is allowed.  
7. Advanced editing that is intended to create illusion/deception and adding or deleting any section within the photograph is prohibited.


**SHIVAJI COLLEGE**  
 UNIVERSITY OF DELHI  
 (Accredited by NAAC with 'B' Grade)

# OYSTER

THE ZOOLOGICAL SOCIETY OF SHIVAJI COLLEGE

Presents

## RAISE YOUR VOICE

POSTER MAKING COMPETITION

At

## ZOO-CARNIVAL

ONLINE DEPARTMENTAL FEST


Theme: Cruelty on animals  
 Date: 26th March, 2021  
 Submission till: 25th March, 2021 (6:00 PM)

Exciting prizes for winners  
 E-certificates to all participants

Registration link:  
<https://forms.gle/Kixx42ECmaTmsdk9>

For further information Contact:  
 Muskaan Verma: 9999086873  
 Laksh Singh: 987127970




**SHIVAJI COLLEGE**  
 UNIVERSITY OF DELHI  
 (Accredited by NAAC with 'B' Grade)

# OYSTER

THE ZOOLOGICAL SOCIETY OF SHIVAJI COLLEGE

Presents

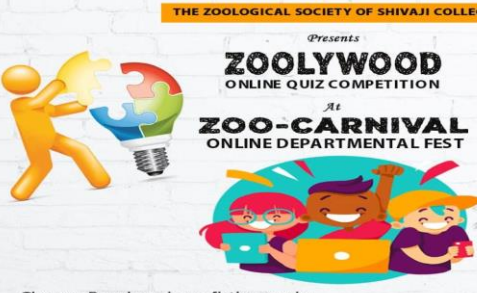
## ZOOLYWOOD

ONLINE QUIZ COMPETITION

At

## ZOO-CARNIVAL

ONLINE DEPARTMENTAL FEST



Theme - Popular science fiction movies

Date: 26th March, 2021 (10:00 AM)  
 Registration till: 25th March, 2021 (6:00 PM)

Exciting prizes for winners  
 E-certificates to all participants

Registration link:  
<https://forms.gle/4F1abKJRux5tLIEG9>

For further information Contact:  
 Ravi Sharma: 8800257538  
 Anjali: 9315851048

Meeting link for ZOO CARNIVAL. Meet - nsa-prth-bhj. ZOOLYWOOD - ROUND 1.

meet.google.com/nsa-prth-bhj

Ravi Sharma is presenting

Nimita Kant and 48 more

10:23

Other Bookmarks

Meeting details

Meeting controls: Microphone, Video, Chat, etc.

Participants:

- Anjali Singh
- Dr. Parul Kulshreshtha
- Gaurav Kumar
- Adyasha Rout
- Deepika Yadav
- Dr. Jitendra Kr. Chau...
- Ravi Sharma
- Ishika Panchal
- KAJAL JHA

Meeting details: Ravi Sharma is presenting

Windows taskbar: Type here to search, 10:23 AM, 3/26/2021

Meeting link for ZOO CARNIVAL x Meet - nsa-prrh-bhj

meet.google.com/nsa-prrh-bhj

Ravi Sharma is presenting

Meeting details

People (55) Chat

Khushwant Kakran

Kumar Abhishek

Laksh singh

MANIKA GUPTA

Mayur Khotele

Nikhil Raj

Nimita Kant

Anjali Singh

Dr. Parul Kulshreshtha

Amit Kumar

QUESTION-10

Guess the movie:

After the end of all botanical life on Earth, an ecologist maintains a greenhouse on a space station in order to preserve various plants for future generations in assistance of three robots and a small human crew.

Meeting details

Ravi Sharma is presenting

Type here to search

10:31 AM 3/26/2021



### THE METAMORPHOSIS

There is nothing in a caterpillar that tells him he's going to be a butterfly. Have faith in yourself, Universe sees what you can't because just when the caterpillar thought the world was over, it became a butterfly!

By: Kumar Aditya  
(Shivaji College)

meet.google.com is sharing your screen. [Stop sharing](#) [Hide](#)

Activate Windows  
Go to PC settings to activate Windows.

d



Ishika



Khushwant



Muskaan



Adyasha



65 others

d



Ishika



Khushwant



Muskaan



Adyasha



73 others



### BEAUTY AND BALANCE

When you encounter a peacock, or an image of one, you are bound to stop and admire this bird since everything about it is unusual. its gait, the vibrant and famous feathers, religious symbolism. Across vast beliefs about the peacock, it's sighting is considered a symbol of beauty and balance.

This picture depicts that rare moment I came across where I was lucky enough to capture the bird in its candid moment.

By: Aryan Singh  
(Jaypee University of information technology, wahnaghat)

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Activate Windows  
Go to PC settings to activate Windows.



Meeting link for ZOO CARNIVAL x Meet - nsa-prrh-bhj


meet.google.com/nsa-prrh-bhj

Apps Google Gmail YouTube WhatsApp OBE LOGIN Healthy Food, Profe... My Drive - Google... Union Public Servie... Other Bookmarks

Adyasha Rout is presenting

Nipun Sareen and 59 more

71 10:58 You



**MY QUARANTINE VIEW**

people say bird watching is waste of time... I say it the most beautiful and peaceful thing when u see beautiful birds playing around with the fully bloomed flower from your balcony...

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Activate Windows. Go to PC settings to activate Windows.

Adyasha Rout Anjali Singh Ishika Panchal

Khushwant Kakran Ravi Sharma KAJAL JHA

Laksh singh Yashika Solanki YASHIKA KATARIA

Meeting details

Adyasha Rout is presenting

Meeting link for ZOO CARNIVAL x Meet - nsa-prrh-bhj


meet.google.com/nsa-prrh-bhj

Apps Google Gmail YouTube WhatsApp OBE LOGIN Healthy Food, Profe... My Drive - Google... Union Public Servie... Other Bookmarks

Adyasha Rout is presenting

Rinku kumari and 59 more

71 10:59 You



**HUNGER**

The belly is an ungrateful wretch, it never remembers past favors, it always wants more tomorrow.

By: LAKSH SINGH (Shivaji College)

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Activate Windows. Go to PC settings to activate Windows.

Adyasha Rout Anjali Singh Ishika Panchal

Khushwant Kakran Ravi Sharma KAJAL JHA

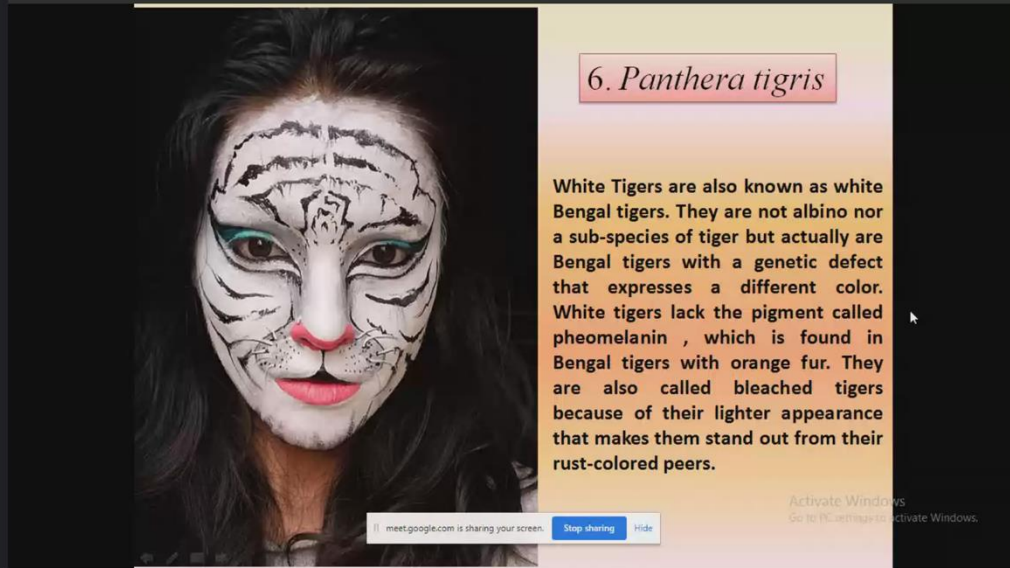
Laksh singh Yashika Solanki YASHIKA KATARIA

Meeting details

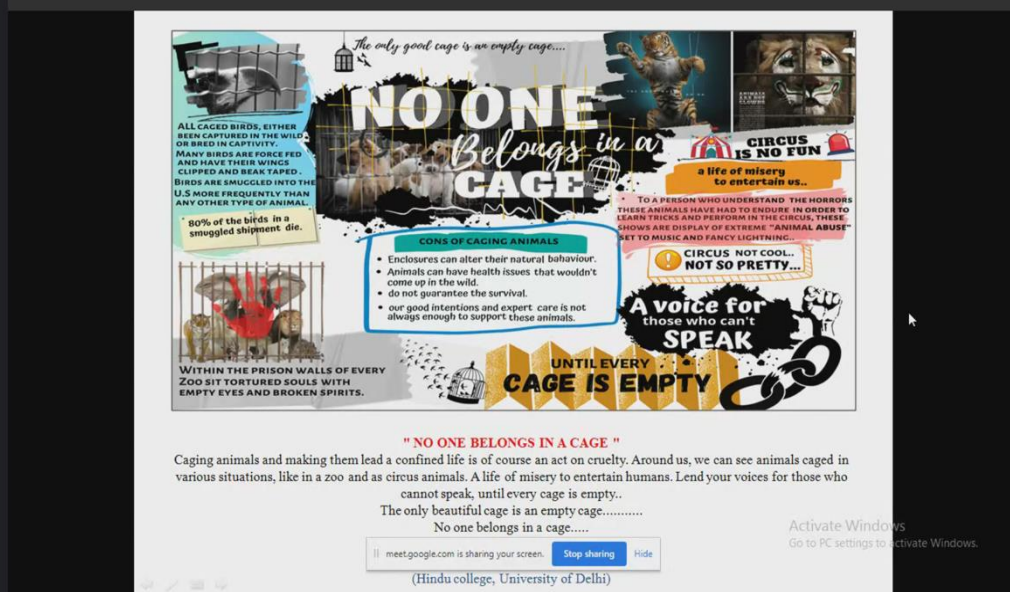
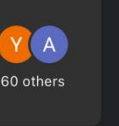
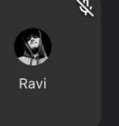
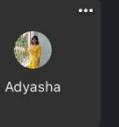
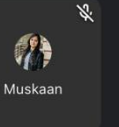
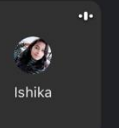
Adyasha Rout is presenting

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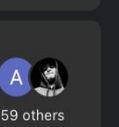
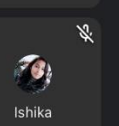
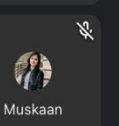
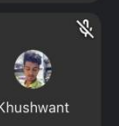
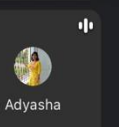
ENG 10:59 AM 3/26/2021



Adyasha Rout is presenting



Adyasha Rout is presenting



## Alumni Meet

Department of Zoology, Shivaji College, organised an online Alumni Meet on 25<sup>th</sup> April 2021 at 5:30 p.m. on Google Meet.

During the unprecedented pandemic times, with no physical interactions possible, the meet proved as a meaningful interactive platform between the current and the former students. Convener Dr. Deepika Yadav welcomed all the participants. The event was unique in a kind that the alumni not only delivered special presentations to guide the current students about various opportunities and career prospects available after graduation for them to explore but also shared their personal contacts to be in touch if any further guidance or mentorship is needed.

Because of the pandemic wave being on its peak, many students and faculty members were unable to join the meeting while some enthusiastically joined despite being COVID positive. The meet was joined by around 75 participants. The event was graced by our distinguished Senior faculty Dr. Sudhir Vasal. While addressing the students, Dr. Vasal emphasised on the importance of acquiring the practical knowledge for the science students and conveyed his best wishes for their bright future.

The three hour nostalgic session was a great learning and a amazing reunion for all and it provided an engaging platform for free exchange of ideas and opportunities between the former and current students.

**DEPARTMENT OF ZOOLOGY  
SHIVAJI COLLEGE**  
NAAC ACCREDITED GRADE 'A'  
UNIVERSITY OF DELHI

*Invites you to*  
**ALUMNI MEET 2021**

Memories are the treasures that we keep locked deep within, from those long lab hours to college fest, from classrooms to corridors, these are the threads that hold us together, lets again ride this memory swing together

DATE: 25th April 2021  
TIME: 5:30 P.M.  
VENUE: Google Meet

LINK and QR code: <https://forms.gle/MtrDhWwHqTU8F6fH8>

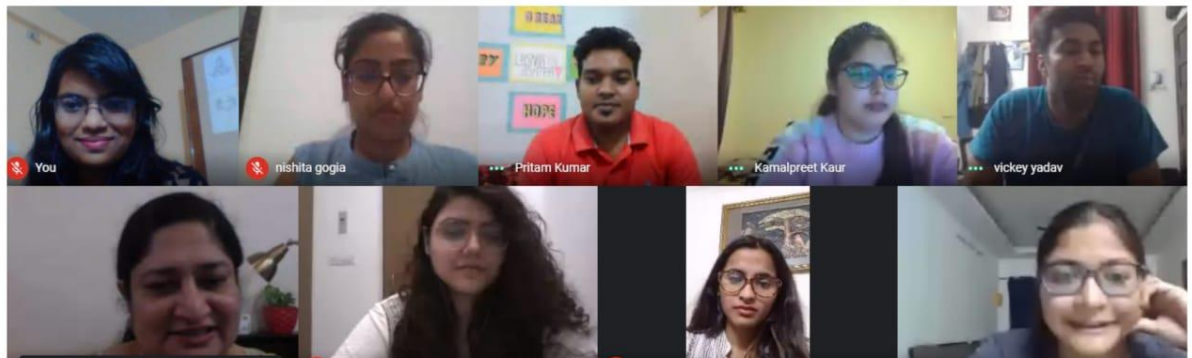
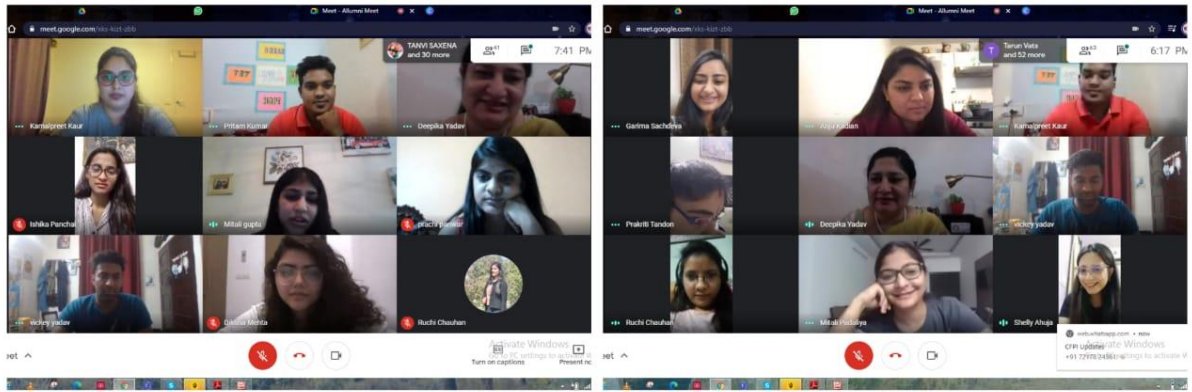
Convenor  
**Dr. Deepika Yadav**  
T-I-C, Department Of Zoology

@depzoo\_shivajicollege  
oyster.shivajizooology@gmail.com

Patron  
**Dr. Shiv Kumar Sahdev**  
Principal

**ALUMNI MEET-2021**  
**25TH APRIL (SUNDAY)**









Rohit Jamwal is presenting

ABHISHEK PAN... and 43 more

54

Turn on microphone (M + G)

Meeting details

Turn on captions

Rohit Jamwal is presenting

kk remix.mp4

Ishikapanchalmusic  
Ishika Panchal

Pause (X)

0:02 / 2:43

Turn on microphone (M + G)

Meeting details

Turn on captions

Adyasha Rout is presenting

nishita gogia is presenting

Anjali Singh and 31 more

42

Turn on microphone (M + G)

Meeting details

Turn on captions

nishita gogia is presenting

CROSSROADS OF ACADEMIA OR INDUSTRY

Department of Zoology and Department of Microbiology

Department of Biochemistry

Department of Molecular Reproduction, Development and Genetics

Department of Biochemistry & Cellular and Molecular Biology

Nishita Gogia  
B.Sc. Zoology (H)  
Batch- 2013-2016



Kamalpreet Kaur is presenting

Him Agni and 33 more

44

Show in a tile

- Currently doing my PhD from Constable lab, with Agriculture Victoria's School of Applied Systems Biology at La Trobe University in Melbourne, Australia.
- Working as a plant diagnostician to detect plant pathogens in vegetables and fruits with Crop Health Services, Agriculture Victoria.
- Also, a scientist mentor to high school students teaching practical experiments in Gene Technology Access Centre, Melbourne, Australia.

GTAC  
GENE TECHNOLOGY ACCESS CENTRE

Meeting details

Turn on captions

Kamalpreet Kaur is presenting

Adyasha Rout is presenting

Meeting details

(68)

IN CALL

- Deepika Yadav (You)
- Aarti
- Abha Vasal
- ABHISHEK PANDEY
- Adyasha Rout
- Adyasha Rout Presentation

Adyasha Rout

Abha Vasal

Pritam Kumar

Ruchi Chauhan

meet.google.com/xks-kizt-zbb

Apps

what is the role of...

Google

Bhavana Medical...

http://r.search.ya...

Placenta | definiti...

Adobe® Connect™

pen drive mac - Y...

Update

Alumni Meet  
25th April 2021

Ashima Jain 8:11 PM

Thank you so much Deepika mam and other teachers of zoology department for organizing this alumni meet and inviting us.

Mitali gupta 8:12 PM

It was really fun to see everyone again. Thank you for inviting us. And really apologize Deepika ma'am for doing mischief here as well. Hope to see everyone again.

If anyone will need any guidance regarding coming to US feel free to contact at [gupta.mi@northeastern.edu](mailto:gupta.mi@northeastern.edu). Thank you Deepika Ma'am and juniors for hosting this!!

Send a message to everyone

Meeting details

Turn on captions

Present now

Orientation Day for the freshers B.Sc. Honors Zoology & B.Sc. Life Science was conducted on 18<sup>th</sup> November 2020 in a virtual mode.

Farewell for B.Sc. Honors Zoology Final year students was organised on 27<sup>th</sup> April 2021 on virtual platform.



A virtual lab visit (CSIR-CBRI, NCL, NPL, NIO, IMTECH, IITR, IICT)  
&

Six virtual Industry visit to Central Sericultural Research and Training Institute(CSRTI) Smithsonian & San Diago Zoo, Smithsonian Natural History Museum, National Bee Board, Monterey Bay Aquarium and Aquarium of the Pacific throughout the academic year.

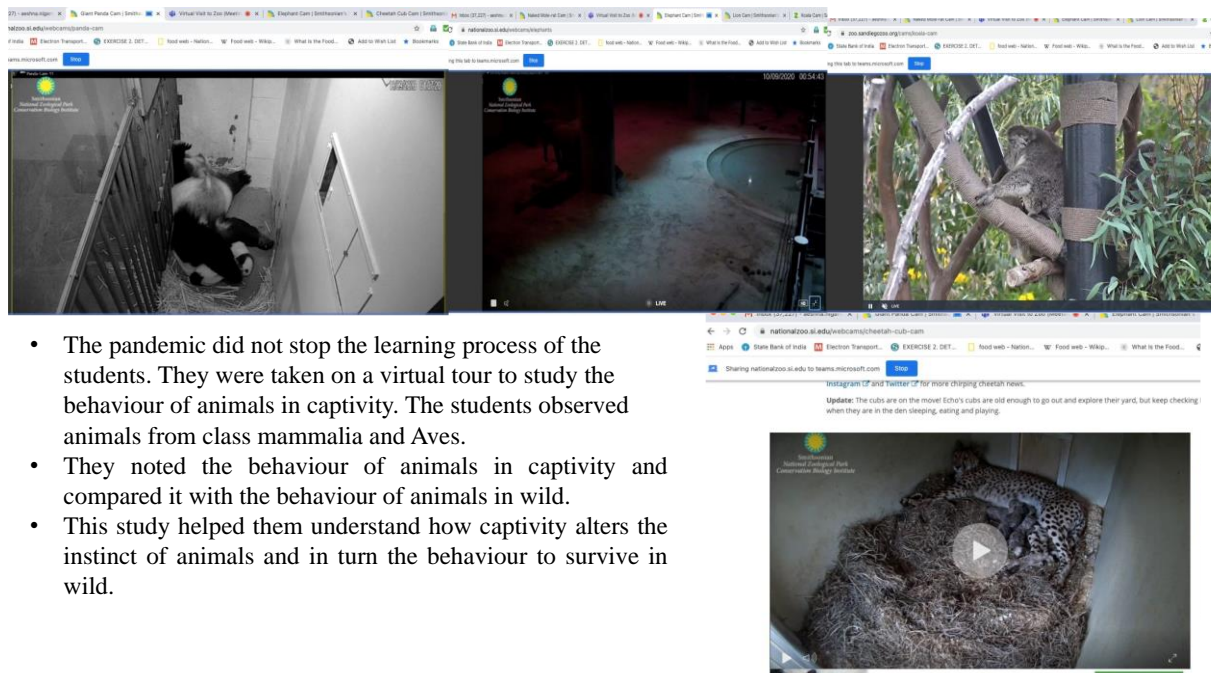
**Virtual tours Report Zoology Department:**  
**April 2020- April 2021**

**1. Virtual tour of Smithsonian's National Zoo and San Diego National Zoo on 9.10.2020 through live web cams**

**No. of Beneficiaries- 16**

**Teachers- Dr. Aeshna Nigam and Dr. Tarun K. Vats**



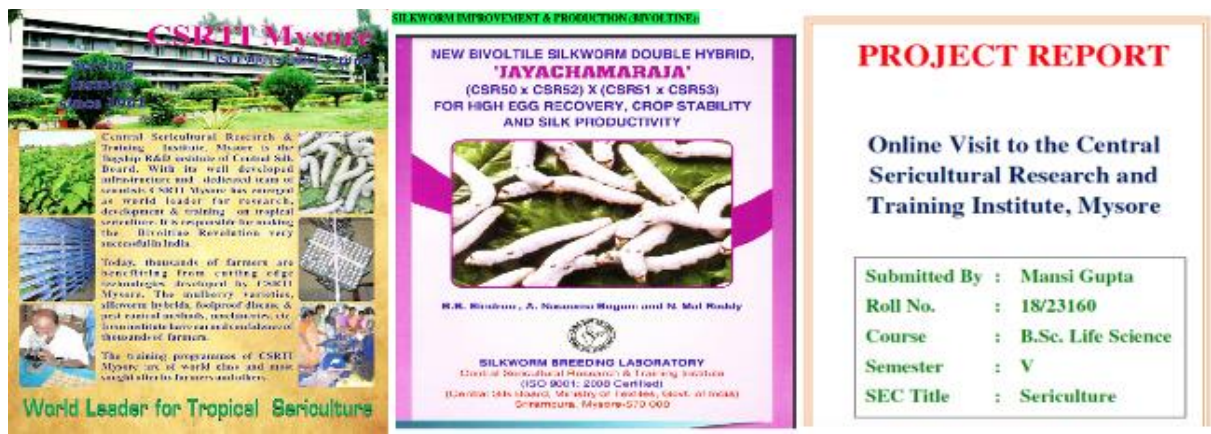


## 2. A virtual visit to the Central Sericultural Research and Training Institute (CSRTI), Mysore on 3.10.2020 for B.Sc. Life Science V Semester

**Beneficiaries: 14**

**Faculty: Dr. Nidhi Garg**

**For the SEC Paper Sericulture**



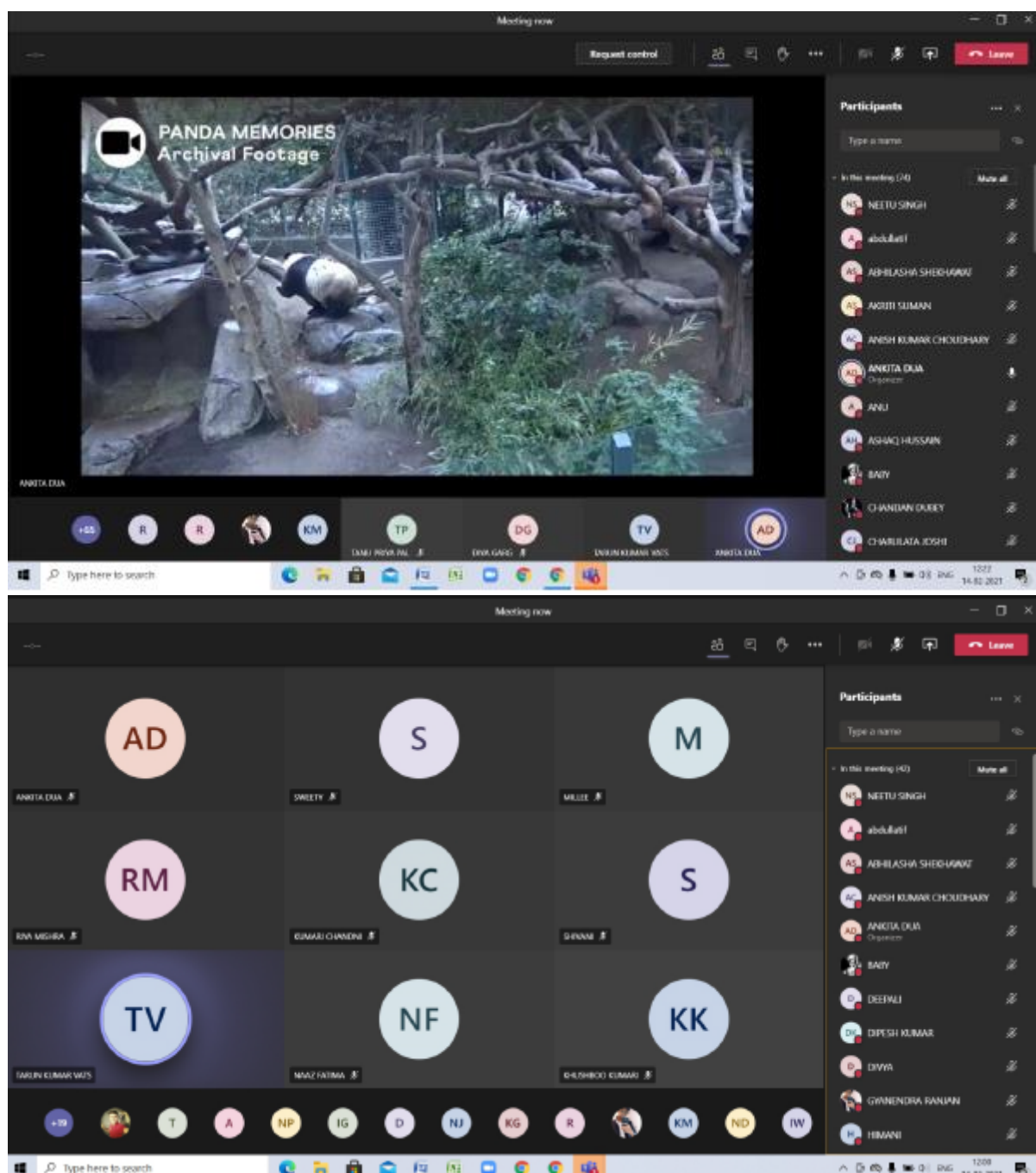


**3. A virtual visit to the San Diego Zoo which is a zoo in Balboa Park, San Diego, California for B.Sc. Life Science V Semester**

**Beneficiaries: 71 B.Sc. (P) Life Sciences, Semester I**

**Faculties:- Dr. Ankita Dua, Dr. Neetu Singh and Dr. Tarun Kumar Vats.**

A virtual zoo visit was conducted on 14-02-2021 at 12 PM via the platform MS Teams for B.Sc. (P) Life Sciences, Semester I on account of academic practical syllabus of the paper Animal Diversity. This zoo visit is the part of the syllabus to understand and gain knowledge of diversity of animals. The online website used for this virtual zoo visit was The San Diego Zoo which is a zoo in Balboa Park, San Diego, California, housing more than 3,500 animals of more than 800 species and subspecies. This virtual zoo visit was attended by 71 students of practical batches 1, 2, 3, and 4 of B.Sc. (P) Life Sciences, Semester I



**4. A virtual visit was conducted to Smithsonian National Museum of Natural History on 31-03-2021 at 9 AM via the platform MS Teams for B.Sc. (P) Life Sciences, Semester IV**

**Beneficiaries : 18 students of B.Sc. (P) Life Sciences, Semester IV**  
**Faculty: Dr. Neetu Singh**

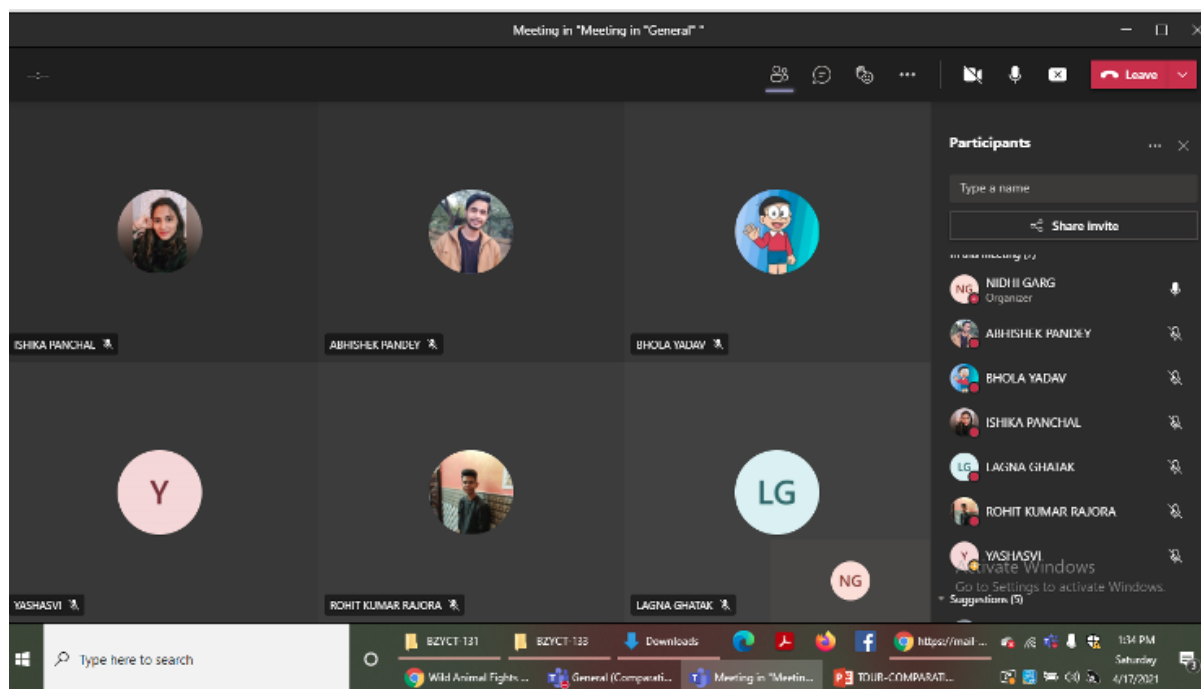
A virtual visit was conducted on 31-03-2021 at 9 AM via the platform MS Teams for B.Sc. (P) Life Sciences, Semester IV, Section-B, Batch-4 on account of academic practical syllabus of the Paper Genetics and Evolutionary Biology. This visit to a natural history museum is the part of the syllabus. The online website used for this virtual visit was Smithsonian National



Museum of Natural History which is available on [https://naturalhistory2.si.edu/vt3/NMNH/z\\_tour-022.html](https://naturalhistory2.si.edu/vt3/NMNH/z_tour-022.html). This virtual visit was attended by 18 Students of B.Sc. (P) Life Sciences, Semester IV .







## **5. Virtual Visit to National Bee Board for B.Sc. LIFE SCIENCES Sem VI on 26.2.2021**

**Beneficiaries: 7 B.Sc. LIFE SCIENCES Sem VI**

**Faculty : Dr. Nidhi Garg**

For the practical paper Apiculture to National Bee Board.



## 7. A virtual tour to Monterey Bay Aquarium and Aquarium of the Pacific of Life Sciences IV semester students studying Skill Enhancement Paper- Aquarium Fish Keeping was conducted on 20th March 2021.

**Beneficiaries : 30**

**Faculty: Dr. Tarun Kumar Vats**

A virtual tour of Life Sciences IV semester students studying Skill Enhancement Paper- Aquarium Fish Keeping was conducted on 20th March 2021. The online visit to Monterey Bay Aquarium and Aquarium of the Pacific included the study of various live aquatic animals and kelp forest in marine environments. The essential documents and reports are attached for your kind perusal.

**Beneficiaries: 30 B.Sc. (P) Life Sciences, Semester IV**



AQUARIUM  
OF THE PACIFIC®

A non-profit institution



Walkway to the aquarium

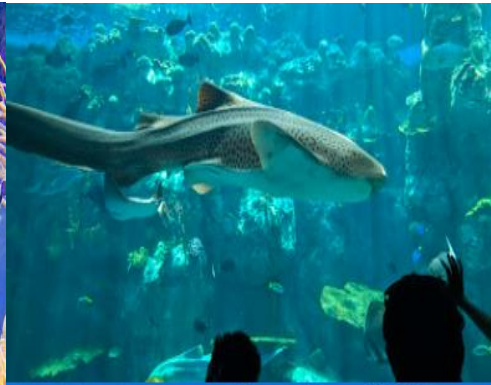
Date opened June 20, 1998<sup>[1]</sup>

Location Long Beach, California, United States

Coordinates [33.76216°N 118.19692°W](#)

No. of animals 11,000<sup>[2]</sup>

No. of species 500<sup>[2]</sup>









## 8. VIRTUAL TOUR of CSIR LABS on April 21, 2021

**Beneficiaries: 115 Students and Faculties from B.Sc. Hons. Zoology, B.Sc. Hons.**

**Chemistry and B.Sc. Life Science**

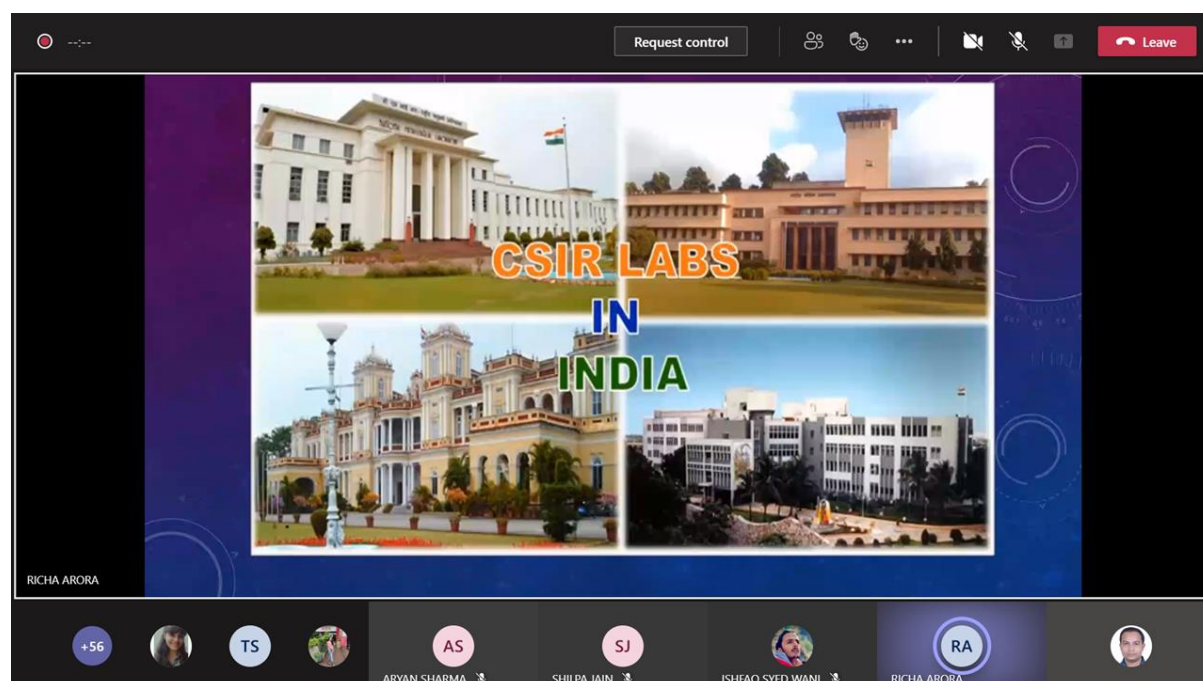
The Department of Chemistry & Zoology, Shivaji College, jointly organized a VIRTUAL TOUR of “CSIR LABS” under DBT sponsored Star College Scheme.

The event was held on 21.04.2021 (Wednesday) at 11:00 AM on Microsoft Teams platform. It involved VIRTUAL tours in the form of videos, to seven CSIR Labs.

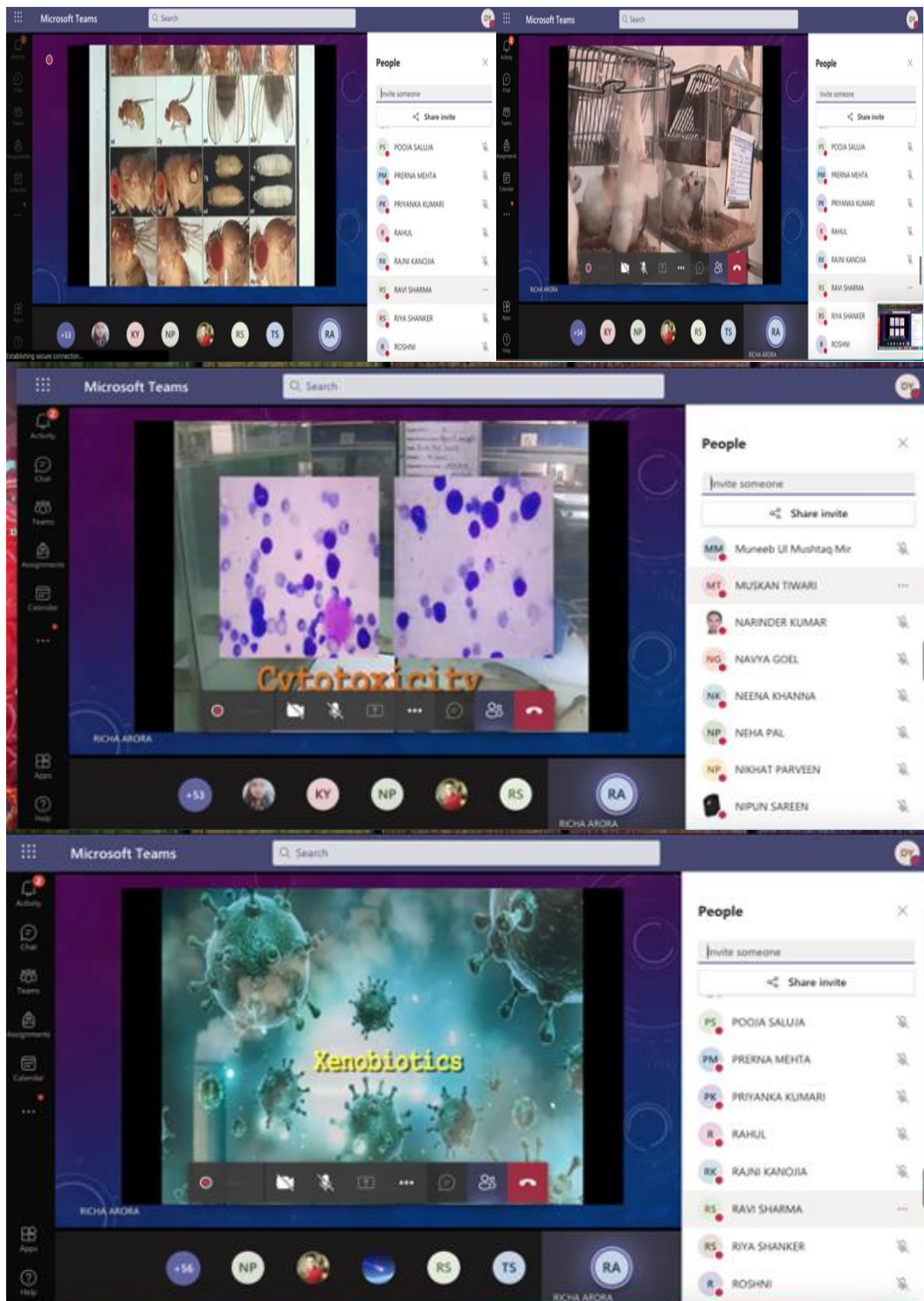
CSIR, i.e, The Council of Scientific & Industrial Research (CSIR) is a contemporary Research & Development organization. It has a pan-India presence with a dynamic network of 38 national laboratories, 39 outreach centres, three Innovation Complexes and five units. CSIR has over 4600 active scientists.

The event witnessed a participation of 115 students and faculty members. The seven CSIR Laboratories covered are:

1. CSIR- Indian institute of chemical technology (IICT), Hyderabad
2. CSIR-National Chemical Laboratory (NCL), Pune
3. CSIR-National Physical Laboratory (NPL), Delhi
4. CSIR-National Institute of Oceanography (NIO), Goa
5. CSIR-Institute of Microbial Technology (IMTECH), Chandigarh
6. CSIR-Central Building Research Institute (CBRI, IIT-Roorkee)
7. CSIR-Indian Institute of Toxicology Research (IITR), Lucknow







A documentary was shown to the B.Sc. Hons Zoology semester IV students

Beneficiaries: 7

Faculty: Dr Nidhi Garg



A documentary on vertebrates-wildlife conflicts was shown on 17.04.2021 as part of the practical of the paper Comparative anatomy and developmental biology for B.Sc. Hons Zoology semester IV.

video- <https://www.youtube.com/watch?v=QkJeiR46jik>



#RealWild #Documentary

Wild Animal Fights Caught On Camera (Wildlife Documentary) | Caught In The Act | Real Wild