



# DEPARTMENT OF BOTANY

## DAULAT RAM COLLEGE

### UNIVERSITY OF DELHI

DBT Star College, NAAC Accredited Grade "A" College NIRF - 26th Rank, India Today Ranking- Science : 7th Rank; Commerce : 13th Rank; Humanities : 15th Rank



## LIANA

Magazine Cum  
NEWSLETTER 2020-2021

## VASUNDHARA

THE BOTANICAL SOCIETY

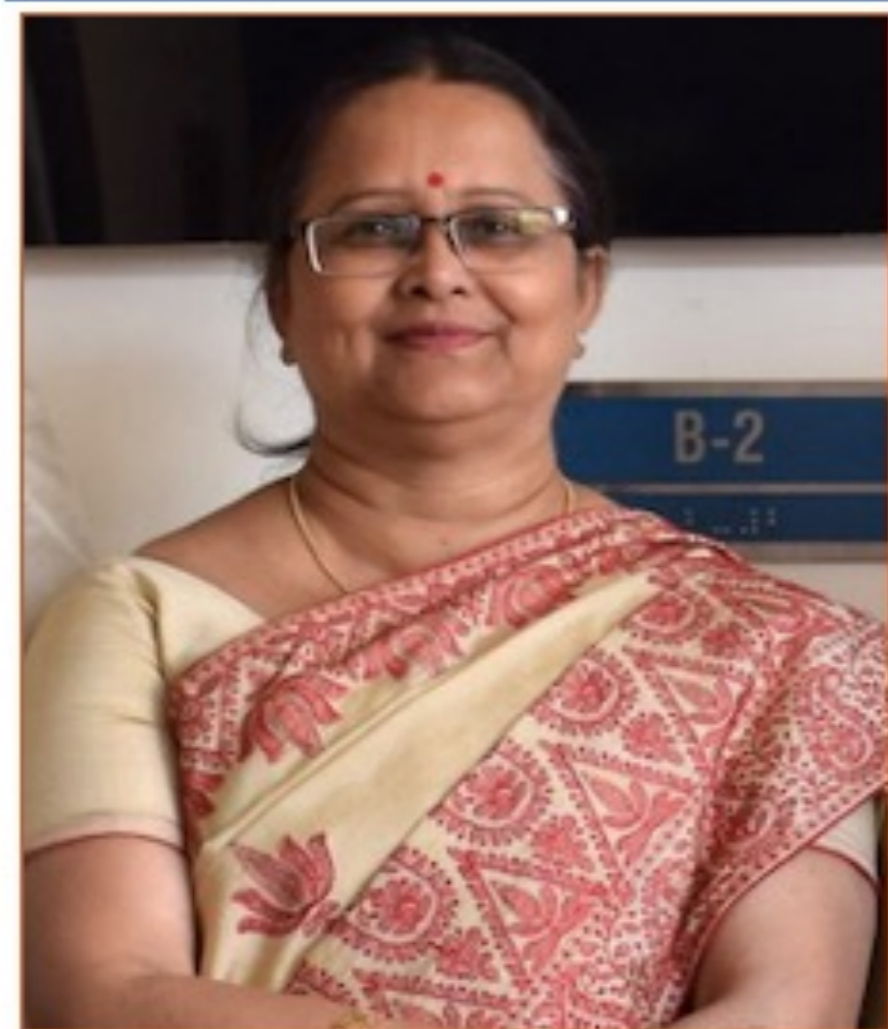
Compiled by  
Dr Nidhi Gautam & Dr Meenakshi Sharma

**PLANT IN POETRY**

प्यारी तरफ दरिगाली फैलई है  
इन्दीने ही ये पृथ्वी बनई है  
फूलों से है भूख मिटाने  
फूलों से खुशबू फैलाने  
कैसे धूप से भी ये  
स्वप्न छाया है करते  
प्यारी तरफ दरिगाली फैलई है  
इन्दीने ही ये पृथ्वी बनई है  
हलौबल बारिश का करके इन्दीने  
प्यारी तरफ साफ हवा फैलई है  
करके भी उन पेड़ों को  
जिन्दगी से सृष्टि बचाई है  
यही सबसे महत्वपूर्ण उपाय है  
इन्दीने ही विश्वास की जीवन का सही सार है

*Plant's Yadav*





Principal Dr Savita Roy has always been a motivational force behind the success story of Botany Department and Vasundhara. She encouraged us to organise several subject oriented co and extra- curricular activities for Botany students. Dr Roy appreciated prizes won by our students in inter-college competitions organised by other colleges. I am sure that she will feel proud looking at the record list of prize winners of the 2020-21 session. On behalf of my department and my own behalf I extend my most sincere THANKS and REGARDS to Dr Roy.



#### THE NOTE FROM STAFF ADVISER'S AND TIC DESK

I am an admirer of symmetry, asymmetry and wide array of designs displayed by invaluable biodiversity since my childhood. The passion grew with age that driven me to study Botany for my masters degree. As I studied more about plants, the interest kept on growing with time that is difficult to die. I enjoy the most in the company of nature and plants. As a teacher, my wish is to bring students closer to plants. I want my students to keep their interest in plants alive throughout their life as we learn many lessons from these beautiful mute creatures. Various activities organised by Vasundhara were focussed on Biodiversity and its immense importance.

Dr Nidhi Gautam



#### THE NOTE FROM STAFF ADVISER'S AND TIC DESK

Working with the "Nature " and for the "Nature" under the guidance of Nidhi Ma'am and Principal ma'am, has always been an enthusiastic experience. "Vasundhara" The Botanical society has been working on it's goals for the conservation of biology and sustainable ecosystem. The huge participation of the students in various activities and conferences shows that students are sensitive and aware about their responsibilities towards the environment. Vasundhara provides all possible opportunities to the students to learn and implement. I am thankful to the principal ma'am and Nidhi ma'am for their support and guidance and I also congratulate all the members and the winners of the society for their achievements.

Dr Meenakshi Sharma



# "VASUNDHARA" BOTANICAL SOCIETY TEAM

## STAFF ADVISORS

DR NIDHI GAUTAM (TIC)

DR MEENAKSHI SHARMA

## FACULTY MEMBERS



Dr Rama Pasricha



Dr Rekha Kathal



Dr Meenam Bhatia



Dr Sunita George



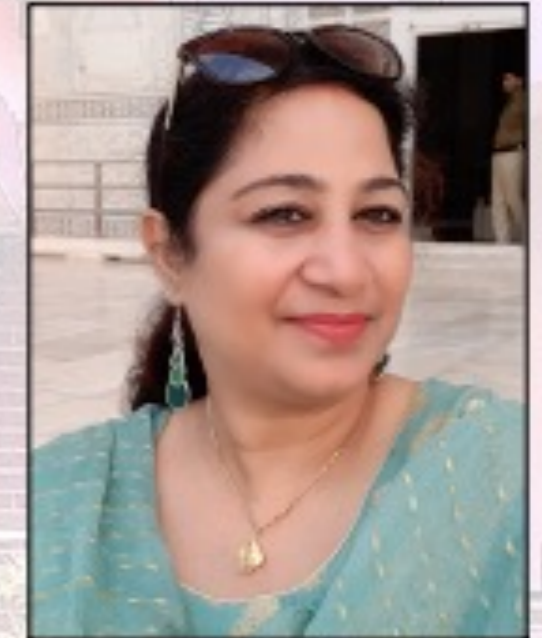
Mrs. Neeti Yadav



Dr. Vidhi Chaudhary



Dr M. Leleeka Devi



Dr. Aradhana Yadav



Dr. Pratibha Kumari



Dr. Asmita Gupta



Dr. Shagun Danda



Dr. Kamlesh Kumari



**"VASUNDHARA"**  
**BOTANICAL SOCIETY TEAM**  
**TEAM OF THE OFFICE BEARERS**



President -Priyanka III H



Vice President- Aakriti Singh III H



Secretary- Mansi Vatwani II H



Treasurer- Gayatri Deka II H



Joint Secretary- Subhra Yadav I H

**CLASS REPRESENTATIVE**



Ayushi Kumari (I H)



Prachi Singh (II H)



Pushplata (III H)



## **BOTANY DEPARTMENT**

Department of Botany is one of the most active departments of the college. The Department was awarded STAR status by DBT, Govt. of India in 2014. It has well qualified teaching faculty and trained lab staff.

Every year approximately 40 Students pass out Botany (Hons) course and more than 60% go for masters degree.

We remain connected to our alumnae, guide them to further their studies and future endeavors. The Botanical Society "VASUNDHARA" is an integral part of the Department that has more than 45 glorious years of its existence.

## **BOTANICAL SOCIETY- VASUNDHARA 2020-21**

Vasundhara, the Botanical Society of DRC believes in holistic development of its student members with an objective to provide them a wide platform where they can exhibit their co- and extra -curricular skills by organizing various subject oriented, interesting inter-college and inter-class competitions on regular basis. It added another glorious chapter this year under the dynamic leadership of

**Dr Nidhi Gautam (TIC) and Dr Meenakshi Sharma**



In spite of restrictions due to Covid pandemic, a series of activities including National Webinars, SDPs, workshops and inter-class as well as inter-college competitions were arranged successfully online. Class representatives happily took over the responsibility of maximum participation of their classmates in various competitions. Student members participated in large number and brought laurel by winning several prestigious prizes at reputed Colleges of Delhi University.

#### COMPETITIONS AND ACTIVITIES ORGANISED BY VASUNDHARA ARE LISTED BELOW:

- ❖ Collage making on "Biodiversity in our vicinity" on 5th June 2020
- ❖ "Plants in Poetry" on 9th September 2020
- ❖ Slogan writing on "Ozone layer protection" on 16th September 2020
- ❖ Bookmark Making on 2nd September, 2020 on the Theme- "Coconut tree" 24 entries
- ❖ On the spot Article Writing Competition on 30th September, 2020 on the theme "All life forms need to be protected" 10 entries
- ❖ Meme making on "Biological concepts" on 7th October, 2020
- ❖ Sketching competition on 23 Dec 20 for I H "Nature as I see"
- ❖ "Swirl the art" a Floristic Mandala Competition on 20th January, 2021
- ❖ Paper presentation on "The Existence of Climate Change and its Sustainable Solution in India" on 10th February, 2021
- ❖ Paper presentation on "Alien species bane or boon" on 17th February 2021



**AS HOLE IN HEART**  
*a threat to life*

THE HOLE IN OZONE LAYER  
*affects the earth life*

**OZONE LAYER PROTECTION**

VASUNDHARA

HARSHITA JAIN.  
 B.Sc (H)  
 BOTANY THIRD  
 YEAR.

ACT AS  
 A WHOLE

TO PREVENT  
 THE HOLE!

*(Vasundhara Activity)*

**Save the layer,  
 Found up in the air!!**

DON'T BE UNATTENTIVE TOWARDS EARTH'S FLIGHT,  
 SAVE OZONE WITH ALL YOUR MIGHT!!!

**A hole in ozone**

*Will devastate the earth and our soul*

**The clock is ticking**

*Save Ozone, since it's depleting!!*

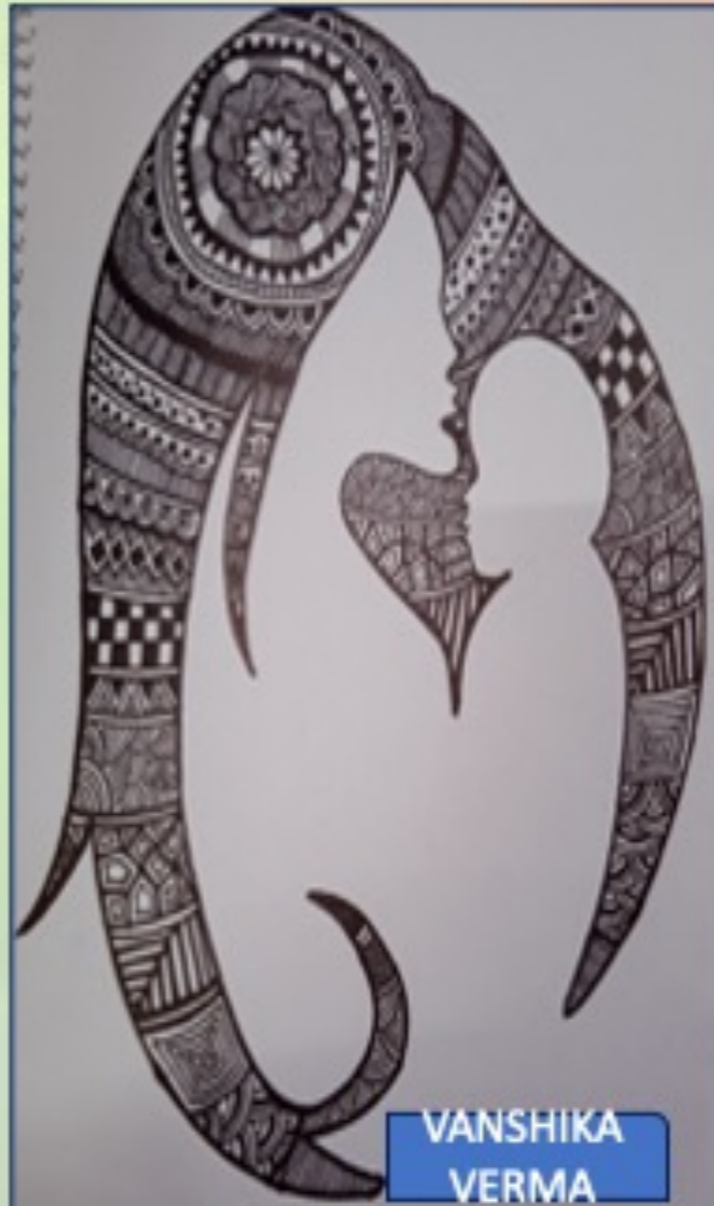
VASUNDHARA

Ritika Negi  
 Bsc H Botany, II<sup>nd</sup> year

made by: Princy Pathak



Aakriti singh



VANSHIKA VERMA



Komal  
B.Sc (H) Botany  
2nd Year  
2021/1/20 16:15



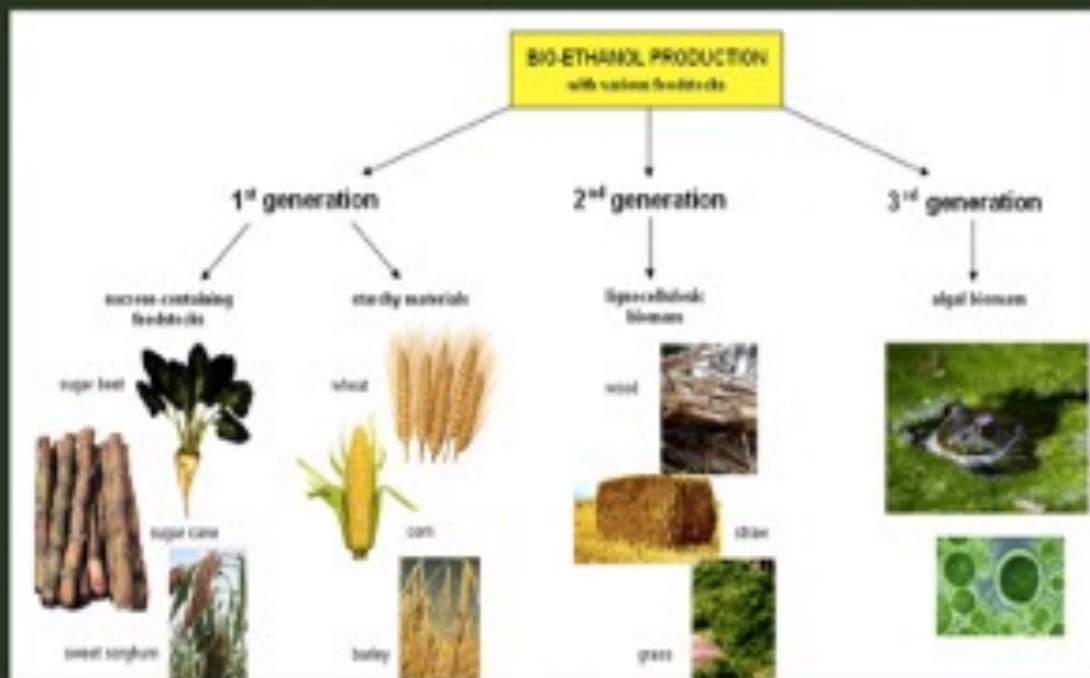




PRACHI CHOUDHARY is presenting

20312317 ROYAL SHA... and 8 more

### TYPES OF BIOFUELS



20189376 Tannu is presenting

20270492 JYKA R... and 5 more

### CULTIVATION AND HABITAT

- It is resistant to a high degree of **aridity**, allowing it to grow in desert
- The **Government of India** has identified 400,000 square kilometres (98 million acres) of land where **Jatropha** can be grown.
- **Jatropha** plantations have been undertaken in Udaipur, Kota, Sikar, Banswara, Chittor and Churu districts



## Sketching competition held on 23 Dec 20 for I H

### THEME - "NATURE AS I SEE"

- First Prize- **Princy**
- Second Prize- Afreen ,Tannu, Fiza
- Third Prize- Shreya, Priya
- Encouragement Prize- Geet, Disha and Manvi

## Event- Book Mark making ,

### THEME- "COCONUT TREE"

Total Entries received- 24

#### First Prize:

**Soonalakshmi III H**

**Ruchi Nigam II H**

#### Second Prize:

Ritika Negi III H

Anjali Khugshal II H

Harshita Jain III H

Himanshi Dahiya II H

Shrishti Jangwan III H

#### Third Prize:

Neha Yadav III H

Ankita III H

Aarushi Goel II H

#### Encouragement Prize:

Nancy III H

Mehak Chaudhary III H

Iqra Parveen II H

## Event – Plants in Poetry held on 9<sup>th</sup> September 2020

**First Prize- Ritika Negi III H**

**Second Prize-** Priyanka III H

Mohini III H

**Third Prize- Kajal Thakur II H**

**Consolation Prize-** Shrishti Jangwan III H

Gayatri Deka II H

Mansi Vatwani II H

## Event - Slogan Writing held on 16<sup>th</sup> September 2020

**First Prize- Harshita Jain III H**

**Aabha Tripathi II H**

**Second Prize-** Mehak Chaudhary II H

Ritu Yadav II H

Ritika Negi III H

**Third Prize- Mansi Vatwani II H**

**Encouragement Prize- Aakriti Singh III H**

## Event- Essay Writing Competition held on 30-9-2020

### THEME – "ALL LIFE FORMS NEED TO BE PROTECTED"

**First Prize:** Shrishti Jangwan III H

**Second Prize :** Komal III H

Mansi Vatwani II H

**Third Prize:** Priyanka III H

Gayatri Deka II H

**Encouragement Prize:** Sonal II H

Cash prizes were awarded to Winners. First:400/, Second:300/,Third:200/

*Congratulations*







## SDP- IN-HOUSE SKILL DEVELOPMENT PROGRAMMS

- To familiarise our students with different tools used in online teaching, **FOUR** day **SDP 1** was arranged on **"Basics of Online Class Tools"** on 12<sup>th</sup>, 17<sup>th</sup> to 19<sup>th</sup> August 2020
- SDP 2** on **"Basics of Online Class Tools"** was organised specially for First year Botany Hons students who were admitted late and didn't attend SDP 1 from 17<sup>th</sup> to 19<sup>th</sup> December 2020.

**DEPARTMENT OF BOTANY**  
**DAULAT RAM COLLEGE**  
University of Delhi  
Under IQAC  
Presents

In-House Skill Development Programme  
on  
**"BASICS OF ONLINE CLASS TOOLS"**  
12<sup>th</sup>, 17<sup>th</sup>-19<sup>th</sup> August, 2020  
Time: 11:00am to 1:00 pm)

- For online Registration: <https://forms.gle/RCufSD5tzG7hPk8b9>
- Registration Fee: Free
- Number of Seats- 250/session
- Mandatory for all Students of Botany Department
- Venue: Google Meet
- For queries call at -9971940098, 9868535813

Dr Savita Roy Principal  
SDP Convener Dr. Pooja V. Anand  
Course coordinator Dr. Nidhi Gautam

Resource Persons: Dr. Meenakshi Sharma, Mrs. Neeti Yadav, Dr. Shagun Danda, Dr. Asmita Gupta

**DEPARTMENT OF BOTANY**  
**DAULAT RAM COLLEGE**  
(NAAC Grade "A" Accredited)  
University of Delhi  
Under IQAC  
Presents

In-House Skill Development Programme  
on  
**"BASICS OF ONLINE CLASS TOOLS"**  
17<sup>th</sup>-19<sup>th</sup> December, 2020  
Time: 11:00am to 1:00 pm)

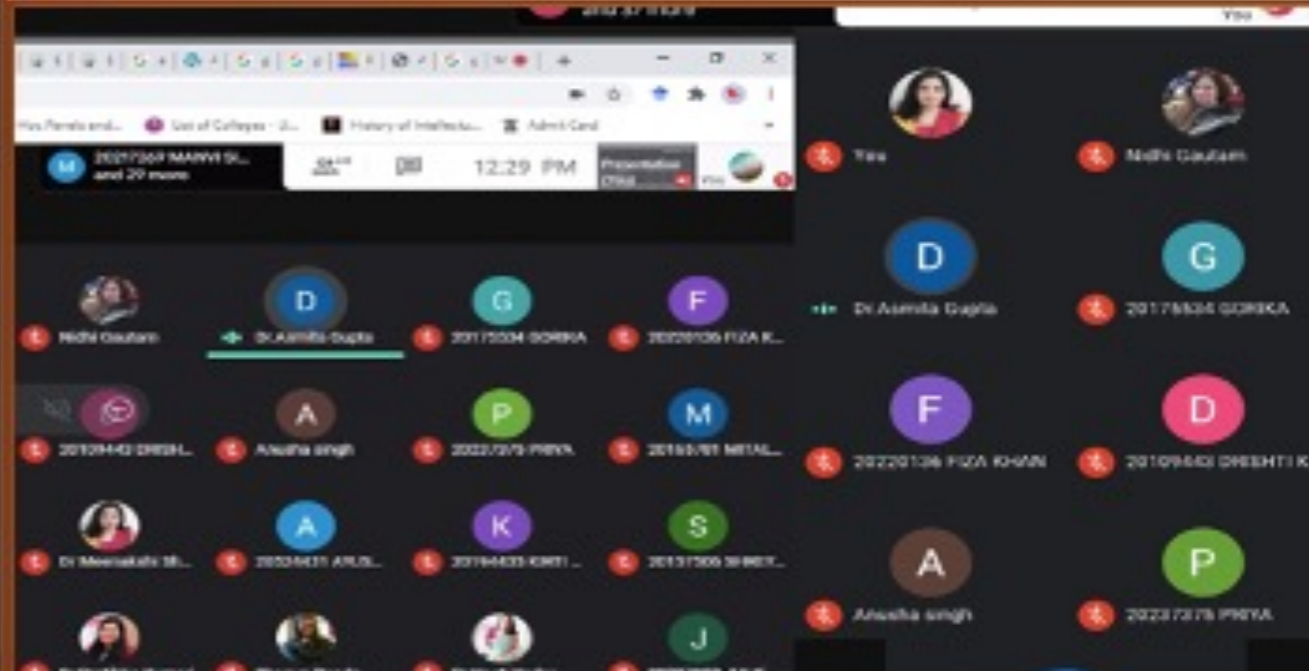
- For online Registration: <https://forms.gle/pAynAz7saHRztZrdZ>
- Registration Fee: Free
- Mandatory for all Students of Botany Hons 1<sup>st</sup> Year
- Venue: Google Meet
- For queries call at -9971940098, 9868535813

Dr Savita Roy Principal  
Convener (IQAC) Dr. Pooja V. Anand  
Coordinators Dr. Nidhi Gautam, Dr. Meenakshi Sharma

Resource Persons: Dr. Nidhi Gautam, Meenakshi Sharma, Mrs. Neeti Yadav, Dr. Shagun Danda, Dr. Asmita Gupta

**Translate feature** : How to translate messages in Microsoft Teams! (You can use this feature for Chats, Announcements and icons)

- Click on the photo on the top and go to the settings option from the menu.
- So lets say I understand Hindi. So scroll down to language settings and your language to Hindi. Click on save and restart option
- Now you can go to any message from your teacher. Click on translate icon and your message will be translate into your preferred language



**Viewing Features (Custom Background & Together Mode)**



**Microsoft Teams features and benefits**

<b>Assignments</b> Assign tasks and give class assignments.	<b>Screen sharing</b> Share your screen or presentation in real time.	<b>Ink</b> Easy-to-use commenters and chat in a more personalized format, all in Microsoft Teams.	<b>Whiteboard</b> Collaborate in Microsoft Teams using a freeform, infinite digital canvas.	<b>Raise your hand</b> Make your voice heard without disrupting other students.
<b>Together mode</b> See everyone in one frame.	<b>Accessibility</b> Get better eyes on your screen.	<b>Integration</b> Connect with your favorite apps.	<b>Custom background</b> Personalize your meeting space.	<b>Insights</b> Track meeting performance.





# NATIONAL AND INTERNATIONAL SEMINARS

- National Webinar on "Biodiversity and Conservation" on 8<sup>th</sup> June 2020
- Dr A.A. Mao, Director, Botanical Survey of India, H.Q. Kolkata and Dr Faiyaz A. Khudsar, Scientist In-charge of Yamuna Biodiversity Park addressed to more than 180 participants.



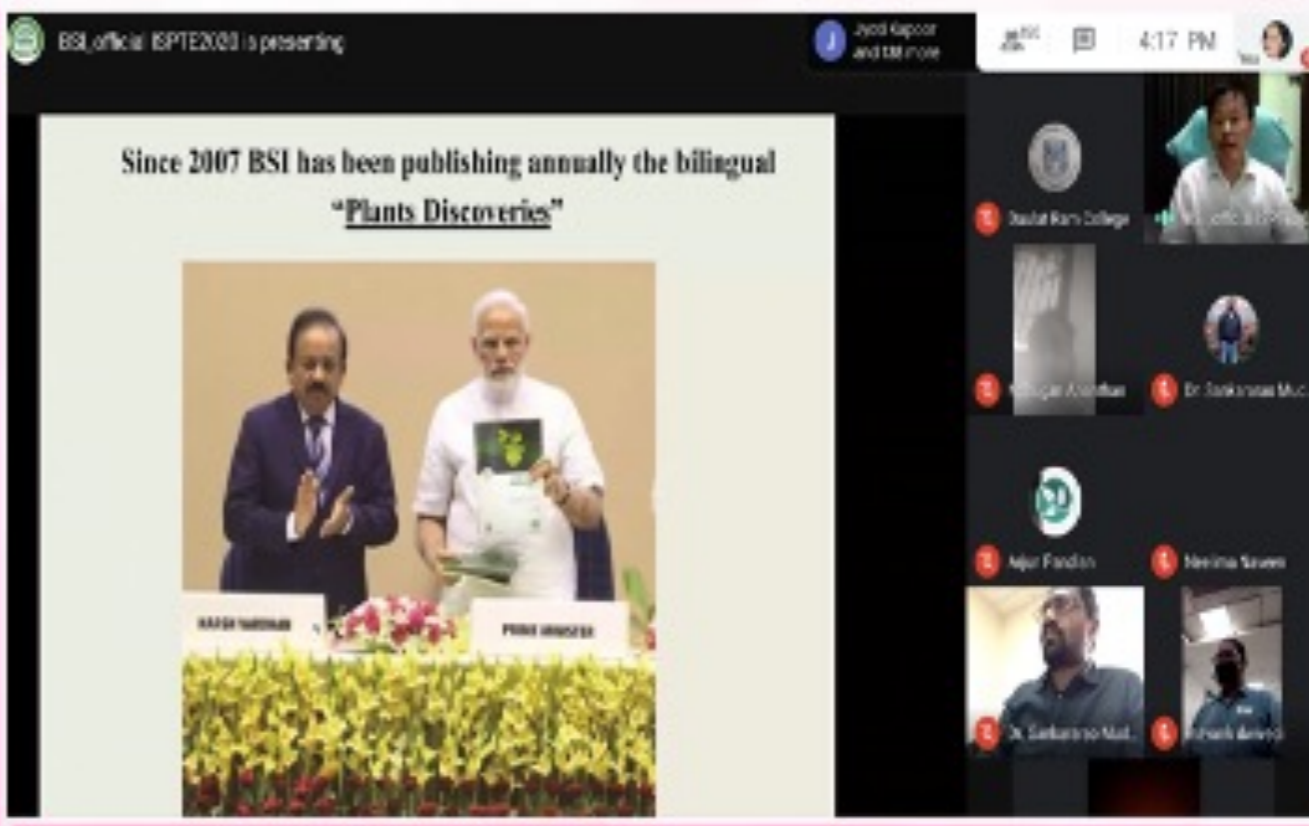
Department of Botany, Daulat Ram College  
University of Delhi  
Under the aegis of Internal Quality Assessment Cell  
organizes **WEBINAR** on  
**BIODIVERSITY & CONSERVATION**  
Monday, 8th June 2020, 3:30 pm onwards  
Join us with Google meet

**Dr. Faiyaz A. Khudsar**  
Scientist In-charge  
Yamuna Biodiversity Park (YBP Delhi)  
and  
Scientist, CEMDE (University of Delhi)

**Dr. Ashilo Asosii Mao**  
Director  
Botanical Survey of India  
India.


Register at: <https://forms.gle/sVWKPZUvpKW4o76x5> Registration deadline: 7th June 2020  
*(A certificate will be provided to all participants after successful completion of module and after duly filling the feedback form which will be sent through e-mail)*

Dr. Savita Roy Patron  
Dr. Nidhi Gautam Convener  
Dr. Meenakshi Sharma Co-convener  
Dr. Shagun Dandia Coordinator



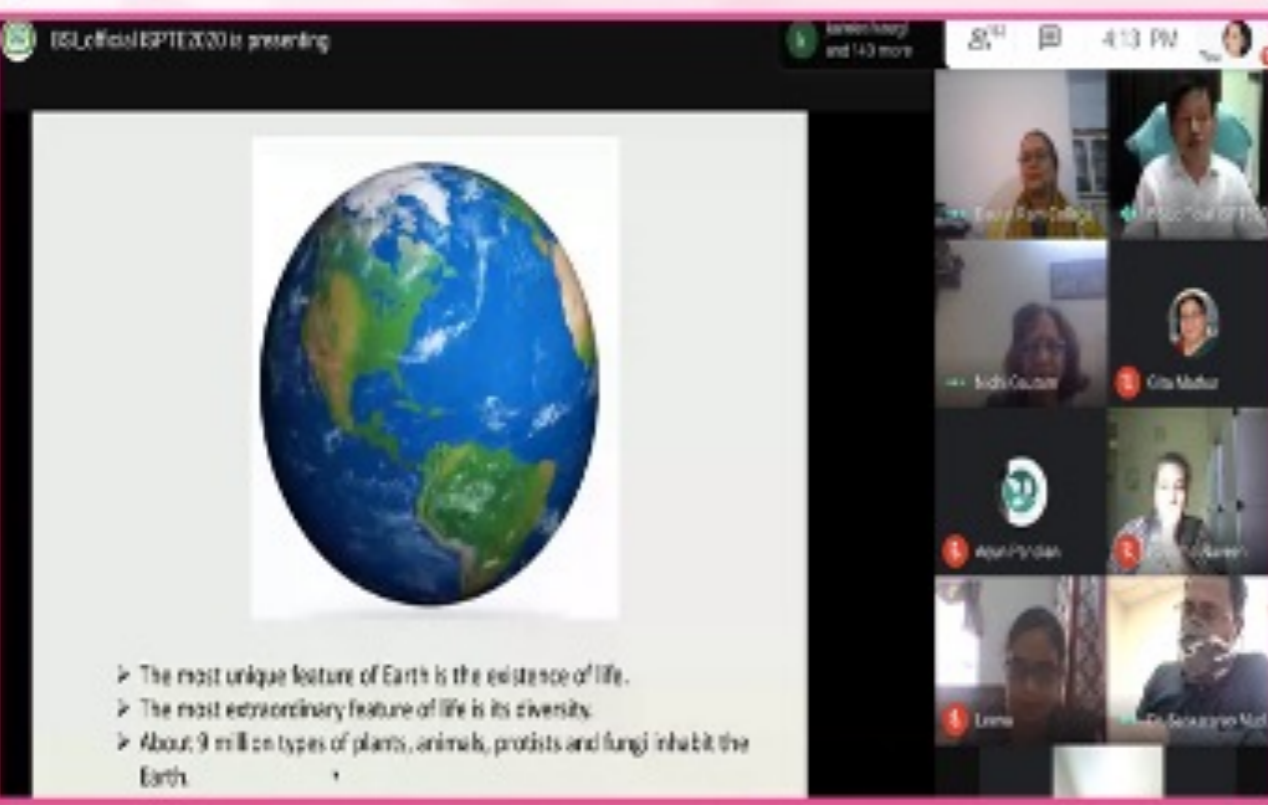
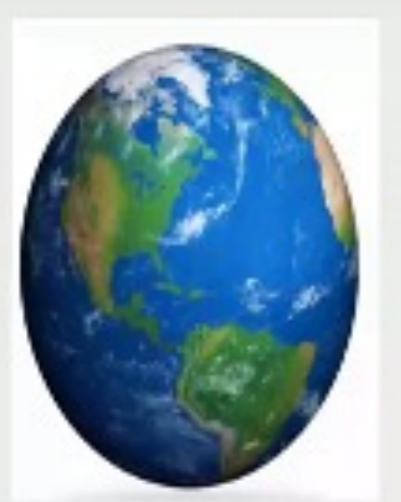
BSI official ISPTEX200 is presenting

Since 2007 BSI has been publishing annually the bilingual "**Plants Discoveries**"



Dr. Ashilo Asosii Mao and Dr. Faiyaz A. Khudsar

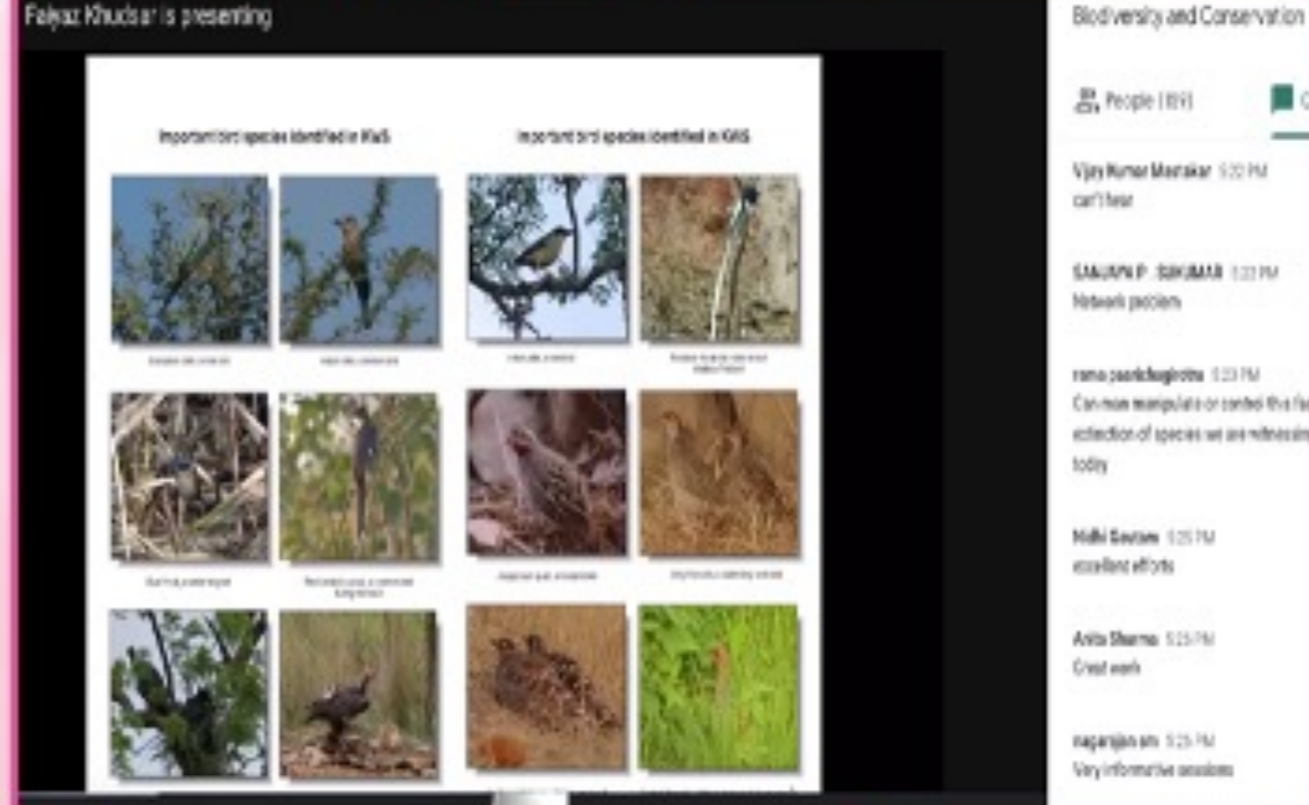
4:17 PM

BSI official ISPTEX200 is presenting


- The most unique feature of Earth is the existence of life.
- The most extraordinary feature of life is its diversity.
- About 9 million types of plants, animals, protists and fungi inhabit the Earth.

4:13 PM



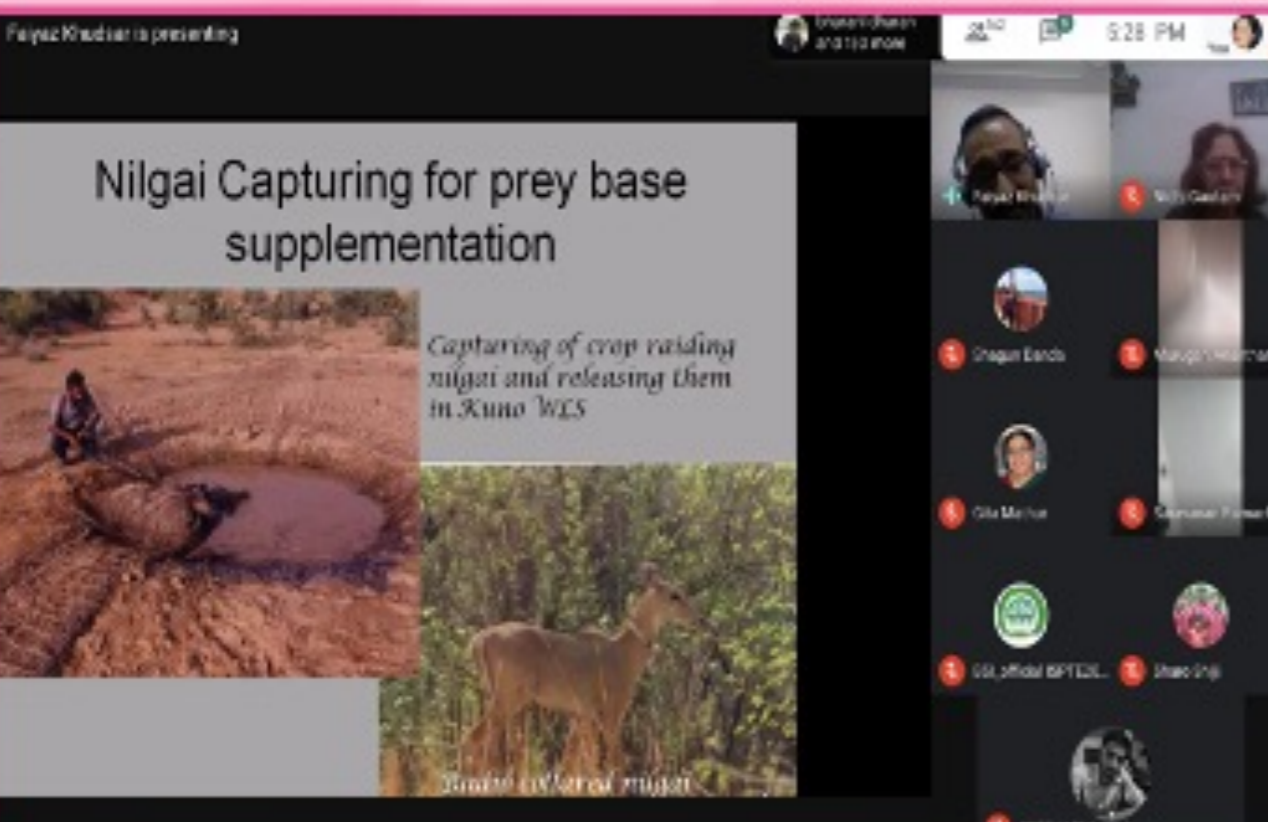
Faiyaz Khudsar is presenting

Important species identified in GIS



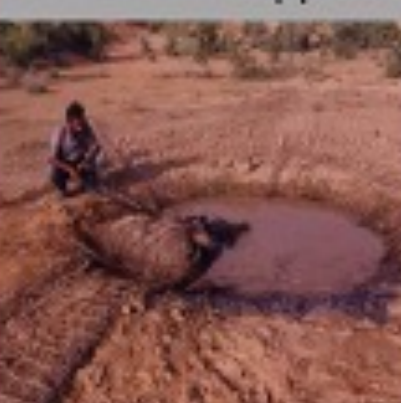
Biodiversity and Conservation

4:25 PM




Faiyaz Khudsar is presenting

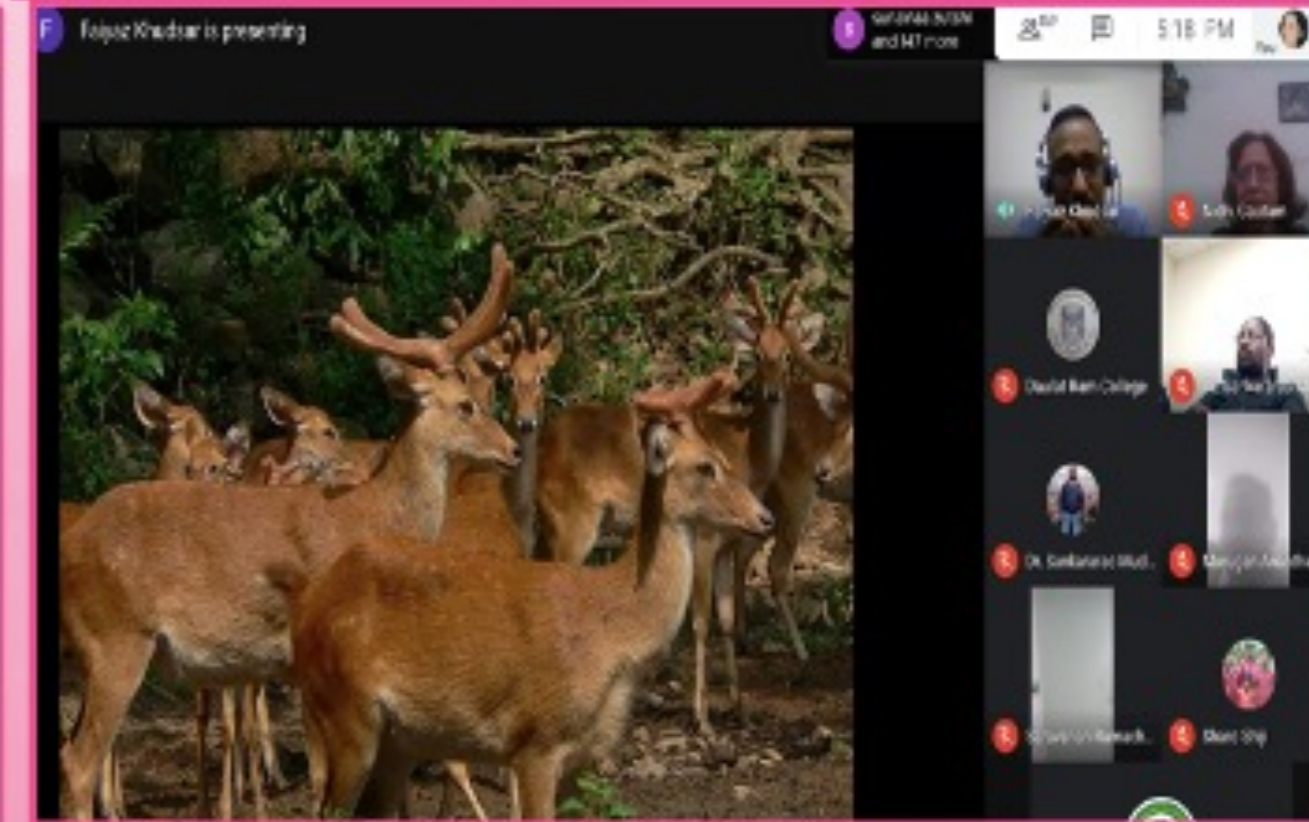
Nilgai Capturing for prey base supplementation




Capturing of crop raiding nilgai and releasing them in Kuno WCS



4:28 PM



Faiyaz Khudsar is presenting



4:28 PM



# NATIONAL AND INTERNATIONAL SEMINARS

**VASUNDHARA**  
THE BOTANICAL SOCIETY  
DAULAT RAM COLLEGE  
AWARDED 'A' GRADE BY THE NAAC

Inaugural Lecture  
*"Our Nature and Wildlife Heritage: Past, Present & Future"*

**MS RADHA SHARMA**  
Co-founder & Director,  
Earth Calling Expeditions  
Mylapore, Chennai (Tamil Nadu)

26<sup>th</sup> August 2020 at 3:30 pm (Activity Period)

**Dr Savita Roy**  
(Principal)

**STAFF ADVISORS**  
Dr Nidhi Gautam (9868535813)  
Dr Meenakshi Sharma (9971940098)

**PRESIDENT**  
Priyanka

**VICE PRESIDENT**  
Askriti Singh

radha sharma is presenting

PE 1556116431, 10/11/2020

4:00 PM

*LIFE IS ALL ABOUT CREATING YOURSELF*

www.earthcallingexpeditions.com

radha sharma is presenting

304823004 SHARMA, and 5 more

4:02 PM

**"OUR NATURE AND WILDLIFE HERITAGE"**  
PAST PRESENT AND FUTURE

DAULAT RAM COLLEGE  
DAULAT UNIVERSITY

radha sharma is presenting

304823004 SHARMA, and 4 more

4:53 PM

**EGO** **ECO**

radha sharma is presenting

304823004 SHARMA, and 5 more

4:50 PM

**EGO** **ECO**

radha sharma is presenting

304823004 SHARMA, and 4 more

4:58 PM

www.earthcallingexpeditions.com

- An inspiring lecture on **"Our Nature and Wildlife Heritage: Past, Present & Future"** by **Ms Radha Sharma**, Co founder and Director, Earth Calling Expeditions, Mylapore, Chennai was organised on 26<sup>th</sup> August. Ms Radha, one of our bright alumnae (1996-1999), teacher and a passionate wildlife photographer formally inaugurated the Botanical Society for 2020-21 and shared her personal experiences of wildlife safaris. She emphasised on the importance of Tiger, the umbrella species of forest ecosystem and its conservation.



# NATIONAL AND INTERNATIONAL SEMINARS

**VASUNDHARA Botanical Society 2020-21 DAULAT RAM COLLEGE**  
 DIT Star College, NAAC Accredited Grade 'A' College NIRF - 26th Rank, India Today Ranking Science : 7th Rank; Commerce : 13th Rank; Humanities : 15th Rank  
**University of Delhi present**  
**A Session On "Future Prospects and Career Options in Data Science"**  
**29<sup>th</sup> January, 2021**  
**Time: 4:00 pm- 5:30pm**

Link for online Registration: <https://forms.gle/qe800v32wCfaxQ6>  
 Registration Fee: Free  
 Venue: Google Meet

**Speaker**  
**Saikat Bhownik**  
 (Sr. Learning consultant)

**Staff Advisors**  
**Dr. Nidhi Gautam**  
**Dr. Meenakshi Sharma**

**Speakers**  
**Avtar Singh & Nidhin Chakraborty**  
 (Sr. Admission Counselor)

**Dr Savita Roy**  
 Principal

President: Priyanka, Vice-President: Aakriti Singh, Treasurer: Gayatri Deka, General Secretary: Mansi Vatwani, Joint Secretary: Subhra Yadav.  
 For queries call at - 9971940098, 3868325813

Saikat Bhownik is presenting

**PG Program in Data Science and Business Analytics**

Learn from India's best Analytics school that makes you job-ready and build a rewarding career

**MODULE-DSBA**

GOOGLE MEET LINK-DATA SCIENCE

**Online Mode (Mentored Learning Model)**

Recreating Classroom-Type Interactions In The Digital World

- Learn concepts through online recordings
- Personalized weekly online mentoring sessions with industry experts
- Work on projects to apply what you've learnt

- Duration 12 months
- Eligibility: Bachelor's degree with a minimum of 50% aggregate marks
- Work experience not mandatory
- 225+ hours of online learning content. Flipped classroom model
- Each week, the program office will release the schedule and module(s) for the upcoming week. These will be made available on Olympus
- Personalized live online mentorship session happens every weekend (either Saturday or Sunday) for 2 hours
- Mentor remains the same for entire 12 months
- Small Niche Groups based on work experience of 12 - 15 Candidates
- 17 real-world projects and 1 Capstone guided by industry experts
- WhatsApp group with mentor and program office manager
- Domain specific content in 9-11th month
- Fees: 2,25,000 + GST + 2,25,000

Saikat Bhownik is presenting

**The Time is Now**  
 Statistics to Why learn "Data Science"

- 61% → Around 61% of jobs are open for candidates with 0-5 years experience.
- 2.7 Million → The 2020 global estimate calls for 2.7 million job postings for analytics and data science roles.
- #1 → Data Science is ranked as the best job in America for 2019 - Glassdoor
- \$200B → India to become one of the top three markets for Big Data by 2020
- \$ 28.2% → India's data science industry is growing at a healthy rate

GOOGLE MEET LINK-DATA SCIENCE

Saikat Bhownik is presenting

**Why is this happening? (Rapid Increase in Data Generation)**

The Start of the Fourth Industrial Revolution

GOOGLE MEET LINK-DATA SCIENCE

Saikat Bhownik is presenting

**Why pursue a career in Data Science and Business Analytics?**

- The supply is still lower than the demand
- Business Analytics can be applied to any industry and is an easy entry from other careers
- Upstart stage to secure yourself within the same industry
- Abundant salaries

GOOGLE MEET LINK-DATA SCIENCE

- Webinar on "FUTURE PROSPECTS AND CAREER OPTIONS IN DATA SCIENCE" on 27<sup>th</sup> January, 2021 was aimed to expose students specially III yr to various opportunities available in this relatively new but fast emerging field at National and international levels.
- More than 150 students attended the webinar and clear their doubts



## NATIONAL AND INTERNATIONAL SEMINARS

On 23<sup>rd</sup>-24<sup>th</sup> March, 2021, Department of Botany and Vasundhara the Botanical Society successfully organized a very first International Conference on "EFFECTIVE STRATEGIES FOR BIODIVERSITY CONSERVATION" under the aegis of IQAC and the able guidance of Prof. Savita Roy (Principal) and Dr Sarita Nanda (Vice Principal).

The main focus of the conferences was to discuss various *in-vivo* and *in-vitro* practices of protecting and preserving the Biodiversity and ecosystems. Various aspects of sustainable biodiversity conservation like framing of Environmental policies, establishment of Biodiversity parks, use of Genomics techniques for biodiversity analysis etc. were deliberated upon justifying the theme of the conference as "EFFECTIVE STRATEGIES FOR BIODIVERSITY CONSERVATION". A total 116+ registrations were received and more than hundred participants were present on both the days of the conference. Several studies conducted on the role of Biodiversity in the formation of novel drugs, economic growth of the country and its effects on climate change, mismanagement of natural resources and harming biodiversity were presented during the conference. Helping local communities and individuals secure rights to use natural resources and involving local communities in responsibly managing them can prevent or minimize conflict and provide opportunities for achieving higher economic growth. All these aspects were extensively covered with live videos, true stories, laboratory data, published research papers and animation techniques.



### DEPARTMENT OF BOTANY & VASUNDHARA

The Botanical Society

DAULAT RAM COLLEGE, UNIVERSITY OF DELHI

Under the aegis of internal quality assessment cell  
Organizes

An International Conference on

## "EFFECTIVE STRATEGIES FOR BIODIVERSITY CONSERVATION"

23<sup>rd</sup> -24<sup>th</sup> March, 2021 (3:00 pm onwards)



DBT Star College, NAAC  
Accredited Grade "A" College  
NIRF - 26th Rank, India Today  
Ranking-Science : 7th Rank;  
Commerce : 12th Rank;  
Humanities : 15th Rank



Dr. Ekta Khurana  
Scientist and Ecologist  
Biodiversity Parks Programme  
YBP-CEMDE, University of Delhi



Professor, V. C. Kalia  
National Research Foundation  
Department of Chemical Engineering  
Konkuk University, (Republic of Korea)



Professor, Maria Teresa Ceccherini  
Department of Agrifood and  
Environmental Science, University  
of Florence, Italy



Dr Monalisa Sen  
Programme Coordinator  
(Biodiversity), ICLEI-South Asia

Patron  
Prof. Savita Roy  
(Principal)

Coordinator, IQAC  
Dr Sarita Nanda  
(Vice-Principal)

Convenors  
Dr Nidhi Gautam (TIC)  
Dr Meenakshi Sharma

Organizing committee: Dr Rama Pasricha, Dr Rekha Kathal, Dr Meenam Bhatia, Dr Sunita George, Ms. Neeti Yadav, Dr Vidhi Chaudhary, Dr M. Leleeka Devi, Dr Aradhana Yadav, Dr Pratibha Kumari, Dr Asmita Gupta, Dr Shagun Danda, Dr Kamlesh Kumari

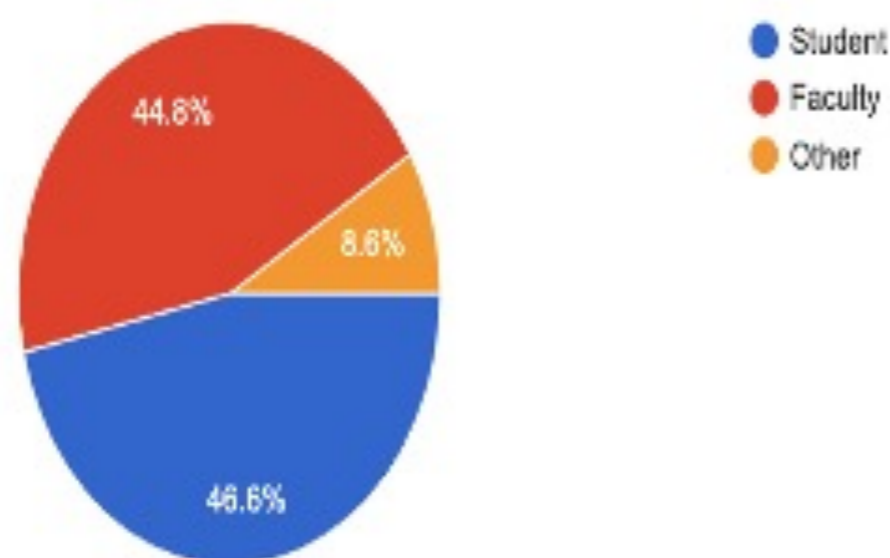
For queries call at: 9971940098, 9868535813, 9899965233, E-certificates will be provided to all the participants after successful completion of conference and after duly filling the feedback form which will be shared



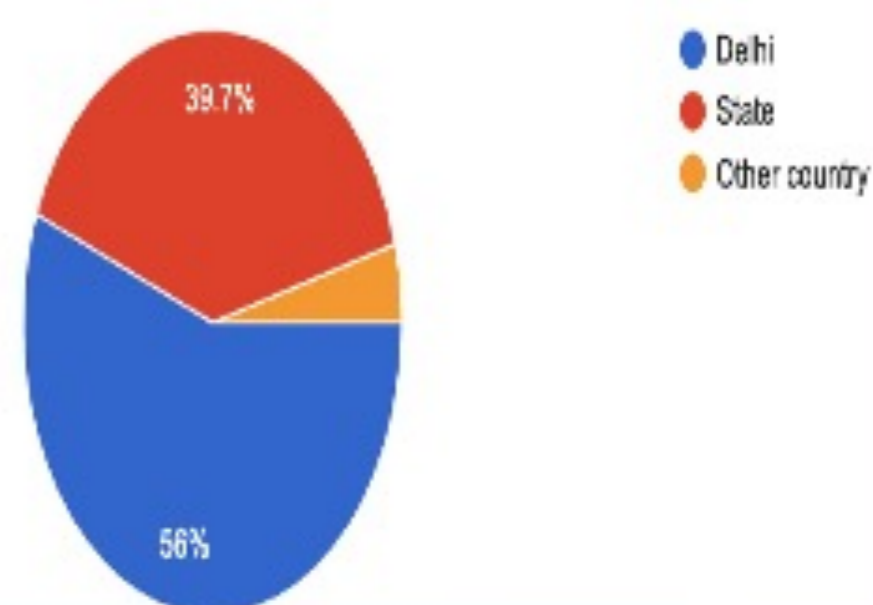
## NATIONAL AND INTERNATIONAL SEMINARS

- Department has approached many renowned Professors and Scientist from all over the world as key note speakers. Prof V. C. Kalia from National Research Foundation (Republic of Korea), Department of Chemical Engineering, Konkuk University, Seoul, Republic of Korea was the first Keynote speaker of the event who extensively explained about the "Novel Drugs to Target Psycho-Pathogenic Bacteria" by quench sensing technique.
- Dr. Ekta Khurana, Scientist in Yamuna Biodiversity Parks Programme CEMDE, University of Delhi, shared her personal experiences, narrated true stories and delivered an engrossing lecture on "Delhi's Biodiversity Parks: Restoring environmental quality and Health".
- The third key note speaker of the day was Dr. Monalisa Sen, She is working as Programme Coordinator (Biodiversity) in ICLEI-South Asia. Dr Sen explained various hidden aspect of policies of governance in India for Urban Biodiversity conservation.
- The conference ended on second day with the lucid talk of fourth key note speaker Professor, Maria Teresa Ceccherini from the Department of Agri-food and Environmental Science, University of Florence, Italy. Prof Maria's was beautifully animated and explained greatly how modern and advanced genomics techniques play crucial role in Biodiversity conservation. Her talk on "Soil Meta-genomics and Biodiversity: a history of conquests and protection" was very interactive and thought provoking. During the conference, participants specially students had a great opportunity to listen and interact with learned personalities about Biodiversity conservation and its impact on life. The active involvement of faculty members of various colleges made the International conference a big success and motivated us to organize more such events in future.

116 responses



116 responses





# GLIMPS OF NATIONAL AND INTERNATIONAL SEMINARS

**DEPARTMENT OF BOTANY & VASUNDHARA**  
The Botanical Society  
DAULAT RAM COLLEGE, UNIVERSITY OF DELHI

**"EFFECTIVE STRATEGIES FOR BIODIVERSITY CONSERVATION"**  
23<sup>rd</sup> -24<sup>th</sup> March, 2021 (1:00 pm onwards)

**Soil Metagenomics and Biodiversity:  
a history of conquests and protection.**

Maria Teresa Ceccherini  
(DAGRI, University of Florence, Italy)

**What is metagenomics?**  
It is the study of gene or genome of a community by sequencing.

Soil Nucleic acid isolation → DNA → RNA

**Targeting key marker genes**  
Potential or active community (Bacteria/Fungi/archaea) → Functional diversity (16S, rDNA, etc., and Cls, pncD) → amplification → *blaK*, *PolA*, *PolB* → Alpha (Biosciences)

**Direct shotgun sequencing**  
Metagenomic (DNA) → Mapping to genomes → In silico assembly of genomes → Public functional profiles  
Metatranscriptomic (RNA) → Mapping to pathways → In silico assembly of transcripts → Alpha pathway/metagenomics

The term "metagenomics" was first used by J. Handelsman, J. Staley, Robert M. Goodman, and first appeared in publication in 1998

**Environmental Education** ICLEI

ICLEI South Asia has developed a comic book on significance of nature based solutions in combating climate change. This book has a wide target audience including citizens, city government officials, students, elected representatives.

**HOPE IN THE CITY**

**Romans**

The writer Cato advocated the use of manure and green manure as amendments to improve soil fertility; this is the first recorded reference to what we now know as compost.

The Romans also began terracing their fields to reduce erosion.

**Plants and Human beings  
Vs  
Bacteria**

**DEPARTMENT OF BOTANY & VASUNDHARA**  
The Botanical Society  
DAULAT RAM COLLEGE, UNIVERSITY OF DELHI

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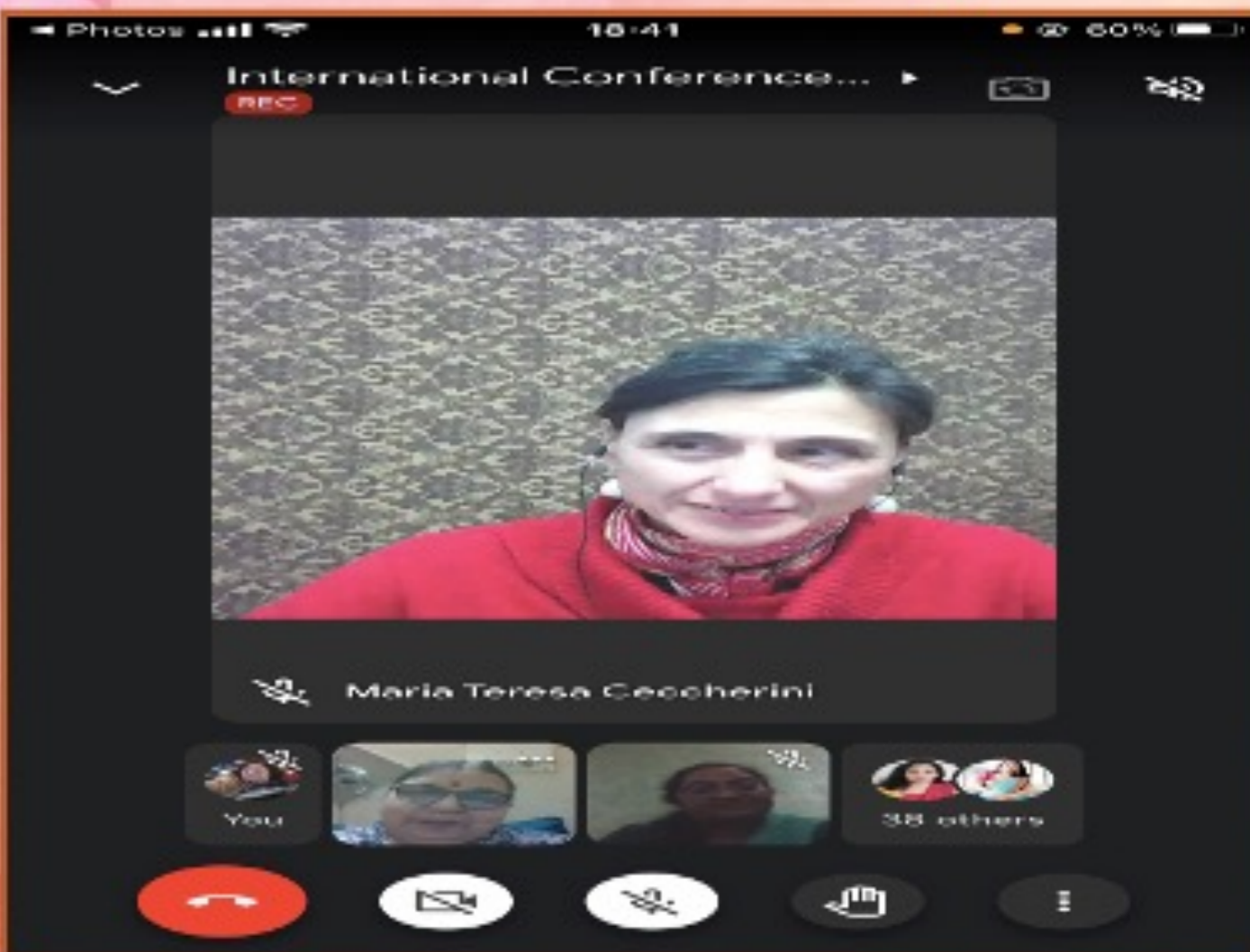
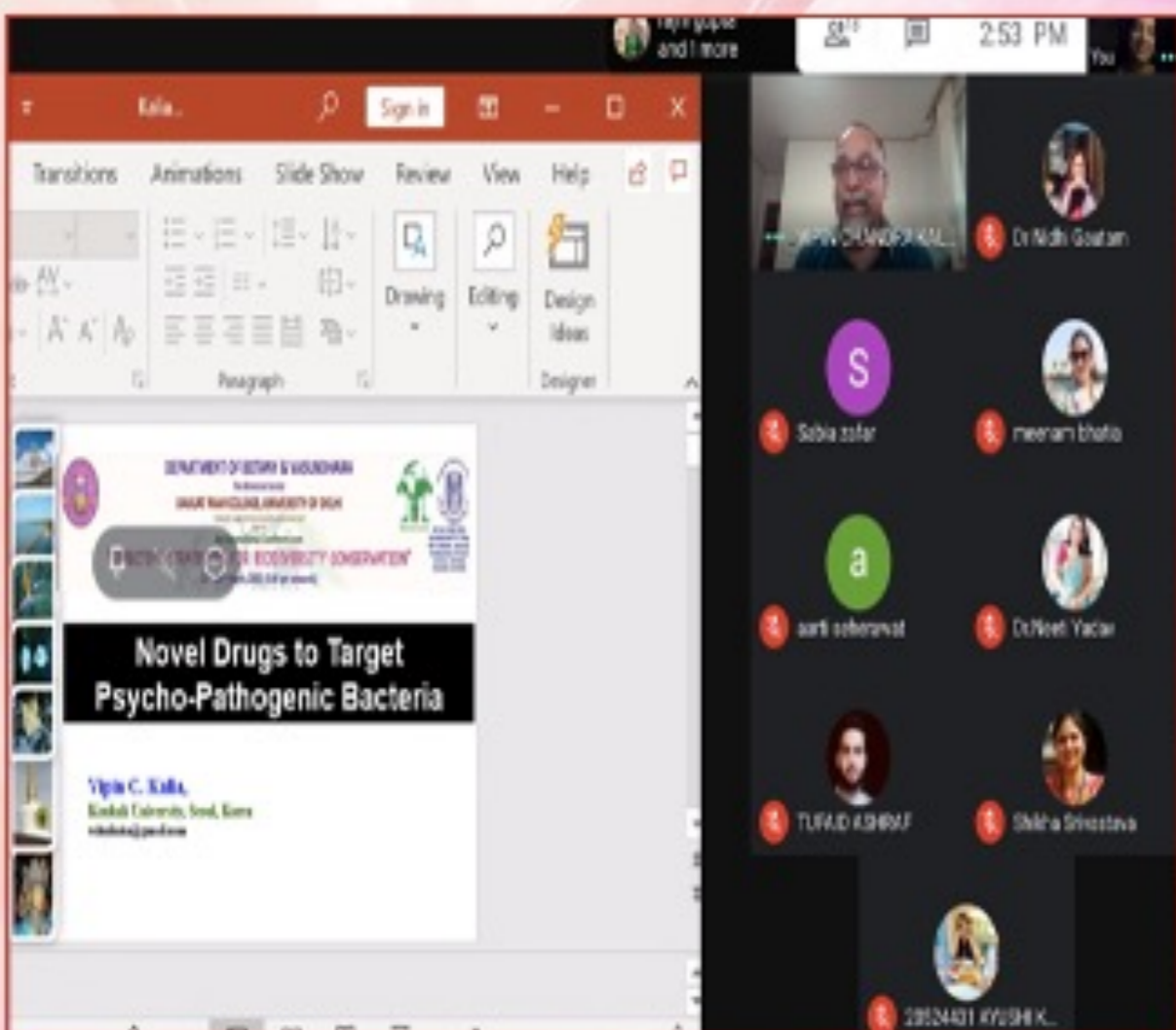
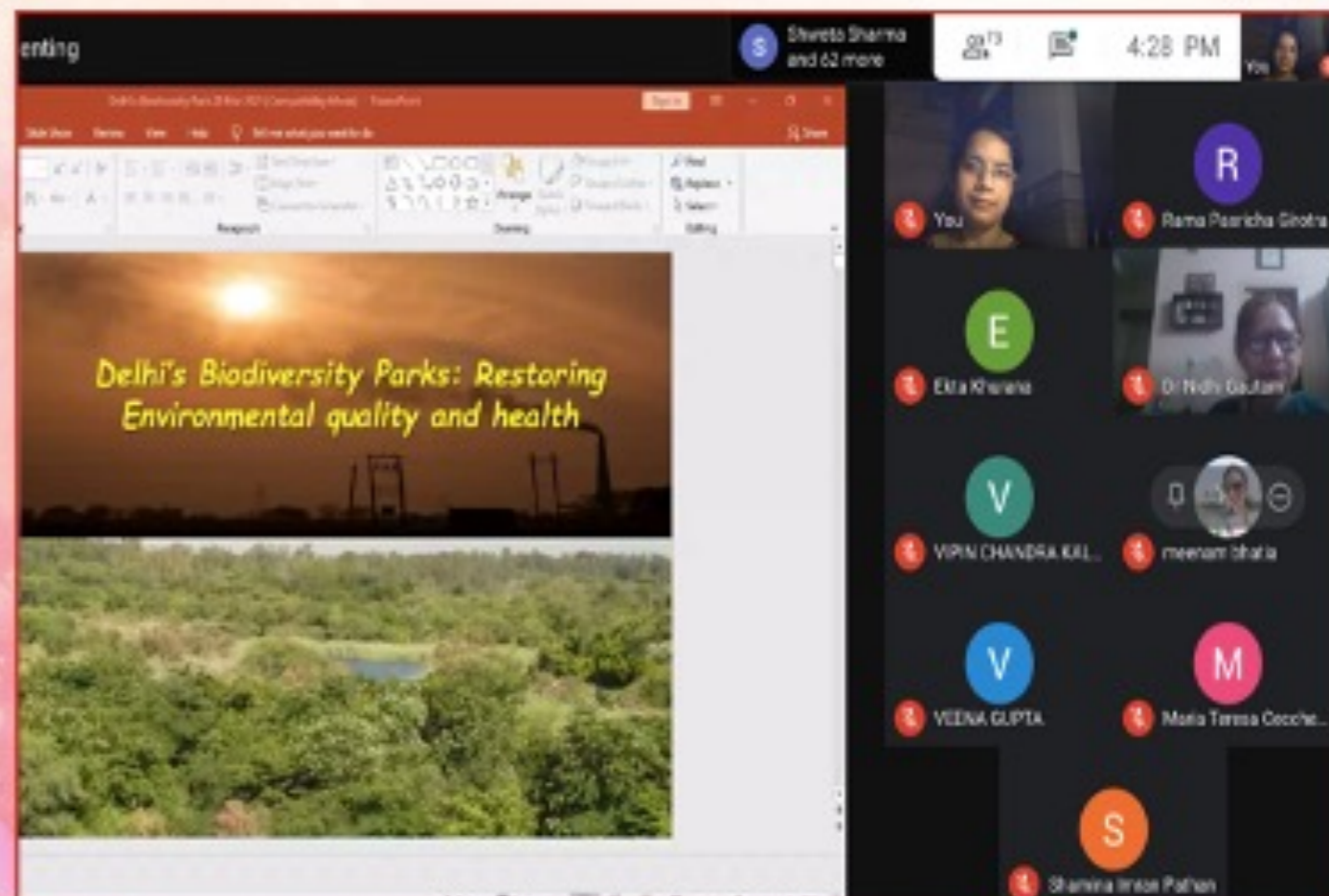
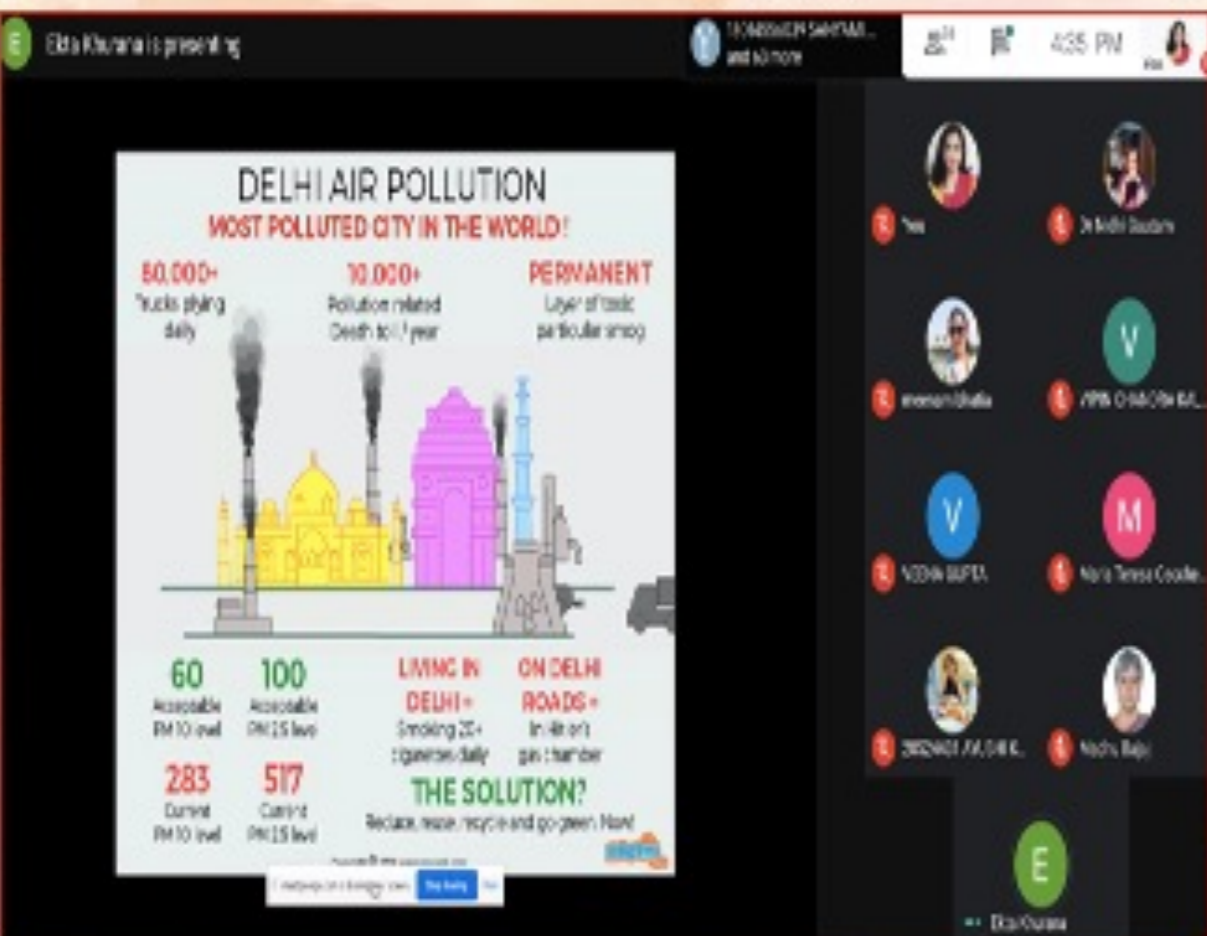
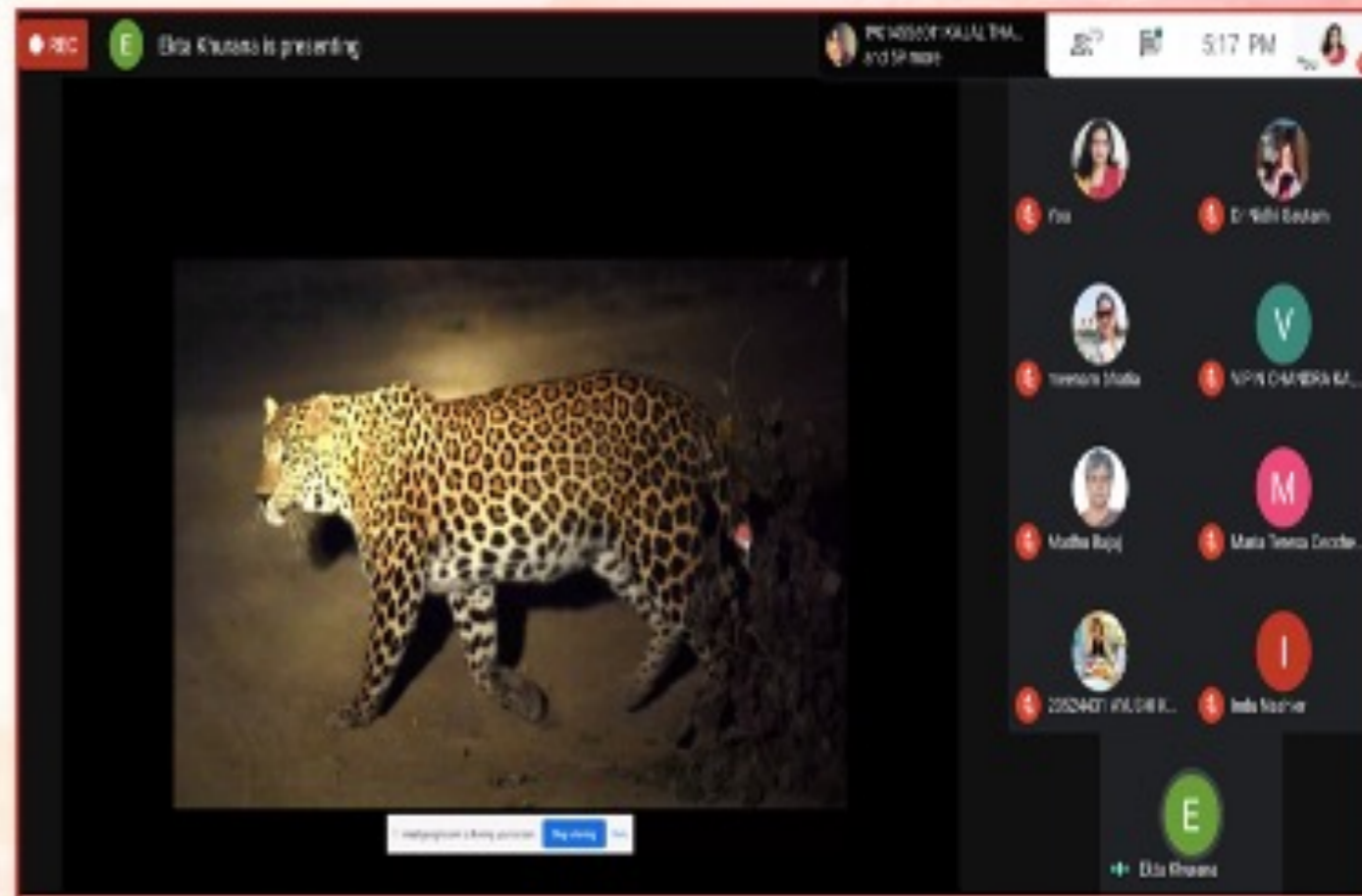
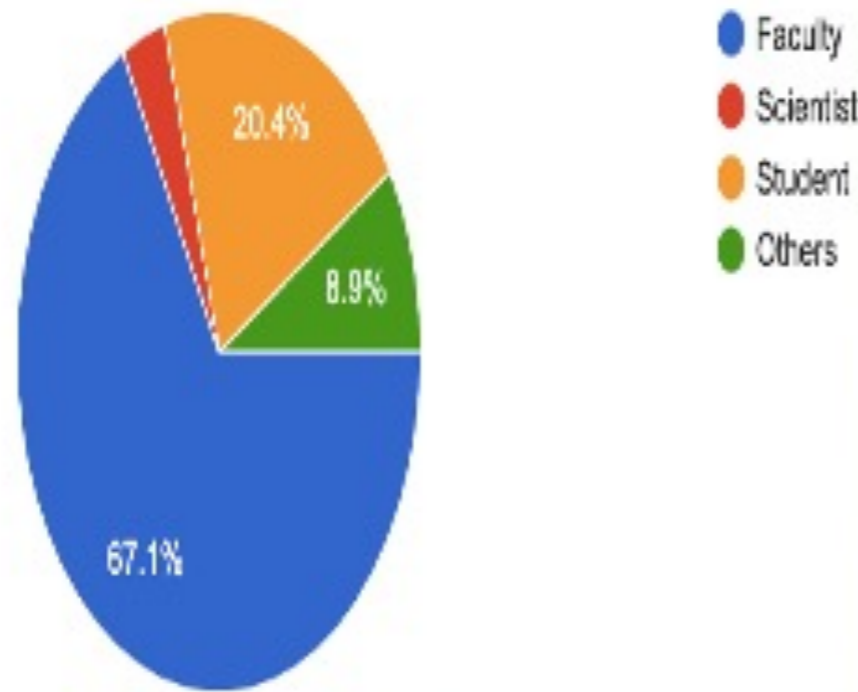
Maria Teresa Ceccherini  
(DAGRI, University of Florence, Italy)

UNIVERSITÀ DEGLI STUDI FIRENZE | **DAGRI** DEPARTMENT OF AGRICULTURE & TECHNOLOGICAL SCIENCES



# GLIMPSE OF NATIONAL AND INTERNATIONAL SEMINARS

225 responses





## National Invited Talk on “National Genebank-Conserving Biodiversity for Food Security”

**Convenors:** Dr. Nidhi Gautam & Dr. Meenakshi Sharma

A national talk on GeneBank's role in conserving biodiversity for food security was organised on 14<sup>th</sup> June, 2021 and amazing talk delivered by DR. Veena Gupta, Principal Investigator of National Bureau of Plant Genetic Resources (ICAR-NBPGR), New Delhi. This talk provided an invaluable platform for discussions and knowledge sharing among experts, faculties and students. More than 100 students were attended the event. It underscored the critical importance of preserving genetic diversity through GeneBanks to tackle the challenges posed by climate change and promote sustainable agriculture. By recognizing the significance of GeneBanks and fostering collaborations, we can work towards a more food-secure and sustainable future. The event concluded with a call to action for continued efforts to conserve biodiversity and ensure the availability of diverse genetic resources for a resilient and thriving agricultural sector.

**VASUNDHARA 2020-21**  
The Botanical Society  
DAULAT RAM COLLEGE, UNIVERSITY OF DELHI  
organises  
An invited talk on

**“National Genebank-Conserving Biodiversity for Food Security”**  
by

  
**Dr Veena Gupta**  
Principal Scientist and Head  
Division of Germplasm Conservation  
ICAR-NBPGR PUSA Delhi  
& its validation  
14<sup>th</sup> June, 2021 (3.30 pm onwards)

  
**Prof. Savita Roy**  
(Principal)

  
**Dr. Nidhi Gautam**  
Staff Advisor

  
**Dr. Meenakshi Sharma**  
Staff Advisor

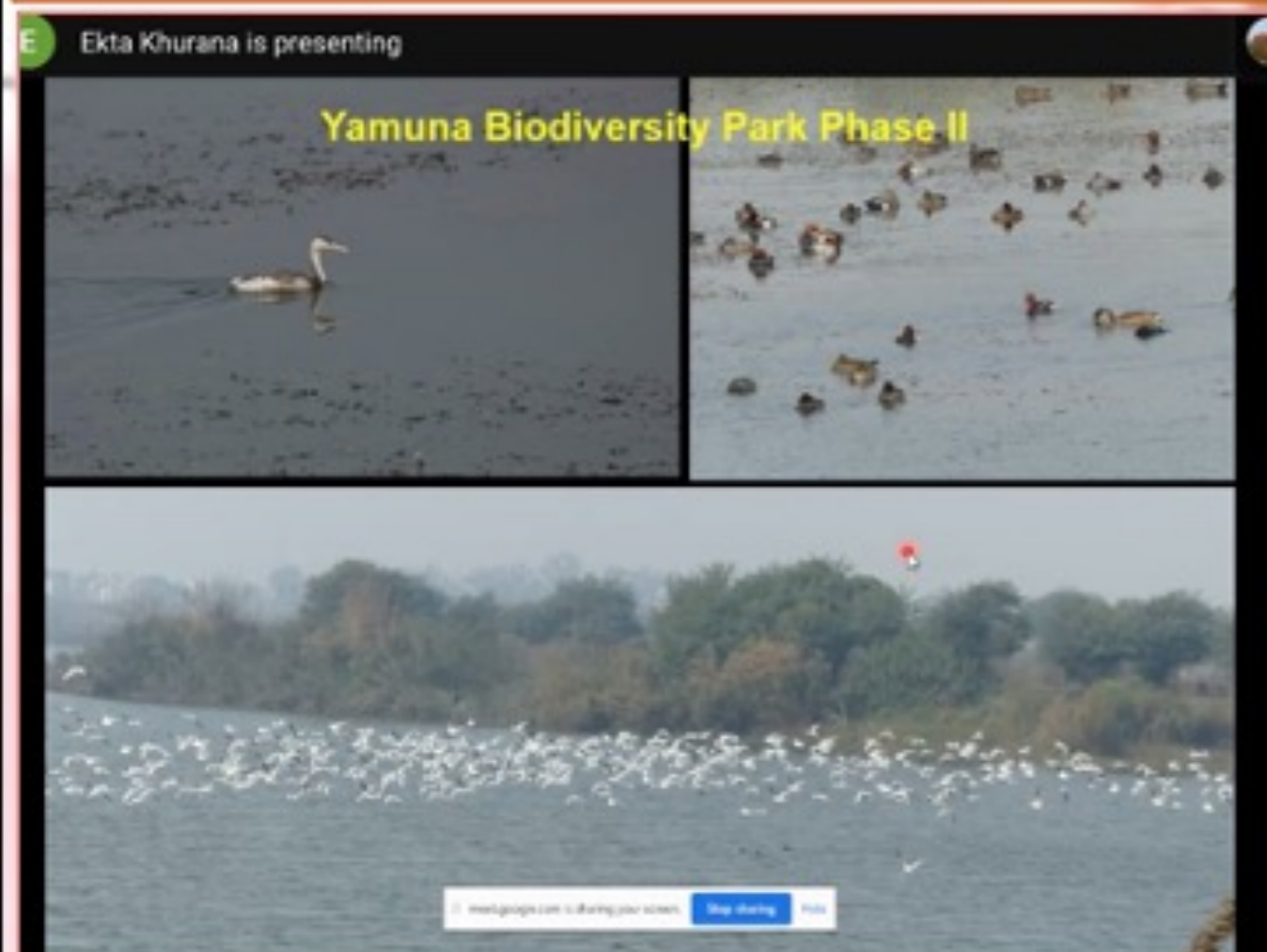
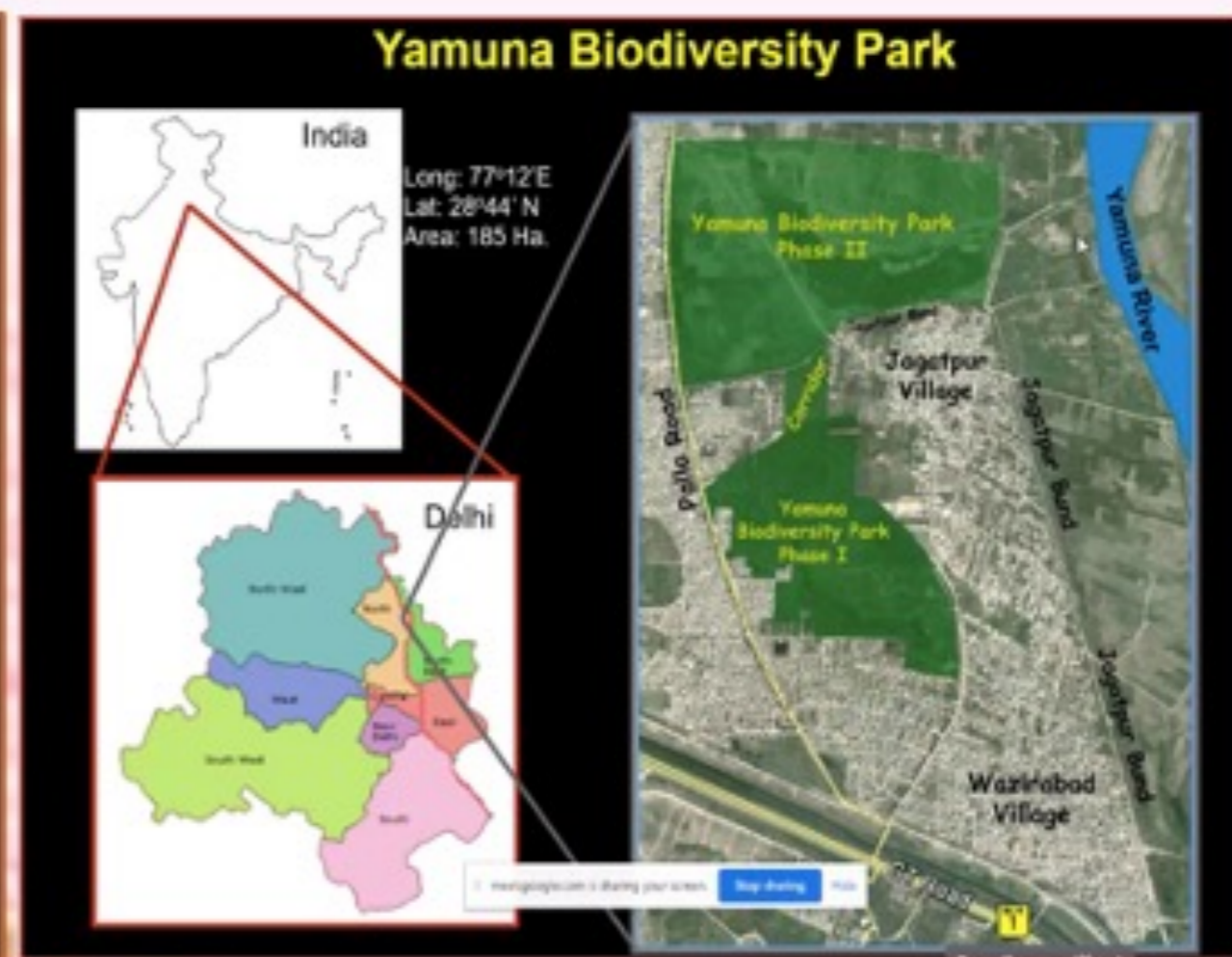
President: Priyanka  
Vice president: Aakriti Singh  
For queries call at: 9971940098, 9868535823  
Link for online Registration: <https://forms.gle/vBjfn3vqQDtNcz>

DBT Star College, NAAC Accredited Grade "A" College NIRF - 20th Rank, India Today Ranking- Science - 7th Rank; Commerce - 13th Rank; Humanities - 15th Rank



## ANNUAL FEST ORCHIDZ' 2021

Three day inter-college annual fest of Botanical Society was organised from 24th to 26th February 2021. The Paper Presentation event for the running Deepika Vigyan Trophy on "Role of Plants in Finance and Economic growth of our Country" was held on 24th and the Trophy was won by **Sachit from Kirori Mal College**. Other inter-college activities were Botanical Quiz, Botanical Antakshri, Photography, Waste to Best and Floral Dress Designing competitions that witnessed active participation of around 10 colleges of Delhi University. On the last day **Dr Faiyaz A. Khudsar**, Scientist In-charge of Yamuna Biodiversity Park delivered a lecture on "Restoration of Ecosystem". **Dr. Ekta Khurrana**, Senior Scientist, **Mr. Mohan Singh** and **Mrs Preeti Vohra**, Education Officer at YBP took us through an amazing virtual tour of the Biodiversity Park.





## IMPRESSIVE ACHIEVEMENT LIST OF BOTANY HONS STUDENTS

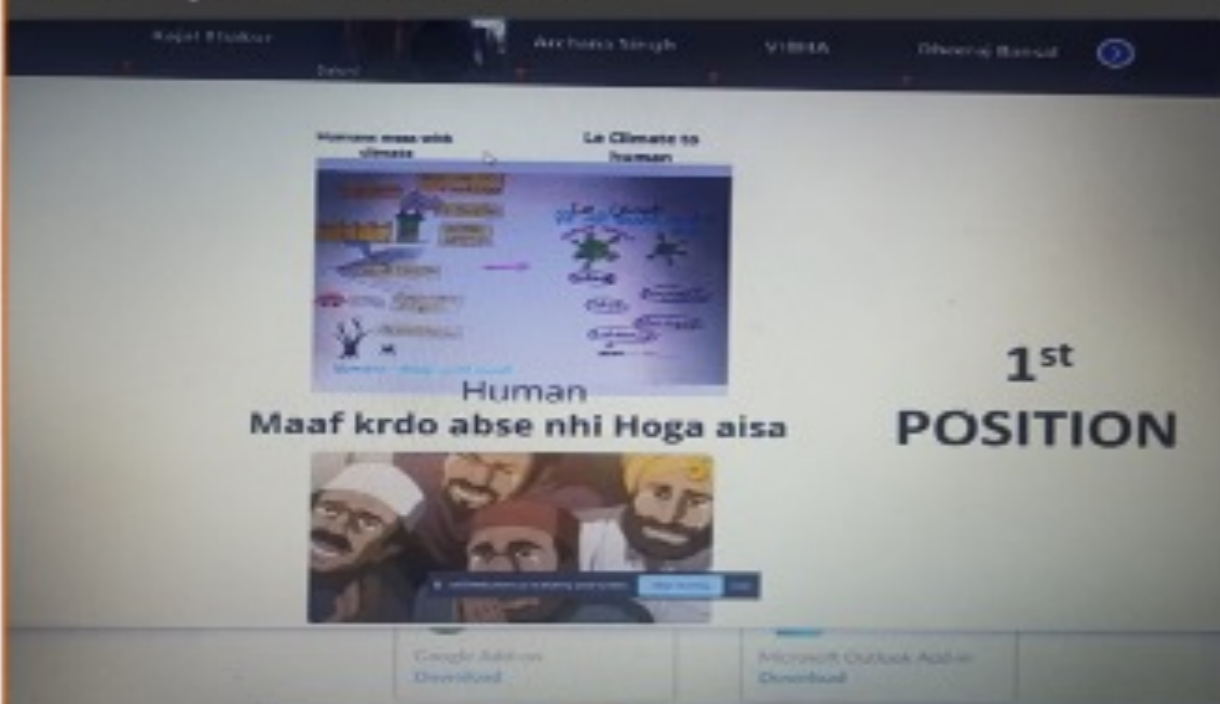
- Mehak Chaudhary II H Second Prize Poem competition at KMC
- Iqra Parveen II H Third Prize in Poster making at Kalindi College
- Priyanka Rani II H Second Prize in Litter to better at Deshbandhu College
- Priyanka Rani II H First Prize in Poster Making at Zakir Hussain Delhi College.
- Priyanka Rani II H Second Prize in Poster Making at Kirori Mal College.
- Urvashi Choudhary II H First Prize in Treasure hunt at Ramjas College
- Urvashi Choudhary II H First Prize in Idea Presentation at Shaheed Rajguru College of Applied Sciences
- Rashmi Kaushal II H First Prize in Quiz Competition at Kalindi College
- Sonal II H Second Prize in Story Writing Competition at Kalindi College
- Kajal Thakur II H Second Prize in Meme Making Competition at Hasraj College
- Kajal Thakur II H First Prize in Poster Making Competition at K M College
  
- Ayushi Kumari I H Third Prize in Anatomical Sketching Competition at Dyal Singh College.
- Ayushi Kumari I H Third Prize Painting Competition "Nature is the inspiration of every artist" at Kalindi College
- Ayushi Kumari I H First Prize in Face Painting hosted by Ritva Foundation of DRC and Miranda House
- Ritika I H Third Prize in Graphic Designing at Thapar University, Patiala
- Priya I H Second Prize in Photography at Ramjas College
- Tannu I H First Prize in Poetry Competition organised by Poetry Society of DRC
- Princy Pathak I H Third Prize in Story Writing Competition at Kalindi College
- Priya I H Second Prize in Photography Competition at Ramjas College
  
- Garima and Anamika III H First Prize and Running Trophy in Botany Quiz at Hansraj College
- Komal III H First Prize in Botanical Quiz at Ramjas College
- Komal III H First Prize in One Act Play at Kalindi College
- Komal III H Second Prize in Meme Making Competition at Kalindi College.
- Komal III H First Prize in One minute talk at Kalindi College.
- Komal III H First Prize in Botanical JAM at Kirori Mal College.
- Komal III H Second Prize in Meme Making at Kirori Mal College.
- Komal III H First Prize in Botanical Quiz at Zakir Hussain Delhi College.
- Komal III H Second Prize in Botanical JAM at Zakir Hussain Delhi College.
- Aakriti Singh and Komal III H First Prize in Quiz competition at Zakir Husain Delhi College
- Aakriti Singh III H Consolation Prize in E-poster Designing Competition at Deshbandhu College
- Tanvi Gupta III H First Prize in Photography Competition organised by Zoology Society, DRC
- Shrishti Jangwan III H First Prize in Story Writing Competition at Kalindi College
- Nancy III H Third Prize in Quiz Competition at Kalindi College
- Ritika, Harshita and Tanvi III H Second Prize in Video ad Making Competition at DDU College
- Chhavi ,Gayatri,Yukti and Urvashi II H First Prize in Idea Presentation Competition at Shaeed Rajguru College of Applied Sciences
- Mansi Vatwani, Abha Tripathi and Yukti Dhingra II H Second Prize in Botanical Quiz at Maitreyi College
- Mansi Vatwani II H Second Prize in Botanical Meme Competition at Dyal Singh College



## IMPRESSIVE ACHIEVEMENT LIST OF BOTANY HONS STUDENTS

- Ayushi Kumari I H First Prize in Academic Diagram Making Competition at Hansraj College
- Ayushi Kumari I H First Prize in Face Painting Competition organised by RITVA (DRC + MH)
- Ayushi Kumari I H Third Prize in Painting Competition at Kalindi College.
- Ayushi Kumari I H Third Prize in Anatomical Sketching Competition at Dyal Singh College
- Tannu and Akshita I H Third Prize in Paper Presentation a Third Prize at Miranda House
- Ritu Rawat I H Snap it-Floral Zoom, Photography Competition at Kirori Mal College
- Chhavi II H Second prize in Paper Presentation at Kirori Mal College
- Ritika I H Second Prize in Digital Art Competition at P.G.D.A.V. College
- Ritika I H Third prize in Graphic designing Competition at Thapar University Patiala.
- Priya I H Second Prize in Photography Competition at Ramjas College.
- Princy Pathak I H Third Prize in Story Writing Competition at Kalindi College.
- Tannu I H First Prize in Poetry Competition organised by Poetry Society of Daulat Ram College
- Kajal thakur I H First Prize in Quiz Competition organised by Kirori Mal College

II H Kajal Thakur 20-21



Good afternoon ma'am, I got first position in meme making competition organised by Srishti the botanical society of Kirori Mal college.

13:57

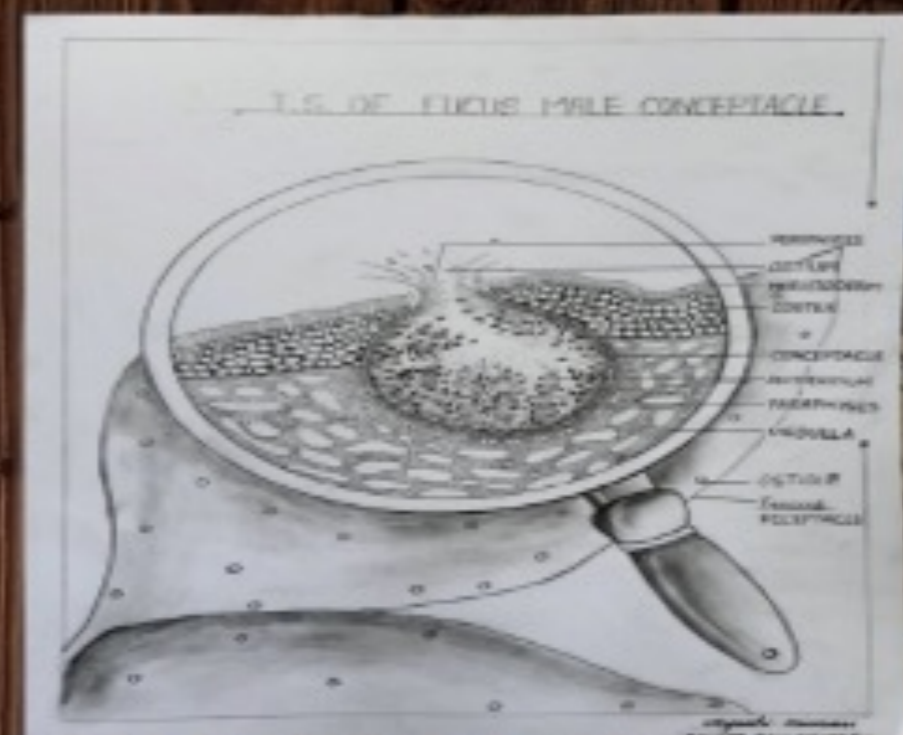
## 2nd position



**NAME: KAJAL THAKUR**  
**COLLEGE: D.R.C.**

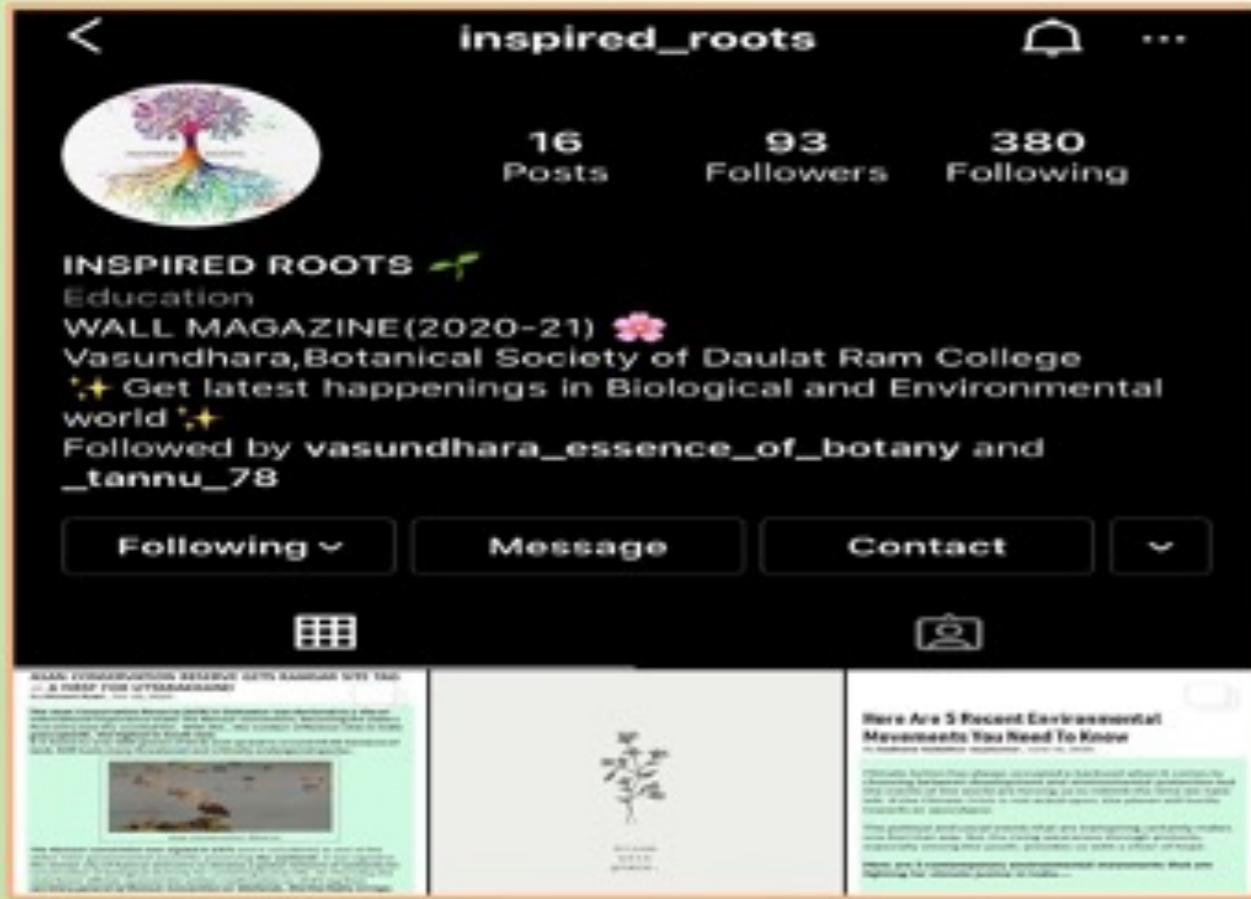


**FIRST POSITION HOLDER**  
**AYUSHI KUMARI**  
**B.Sc. HONS. BOTANY**  
**DAULAT RAM COLLEGE**

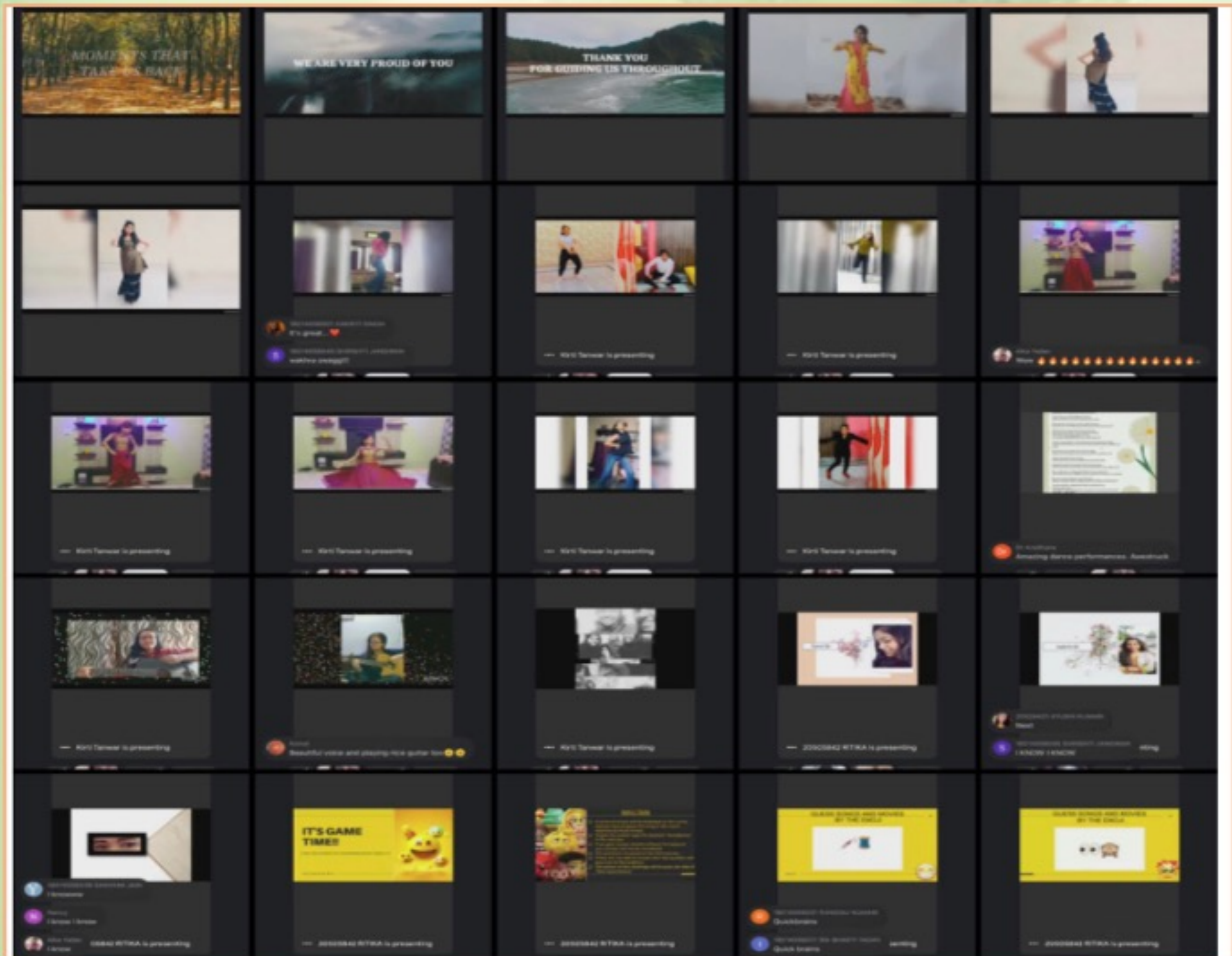




# DEPARTMENTAL WALL MAGAZINE



# VIRTUAL FAREWELL 2018-2021 BATCH





# KNOW THY FLORA

An important component of the society "Know Thy Flora" was taken care by Nancy, Komal and Annu of III H who posted photos and descriptions of around 30 plants on its Instagram page "Vasundhara- essence of Botany". Ankita, Alka and Sanjana of III H maintained the online wall magazine "Inspired Roots". The annual issue of Botanical Society magazine LIANA, a compilation of scientific articles contributed by students and teachers of Department could not be published this year due to unforeseen pandemic situations.





# BOTANICAL GARDEN



## DEPARTMENTAL MAGAZINES & MANNUALS

**LIANA 2020**

DEPARTMENT OF BOTANY  
DAULAT RAM COLLEGE UNIVERSITY  
OF DELHI

Staff Advisors  
Dr Nidhi Gautam & Dr Meenakshi Sharma

Google  
E- Manual  
of  
SDP on "Basics of Online class Tools"  
August & December, 2020

Compiled and Edited by  
Dr. Meenakshi Sharma and Dr. Nidhi Gautam  
Department of Botany  
Daulat Ram College  
University of Delhi

IN-HOUSE SKILL DEVELOPMENT  
PROGRAMME  
(Under IQAC)  
on  
BASICS OF BIOINFORMATICS:  
Theory & Practice  
14<sup>th</sup> - 17<sup>th</sup> JULY, 2019

UNIVERSITY OF DELHI, DAULAT RAM COLLEGE  
UNIVERSITY OF DELHI, DELHI 110007  
Dr Meenakshi Sharma & Dr Nidhi Gautam

*Liana* 2017-18

Department of Botany  
Daulat Ram College

MANUAL  
of  
In-House Skill Development  
Workshop on  
"Food Adulteration and  
Security"  
organized by  
Department of Botany  
Daulat Ram College  
NAAC Accredited Grade "A"  
University of Delhi  
from  
3<sup>rd</sup> July - 14<sup>th</sup> July 2017

Compiled & edited by:  
Dr Nidhi Gautam & Dr Meenakshi Sharma

Symposium  
(Under IQAC)  
on  
Environment  
and  
Sustainable Development  
— New Perspectives —

GOLDEN JUBILEE YEAR  
2018-19  
14<sup>th</sup> February 2019

Department of Botany  
(Awarded Star Status by DBT)  
Daulat Ram College  
University of Delhi  
Delhi-110007