

## 5.1.2 Capacity building and skills enhancement initiatives taken by the institution include the following



**ACHARYA NARENDRA DEV COLLEGE**

U N I V E R S I T Y   O F   D E L H I

DBT STAR STATUS COLLEGE

All India NIRF 2022 Ranking-18, NAAC Score-3.31

Govindpuri, Kalkaji, New Delhi 110019



5.1.2 Capacity building and skills enhancement initiatives taken by the institution include the following

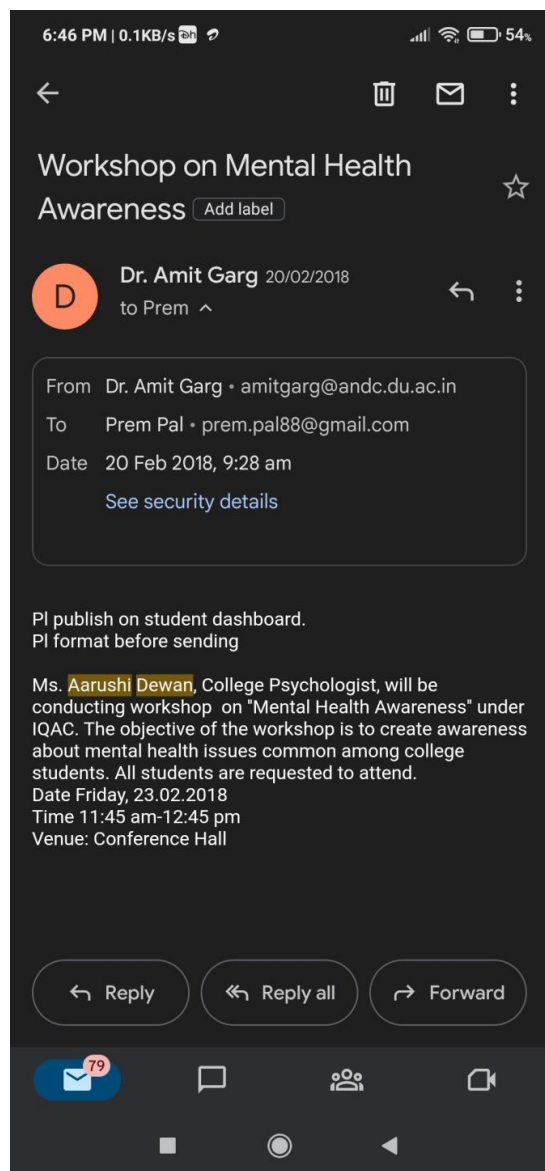
1. Soft skills
2. Language and communication skills
3. Life skills (Yoga, physical fitness, health and hygiene)
4. ICT/computing skills

The following documents are attached :

1. Authenticated Consolidated list of programs conducted and the number of students enrolled for each of the events.
2. Copy of circular /brochure /report of the event/photographs.



## 1. Workshop on Mental Health Awareness



### Report

Since mental health has direct impact on academic performance of the students, a workshop was organized for students on 23.02.18 at 11.45 a.m. at Conference Hall, 1<sup>st</sup> Floor with the College Psychologist/counselor Ms. Aarushi Dewan to nurture the practices that can support their mental-wellness. The students were advised to shed inhibition to reach out the counselor for advice in case they feel any stress.



## 2. Three day National Symposium on Contemporary Environmental Concerns 2018



### ACHARYA NARENDRA DEV COLLEGE

(University of Delhi)

accredited "A" Grade by NAAC with a score of 3.31

under the aegis of

Internal Quality Assurance Cell

& Eco-Club 'Paritantra'

organises

National Symposium on



**AWARENESS, ASSESSMENT, MITIGATION, PUBLIC HEALTH  
AND SOCIO-CULTURAL ASPECTS**

#### TALKS BY EMINENT SPEAKERS

**Dr. B.C SABATA**

SR. SCIENTIFIC OFFICER  
DEPARTMENT OF ENVIRONMENT  
GOVT. OF NCT OF DELHI

**Dr. ANJALI SHARMA**

ASSISTANT PROFESSOR  
DEPARTMENT OF PHYSICS  
ATMA RAM SANATAN DHARMA COLLEGE  
UNIVERSITY OF DELHI

**Dr. R. GOPICHANDRAN**

DIRECTOR(Ex)VIGYAN PRASAR  
SR. CONSULTANT MONTREAL PROTOCOL & CLIMATE CHANGE  
ENERGY EFFICIENCY SERVICES LTD

**Mr. ANANDA BANERJEE**

SENIOR JOURNALIST, LIVEMINT

**Dr. GOVIND SINGH**

ASSISTANT PROFESSOR  
INDRAPRASTHA COLLEGE FOR WOMEN  
UNIVERSITY OF DELHI

**Mr. AUGUSTINE VELIATH**

FOUNDER-DIRECTOR  
ASIAN CENTER FOR ENTERTAINMENT EDUCATION

**Dr. VIJAY DHASMANA**

ECOLOGIST AND CONSERVATIONIST

**Ms. LYDIA POWELL**

SENIOR FELLOW  
OBSERVER RESEARCH FOUNDATION

**Dr. PRAVEEN SAXENA**

(EX-ADVISOR TO MINISTRY OF MNRE)  
CEO, SKILL COUNCIL FOR GREEN JOBS



**National Symposium**  
**on**  
**Contemporary Environmental Concerns – 2018**  
 Awareness, Assessment, Mitigation, Public health and Socio-cultural aspects

<b>Day 1-Thursday March 15 , 2018</b>	
<b>08:30-10:00</b>	<b>Registration</b>
<b>10:00-10:30</b>	<b>Inaugural Function</b>
<b>10:30-11:30</b>	<b>Keynote address Dr. B.C Sabata Sr. Scientific Officer, Department of Environment, Govt. of NCT of Delhi on “Youth and Environment”</b>
<b>11:30-12:00</b>	<b>Tea</b>
<b>12:00-1:00</b>	<b>Dr. R. Gopichandran Director,Vigyan Prasar, New Delhi</b>
<b>01:00-01:45</b>	<b>Lunch</b>
<b>01:45-02:45</b>	<b>Dr. Govind Singh Assistant Professor, Indraprastha College for Women, University of Delhi “Delhi at the Crossroads of Sustainable Development”</b>
<b>02:45-4:30</b>	<b>Oral/Poster Presentation</b>
<b>Day 2-Friday March 16, 2018</b>	
<b>09:30-10:30</b>	<b>Dr Vijay Dhasmana Ecologist and Conservationist “Rewilding Aravali Biodiversity Parl”</b>
<b>10:30-11:00</b>	<b>Tea</b>
<b>11:00-12:00</b>	<b>Dr. Anjali Sharma Department of Physics, Atma Ram Sanatan Dharma College, University of Delhi “Gas Sensors for environmental monitoring”</b>
<b>12:00-01:00</b>	<b>Oral presentations</b>
<b>1:00-1:45</b>	<b>Lunch</b>
<b>01:45-02:45</b>	<b>Mr. Ananda Banerjee Senior Journalist, Livemint “The Great Migration and Sixth Extinction”</b>
<b>02:45-4:30</b>	<b>Oral/Poster Presentations</b>



<b>Day 3-Saturday, March 17, 2018</b>	
<b>09:30- 10:30</b>	<b>Mr. Augustine Veliath Founder-Director, Asian Center for Entertainment Education “5 Ps of Sustainable Development”</b>
<b>10:30- 11:00</b>	<b>Tea</b>
<b>11:00- 12:00</b>	<b>Ms. Lydia Powell Senior Fellow, Observer Research Foundation <i>"Environmental Externalities of Energy Consumption: Global and Local Challenges</i></b>
<b>12:00- 01:00</b>	<b>Dr. Praveen Saxena (Ex-advisor to ministry of MNRE) CEO, Skill Council for green jobs</b>
<b>01:00- 01:45</b>	<b>Lunch</b>
<b>01:45- 03:00</b>	<b>Valedictory  Vote of  thanks</b>

## **Report**

A Clean environment is considered to be a basic requirement for Human Health and is included by the United nations as one of the Sustainable Development Goals. However, pollution in the Environment continues to pose a significant threat to well being of humans and is a critical issue the world over. Scientific findings indicate urgent need to undertake pre-emptive action as a panacea to control this gigantic problem. Acharya Narendra Dev College took a lead in this Endeavour by holding a three day National Symposium from March 15-18, 2018 on ‘**Contemporary Environmental Concerns 2018**’ under the aegis of IQAC and the Eco Club of the college. The main idea behind the symposium was to generate awareness about the rising environmental issues, their assessment, mitigation and socio-cultural aspect. The emphasis was on dwindling public health in wake of the current situation. A good number of undergraduate students, research scholars and teachers from various colleges and Universities participated in the symposium. Many undergraduate students and Ph.D scholars presented their research work in the form of Oral or Poster presentations.

The symposium was inaugurated by the principal of the college, Dr. Savithri Singh. The Key note address was delivered by Dr B C Sabata, Department of Environment, Govt of NCT of Delhi. He motivated the youth to realize the importance of environment and work towards its betterment.



The Director of Vigyan Parisar, Dr R Gopichandran enlightened the audience about article 51 A(H) of the Indian constitution which focuses on Science as a duty of every citizen.

Importance of Sustainable Development was highlighted by Dr Govind Singh, Associate Professor, IP College, University of Delhi. The participants also had the privilege of listening and interacting with Vijay Dasmana, a noted ecologist and conservationist working and reclaiming the Aravali Biodiversity park, Gurugram. He emphasized on the importance of the native species and the importance of restoration work done by him and his team.

Dr Anjali Sharma, ARSD College, University of Delhi spoke on the importance of wearable gas sensors in environmental monitoring and assessment

A senior journalist of the 'Livemint' magazine, Mr Aananda Banerjee spoke about the great migrations and the sixth extinction which is probably occurring because of anthropogenic interference.

Two of our own Associate Professors Dr Manoj Singh and Sumit Sahni presented an elaborate account of Waste Management and Strategies: implications in Indian Scenario. Implications of unsegregated waste disposal and the ever increasing Landfills were discussed

Mr Augustine Veliath, Founder director of Asian center for Environment Education spoke about the 5P's of sustainable development. He encouraged the students to take up the cause of sustainable development.

Ms Lydia Powell, Senior fellow of Observer Research foundation presented a brief account on environmental Externalities of energy consumption- The local and Global challenges of the same.

Dr Praveen saxena, Ex advisor to Ministry of MSME spoke on India's approach towards sustainability.

The three day Symposium was concluded by a Valedictory function where the best Oral and Poster Presentations were awarded and all participants were given a certificate of attendance.

Contact Details of the Speakers:

1. Dr. B.C Sabata

Sr. Scientific Officer, Department of Environment, Govt. of NCT of Delhi [bcsabat@gmail.com](mailto:bcsabat@gmail.com)

2. Dr. R. Gopichandran

Director, Vigyan Prasara, New Delhi

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3. Dr. Govind Singh

Assistant Professor, Indraprastha College for Women, University of Delhi [contact@govindsingh.com](mailto:contact@govindsingh.com)

98111 47754

4. Dr Vijay Dhasmana  
Director, Best Fortune Construction (I) Pvt Ltd  
[vijay.dhasmana@gmail.com](mailto:vijay.dhasmana@gmail.com)

5. Dr. Anjali Sharma  
Department of Physics, A.R.S.D. College

6. Mr. Ananda Banerjee  
Senior Journalist,  
Livemint  
[protectwildlife@gmail.com](mailto:protectwildlife@gmail.com)  
[m](http://m)

7. Mr. Augustine Veliath  
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[augustinevj@gmail.com](mailto:augustinevj@gmail.com)

8. Ms. Lydia Powell  
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9. Dr. Praveen Saxena  
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MNRE) CEO, Skill Council for  
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### 3. Swachch Bharat Abhiyaan

In the College, NSS continued with its pledge towards 'Swachch Bharat Abhiyaan' and organized cleanliness drives in the College and the neighbouring areas from time to time throughout the year.



#### **4. Blood Donation Camp**

##### **Report**

A blood donation camp was organized on October 10, 2017 by the blood bank of Ram Manohar Lohia Hospital. There was an overwhelming response from the students for the motto 'Save lives, Donate blood'.



## 5. Creating awareness about respecting women's dignity with an 'Express Yourself' activity

*Sashakt* continued with its aim of creating awareness about respecting women's dignity with an 'Express yourself' activity in August 2018, in which students were asked to express their opinions in writing through the designated notice boards on some women related political statements published in news papers.





## 6. A one-week self defence training programme

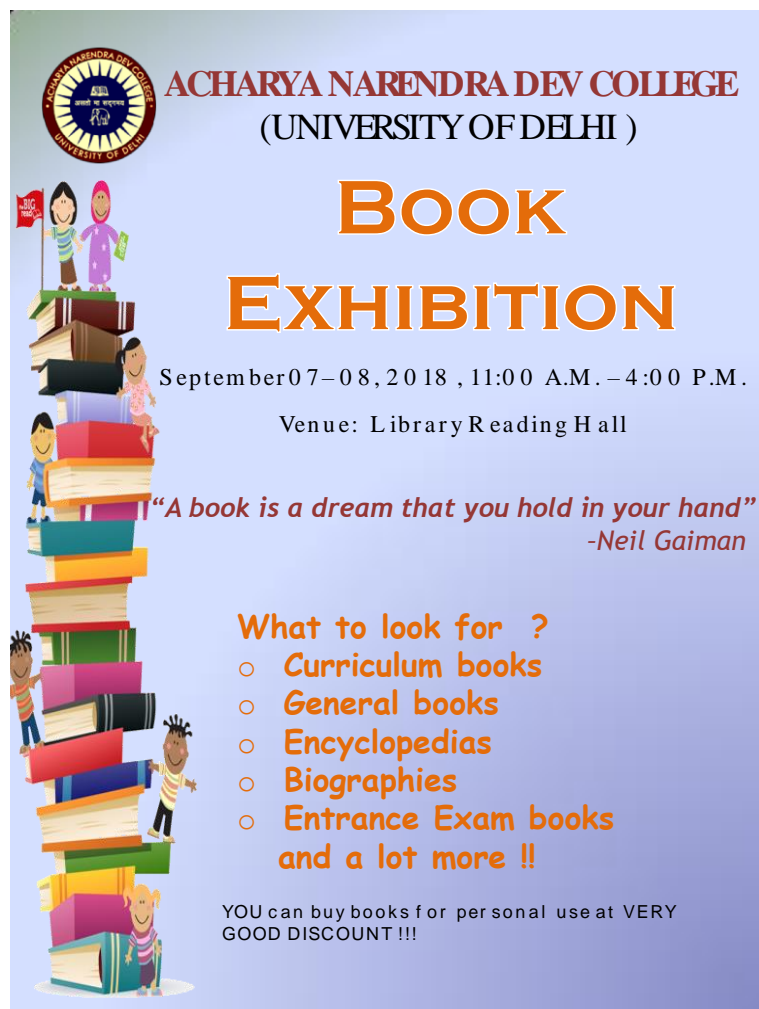
A one-week self defence training programme was organized by *Sashakt* in coordination with Delhi Police from February 19-24, 2018. The programme aimed at empowering the ANDC students, with a special focus on girls, in some basic self defence techniques to face the challenging and emergent circumstances. In one week training, first two days were open for male students also to learn basic self defence techniques. The training for girls continued for six days.

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11	Rhythm Kaushal	YO-243	B.Sc.(H) BMS	1st	9821168745	<a href="mailto:rhythmkaushal99@gmail.com">rhythmkaushal99@gmail.com</a>
12	Shipra Yadav	YO-250	B.Sc.(H) BMS	1st	8178895601	yadavsupra451992@gmail.com
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15	Radhika Bansal	YO-150	B.Sc.(H) Chemistry	1st	9910668945	bansalradhika29@gmail.com
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17	Kajal Goyal	X-1023	B.Sc.(H) Zoology	2nd	9717026989	kajalgoyal0904@gmail.com
18	Kalpiti Rani	Y-1021	B.Sc.(H) Zoology	1st	8393007368	kalpitrani09@gmail.com
19	Komal Sharma	Y-1022	B.Sc.(H) Zoology	1st	9870686801	dtsapnasharma@gmail.com
20	Manisha	Y-1024	B.Sc.(H) Zoology	1st	8168300583	manisha29star@gmail.com
21	Muskan Yadav	Y-1028	B.Sc.(H) Zoology	1st	8168532575	muskanyadav418@gmail.com
22	Sanju Kumari	Y-1045	B.Sc.(H) Zoology	1st	8950652557	ssanju722000@gmail.com
23	Riya	Y-1041	B.Sc.(H) Zoology	1st	8006401661	riyabarthwal1999@gmail.com





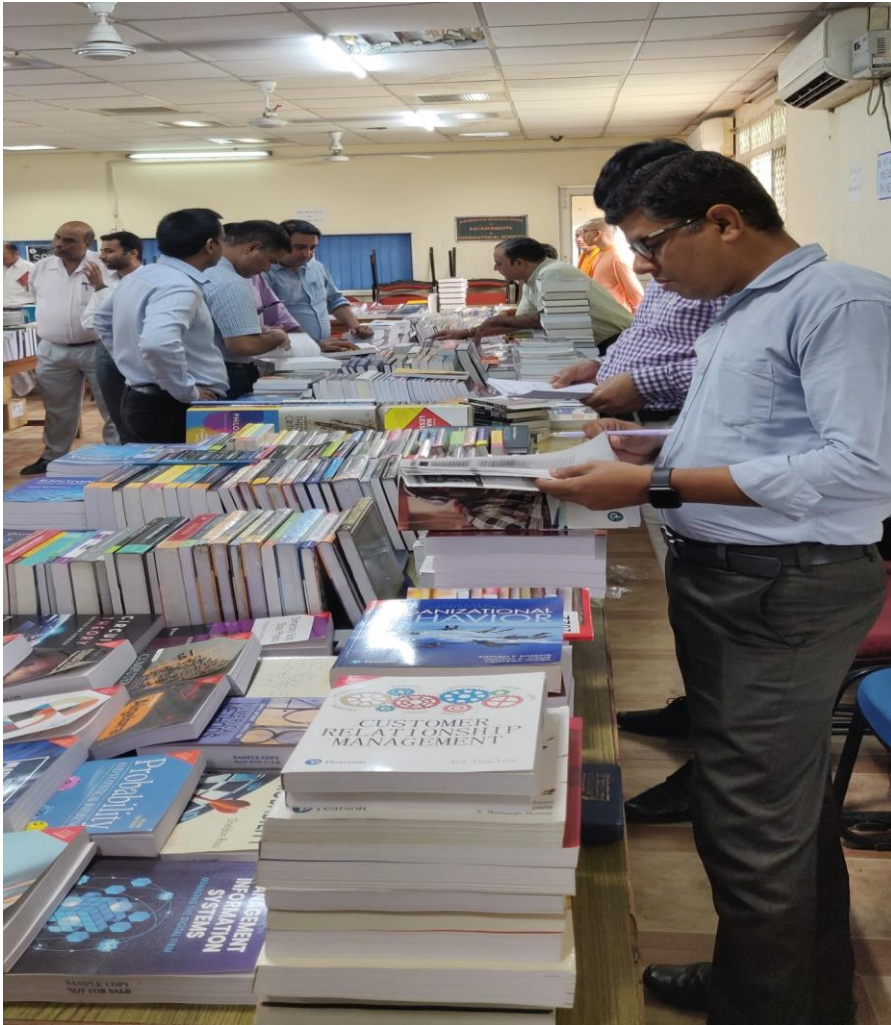
## 7. A two day Annual Book Exhibition

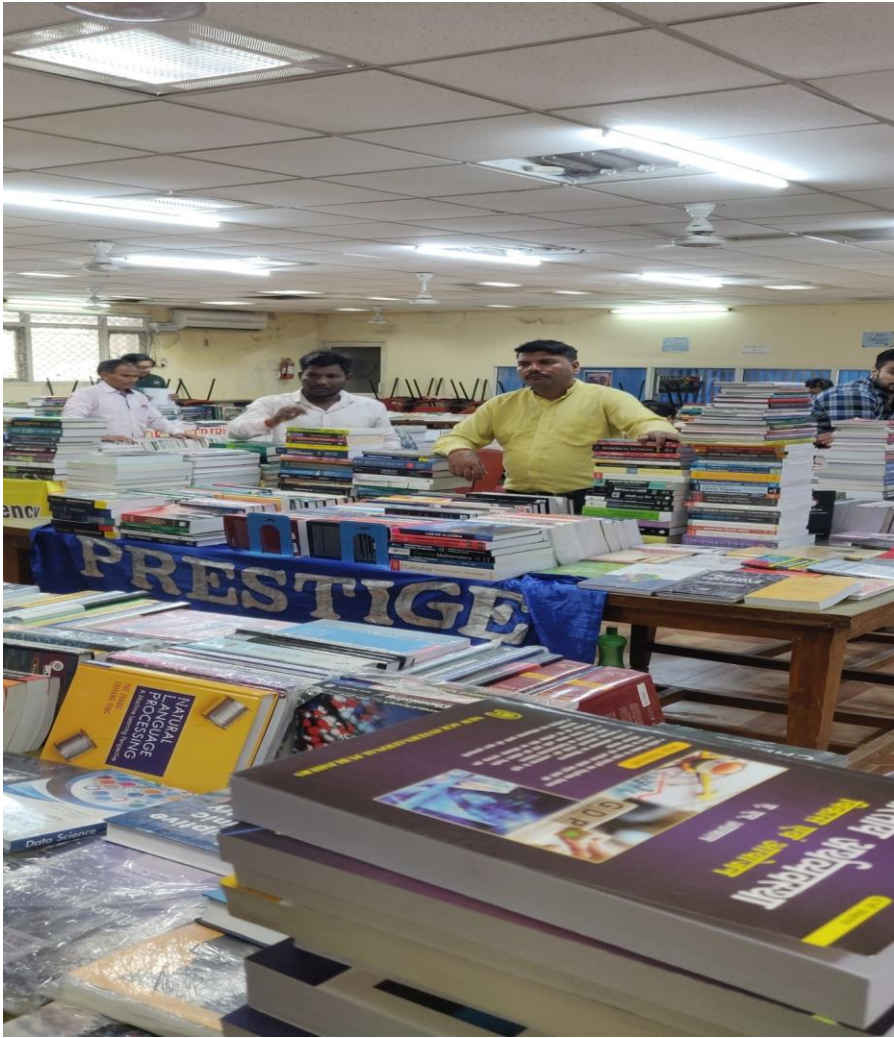


### Report

Library has organized two days Annual Book Exhibition on 7<sup>th</sup> & 8<sup>th</sup> September 2018 in the library for the faculty & students. As usual renowned Publishers & Book Sellers like Prentice Hall of India, Unilib Book Dist. Pvt.Ltd., Asian Book Centre, Narosa Publishing House, N.R.Book Distributor, Pearson Education, Cambridge University Press, Oxford University Press, New Age, Panima Educational Agency, S.Chand & Co., Techniz Books International, Wiley India, Tata Mcgraw Hill, Shroff Books, Scitech Publications Pvt.Ltd. , Viva Books & Prestige Publishers participated in the exhibition & displayed their books in the library. The response of the students, faculty & staff was over whelming. Faculty & students selected books for the library as well as for their personal use.







## **8. Research Based Pedagogy Tools (RBPT) Based Workshop On Microbial Techniques**

### **Report**

Department organized a three day workshop on “Microbial Techniques” based on RBPT (Research Based Pedagogical Tools) from 12-14 March 2018 under the aegis of DBT star college scheme.

Participants were given hands-on experience of Luria Bertani (LB) and LB agar media preparation, autoclaving and laminar hood, use for inoculation, spreading and streaking of bacteria (*E. coli*) in LB and LB agar plates respectively. Lectures on preparation of competent cells, transformation and screening techniques were delivered by various faculty members. The process was also demonstrated through a video film. This was followed by hands-on preparation of the competent cells by the participants. Hands-on transformation of *E. coli* and inoculation on selection and screening media was performed by the students.

The concluding session was based on RBPT and was conducted by Dr Rashmi Sharma, wherein the participants were given an opportunity to represent their learning, understanding and applications of the microbial techniques on a poster. Participants were divided into random group of three and each group was asked to prepare one poster on application of their learning and experience gained during the workshop

for which they were allotted 3 hours and allowed access to study material from library and internet to ease their task. The posters were all displayed together and evaluated by a committee. Each member of the respective group actively participated and openly defended their ideas and proposed application of the techniques they learnt in the workshop.

Resource Person

Professor Pawan Kumar Dhar

Dean, School of Biotechnology

JawaharLal Nehru University

Email Id: [pawandhar@mail.jnu.ac.in](mailto:pawandhar@mail.jnu.ac.in)



**ACHARYA NARENDRA DEV COLLEGE**  
University of Delhi  
Accredited "A" Grade by NAAC with a score of 3.31

# MICROBIAL TECHNIQUES

RBPT based workshop

To find out more visit:  
<http://andcollege.du.ac.in>

Organized by  
**TARUMITRA THE BOTANICAL SOCIETY**

Under the aegis of DBT Star College Scheme

12-14 March 2018  
9:00 a.m. onwards,  
Department of Botany

**Patron**  
Dr. Savithi Singh, Principal, ANDC

**Convenor**  
Dr. Rashmi Sharma

**Co-Convenor**  
Dr. Anita Narang  
Teacher in Charge, Department of Botany, ANDC

**A Talk on "Innovation in Science"**  
Professor Pawan Kumar Dhar  
Dean, School of Biotechnology,  
Jawahar Lal Nehru University

For Queries Contact: Dr. Rashmi Sharma 9810709706

**ACHARYA NARENDRA DEV COLLEGE**  
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# MICROBIAL TECHNIQUES

RBPT based Workshop

Patron: Dr. Savithi Singh, Principal  
Convenor: Dr. Rashmi Sharma

For Queries Contact  
Dr. Rashmi Sharma  
9810709706

12-14 MARCH 2018  
9:00 a.m. onwards,  
Department of Botany

To find out more visit:  
<http://andcollege.du.ac.in>

**TARUMITRA THE BOTANICAL SOCIETY**  
Under the aegis of DBT Star College Scheme

## Objective and Scope

The Primary objective of the workshop is to gain the insight of various basic techniques used in microbial laboratory by hands-on training and practical demonstrations. The workshop will provide the right exposure to the students at the undergraduate level and it is highly relevant in terms of advances in the contemporary era of microbial biotechnology. It's also a rare opportunity for students from non-biological courses to join in and gain hands on insight into the world of bacterial.

## Focus Area

In addition to their multifarious roles 'bacteria' are an ideal candidate for genetic engineering. They are relatively simple, single celled organisms with DNA not bound in any organelle. Available as an inexhaustible supply, they are easy to reproduce and so can be manipulated under laboratory conditions. The workshop will provide up-to-date knowledge in the field of practical microbiology with special reference to bacteria. It will encompass the basics of the laboratory techniques starting with setting up a bacterial culture up to bacterial transformation.

## Topics to be covered

1. Introduction to microbiological lab-work: sterilisation, disinfecting, steps and instruments; equipment used for microbial culture
2. Microbial media: Different types and preparation
3. Bacterial culture: Basis of characterization, classification and identification of bacteria. Streaking, plating, incubation, evaluation of culture and storage of culture
4. Bacterial Transformation: Preparation of competent cell, transformation by heat shock method followed by blue white screening to identify positive transformants
5. Application in genomics, industry
6. Plasmid DNA isolation



**ACHARYA NARENDRA DEV COLLEGE**  
University of Delhi  
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### REGISTRATION FORM

**LIMITED SEATS**

NAME: \_\_\_\_\_

Name and Address of Institution/College: \_\_\_\_\_

M.Y: \_\_\_\_\_ Course: \_\_\_\_\_

Contact Number: \_\_\_\_\_

E-mail ID: \_\_\_\_\_

Signature: \_\_\_\_\_ Signature of TIC: \_\_\_\_\_

**Payment Details**

UTR No./ Transfer ID: \_\_\_\_\_

Transfer Date: \_\_\_\_\_

Remitter Bank Name/Branch: \_\_\_\_\_

Amount: ₹500/-

**NEFT/Online Banking Details:**

Beneficiary Name: Acharya Narendra Dev College  
Bank: Punjab National Bank, Krishna Market, Kirti, New Delhi-110019  
IFSC code: PUNB0015400 Account Number: 0158000100399143

**Last date for Registration: 1<sup>st</sup> March 2019**

**Note: From each college/institution only 5 students are allowed after written permission of their respective Teacher-in charge**



## 9. Concept test in Chemistry for undergraduate students (ACT-CONTECH 2017-18)



ASSOCIATION OF CHEMISTRY TEACHERS

### Registration / Result Formate-Concept Test in Chemistry (CONTECH-18)

Date of Examination: 25th January, 2018

Time: 01 PM to 03 PM

Total Marks 79

Name of the College (with Address Acharya Narendra Dev College, University of Delhi  
Govind Puri, Kalkaji)

Contact No	011-26294542
Name of the Principal:	Dr. Savithri Singh
Contact No	011-26294542
E Mail Id	<a href="mailto:principal@andc.du.ac.in">principal@andc.du.ac.in</a>
Name of the College Coordinator:	Dr. Seema Gupta
Contact No	9811357733
E Mail Id	<a href="mailto:seema_and92@yahoo.com">seema_and92@yahoo.com</a> , <a href="mailto:seemagupta@andc.du.ac.in">seemagupta@andc.du.ac.in</a>



No.	Name of student	Father's Name	Gender (M/F)	Class (FY / SY / TY)	Score (out of 79)	% Score
1	ANMOL	Mr. HARBANS LAL	2	3	48	60.75
2	VIKAS SINGH	Mr. CHHOTELAL SINGH	1	3	33	41.77
3	SADAF SAMRA	Mr. PARVEZ AKHTAR	2	2	22	27.84
4	NIKITA CHAUHAN	Mr. SARDAR SINGH	1	3	ABSENT	ABSENT
5	NISHCHAL CHAUHAN	Mr. SARDAR SINGH	2	3	ABSENT	ABSENT
6	TNISH DHIR	Mr. SUKHDEV DHIR	1	1	28	35.44
7	SHIVAM KUMAR	Mr. BIR BAHADUR RAY	1	1	ABSENT	ABSENT
8	GARIMA DHASMANA	Mr. Yugal Kishore Dhasmana	2	1	31	39.24
9	PRIYANKA JHA	Mr. SUNIL JHA	2	1	47	59.49
10	VIKRANT VINI	Mr. VINAY KUMAR GUPTA	1	3	ABSENT	ABSENT
11	RAHUL VERMA	Mr. RAKESH VERMA	1	2	21	26.58
12	JATIN	Mr. JAI SINGH	1	2	51	64.55
13	VIKRAMJEET SINGH	Mr. RAJENDER KUMAR	1	1	24	30.37
14	SANDEEP GUPTA	Mr. DAYANAND GUPTA	1	3	49	60.02
15	SWARNANIL SARMA	Mr. GANESH CHANDRA SARMA	1	1	50	63.29
16	SHAILYA VERMA	Mr. SANJAY KUMAR VERMA	2	3	34	43.03
17	TARUN YADAV	Mr. DINESH BABU	1	1	27	34.17
18	ARPAN SHARMA	Mr. Vijay kumar sharma	1	2	37	46.83
19	PRITAM KASHYAP	Mr. RAHUL KASHYAP	1	3	ABSENT	ABSENT
20	VISHWAJEET KUMAR	Mr. ATISH KUMAR CHAUDHARY	1	2	22	27.84
21	AAKRITI	Mr. A K DAS	2	2	40	50.63
22	ANIKET VERMA	Mr. AJAI KUMAR VERMA	1	2	23	29.11
23	HIMANI KANWAL	Mr. DESH RAJ KANWAL	2	2	34	43.03
24	RAJKAMAL	Mr. GAUTAM GANGWAR	1	2	38	48.1
25	PRACHI DWIVEDI	Mr. SURESH CHANDRA	2	3	ABSENT	ABSENT
26	NITISH KUMAR	Mr. MANOJ KUMAR VERMA	1	3	38	48.1
27	HARSHIT SHRIVASTAVA	Mr. ASHOK KUMAR SHRIVASTAVA	1	3	28	35.44
28	SUNAINA SARDANA	Mr. SATISH KUMAR	2	1	28	35.44
29	SAMEER GUPTA	Mr. SATEESH GUPTA	1	1	31	39.24
30	NIKHIL KUMAR	Mr. MAHENDER KUMAR	1	3	ABSENT	ABSENT
31	SONIA TRIKHA	Mr. HARISH KUMAR	2	3	41	51.89
32	SATYENDRA TRIPATHI	Mr. MAHENDRA KUMAR	1	3	ABSENT	ABSENT
33	KIRTI CHUGH	Mr. ASHOK KUMAR CHUGH	2	2	29	36.7
34	SIMRAN AGGARWAL	Mr. K.M AGGARWAL	2	3	40	50.63
35	RAJAN MISHRA	Mr. NANDU MISHRA	1	3	43	54.43
36	SANJEEV KUMAR SINGH	Mr. PRAMOD KUMAR SINGH	1	2	18	22.78
37	DHARMENDAR SHARMA	Mr. GAYA PRASAD SHARMA	1	1	23	29.11
38	SHRESHTHA TRIPATHI	Mr. Ravi Shanker Tripathi	1	2	34	43.03
39	SARTHAK KHURANA	Mr. HARSH KHURANA	1	3	29	36.7
40	SAKSHI	Mr. Anil Kumar Batra	2	2	27	34.17
41	VAISHALI JAISWAL	Mr. Yogendera Kumar Jaiswal	2	2	24	30.37
42	SHREYA TYAGI	Mr. SRIOM TYAGI	2	1	29	36.7



43	BHARAT DIXIT	Mr. RAJKISHOR DIXIT	1	1	29	36.7
44	DIPIN KUMAR TOMAR	Mr. SUSHIL TOMAR	1	3	50	63.29
45	PAWNESH KUMAR MISHRA	Mr. RAJESH KUMAR MISHRA	1	2	34	43.03
46	RADHIKA SATIJA	Mr. ANIL SATIJA	2	2	17	21.51
47	SUMRAN KARAMCHANDANI	Mr. SUNIL KARAMCHANDANI	2	2	27	34.17
48	PRIYANKA YADAV	Mr. R c yadav	2	2	25	31.64
49	ANKIT RAI	Anil Kumar Rai	1	1	40	50.63
50	HARSH VARDHAN SAHU	Mr. DHARMENDRA KUMAR SAHU	1	1	32	40.5
51	RAGHU YADAV	Mr. GULAB SINGH YADAV	1	1	46	58.22
52	AKARSH PANDEY	Mr. PRABHAKAR PRASAD PANDEY	1	1	ABSENT	ABSENT
53	LALIT SAINI	Mr. RAJBEER SAINI	1	1	ABSENT	ABSENT
54	SHIVANI PANCHAL	Mr. HARENDER	2	1	ABSENT	ABSENT
55	SHUBHAM VERMA	Mr. CHANDRA SEN VERMA	1	1	21	26.58
56	VAIBHAV SRIVASTAVA	Mr. Y. K. SRIVASTAVA	1	3	34	43.03
57	SAURABH YADAV	Mr. RAM SAKAL YADAV	1	3	31	39.24
58	DISHA PARNAMI	Mr. HARSH PARNAMI	2	3	24	30.37
59	ASHISH MEENA	Ghanshyam Meena	1	3	14	17.72



## 10. Workshop on ‘Systematic Use of Digital Information in Academic Activities’



**Acharya Narendra Dev College**  
(University of Delhi)  
NAAC accredited 'A' grade  
**Department of Chemistry**  
(under the patronage of DBT Star College Scheme)

organizes a workshop  
on  
**Systematic Use of Digital Information  
in Academic Activities**

Resource Person: **Dr Tariq Ashraf**  
Deputy Librarian, University of Delhi

Friday, 10<sup>th</sup> November, 2017  
at 11:00 am  
Venue: Web Centre

**Dr Savithri Singh**  
(Principal)

**Dr Pankaj Khanna**  
(Organizer)

### Report

A workshop was organised by the Department of Chemistry, under the support of DBT Star College Scheme, on 10<sup>th</sup> November 2017 at the Web Centre. The workshop, with the theme of ‘**Systematic Use of Digital Information in Academic Activities**’, had an esteemed presence of **Dr Tariq Ashraf** (Deputy Librarian, University of Delhi) as the resource person. More than seventy students and faculty members participated in the workshop.

Dr Ashraf highlighted various aspects of Digital Information starting with various possible resources for the same. He then deliberated on the University of Delhi Library System in detail. The focus here was to let the students understand different e-resources such as books, journals and articles and ways to search them under varied criteria viz. author, year of publication. The hands-on mode at the web centre of the college helped the students to learn the techniques upfront and clear their doubts. The discussion was taken to the next level by including the concepts of Plagiarism and publication ethics.

The workshop was well attended by the students as well as faculty and was a great success and learning experience.

Dr. Tariq Ashraf  
University of Delhi South Campus  
Mobile: 9868335593





11. Symposium on “Safety Measures and Laboratory Ethics” (under the aegis of Star College Scheme)



  
**ACHARYA NARENDRA DEV COLLEGE**  
(UNIVERSITY OF DELHI)  
DEPARTMENT OF ZOOLOGY & CHEMISTRY  
(UNDER STAR COLLEGE SCHEME, DBT)  
**Two Day Symposium**  
on  
**Safety Measures & Laboratory Ethics**  
February 21-22, 2018

<p><b>Patron</b> <b>Dr. Savithri Singh</b> <b>Principal</b> <b>Star College Scheme</b> <b>Coordinator</b> <b>Dr. Ravi Toteja</b> <b>Organizing Committee</b> <b>Dr. Seema Gupta</b> 9811357733 <b>Dr. Seema Makhija</b> 9136563762 <b>Dr. Pooja Bhagat</b> <b>Dr. Pankaj Khanna</b> <b>Dr. Sweety Shrimali</b> <b>Dr. Aparna Sharma</b> <b>Dr. Anjali Saxena</b> <b>Dr. Pragati Mailk</b> <b>Dr. K Cherita Devi</b></p>	<p><b><u>Highlights</u></b></p> <ul style="list-style-type: none"><li>•Biosafety management</li><li>•Risk assessment</li><li>•Work practices and safety equipment</li><li>•Handling hazardous chemicals</li><li>•Relevance of ethics to science students</li></ul> <p><b><u>Benefits</u></b></p> <ul style="list-style-type: none"><li>•The participants will be able to list and understand the parts of biosafety plan.</li><li>•To learn healthy &amp; good laboratory practices.</li><li>•To develop proper waste management in the laboratory.</li><li>•Workshop Kit Material</li><li>•Certificate of Participation</li></ul> <p><b><u>For Registration:</u></b> Visit <a href="http://andcollege.du.ac.in">http://andcollege.du.ac.in</a> UG Students : Rs 200/- Research Scholars: Rs 1000/- Faculty: Rs 1500/- <b>Last Date for Registration: Feb 18, 2018</b></p> <p style="background-color: yellow; padding: 5px; text-align: center;"><b>First 75 student registrations will be given free Safety Kit</b></p>	<p><b><u>Eminent Speakers</u></b> <b>Dr. H.V. Murugkar</b> (Principal Scientist, Society for Biosafety) <b>Prof. Rup Lal</b> (University of Delhi) <b>Dr. Mryuntan Jay Suar</b> (ASM Ambassador, India Ocean Region) <b>Dr. Vijay Pal Singh</b> (Deputy Director, FSSAI) <b>Dr. Sanjeev Kumar Sharma</b> (Senior Manager, Health &amp; Safety, Jubilant Generics Ltd) <b>Dr. Sanjukta Subudhi</b> (Scientist, TERI) <b>Dr. Gagan Dhawan</b> (ANDC, University of Delhi)</p>
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The Departments of Zoology and Chemistry, under the aegis of DBT Star College Scheme, organized a 2-day symposium, 'Safety Measures and Laboratory Ethics' on February 21-22, 2018 in the seminar Hall of the College. A total of 94 participants, including undergraduate students and research scholars from within and outside the College, attended the symposium. Each of the participants of the Seminar was provided with a safety kit containing a safety mask, goggles, cap and gloves. Dr Rita Singh (Professor, Department of Zoology, University of Delhi) was the first invited speaker to deliver a talk at the Symposium. Her talk introduced the participants to the ethical issues involved in performing research on human subjects. The next speaker was Dr Mrutyunjay Suar, Director, School of Biotechnology, KIIT University, Odisha. In his talk Dr Suar discussed laboratory ethics with a medical microbiology perspective. He emphasized the proper disposal measures that need to be followed while discarding microbial waste. In the post-lunch session, Dr Suar delivered an interactive lecture that discussed the journey of science from the initial stages of conception of a scientific idea to its execution on an industrial scale. The last speaker of the day was Dr Sanjeev Kumar Sharma, Senior Manager, Health & Safety, Jubilant Generics Limited. In his talk Dr Sharma discussed with the participants all the safety measures that need to be undertaken while working with potentially hazardous chemicals. On February 22, 2018, the first talk was delivered by Dr Vijay Pal Singh, Deputy Director, FSSAI. Dr Singh discussed the relevance of ethics to science students. Dr. Singh explained the concepts and methodology involved in the ethical use of animals for research. The next speaker was Dr Rup Lal, Professor, Department of Zoology, University of Delhi. In his talk Dr Lal shared with the participants his experiences related to management of a research laboratory. The post-lunch session started with an interactive talk by Dr Gagan Dhawan, Dr Dhawan's talk encompassed the various aspects of safety in a science lab. The next speaker was Dr Sanjukta Subudhi, Scientist, TERI. Dr Subudhi's talk was aimed at introducing the participants to the concept of a zero waste future and the role that scientific research will play towards that goal. The last speaker at the Symposium was Dr Kamal Gupta, Associate Professor, Deshbandhu College, University of Delhi. In his talk, Dr Gupta discussed the importance of scientific research and the need for higher safety regulations while performing research. The Seminar was concluded with a Vote of Thanks followed by the distribution of certificates to the participants, all of whom interacted actively with the speakers. The participants were enthusiastic about the ideas and concepts presented in the Symposium. They appreciated the need for a hazard-free and safe work environment and opined that the Seminar had made them realize the importance of ethics in the pursuit of science.



## 12. Workshop on ‘Introduction to Foss and Linux’



### REPORT

As the college welcomed its first-year students, a workshop on “**Introduction to Foss and Linux**” was conducted by the Department of Computer Science under Star Scheme. The primary motive of 3 days workshop was to make students familiar and aware with following two concepts: firstly, need of Free and Open Source Software (FOSS) and secondly, Use of Linux Operating System. The workshop was held from 8<sup>th</sup> August 2017 to 11<sup>th</sup> August 2017 in Web Facilitation Center of the college. Volunteers were second year students of Computer Science(H) and Physical Science with Computer Science. The total number of active participants in the workshop were 735 from the 13 courses running in the college viz. B. Sc. Physics(H), B. Sc. Botany(H), B. Sc. Zoology(H), B. Sc. Chemistry(H), B. Sc. Maths(H), B. Sc. Electronics(H), B. Sc. Computer Science(H), B. Sc. BMS(H), B. Com (H), B. SC. Physical Science with Computer Science, B. SC. Physical Science with Chemistry, B. SC. Physical Science with Electronics and B. Sc. Life Sciences. These students were divided in 7 slots with 4 sessions (of three hours) in each slot.

- Session 1: First session was conducted on introduction to the operating system with emphasis on Linux (45 minutes). Further, light was thrown on Free and Open Source Software(FOSS) with prominence on it's usage in Linux.
- Session 2 : Second session (25 minutes) explained contrasting softwares of Linux and Windows. The students were also familiarized with basic Linux commands like cd, ls etc.
- Session 3 : Third session (40 minutes) illustrated the working of Libre Office Suite (Doc Writer, Calc and Impress).
- Session 4: Fourth session was primarily a practice session of 60 minutes consisting of exercises like bio-data on doc-writer, evaluating salary on calc and school presentation on impress.



In a nutshell, the workshop was a huge success. All the students participated in the workshop enthusiastically to learn the work on Linux which was indeed the main aim of the workshop. In fact, the whole event turned into healthy interactive sessions. As the students wanted to learn more they cleared their doubts from the volunteers who pioneered them.







### 13. Workshop on ‘Anxiety at Workplace’

Workshop on “Anxiety at Workplace” Department, of Zoology organized a workshop entitled, ‘Anxiety at Workplace’ on August 25, 2017 at 1:00 p.m. in the Conference Hall. The Workshop was conducted by noted psychiatrist Dr S.A. Basir. In the Workshop, Dr Basir provided the participants an insight into the field of anxiety management. He started the Workshop by identifying the major causes of anxiety, particularly those which are prevalent at the Workplace. He then revealed that workplace related anxiety is escalating at an alarming rate and that 1 out of every 4 persons is suffering from an anxiety-related disorder. He concluded the workshop by discussing the small changes that each person can make in their lifestyles to lead a life devoid of stress and anxiety. The Workshop was attended by 41 participants. The participants of the Workshop participated enthusiastically in the discussions and felt that the Workshop had equipped them to handle anxiety with a much more logical and scientific approach.







#### 14. A one day seminar, IPR awareness and Social Insects

Department of Zoology organized one day seminar on "IPR awareness & social insects on September 5, 2017, under the aegis of MHRD IPR Chair and DBT Star College Scheme. The schedule of the workshop was as follows:

Title of the Talk	Speaker
Importance of IPR and its Protection	Mr. R. Saha (Advisor CII & Former Director PFC, TIFAC, DST)
Patent, Patenting Procedure & Patent Search	Dr. Rekha Chaturvedi (IPR Chair Professor, DU)
Industrial Design & its Registration	Ms. Amanpreet Kaur (Project Assistant under IPR Chair)
Copyright	Dr. Rekha Chaturvedi (IPR Chair Professor, DU)
The Wonder World of Social Insects	Dr. Debjani De (Principal Scientist, Division of Entomology, IARI, Pusa)

In today's globalizing knowledge based economy, protecting Intellectual Property Rights (IPR) is very important. Therefore, the effective application of IPR in the creation, implementation & development in the field of education is critical. Apart from the realizing the importance of IPR on one hand, to attain more understanding on the behavior of social insects is equally important.

There was huge number of participants from all the Departments of the college. The program included two technical sessions. First session was focussed on "IPR awareness", that included discussions & importance of IPRs and their protection, Patenting procedures, searches, patentable and non-patentable inventions, copyright protection, issues of do's and don'ts in the context. The workshop was co-ordinated by Dr. Seema Makhija.

##### First Technical Session

Mr R. Saha, advisor CII is a master degree holder in aeronautical engineering from Cranfield University, England. He served the Govt. of India for 35 years in different capacities and handling responsibilities including technical evaluation & assessment, research, public policy matters. In the last 15 years, he spearheaded the national efforts in capacity building by creating IPR awareness in India, through workshops, publishing a monthly magazine, writing articles, starting DU's IPR cell and helping academic institutions in designing their IPR policies. He evolved an innovative system for protecting university inventions & other original IP ensuring active participations of inventors attorneys. He represented India in various international forums & was involved in negotiating international agreements in the scientific research and development.

Mr R. Saha, advisor CII, was keynote speaker for the session. He highlighted the importance of IPR & protection very nicely with practical examples. This created enthusiasm among the participants.



Dr. Rekha Chaturvedi, IPR Chair Professor (technical), DU: Dr. Rekha Chaturvedi, a Scientist by training, is an experienced professional in the field of Intellectual Property Management with 14 years of IP and 30 years of R&D experience. Dr Chaturvedi earned her doctorate from University of Oslo, Norway. Dr Chaturvedi has undertaken extensive training in IPR issues in India and abroad. Besides intensive training programs organized by CSIR, DST and DBT, CII and FICCI, she has undergone internships at NIH, USA, AOTS and JPO (Japan). She has put in 24 years of service with CSIR (Institute of Genomics and Integrative Biology, and National Botanical Research Institute) as Chief Scientist, Head of IPR and Planning cells and established and managed a vibrant IPR cell. She is a well-experienced professional in IP protection and management. During her career with CSIR-IGIB, she has authored several research and review articles and guided several PhD and Masters students for their theses work and trained many students in IPR who interned under her guidance. She has delivered talks in many workshops and training programs on patenting, ethics, and research planning and other IPR and WTO issues. She is also a registered Patent Agent with the Indian Patent Office and has long experience of handling Biotech, Pharma and New Chemical entity patents. She is also experienced in copyright, trademark and design registrations. Her key skills are imparting IP education, Planning & Policy, IP management including IP analysis and IP licensing. Dr Rekha Chaturvedi joined DU as the IPR Chair Professor (Technical). In her talk she illustrated the importance of IPR in the course of study and research. She delivered two talks on Patent procedures, searches and on Copyrights respectively. She emphasized on the trends of patent filing in India and abroad and cited success stories on capitalizing of IP.

Ms. Amanpreet Kaur, Research Assistant under IPR Chair, delivered a talk on Industrial designs and registration.

### Second Technical Session

The second Technical session was dedicated to "Wonder world of Social Insects" by Dr Debjani Dey, Principal Scientist, IARI . Currently working as a Principal Scientist in the Biosystematic Section of the Division of Entomology, IARI and involved in biosystematics research and teaching for the past 25 years. She has been trained in insect taxonomy with Commonwealth funding at The International Institute of Entomology, London and British Museum of Natural History, London. Incharge of the 110 year old National Pusa Collection she is involved in maintenance and curation of nearly 0.9 million insect specimens many of which are more than 100 year old. Currently she is Principal Investigator of the IARI Institute Taxonomy project, "Biosystematics of insects, fungi, bacteria and nematodes of economic importance" and also Principal Investigator of the "ICAR Network project on insect biosystematics". Till date she has published more than 90 research papers, authored 30 book chapters, one book and has delivered more than 30 invited lectures on various aspects of Taxonomy / Hymenoptera in various training programmes talked about the behaviour of social insects in depth. The session was appreciated by the students.

The seminar was a huge success.....





## **ACHARYA NARENDRA DEV COLLEGE**

(University of Delhi)  
NAAC Accredited: 'A' Grade

### **Department of Zoology**

(Under the aegis of DBT Star College Scheme)

### **Organizes One Day Seminar**

on

**Awareness on IPR**

**&**

**Social Insects**

**Date: September 05, 2017**

**Time: 09.30 AM**

**Venue: Conference Hall**

Title of the Talk	Speaker
Importance of IPR and its Protection	Mr. R. Saha (Advisor CII & Former Director PFC, TIFAC, DST)
Patent, Patenting Procedure & Patent Search	Dr. Rekha Chaturvedi (IPR Chair Professor, DU)
Industrial Design & its Registration	Ms. Amanpreet Kaur (Project Assistant under IPR Chair)
Copyright	Dr. Rekha Chaturvedi (IPR Chair Professor, DU)
The Wonder World of Social Insects	Dr. Debjani De (Principal Scientist, Division of Entomology, IARI, Pusa)

Dr. Savithri Singh  
Principal

Dr. Seema Makhija  
Coordinator

## 15. Workshop on “PCR & Southern Blotting”

A hands-on training workshop, ‘PCR & Southern Blotting’, was held on September 26, 2017. The workshop received enthusiastic participation from the students who appreciated the experience of setting up their own experiments using PCR and Southern Blotting, two techniques which are at the core of all scientific research in Biology. The Workshop received enthusiastic participation

from the students of Life Science, Chemistry (H) and Physics (H) who appreciated the experience of setting up their own experiments using PCR and Southern Blotting, two techniques which are at the core of all scientific research in biology.





## **16. Python Workshop (SPIE ANDC Student Chapter)**

**Faculty Advisor & Resource Person:** Prof. Amit Garg

**Resource Person:** Mr. Jatin Katyal, Python Mentor, Coding Blocks

### **Office Bearers & Student Coordinators**

President	Prince Sharma
Vice President	MallikaYadav
Secretary	Avinash Kumar
Treasurer	GauravLokhna

A workshop on 'PYTHON' was organized in association with, industry partner Coding Blocks for the students of Electronics on April 3, 2019, 1 p.m. to 3 p.m.

Coding Blocks is an online training institute which offers programming and software related courses like Java, C++, Android, NodeJS and more. 70 students from different courses registered for the workshop. The resource person, Mr. Jatin Katyal, python mentor on behalf of Coding Blocks provided basic knowledge about programming in python.

<https://www.andcollege.edu.ac.in/beyondtheclassroom/spie>

<https://www.andcollege.edu.ac.in/uploads/spie-reports/SPIE-2019.pdf>

Links for more information on of student members and activities:

Contact Information:

**Email:** [andcspie8@gmail.com](mailto:andcspie8@gmail.com)

**Website:** <https://www.spieandc.org/>

**Facebook page:** <https://m.facebook.com/spieandc/>

**Instagram page:** [https://www.instagram.com/spie\\_andc/](https://www.instagram.com/spie_andc/)

**YouTube channel:** <https://www.youtube.com/@SPIEANDC>

**LinkedIn page:** <https://www.linkedin.com/company/spie-andc/>

## 17. Workshop on “Fraud, Forgery and Forensics: Examining Handwriting, Fingerprinting and Security documents”

### Report

A one-day Forensic Science workshop was organized under the aegis of DBT-STAR College Scheme entitled ‘Fraud, Forgery & Forensics: Examining Handwriting, Fingerprints and Security Documents’ on April 3, 2019 in the college premises. The inaugural lecture on ‘Handwriting and Signature Forgery’ was delivered by Mr J. K. Semwal (Senior Faculty-Documents, Lok Nayak Jaiprakash Narayan National Institute of Criminology and Forensic Science, Ministry of Home affairs, Government of India). More than 120 participants from various departments and colleges of the University of Delhi as well as many Universities and institutions from Delhi-NCR learned various techniques of Forensic Science through the workshop.

**Acharya Narendra Dev College**  
Department Of Biomedical Science

Organises  
One day workshop  
on  
**FRAUD, FORGERY AND FORENSICS: EXAMINING HANDWRITING,  
FINGERPRINTS AND SECURITY DOCUMENTS**  
(Under the Aegis of DBT Star College Scheme)  
3rd April 2019; 10:00 AM - 3:00 PM.  
First come first serve basis, selected candidates will be informed through email

**SPEAKER:**  
Sri J.K. SEMWAL

Patron:  
Dr. Ravi Toteja

Convenors:  
Dr. Archana Pandey  
Dr. Sunita Jetly

Organising committee:  
Dr. Abhishek Kr. Mehta  
Dr. Satendra Singh

Dr. Rakesh Roshan  
Dr. Namita Singh  
Dr. Abhijeet Mishra

Use the given QR code for registration.

## 18. Two day FDP on Emotional Intelligence



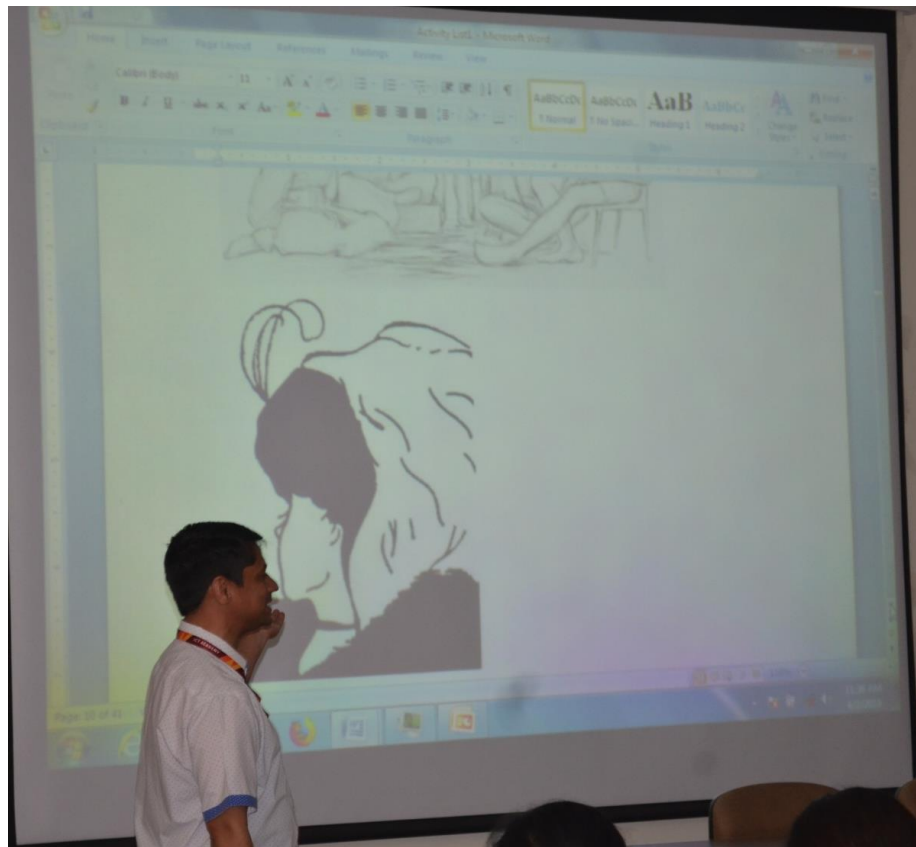
### REPORT

Department of Computer Science, Acharya Narendra Dev college, in collaboration with ICT Academy under star scheme 2018-19, organized a two-day Faculty Development Program on “Emotional Intelligence (EI)”. In this Faculty Development Program, the participants got to know about the importance of Emotional Intelligence(EI) over Intelligence Quotient(IQ). The talk emphasized on awareness of self emotion and social emotion(other people). The Day one concentrated on the need of emotional intelligence in day to day activities. The talk enriched the participants based on various activities like Questionnaire, group discussion and story telling. The Day two concentrated on emotional hijacking, Stress Management and its importance to both college teachers and employers. Stress management focused on day to day functioning and improving the negative emotions to have a balanced life. It narrows your ability to think clearly, function effectively, and enjoy life. The FDP was aimed at enhancing the skill set of participants. The Session was very interactive as the participants were given an EI test and they have been told about their Emotional quotient grounded on their scores.

At the end of the programme, participants gave the feedback at the ICT’s online portal. Subsequently, participants have been awarded with the E-certificates. Session ended with the vote of thanks by Dr. Harita Ahuja. The FDP proved to be extremely informative and was a great success with participation from around 30 faculty members from various Universities







## 19. One day Technical talk on “Chaos Engineering”

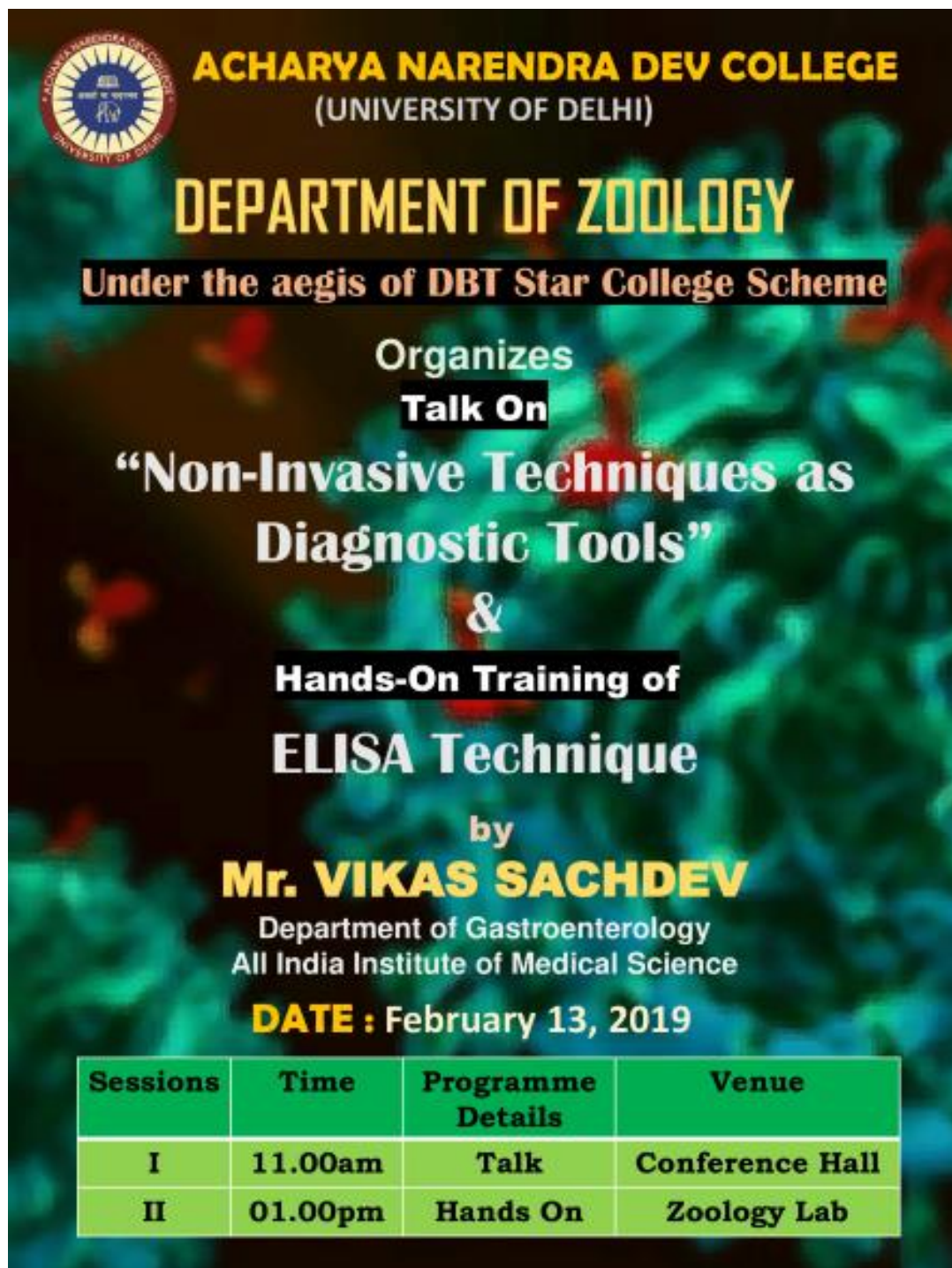



## REPORT

Under the aegis of the DBT Star Scheme, the **Turing Society** of **Department of Computer Science** of the college organized a technical talk on the topic **Chaos Engineering**. Chaos Engineering can be thought of as the facilitation of experiments to uncover systemic weaknesses and observing how the system reacts under those experiments. Chaos Engineering exposes unknown weaknesses, which can be proactively fixed upon discovery. But, care must be taken not to run experiments if a weakness are known or you are certain that an experiment will fail. The discussion also focused on how industry giants like Netflix and Amazon apply chaos engineering to strengthen their systems. Simian Army, an open source tool by Netflix was discussed with the students. This tool allows engineers to test reliability, security, resilience, and recoverability of the cloud services of Amazon Web Services (AWS) infrastructure. Overall the talk was an informative session for the students.



## 20. Hands on Training on “ELISA Technique”

The poster features a dark background with a vibrant, abstract pattern of green and blue swirling shapes, resembling microscopic structures or cellular components. At the top left is the circular logo of Acharya Narendra Dev College, University of Delhi. The text is centered and uses a mix of bold, sans-serif fonts in yellow, white, and black. The title is prominently displayed in the center, and the speaker's name is highlighted in yellow. The date is in bold yellow. At the bottom, a green table with white text provides the schedule of the event.

 **ACHARYA NARENDRA DEV COLLEGE**  
(UNIVERSITY OF DELHI)

**DEPARTMENT OF ZOOLOGY**

**Under the aegis of DBT Star College Scheme**

Organizes  
**Talk On**

**“Non-Invasive Techniques as  
Diagnostic Tools”**  
&  
**Hands-On Training of  
ELISA Technique**

by  
**Mr. VIKAS SACHDEV**  
Department of Gastroenterology  
All India Institute of Medical Science

**DATE :** February 13, 2019

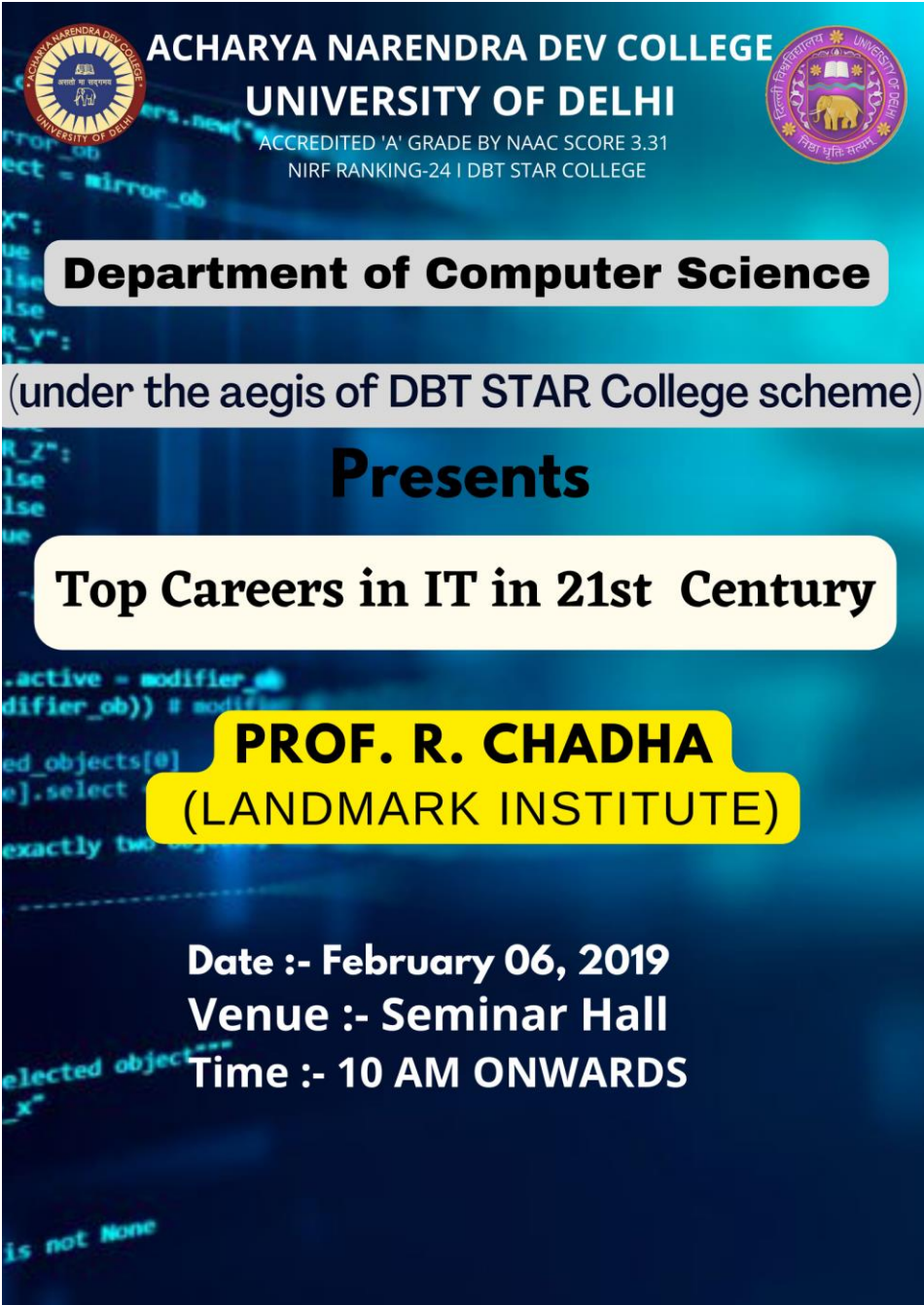
Sessions	Time	Programme Details	Venue
I	11.00am	Talk	Conference Hall
II	01.00pm	Hands On	Zoology Lab

## Report

Workshop and Hands on Training on “ELISA Technique” (under the aegis of DBT Star College Scheme) was organised on February 13, 2019. The resource person was Mr Vikas Sachdev from Department of Gastroenterology, All India Institute of Medical science, New Delhi. The lecture was attended by the students of B.Sc. (H) Zoology and B.Sc. Life Science. In his lecture Mr Sachdev described various techniques like lithotripsy, radiological techniques, measurements of temperature, BP, heart rate and many others. Immediately after the lecture, students were given hands on training on ELISA (Enzyme linked immunosorbent assay), a diagnostic technique. Mr Sachdev started with the theory of ELISA technique. The kit used for doing hands on was kindly gifted by Mr. Sachdev. The kit used was for diagnosis of pancreatitis. For hands on, 6 groups of 4 students each were formed. Students were explained the various steps and principle involved in the process of carrying out ELISA.



## 21. A talk on “Top Careers in IT in 21<sup>st</sup> Century”



**ACHARYA NARENDRA DEV COLLEGE**  
**UNIVERSITY OF DELHI**  
ACCREDITED 'A' GRADE BY NAAC SCORE 3.31  
NIRF RANKING-24 | DBT STAR COLLEGE

**Department of Computer Science**

(under the aegis of DBT STAR College scheme)

**Presents**

**Top Careers in IT in 21<sup>st</sup> Century**

**PROF. R. CHADHA**  
(LANDMARK INSTITUTE)

**Date :- February 06, 2019**  
**Venue :- Seminar Hall**  
**Time :- 10 AM ONWARDS**

### Report

A talk on “Top Careers in IT in 21<sup>st</sup> Century” was organized by Turing Society of Department of Computer Science, which was presided by Prof. R. Chadha Landmark Institute, New Delhi. During the talk, he informed the students about various career options that they may aspire for after graduation in various areas in both private and the Government sectors.



## **22. Invited talk on ‘Satellite Communication’**

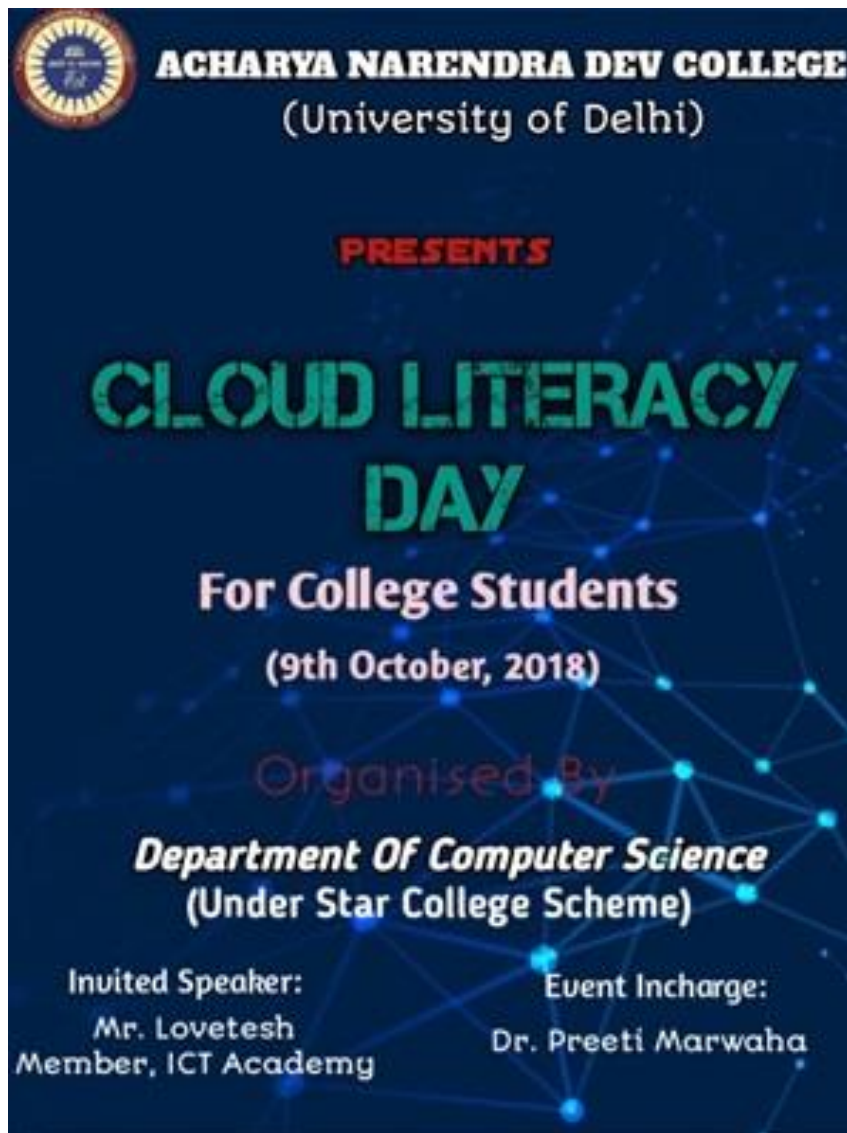
Department of Electronics organized an invited talk, under the aegis of DBT STAR Scheme, on January 31, 2019. Professor Mridula Gupta from Department of Electronics, University of Delhi, South Campus was the key speaker of the function. She delivered an insight talk on “Satellite Communication”. The talk was attended by around 68 students from various courses from our college. Through her talk she was able to enlighten the students about various aspects of Satellite Communication. The talk was followed by an interactive session with the students, where students queries were answered.



### **23. Professional Conduct with Positive Attitude**

Department of Electronics organized an invited talk, under the aegis of DBT STAR Scheme, on October 4, 2018. Ms. Anju Kumari was the key speaker of the function. Ms. Anju Kumari is Motivational speaker and life skills trainer. She is also the Founder of Crafting Leaders. She delivered an inspiring talk on 'Professional conduct with positive attitude'. The speaker interacted with the students and involved them in various confidence boosting activities. She was also able to guide the students in improving their decision making skills and having a more positive outlook towards life. Students from I, II and III year of B.Sc. (H) Electronics participated in the event.

## 24. Cloud Literacy day

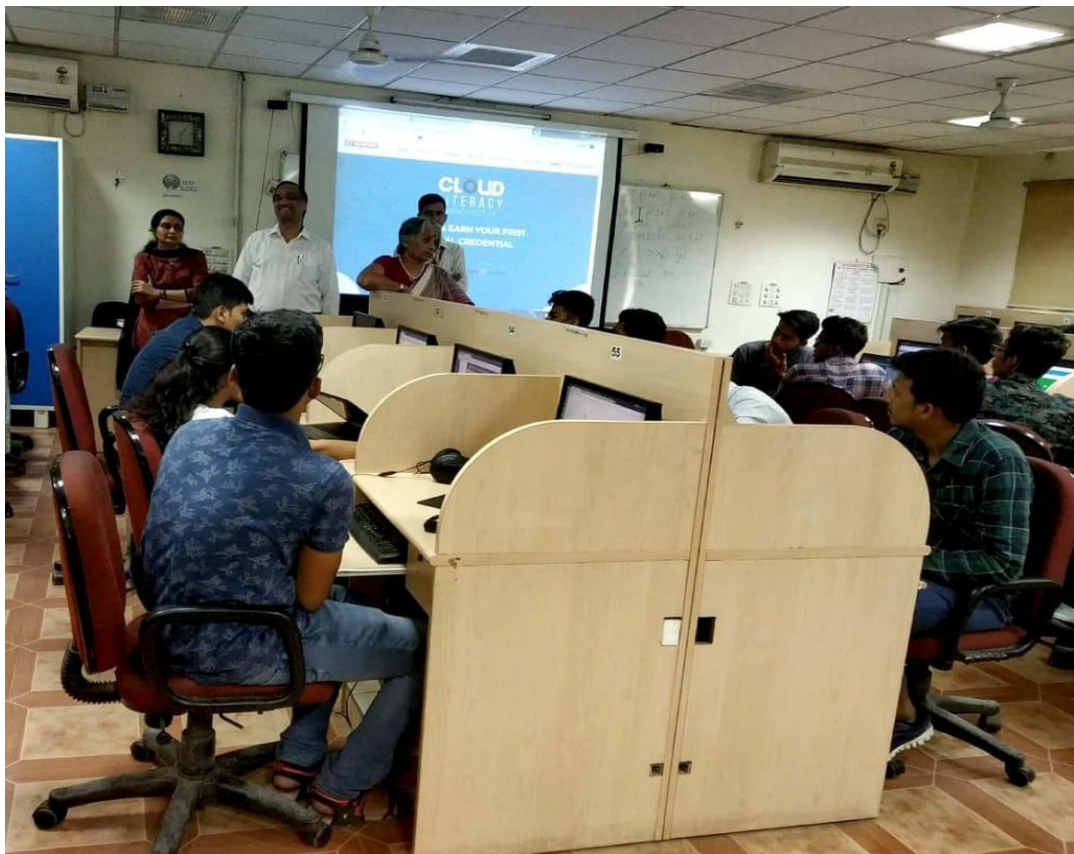


### REPORT

Amazon Web Services Educate celebrated October as the Cloud Literacy month. Department of Computer Science, Acharya Narendra Dev college, in collaboration with ICT Academy and AWS Educate, organised cloud literacy day on 9th October, 2018. The event presented various aspects of cloud computing through online lectures. Global cloud services market is expected to reach \$555 billion by 2020. The students learnt various aspects of cloud technology.

The event lasted for about 8 hours. Over 150 students were successfully registered for the event and many were able to generate badges online. The badges earned by students are globally recognized. Moreover, each registered student earned \$75 as AWS promotional credits for online learning.





## **25. SPIE Induction Workshop (SPIE ANDC Student Chapter)**

**Faculty Advisor & Resource Person:** Prof. Amit Garg

### **Office Bearers & Student Coordinators**

President	Rohit Saini	B.Sc. (H) Electronics (VI Sem)
Vice President	Chiradeep Das	B.Sc. (H) Electronics (VI Sem)
Secretary	Ritesh Raj	B.Sc. (H) Electronics (VI Sem)
Treasurer	HardikMinocha	B.Sc. (H) Electronics (IV Sem)

Induction Workshop: - A two-day Induction Workshop was held from September 25-26, 2018 for SPIE members. The workshop had an invited talk by Prof. Joby Joseph, Department of Physics, IIT Delhi on the topic of “Fabrication of Nanophotonic Structures and some Applications”. Hands-on sessions were conducted during the workshop on projects like Water drop Microscope, Communication through Fiber-Optic cables, Laser Spirograph, Lissajous light patterns through vibration and Holography. Dr. Sanjay Kumar, Department of Physics was the resource person in setting up and recording the holograms. The workshop convener was Dr. Amit Garg. 158 students across different courses in the college participated in the event.

<https://www.andcollege.edu.ac.in/beyondtheclassroom/spie>

<https://www.andcollege.edu.ac.in/uploads/spie-reports/SPIE-2019.pdf>

Links for more information on of student members and activities:

Contact Information:

**Email:** [andcspie8@gmail.com](mailto:andcspie8@gmail.com)

**Website:** <https://www.spieandc.org/>

**Facebook page:** <https://m.facebook.com/spieandc/>

**Instagram page:** [https://www.instagram.com/spie\\_andc/](https://www.instagram.com/spie_andc/)



**YouTube channel:** <https://www.youtube.com/@SPIEANDC>

**LinkedIn page:** <https://www.linkedin.com/company/spie-andc/>

## 26. Current Trends in Mobile Application Development

Department of Electronics, under the aegis of DBT STAR College Scheme, organized an inaugural lecture on 20<sup>th</sup> September, 2018. Mr. Rohit Gambhir, was the key speaker of the function. Mr. Rohit Gambhir is an alumnus of our college and currently the Lead in Mobile Application Development at QA Infotech. He delivered an informative talk on '**Current trends in Mobile Application Development**'. The students were able to learn about Mobile Application Development and some upcoming Applications.

The talk was followed by an interactive session where students queries were answered. Since the speaker was an alumnus of the college, he was also able to share some memories and experience with students. 85 students from I, II and III year of B.Sc. (H) Electronics participated in the event.



**ACHARYA NARENDRA DEV COLLEGE**  
(University of Delhi)  
NAAC accredited 'A' grade

**Department of Electronics**  
(under the aegis of DBT STAR College scheme)

cordially invites you to a lecture by

**Mr. Rohit Gambhir**  
Lead, Mobile Application Development, QA Infotech

On

**Current Trends in Mobile Application Development**

Date: 20<sup>th</sup> September, 2018 (Thursday)  
Time: 9:30 A.M.  
Venue: College Conference Hall



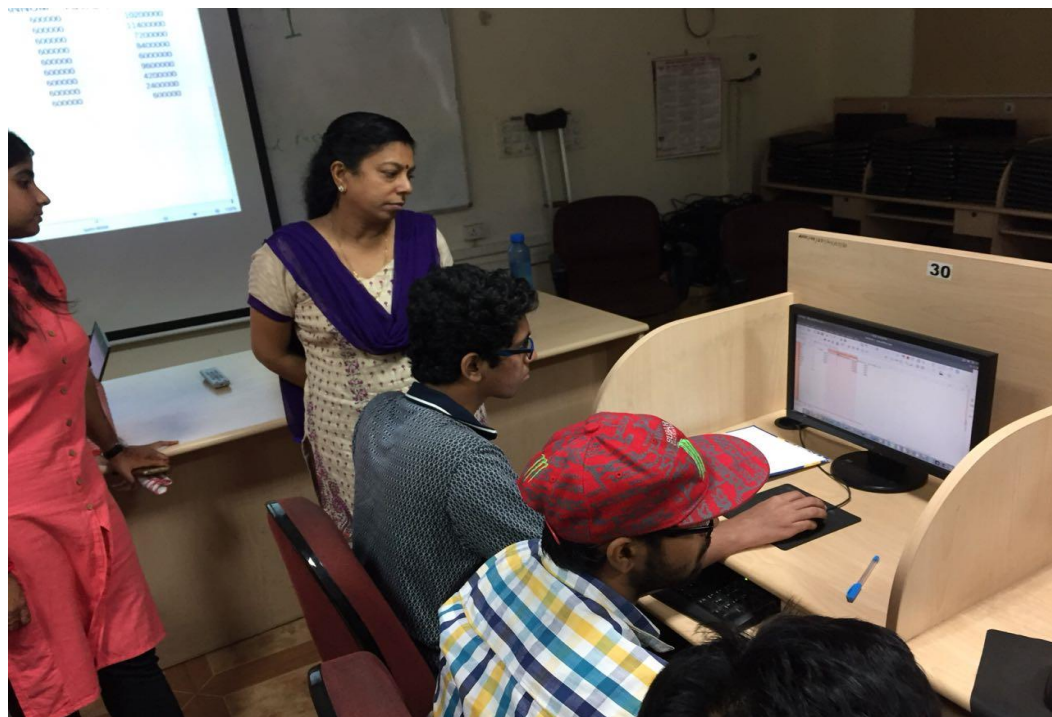
## 27. Workshop on “FOSS (Free and Open Source Software) and Linux Familiarization”



### REPORT

Acharya Narendra Dev College is a pioneer within the University in exclusive use of Linux Operating System and other Free & Open Source Software (FOSS) on its PCs. It adopted FOSS in the year 2007 to provide great learning and sharing opportunities to its students. Under this initiative Department of Computer Science of the college organizes an introductory workshop every year to welcome freshers into the world of FOSS. It is mandatory for all the freshers of the thirteen courses that college offers, to attend the workshop whether they have taken computer science course or not, as Linux is the only operating system available on its laptop and desktop machines unless other proprietary software is dictated by the syllabus. This year too a four day workshop was organized from 28th Aug, 2018 to 04th Sep, 2018 to familiarize the incumbents of various courses with FOSS concepts. Senior students of B.Sc. (H) Computer Science and B.Sc. Physical Science (Computer Science) were roped in as volunteers for the workshop. They are the ideal candidate for this purpose as they attended this workshop as freshers and then they have been extensively trained through the year on various Linux platforms. Each session was divided into three parts. The first part covered introduction to FOSS and salient features of Linux operating system including why it comes under the category of open source software.

Second part gave a contrast between Linux & Windows operating system. And third part introduced Libre Office which included LibreOffice Writer for writing text, LibreOffice Calc for working on knowledge a practice session was also given to the students. The workshop was a great success. Most of the students of each course could attend it and it turned out to be a great learning experience for all the participants as well as volunteers. The enthusiasm and passion of the new students and volunteers was commendable all through the workshop. Participants were interactive and showed keen interest in the hands-on sessions of the workshop.



## 28. Technical talk on “Turing test to Deep learning”



## REPORT

Acharya Narendra Dev College is an educational and research oriented hub of eminence of India under University of Delhi. It envisage proffering quality education to its students while emboldening them with diverse exposure and hands on research. We adhere to the ideology of 'preparing for the future' by exploring and innovating 'beyond the classroom'

Under this initiative **Turing society** of **Department of Computer Science** of the college organizes a technical talk on the topic **Turing test to Deep learning**. It is mandatory for all the students to attend who have taken computer science course; But was open for all. We have a lot response from other departments for the workshop. We had **(Prof.) Dr. Vasudha Bhatnagar** as our eminent guest speaker. She is working in Delhi University as the head of the Computer science department, And has a great interest in Operating system programming and artificial intelligence

This talk was organized from *10am to 12pm on 19<sup>th</sup> Sep, 2018* to familiarize the incumbents of various courses with Turing machine and concept of deep learning. Senior students of B.Sc. (H) computer science were roped in as volunteers for the workshop. They are the ideal candidate for this workshop as their teachers helped them to work impressively for the department. The teachers of the department along with Dr. Vasudha Bhatnagar, began the day by lightning the lamp.



Mam started session with taking the initiative about turing machine invented by Alan Turing in 1935 and then she made students to know about imitation game and the question that arises in Turing's mind that can machines think? Other important aspects taken by mam are described as:

- *Turing test*: The Turing test, developed by Alan Turing in 1950, is a test of a machine's ability to exhibit intelligent behavior equivalent to, or indistinguishable from, that of a human.
- *Intelligence*: 1. Human intelligence (Not a single ability or cognitive process) 2. Machine intelligence (Learning: Machine must be able to adapt to new situations; Reasoning)
- Expert systems: 1) **Mycin** - diagnosing infectious diseases. 2) **Dendral** -identifying unknown organic molecule.
- Preconception/neural network: in recent years, with dramatic improvements in computer models of perception brought about by "deep learning" approaches. In now days neural networks are the basis for artificial intelligence.
- *Artificial intelligence(AI) tools*: Neural networks, Support Vector Machines, Deep learning
- *Deep learning*: means using a neural network with several layers of nodes between input and output. Recent Advances using DL: AlphaGo, Image Recognition, Driverless cars

At the end convenor of Turing society delivered a vote of thanks and concluded the session. Then principal mam gifted the guest a token of appreciation. The enthusiasm and Passion of the students and volunteers was commendable all through the talk. Participants were interactive and showed keen interest in the topic of talk. The talk was a great success.





## 29. Workshop on "Awareness on Digital India Initiative"



### REPORT

Department of Computer Science of Acharya Narendra Dev College organized a workshop (under the Star college scheme) on Digital India Initiative in collaboration with CSC e-governance Services India Ltd. on 18<sup>th</sup> September, 2018.

CSC e-Governance Services India Limited is a Special Purpose Vehicle (SPV) set up by the Ministry of Electronics & IT to oversee the implementation of the CSC scheme. CSC SPV provides a centralized collaborative framework for delivery of services through Common Services Centers (CSCs).

CSCs are the last mile access points for delivery of various e-governance and public services such as PAN card, Election ID, UID etc. to citizens. They are also focused on employment generation through e-learning and skill development for rural communities.



About 150 students from Department of Computer Science, Electronics and Zoology attended the workshop. The workshop was a great success. Participants were interactive and showed keen interest in the services offered by CSCs. Their enthusiastic participation led to greater awareness about the courses offered through the CSCs.











### 30. Paradigm shift in Physics Education through hands-on techniques in Optics



**ACHARYA NARENDRA DEV COLLEGE**

(University of Delhi)  
NAAC accredited 'A' grade



**Department of Physics**

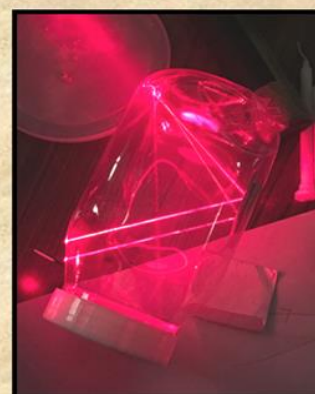
**(under the aegis of DBT STAR College scheme)**

**in collaboration with**

**Joy of Learning Foundation, Delhi**

**cordially invites students and colleagues to an  
interactive session on**

**'Paradigm shift in Physics Education  
through hands-on techniques in Optics'**



**Date: 05 & 07 September 2018 (Wednesday & Friday)**

**Time: 10.00 a.m.**

**Venue: Seminar Hall (new block)**

**Patron: Dr. Savithri Singh**

**Convener: Dr. Arijit Chowdhuri**

**Coordinators: Dr. Manisha Verma and Dr. Sanjeeta Rani**

#### Report

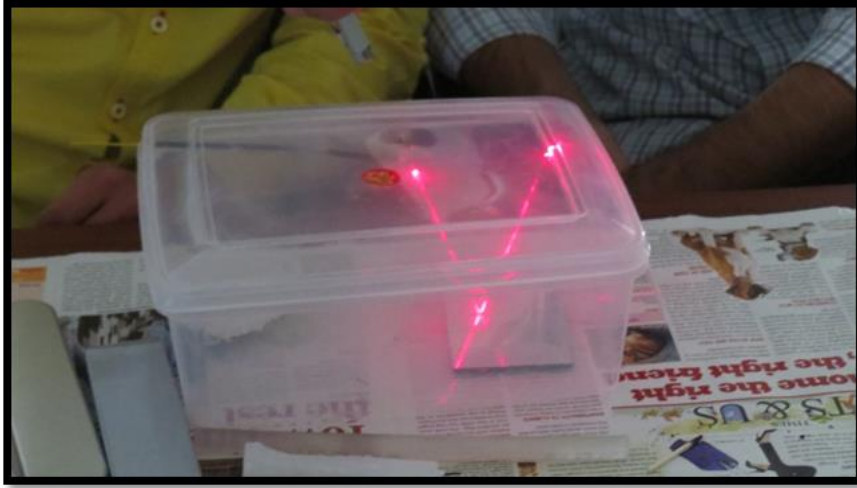
The Hands-on workshop involved clearing the concept of Total Internal Reflection (TIR). It is a phenomenon that occurs when light travels from a medium with a higher refractive index to a medium with a lower refractive index, and the angle of incidence is greater than the critical angle. In this case, the light is completely reflected back into the medium with the higher refractive index, rather than being transmitted into the medium with the lower refractive index. The critical angle is the angle of incidence at which the refracted angle becomes 90 degrees. If the angle of incidence is greater than the critical angle, the light is completely reflected back into the medium.

with the higher refractive index. This phenomenon is useful in a variety of applications, including optical fibers, prisms, and binoculars. One of the most common applications of total internal

reflection is in optical fibers. Optical fibers are long, thin strands of glass or plastic that are used to transmit light over long distances. The fiber consists of a core, which has a higher refractive index than the surrounding cladding, and a protective outer coating. When light is introduced into the fiber at one end, it is transmitted through the core by total internal reflection. The light reflects off the boundary between the core and the cladding, which prevents it from escaping the fiber. The light can be transmitted over long distances with little or no loss of signal, making optical fibers ideal for use in telecommunications, medical equipment, and other applications where high-speed, low-loss transmission is critical. Prisms are another example of how total internal reflection can be used. A prism is a piece of glass or other transparent material with flat, polished surfaces that refract and reflect light. When light enters a prism at an angle greater than the critical angle, it is reflected back into the prism and undergoes multiple reflections before exiting at a different angle. This allows prisms to be used to split light into its component colors, as well as for other optical applications. In conclusion, total internal reflection is a useful phenomenon that occurs when light travels from a medium with a higher refractive index to a medium with a lower refractive index at an angle greater than the critical angle. This phenomenon is used in a wide range of applications, including optical fibers, prisms, and binoculars, and plays a critical role in modern technology and communication.

In the workshop TIR was investigated using pen LASERs. LASER stands for "Light Amplification by Stimulated Emission of Radiation." It is a device that emits a beam of light through a process of optical amplification based on the stimulated emission of photons. LASERs produce a coherent and monochromatic beam of light that can be focused into a narrow beam and used for a variety of applications, including cutting and welding, medical procedures, and communication technologies. The properties of LASERs, such as their high intensity and directional beam, make them a powerful tool in many fields of science and technology, and they continue to be an important area of research and development today.









# *Acharya Narendra Dev College*

(University of Delhi)

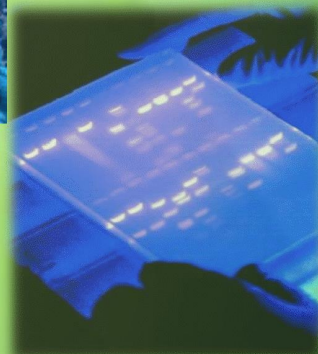
*Under the aegis of star college scheme*

*Organized by*

*Ciliate Biology Laboratory*

*Workshop on*

## *Molecular Biology Techniques*



*Time: 09:30 A.M.*

*Date : November 22, 2019*



## Report

Workshop on “Molecular Biology Techniques” One Day Hands on workshop on Molecular Biology Techniques was organized by Department of Zoology on November 22, 2019 for the undergraduate and Post Graduate students of G.D.Goenka University.

Students of G.D. Goenka were given an opportunity to visit Following research labs at ANDC: Anti-mycobacterial Drug Discovery Laboratory, Microbial Technology Laboratory, Insect-Vector and Pest Laboratory, Ciliate Biology Laboratory.

Students were given hands on exposure to the following experiments:

- (1) Culturing and observation of ciliates/bacteria
- (2) DNA Isolation from bacterial culture
- (3) Agarose Gel Electrophoresis
- (4) Polymerase Chain Reaction and
- (5) Phylogenetic analysis using Bioinformatic tools

An e- manual was prepared for the same and shared with the students. Students enjoyed the hands on experience during the workshop.










32. Inter-disciplinary exhibit presentation on “New frontiers in science” (under the aegis of DBT star college program)




**ACHARYA NARENDRA DEV COLLEGE**  
University of Delhi  
NAAC Accreditation Grade 'A' | NAAC Mentor under PARAMARSH Scheme

Under the aegis of DBT Star College Scheme  
presents

One-day inter-disciplinary exhibit presentation


**NEW FRONTIERS IN SCIENCE**



**Dr Archana Pandey**  
**Dr Seema Makhija**  
Coordinators

**Dr Ravi Toteja**  
Patron

**Dr Ravneet Kaur**  
**Dr Harita Ahuja**  
Convenors



**22**  
October  
2019

For Details Visit  
<http://andcollege.du.ac.in/>

**List of Dignitaries:** Dr. Usha Rao (9911162584), Dr Sanjukta Subudhi (9818845129), Dr Aparajita Mohanty (98105 67611 ) , Dr Harsupreet Kaur (98119 05600), Dr Abid (8750295095), Dr Hardeep Kaur (9810829629), Dr Ashutosh Bharadwaj (9910124636), Dr S Ramchandran (98187 66438), Dr Neera Mehra (9810536318)

## **Report**

Acharya Narendra Dev College under the aegis of DBT Star College Scheme organized a One Day Interdisciplinary Exhibit Presentation on “New Frontiers in Science” in the College premises on 22<sup>nd</sup> October, 2019. Department of Electronics along with the other departments of the college was actively involved in organizing the event.

Various innovative projects of inter-disciplinary nature undertaken by UG students under the following heads were considered for demonstration/exhibition,:

1. Star Projects (2017-2019)
2. ELITE projects (2018-2019)
3. Think Lab (2018-2019)
4. Cube (2018-2019)
5. Extramural projects

Ph.D. students who are registered with the college teachers were also encouraged to present their work.

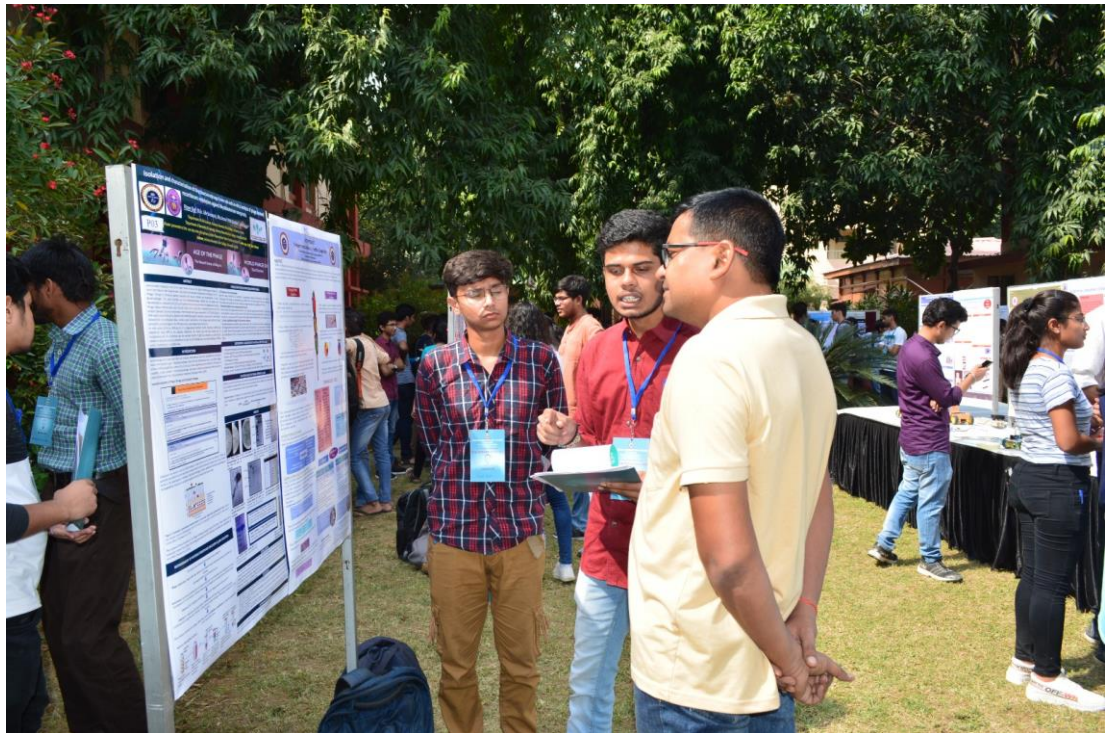
All the participants were also asked to submit an abstract of the /project/research work they wish to present in the exhibition. After a rigorous review process by the screening committee, 50 projects were shortlisted for poster presentation.

The event started with an invited lecture talk by a distinguished lecturer which was followed by poster/exhibit presentation. The posters/exhibits were reviewed by three panels of judges with each panel having three subject experts. After critical review by the panel of judges, 3 projects were awarded ‘best poster’. In addition to this, 6 other projects were also awarded ‘consolation’. All the other participating students were also awarded certificates of participation.

As a part of outreach program, students from various schools were also invited. Around 110 from three different schools attended the event. Enthusiasm and curiosity amongst the school students towards latest research trends in science and technology was quite evident. Interaction and sharing of ideas between school students and the participants/presenters made the event even more successful.













### 33. Autonomous Navigation System with Intelligent Camera for Space and Earth

**Faculty Advisor (ANDC SPIE Student Chapter):** Prof. AmitGarg  
**SPIE ANDC Office Bearers & Student Coordinators**

President	Prince Sharma
Vice President	MallikaYadav
Secretary	Avinash Kumar
Treasurer	GauravLokhna



University of Delhi at ANDC SPIE Student Chapter  
**ACHARYA NARENDRA DEV COLLEGE**  
(UNIVERSITY OF DELHI)  
Govindpuri, Kalkaji, New Delhi – 110019



**Technical Talk and Interaction  
with**

**Prof. Marija Strojnik**  
Astrophysicist and Distinguished Professor, Optical Research Center  
Leon, Gto., Mexico

(Date- 15<sup>th</sup> October 2019, Venue- Seminar Hall)

9:15 a.m. – 10:00 a.m.	Registration
10:00 a.m. – 10:15 a.m.	Welcome and Lamp Lighting Welcome address <b>Dr. Ravi Toteja</b> Acting Principal, Acharya Narendra Dev College  Inaugural address <b>Dr. Arijit Chowdhuri</b> Faculty, Department of Physics
10:15 a.m. – 11:30 a.m.	<b>Lecture on Autonomous Navigation with Intelligent Camera for Space and Earth</b>  <b>Prof. Marija Strojnik</b>
11:30 a.m. – 11:45 a.m.	<b>Tea break</b>
11:45 a.m. – 1:00 p.m.	<b>Motivational Interactive Session with Women Students</b>  <b>Prof. Marija Strojnik</b>
1:00 p.m. – 1:05 p.m.	Vote of Thanks- <b>Mr. Prince Sharma</b> , President, SPIE Student Chapter Memento- SPIE Student Chapter Office Bearers
1:05 p.m. – 2:00 p.m.	Project Exhibition by SPIE Students (Venue: Department of Electronics)
2:00 p.m. – 3:00 p.m.	Guest Lunch





## Report

Prof. Marija Strojnik, Astrophysicist and Distinguished Professor at Optical Research Center, Mexico delivered a very insightful talk on Autonomous Navigation System with Intelligent Camera for Space and Earth'

<https://www.andcollege.edu.ac.in/beyondtheclassroom/spie>

<https://www.andcollege.edu.ac.in/uploads/spie-reports/SPIE-2019.pdf>

[https://www.andcollege.edu.ac.in/ar\\_2020/ANDC\\_AnnualReport2020.html#p=21](https://www.andcollege.edu.ac.in/ar_2020/ANDC_AnnualReport2020.html#p=21)

Links for more information on of student members and activities:

**Email:** [andcspe8@gmail.com](mailto:andcspe8@gmail.com)

**Website:** <https://www.spieandc.org/>

**Facebook page:** <https://m.facebook.com/spieandc/>

**Instagram page:** [https://www.instagram.com/spie\\_andc/](https://www.instagram.com/spie_andc/)

**YouTube channel:** <https://www.youtube.com/@SPIEANDC>

**LinkedIn page:** <https://www.linkedin.com/company/spie-andc/>

### 34. Learning Molecular Biology Techniques



# *Acharya Narendra Dev College*

(University of Delhi)

*Department of Zoology*

*Under the aegis of DBT STAR College Scheme*

*Organizes*

*Hands on Workshop*

## *Learning Molecular Biology Techniques*



*Time: 09:30 A.M.*

*Date :September 24, 2019*

*Venue :Zoology Laboratory*



*All interested are welcome to attend*

*Patron: Dr. Ravi Toteja; Coordinators: Dr. Seema Makhija, Dr. Archana Pandey; Convener: Dr. Sarita Kumar*



## Report

Workshop on “Learning Molecular Biology Techniques” One day hands on workshop “Learning Molecular Biology Techniques” was conducted on September 24, 2019 for B.Sc. (H) Zoology and B.Sc. Life Sciences of the College.

Inter-departmental one day hands on workshop “Learning Molecular Biology Techniques” was conducted by Acharya Narendra Dev College under the aegis of DBT Star College Scheme organized in the College premises on September 24, 2019. Student's from B.Sc. Biomedical Science and B.Sc. (H) Zoology had participated in this workshop. These students had done various molecular biology techniques like PCR, Agarose gel electrophoresis, DNA isolation and DNA digestion with restriction enzymes. Students had good experience by doing various biological techniques and understood their principals and significances. The workshop was of great use for students for those who want to pursue higher studies in biological sciences.

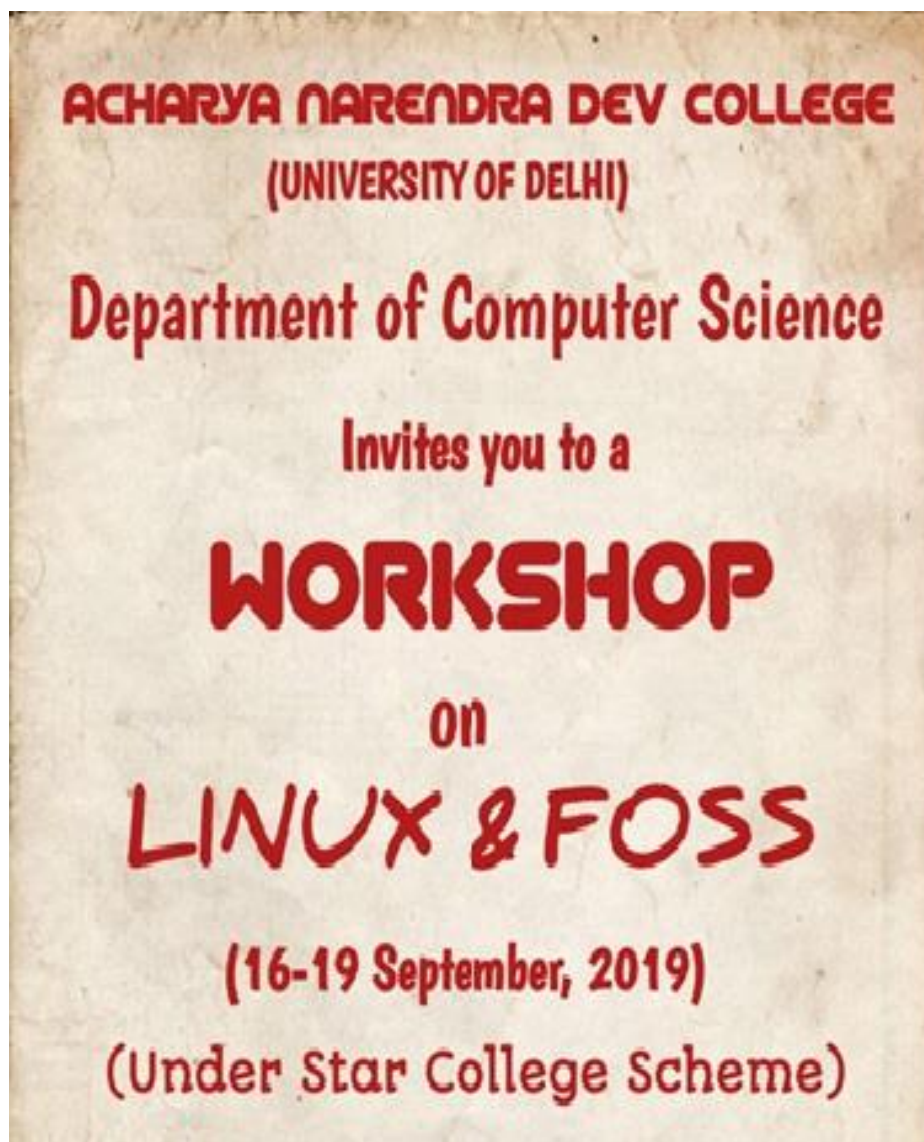
An e-manual was prepared and following experiments were conducted:

- (1) Amplification of the small subunit ribosomal RNA (18S rRNA) gene using gene-specific primers by polymerase chain reaction (PCR).
- (2) Agarose Gel Electrophoresis of DNA.
- (3) Separation of proteins by SDS-Polyacrylamide gel.
- (4) PTC test, to analyze Mendelian inheritance and study Hardy-Weinberg Law





### 35. Linux and FOSS



### REPORT

Acharya Narendra Dev College is a pioneer within the University in exclusive use of Linux Operating System and other Free & Open Source Software (FOSS) on its PCs. It adopted FOSS in the year 2007 to provide great learning and sharing opportunities to its students. Under this initiative Department of Computer Science of the college organizes an Introductory workshop every year to welcome freshers into the world of FOSS. It is mandatory for all the freshers of the

thirteen courses, that college offers, to attend the workshop whether they have taken computer science course or not, as Linux is the only operating system available on its laptop and desktop machines unless other proprietary software is dictated by the syllabus. This year too a four day workshop was organized from 16<sup>th</sup> Sept., 2019 to 19<sup>th</sup> Sept., 2019 to familiarize the incumbents of various courses with FOSS concepts. Senior students of B.Sc. (H) Computer Science and B.Sc. Physical Science (Computer Science) were roped in as volunteers for the workshop. They are the ideal candidate for this purpose as they attended this workshop as freshers and then they have been extensively trained through the year on various Linux platforms. Each session was divided into three parts. The first part covered introduction to FOSS and salient features of Linux operating system including why it comes under the category of open source software. Second part

gave a contrast between Linux & Windows operating system. And third part introduced Libre Office which included LibreOffice Writer for writing text, LibreOffice Calc for working on spread sheets and LibreOffice Impress for preparing presentations. To impart functional knowledge a practice session was also given to the students. The workshop was a great success. Most of the students of each course could attend it and it turned out to be a great learning experience for all the participants as well as volunteers. The enthusiasm and passion of the new students and volunteers was commendable all through the workshop. Participants were interactive and showed keen interest in the hands-on sessions of the workshop.



# ACHARYA NARENDRA DEV COLLEGE

University of Delhi

presents a workshop on

## Unravel the Microbial World

Take your microscope along

September 9, 2019

Under the aegis of DBT Star College Scheme

*Presided by*

**Dr Anupama Harshal**

K.C. College, Mumbai

Indo-US Foldscope Awardee



**Time –1:00 p.m. to 5:00 pm**

**Venue: Seminar Hall**

**Organized by**

**Department of Zoology**



## Report

A workshop on 'Foldscope' was organized in the college for the students of Botany and Life Science on September 9, 2019. Dr Anupama Harshal from K. C. College, Bombay was the resource person. 20 students of Botany (H) and 24 students from B.Sc. Life Science attended the workshop.

In this workshop on Unravel the Microbial world by Foldscope by Dr. Anupama Harshal discussed the use of Foldscope in microbiology and demonstrated how to assemble and use the microscope. Foldscope can be assembled by folding a single sheet of paper, and can magnify samples up to 140x. Foldscope is an innovative tool that can be used to explore the microbial world and has many potential applications in education, public health, and scientific research. Participants got the opportunity to observe microorganisms in different samples, such as water and learn about the importance of studying microbes in various fields of science. The workshop may have aimed to inspire participants to continue exploring the microscopic world around us and to promote the use of Foldscope in research and education.



### 37. Workshop: Arduino MASTERCLASS

**Faculty Advisor (ANDC SPIE Student Chapter):** Prof. AmitGarg

**Event Convenor (DBT STAR Coordinator):**Dr.RavneetKaur

#### SPIE ANDC Office Bearers

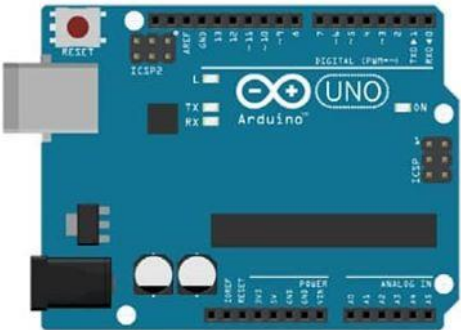
President	Prince Sharma
Vice President	MallikaYadav
Secretary	Avinash Kumar
Treasurer	GauravLokhna

#### Other Student Coordinators:

Aqil Ali B.Sc.(H) Electronics (VISEm)

ACHARYA NARENDRA DEV COLLEGE

**SPIE. STUDENT CHAPTER**  
Univ. of Delhi Acharya Narendra Dev College




&

**DEPARTMENT OF ELECTRONICS**  
(Under the aegis of DBT Star College Program)

in association with

**Elecbits**  
PRESENTS



Register Here  
[bit.ly/arduinospie](http://bit.ly/arduinospie)

**ARDUINO MASTERCLASS**

- Introduction to Arduino
- Build an Arduino Instant Messenger
- Build your own Weather Station
- Build your own Disco Light
- Build an Ultrasonic Radar

\*Bring your own laptop and charger.

1 PM Onwards,  
Saturday, 7<sup>th</sup> September

Seminar Hall, Acharya Narendra  
Dev College, Govindpuri Kalkaji,  
New Delhi-110019

Prince Sharma 7678228684  
[princesharma2899@gmail.com](mailto:princesharma2899@gmail.com)  
(President, SPIE Student Chapter ANDC)

PS: It will be a Hands on Workshop

Aqil Ali (9161684719)  
[elecbits.in](http://elecbits.in) | [classroom.elecbits.in](http://classroom.elecbits.in)

#### Report

A hands-on workshop on 'Arduino' was organized on September 7, 2019 by Department of Electronics under the aegis of DBT Star College scheme and in collaboration with ANDC SPIE Student chapter to familiarise the students with programming and designing of systems using arduino. The basic purpose of the workshop was to give a general overview about the basics of programming with Arduino, building an Arduino Instant Messenger and implement simple automated systems such as weather station, disco light and ultrasonic radar. The event witnessed great enthusiasm and curiosity amongst the participants. Students came up with their own ideas and tried to realise it. It was attended by over 100 students of various departments.



38. Surface Plasmon Resonance (SPR) and UV-Visible Spectroscopy: Basic working principle and Environmental Applications



**ACHARYA NARENDRA DEV COLLEGE**

(University of Delhi)

Grade "A" by NAAC | DBT Star College

**Inter-College hands-on workshop on  
Surface Plasmon Resonance (SPR) and UV-Visible Spectroscopy:  
Basic working principle and Environmental Applications**

Organized by Departments of Physics & Botany  
under the aegis of DBT Star College Scheme



**23 - 27**

**August 2019**

**Venue: Physics Laboratory - III**

**Time: 9.30 a.m. onwards**

**Patron**

**Dr. Ravi Toteja**

**Convenors**

**Dr. Arijit Chowdhuri**

**Dr. Charu Khosla Gupta**

**Coordinators**

Department of Physics

**Dr. V. Bhasker Raj**

**Dr. Sanjay Kumar**

Details - <http://andcollege.du.ac.in/>

Department of Botany

**Dr. Anupama Shukla**

**Dr. Yash Mangla**

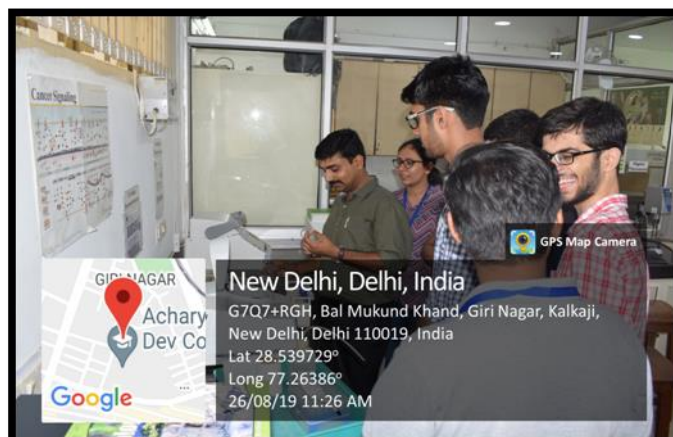


## Report

Surface Plasmon Resonance (SPR) is a powerful optical technique that is widely used in various fields, including biosensors, drug discovery, and materials science. SPR is based on the interaction between an electromagnetic field and the oscillation of electrons at the interface between a metal and a dielectric material. One of the main applications of SPR is in biosensing. SPR biosensors are used to detect and quantify biomolecules, such as proteins, DNA, and cells, in real-time and label-free. SPR biosensors can provide highly sensitive and specific detection of biomolecules, and they have been widely used in various fields, such as medical diagnosis, drug discovery, and food safety. Another application of SPR is in the study of material properties. SPR can be used to investigate the optical and electronic properties of thin films, nanoparticles, and other nanostructures. SPR can provide information about the refractive index, thickness, and composition of the materials, as well as their interaction with the surrounding environment. Furthermore, SPR has been used in the development of plasmonic devices, such as plasmonic waveguides, filters, and modulators. Plasmonic devices can manipulate the light at the nanoscale, leading to potential applications in photonics, data storage, and optical computing. In summary, SPR is a versatile and powerful technique that has a wide range of applications in biosensing, materials science, and photonics. The development of SPR-based technologies is expected to continue to advance these fields and enable new applications in the future.

UV-Visible spectroscopy is a widely used technique in chemistry, biochemistry, and materials science for the analysis of molecules and materials. UV-Visible spectroscopy measures the absorption of light in the UV and visible regions of the electromagnetic spectrum, which provides information about the electronic structure and properties of the samples. One of the main applications of UV-Visible spectroscopy is in the determination of concentration and purity of samples. UV-Visible spectroscopy can be used to quantify the amount of a substance in a sample based on its absorbance at a specific wavelength. This method is commonly used in pharmaceutical and biotech industries to monitor the concentration of active ingredients and impurities in drugs and biologics. UV-Visible spectroscopy is also widely used in the study of chemical reactions and kinetics. The absorbance changes of a reactant or product over time can be monitored using UV-Visible spectroscopy, which provides information about the rate and mechanism of the reaction. In addition, UV-Visible spectroscopy is a valuable tool for the characterization of materials, such as pigments, dyes, and polymers. The absorption spectra of these materials can provide information about their electronic and optical properties, such as the color, stability, and reactivity. Furthermore, UV-Visible spectroscopy is used in the study of biological molecules, such as proteins, nucleic acids, and enzymes. The absorption spectra of these molecules can provide information about their structure, conformation, and interactions. In summary, UV-Visible spectroscopy is a versatile and widely used technique that has a broad range of applications in chemistry, biochemistry, and materials science. The development of new

methods and instrumentation is expected to further expand the applications of UV-Visible spectroscopy in the future.



### 39. SPIE ANDC Student Chapter (Workshop): Optical Color Mixing

**Faculty Advisor (ANDC SPIE Student Chapter):** Prof. Amit Garg

**Event Convenor (DBT STAR Coordinator):** Dr. Ravneet Kaur

#### SPIE ANDC Office Bearers

President	Prince Sharma
Vice President	MallikaYadav
Secretary	Avinash Kumar
Treasurer	GauravLokhna

#### Other Student Coordinators:

HardikMinocha B.Sc.(H) Electronics (VSem)





## Report

Optical Color Mixing Workshop cum introductory session was organized to give newly joined members of the SPIE society an idea about the recent trends and development in the field of 'Optics'. A team of SPIE student members led by Mr. HardikMinocha, gave theoretical explanation of Colors and emphasized on the difference between Optical and Pigment Colors. Students were given the practical overview of how Red, Green and Blue are mixed together to generate different colors. It was attended by 110 students of various departments.

<https://www.andcollege.edu.ac.in/beyondtheclassroom/spie>

[https://www.andcollege.edu.ac.in/uploads/annualreports/ar\\_2019\\_wdCover.pdf](https://www.andcollege.edu.ac.in/uploads/annualreports/ar_2019_wdCover.pdf)

<https://www.andcollege.edu.ac.in/uploads/spie-reports/SPIE-2019.pdf>

Links for more information on of student members and activities:

**Email:** [andcspie8@gmail.com](mailto:andcspie8@gmail.com)

**Website:** <https://www.spieandc.org/>

**Facebook page:** <https://m.facebook.com/spieandc/>

**Instagram page:** [https://www.instagram.com/spie\\_andc/](https://www.instagram.com/spie_andc/)

**YouTube channel:** <https://www.youtube.com/@SPIEANDC>

**LinkedIn** **page:** <https://www.linkedin.com/company/spie-andc/>

## 40. Optics Education Outreach Programme 2020

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### Optics Education Outreach Programme 2020

**Date/Location:** June 15-30, 2020, Online mode Google Meet

**Participants:** School students

Like every year, this year also our chapter performed an outreach activity with school students to promote optics at school level. As due to COVID-19 global pandemic almost all schools have opted for online mode of teaching, in this outreach activity a new pedagogical technique was introduced to teach optics to 6-12 standard students via online mode of teaching. This activity introduced participating students to some optical phenomena through specially made videos by chapter members. Students did not have any access to laboratory materials to perform any practical activity. Considering this, all the activities were designed so they could perform them easily at their own homes. All selected activities introduced the practical aspect of the concepts illustrated in the videos. Some of the activities are written below:

1. Hollow Prism
2. The Broken Pencil
3. Pinhole Camera

## 41. Workshop: NI LabVIEW Online Basic Training

**Faculty Advisor (ANDC SPIE Student Chapter):** Prof. Amit Garg

**Event Convenor (DBT STAR Coordinator):** Dr. Ravneet Kaur

### SPIE ANDC Office Bearers

President	Prince Sharma
Vice President	Mallika Yadav
Secretary	Avinash Kumar
Treasurer	Gaurav Lokhna

**Resource Person:** Mr. Devender Dhawan, the founder of 'Touch TECHNO'



**Acharya Narendra Dev College**  
Department of Electronics  
under DBT STAR College scheme & SPIE Student Chapter ANDC



**SPIE. STUDENT CHAPTER**  
UNIVERSITY OF DELHI AT ACHARYA NARENDRA DEV COLLEGE

presents

## NI LabVIEW Online Basic Training



**NATIONAL INSTRUMENTS™  
LabVIEW™**

Industry Partner:  Touch **TECHNO**      Media Partner: 

**Duration:** 5 Days, 1 Hour session everyday  
**Dates:** 23rd - 27th June, 2020  
**Time:** 3.30 PM to 4.30 PM  
**Tool:** Google Meet  
**Fees:** Rs 300/- Non ANDC student  
Rs 100/- ANDC students  
Free- ANDC SPIE members

**Limited seats Available**  
**!!Register Now!!**  
Scan to register



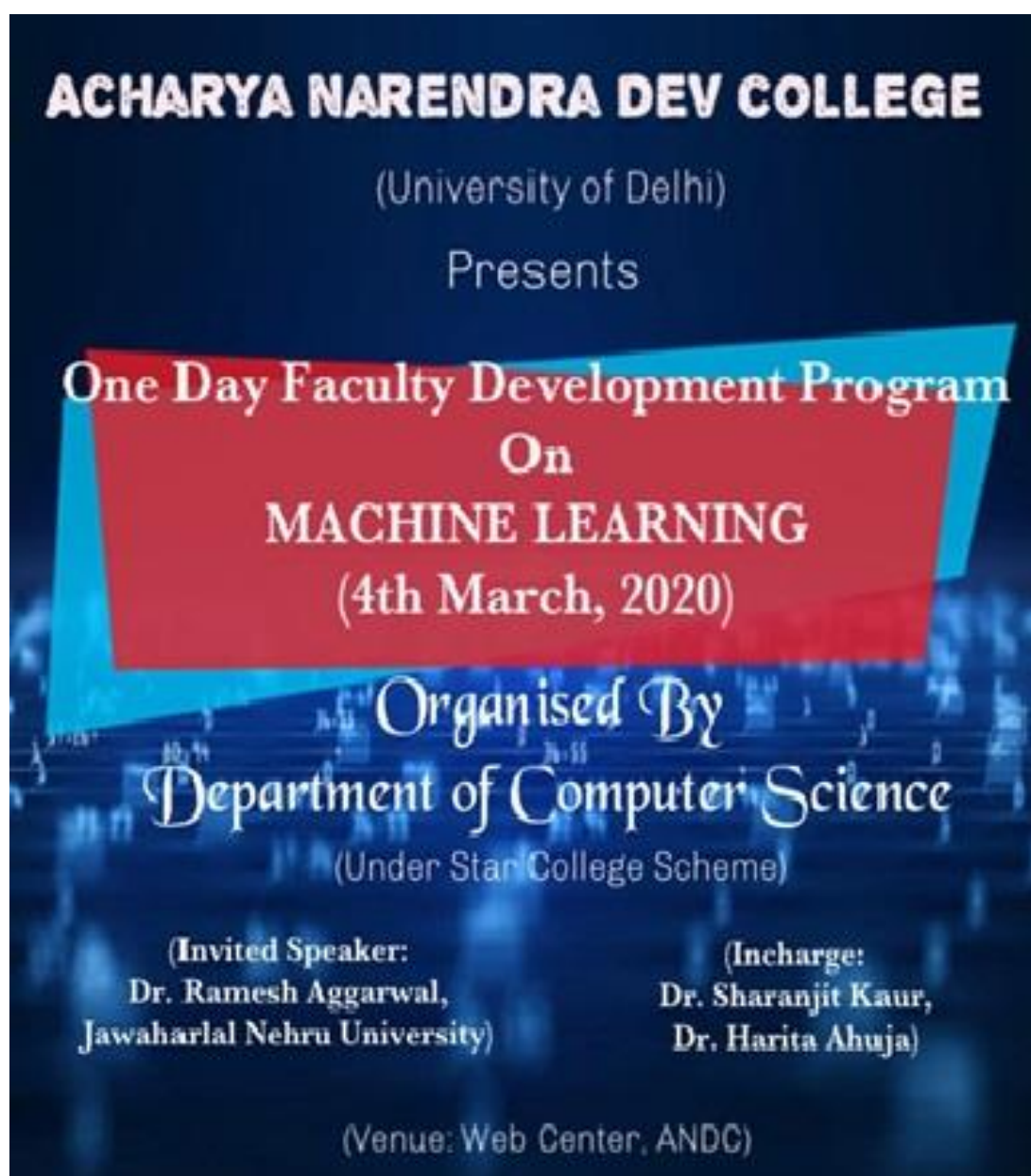
**Co-ordinators**  
Dr. Amit Garg (Faculty Advisor)  
Dr. Ravneet Kaur

**Student-Cordinator**  
Phulender (Treasurer-SPIE)  
Contact: 8295462594



**Report**

Department of Electronics under the aegis of DBT Star College scheme and in collaboration with ANDC SPIE Student chapter and industry partner 'Touch Techno Pvt Ltd', organised a five day hands-on workshop in the online mode on 'NI LabVIEW' to familiarise the students with virtual instrumentation using NI LabVIEW from June 23-27, 2020. 67 students from I, II and III year of B.Sc. (H) Electronics participated in the event.



## REPORT

Department of Computer Science of the Acharya Narendra Dev College under DBT Star Scheme organized a one day workshop on the topic of “Machine Learning ” on 4<sup>th</sup> March 2020. The Talk was convened by Dr. Sharanjit Kaur and Dr. Harita Ahuja. It was attended by all the students and faculty of the computer science department. We had (Prof.) Dr. Ramesh Aggarwal as our eminent guest speaker. He is working as a Professor in Jawahar Lal Nehru Univeristy . He had started the session with a talk on Machine learning, an application of Artificial Intelligence (AI). It provides systems the ability to automatically learn and improve from experience without being explicitly programmed. It focuses on the development of computer programs that can access data and use it to learn for themselves. He also discussed the applications and types of Learning. There are various types of Learning e.g. supervised, unsupervised, Reinforcement Learning, etc.

At the end, Dr. Sharanjit Kaur delivered a vote of thanks to Speaker and concluded the session. All Participants were interactive and shown keen interest in the topic of the talk. They were provided with the certificates after the successful completion of the workshop.

### 43. Robo Race (Robotics Workshop)

**Faculty Advisor (ANDC SPIE Student Chapter):** Prof. AmitGarg

**Event Convenor (DBT STAR Coordinator):**Dr.RavneetKaur

#### SPIE ANDC Office Bearers

President	Prince Sharma
Vice President	MallikaYadav
Secretary	Avinash Kumar
Treasurer	GauravLokhna

#### Other Student Coordinators

YashVarshney	B.Sc. (H) Electronics (IVSem)
AmanTyagi	B.Sc. (H) Electronics (IVSem)



**Acharya Narendra Dev College**  
UNIVERSITY OF DELHI

**ELECTROBLITZZ**

UNDER THE AEGIS OF DBT STAR COLLEGE SCHEME AND IN COLLABORATION WITH SPIE STUDENT CHAPTER ANDC PRESENTS

11:00 AM - 1:00 PM  
REGISTRATION FEES RS. 150  
VENUE: CONFERENCE HALL

**3RD MARCH**

COORDINATORS:  
YASH VARSHNEY (9354984933)  
AMAN TYAGI (7011433407)

Head in the game. Learn in the game

WIN AND EARN EXCITING PRIZES

**ROBO RACE**





## **Report**

‘Electronika’ society of the department in collaboration with the SPIE Student Chapter ANDC and DBT STAR College scheme organised its annual departmental fest ‘Electroblitzzz’ (3<sup>rd</sup> March to 4<sup>th</sup> March, 2020). Major highlight of fest was ‘Robo Race’, robotics workshop and competition which was organised on 3<sup>rd</sup> March (day 1 of the fest). Students from different colleges participated in the event. 45 students from I, II and III year of B.Sc. (H) Electronics participated in the event.

There were in total 10 teams, with two students in each team. Each team was provided with a kit containing basic hardware modules required to build a robot. Each of the participating team was asked to assemble the components to build a robotic vehicle. Robotic vehicle was programmed to enable its forward, backward and sideways movement. A fun-filled racing competition was then organised between the robotic vehicles assembled and programmed by participating teams.

## 44. Raspberry Pi Workshop

**Faculty Advisor (ANDC SPIE Student Chapter):** Prof. AmitGarg

**Event Convenor (DBT STAR Coordinator):**Dr.RavneetKaur

### SPIE ANDC Office Bearers & Student Coordinators

President	Prince Sharma
Vice President	MallikaYadav
Secretary	Avinash Kumar
Treasurer	GauravLokhna



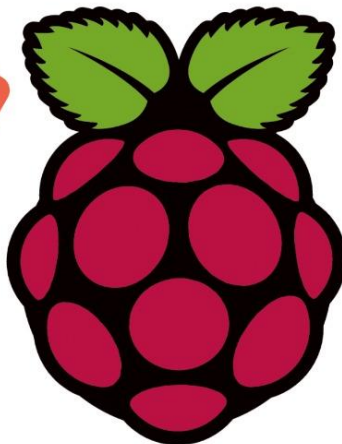
ACHARYA NARENDRA DEV COLLEGE

**SPIE. STUDENT  
CHAPTER**  
UNIVERSITY OF  
DELHI AT ACHARYA  
NARENDRA DEV  
COLLEGE

**ELECTROBLITZZ**

**The Electronics Society**

Under the aegis of DBT Star College Scheme  
and in collaboration with SPIE Student Chapter ANDC  
**PRESENTS**



*3rd March*

**1:00 PM - 5 PM**

# RASPBERRY PI WORKSHOP

## TOPICS TO BE COVERED

SSH CONNECTION - PUTTY, VNC VIEWER, LED BLINKING, WORKING  
WITH DC MOTOR, FACE RECOGNITION WITH RASPBERRY PI CAMERA

### FOR QUERIES

Prince Sharma  
PRESIDENT, SPIE STUDENT CHAPTER ANDC  
(767) 82 28 684  
[princesharma2899@gmail.com](mailto:princesharma2899@gmail.com)



[bit.ly/raspiconfig](https://bit.ly/raspiconfig)

## **Report**

'Electronika' society of the department in collaboration with the SPIE Student Chapter ANDC and DBT STAR College scheme organised its annual departmental fest 'Electroblitzz' (March 3-4, 2020). One of the major events was 'Raspberry Pi' workshop which was organised on 3<sup>rd</sup> March (day 1 of the fest). The main purpose of the workshop was to give a general overview about raspberry Pi and also provide hands-on training in designing a simple automation system using raspberry Pi. The workshop was attended with great enthusiasm by students of various departments of the college. The students were able to learn how to use PuTTY (*SSH* and telnet client protocol for windows) and implement simple application such as face recognition by image processing. 41 students from I, II and III year of B.Sc. (H) Electronics participated in the event.



## 45. IOT and Connectivity Solution

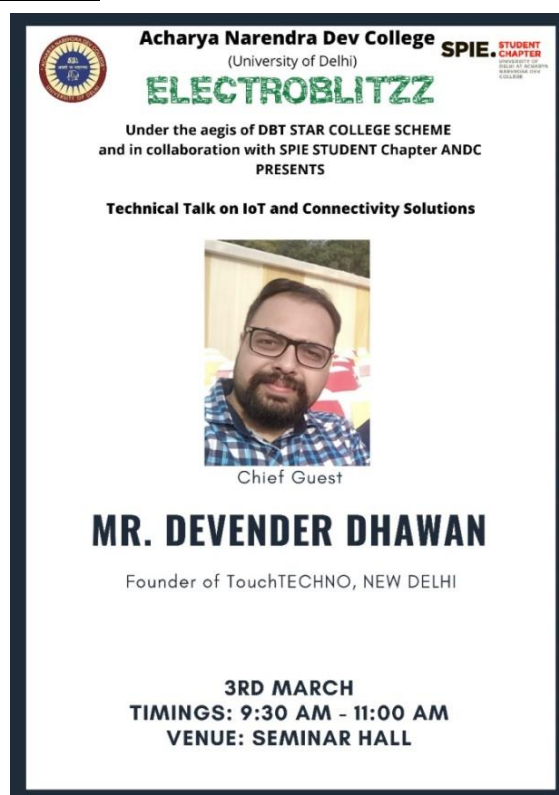
**Faculty Advisor (ANDC SPIE Student Chapter):** Prof. Amit Garg

**Event Convenor (DBT STAR Coordinator):** Dr. Ravneet Kaur

**Resource Person:** Mr. Devender Dhawan, the founder of 'Touch TECHNO' Pvt. Ltd

### SPIE ANDC Office Bearers & Student Coordinators


President	Prince Sharma
Vice President	Mallika Yadav
Secretary	Avinash Kumar
Treasurer	Gaurav Lokhna





### Report

Department of Electronics in collaboration with the SPIE Student Chapter ANDC and DBT STAR College scheme organised an invited lecture talk on March 3, 2020. The talk was organised as an inaugural event in annual departmental fest 'Electroblitzz. Mr. Devender Dhawan, the founder of 'TouchTECHNO' and alumni of the college graced the occasion and delivered a very enlightening talk on 'IOT and Connectivity Solution'.

He discussed in detail about the recent trends in IOT technology and present challenges with respect to reliable wireless connectivity solutions. The talk was very useful and interactive and generated great interest amongst students in IOT Technology. 79 students from I, II and III year of B.Sc. (H) Electronics participated in the event.

 **Department of Zoology**  
**Acharya Narendra Dev College**  
&  
**Deen Dayal Upadhyaya College**  
**(University of Delhi)**  
under the aegis of

  
  
Science Foundation & DBT Star College Program

Organize a Workshop on

**“TECHNIQUES IN MOLECULAR MICROBIOLOGY”**

for undergraduate students of biological sciences  
On February 25, 2020

**Typhoid Diagnostics**  
(Dr. Chandresh Sharma, THSTI)

**Lecture**

**In-vitro gene amplification**

**Hands-on work stations**

**Culturing of Microbes**




**Identification & Estimation of Proteins**

**Microbial Staining Techniques**

**Experimental Sessions**

**Talk**

**Innovations in Diagnostics**  
(Dr. Tarun Kumar Sharma, THSTI)



## **Report**

Workshop on “Techniques in Molecular Microbiology” A one-day inter-college workshop on “Techniques in Molecular Microbiology” was jointly organized by Department of Zoology of Deen Dayal Upadhyaya College & Acharya Narendra Dev College (University of Delhi) under the aegis of Science Foundation & DBT Star College Program on 25th February, 2020 for undergraduate students of biological sciences. The workshop was attended by the following 35 students of B. Sc. (Hons.) Zoology, B. Sc.(P) Life Sciences and others from different colleges of Delhi & outside.

### **LIST OF EXPERIMENTS COVERED DURING THE WORKSHOP:**

1. To amplify the small subunit ribosomal RNA (18S rRNA) gene using gene-specific primers by polymerase chain reaction (PCR).
2. To Perform Agarose Gel Electrophoresis of DNA
3. Separation of proteins by SDS-Polyacrylamide Gel Electrophoresis
4. Collection of ciliates from freshwater and soil samples
5. Culturing of ciliates
6. Identification of ciliates by live cell observation and various staining methods

### **LIST OF LECTURES COVERED DURING THE TRAINING PROGRAM:**

1. Polymerase Chain Reaction for in-vitro amplification of genes
2. Sodium Dodecyl Sulphate Polyacrylamide Gel Electrophoresis – A technique for protein separation
3. Agarose Gel Electrophoresis

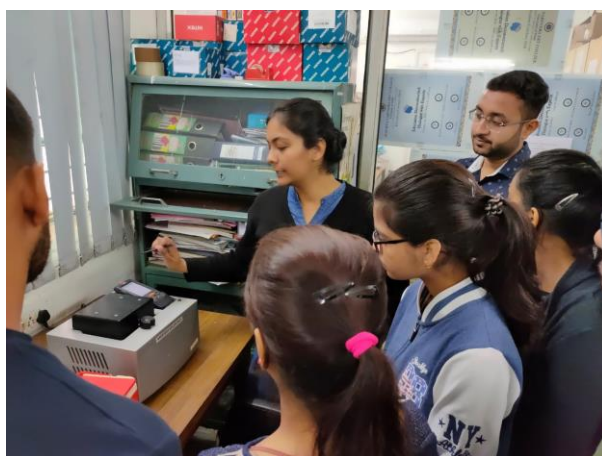
### **INVITED TALKS**

1. “Typhoid Diagnostics” by Dr. Chandresh Sharma, Translational Health Science & Technology Institute (THSTI), Faridabad
2. “Innovations in Diagnostics” by Dr. Tarun Sharma, Translational Health Science & Technology Institute (THSTI), Faridabad

The workshop was organized in Lab2 and 3 of the Department of Zoology of Acharya Narendra Dev College. The workshop commenced at 9:30 A.M. with the introductory remarks by Dr. Ravi Toteja, Principal, Acharya Narendra Dev College who apprised students of the various activities being conducted in the college under the DBT Star College Scheme. He also emphasized how this collaborative workshop will be useful from the student perspective as they get to exchange scientific talk with their peers in different colleges and how the workshop will be useful in enhancing their skills in molecular microbiology. Such hands-on workshops and lectures by eminent scientists who are contributing immensely in the field of scientific innovations inculcate



a sense of understanding in the student minds which in turns plays a crucial role in making informed decisions in opting science as a career. Dr. Anita Gulati interacted with the students and asked them to share their experiences of the workshop. Feedback form was filled by all students. A student representative from each college shared their views about the workshop. Students appreciated the efforts of the organizers and resource persons. They said this workshop was a good opportunity for them to perform the experiments on their own which had been demonstrated to them or they studied in their textbooks only. Some of the students found the workshop beneficial as they want to pursue their career in life sciences. Dr. Seema Makhija gave vote of thanks to all the resource persons, research scholars and supporting staff. After that Dr. Ravi Toteja, Principal, Acharya Narendra Dev College distributed certificates to the participants, resource persons, organizers and supporting staff. At last, a group photograph was taken.

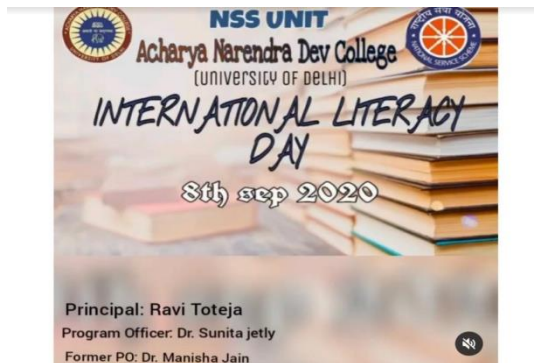




## 47. International Literacy Day

### Report

Various activities like video and poster making competitions were performed on International Literacy Day (September 08, 2020) to observe the significance of education and literacy in the life of each individual.





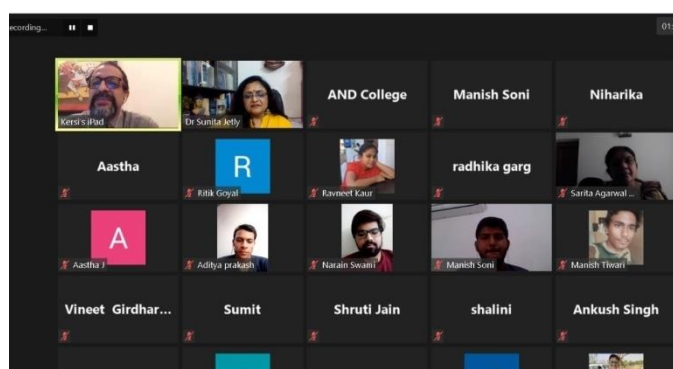
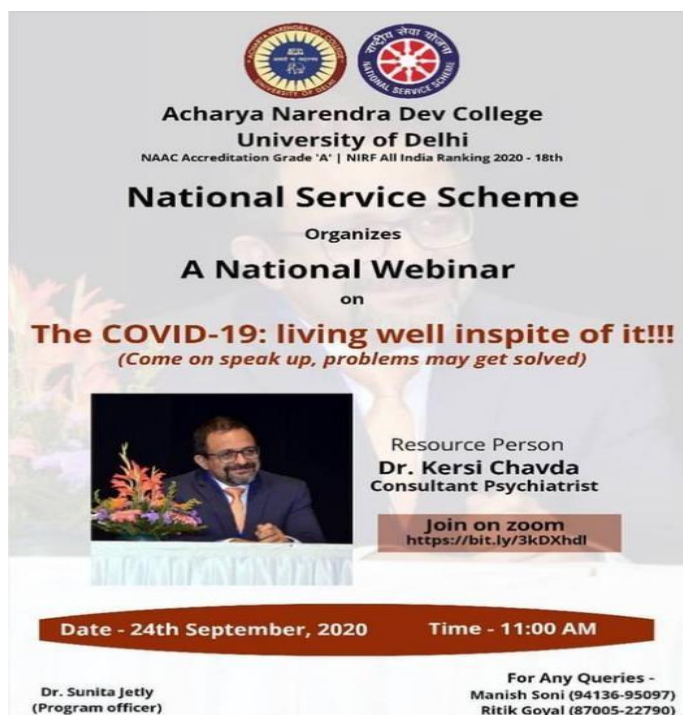
## 48. World Ozone Day



### Report

A digital Poster Competition was organized by team NSS on the occasion of World Ozone Day on September 16, 2020 with the motive to enlighten all about the importance of ozone layer for all the humans.

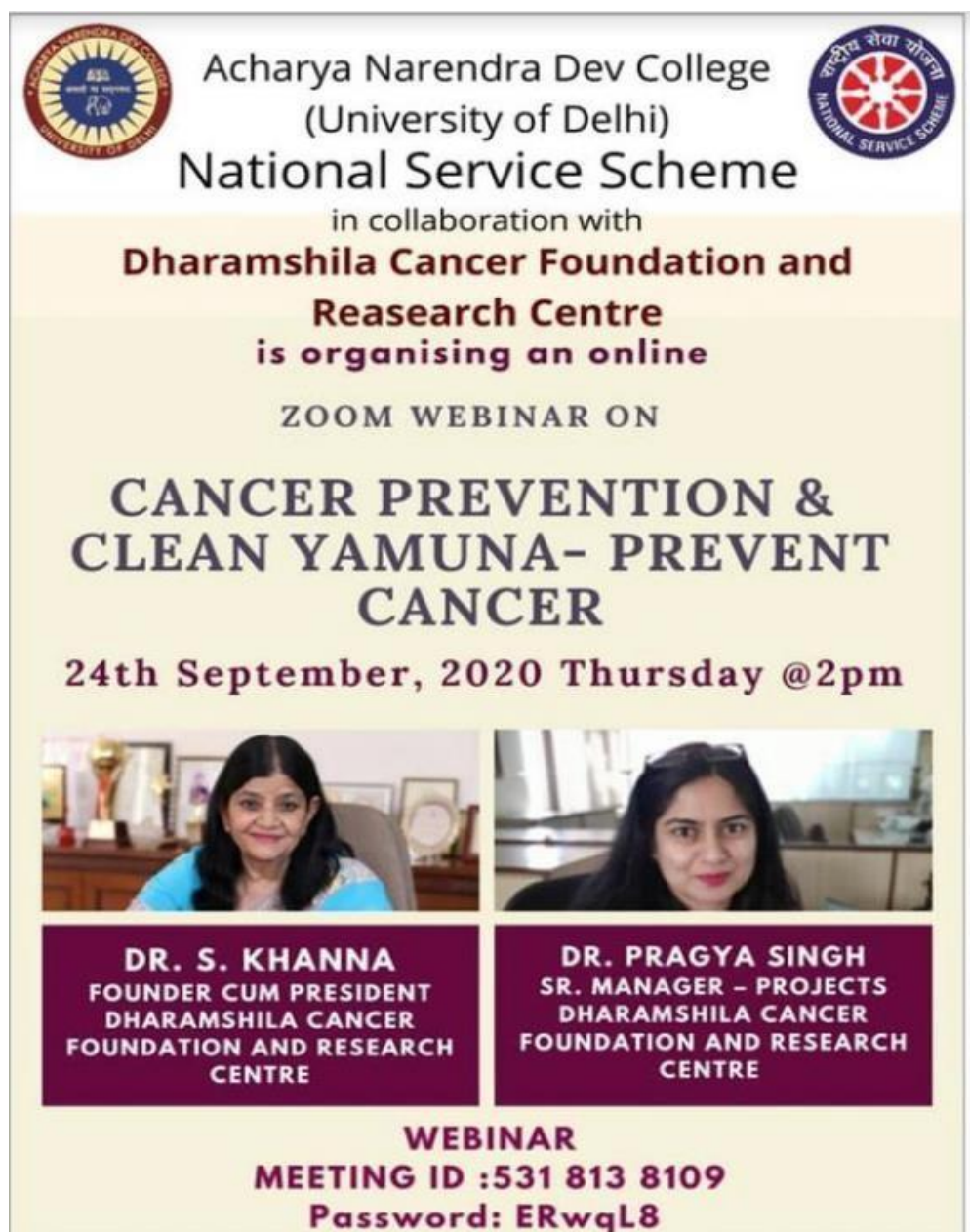
## 49. COVID: Living well inspite of it



### Report

On September 24, 2020, the 51<sup>st</sup> NSS Day started with a webinar by an eminent Consultant Psychologist Dr Kersi Chavda, who suggested interesting measures to cope with the anxiety, stress and depressions that have seeped into students due to COVID -19 and the lockdown in the wake of the pandemic. This was followed by the Cancer Prevention and Clean Yamuna webinar presided over by Dr S Khanna, President of Dharamshila Foundation and Dr Pragya Singh, Senior Manager at Dharamshila Cancer Foundation and Research Centre.

## 50. Clean Yamuna Prevent Cancer



The poster is for a Zoom webinar titled "CANCER PREVENTION & CLEAN YAMUNA- PREVENT CANCER". It is organized by Acharya Narendra Dev College (University of Delhi) National Service Scheme in collaboration with Dharamshila Cancer Foundation and Research Centre. The event is scheduled for 24th September, 2020, Thursday at 2pm. The speakers are Dr. S. Khanna, Founder cum President of Dharamshila Cancer Foundation and Research Centre, and Dr. Pragya Singh, Sr. Manager - Projects at Dharamshila Cancer Foundation and Research Centre. The meeting ID is 531 813 8109 and the password is ERwqL8. The poster features the logos of Acharya Narendra Dev College and the National Service Scheme, along with photos of the two speakers.

**Acharya Narendra Dev College**  
(University of Delhi)  
**National Service Scheme**

in collaboration with  
**Dharamshila Cancer Foundation and  
Research Centre**  
is organising an online  
**ZOOM WEBINAR ON**

**CANCER PREVENTION &  
CLEAN YAMUNA- PREVENT  
CANCER**

**24th September, 2020 Thursday @2pm**

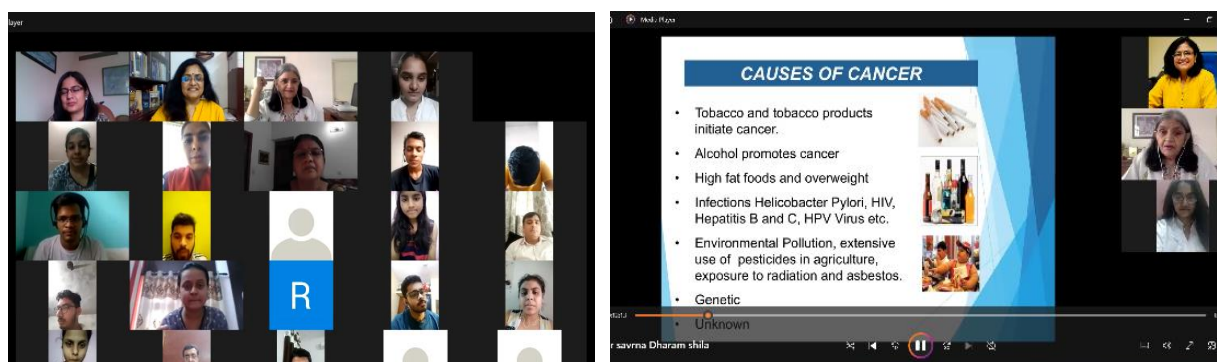
**DR. S. KHANNA**  
FOUNDER CUM PRESIDENT  
DHARAMSHILA CANCER  
FOUNDATION AND RESEARCH  
CENTRE

**DR. PRAGYA SINGH**  
SR. MANAGER - PROJECTS  
DHARAMSHILA CANCER  
FOUNDATION AND RESEARCH  
CENTRE

**WEBINAR**  
**MEETING ID :531 813 8109**  
**Password: ERwqL8**

### Report

On September 24, 2020, the 51<sup>st</sup> NSS Day started with a webinar by an eminent Consultant Psychologist Dr Kersi Chavda, who suggested interesting measures to cope with the anxiety, stress and depressions that have seeped into students due to COVID -19 and the lockdown in the wake of the pandemic . This was followed by the Cancer Prevention and Clean Yamuna webinar presided over by Dr S Khanna, President of Dharamshila Foundation and Dr Pragya Singh, Senior Manager at Dharamshila Cancer Foundation and Research Centre.





## 51. Talk on 'Your Kitchen is your health Tool'

**ACHARYA NARENDRA DEV COLLEGE**  
University of Delhi  
NAAC Accreditation Grade 'A' | NIRF - 2020 All India Ranking 18<sup>th</sup>  
National Service Scheme Unit @ ANDC  
organizes  
a Webinar on  
**"Your Kitchen is Your Health Tool"**

**October 7, 2020**  
**Time: 4:30 P.M.**  
Meeting ID : 890 5483 9469  
Passcode: 261463

**Dr Sheenu Sanjeev**  
Clinical Nutritionist  
Director and founder of  
Healthyfy Health and  
Education Institute &  
Research Council

**Dr Sunita Jetly**  
(Program officer)

**Dr Ravi Toteja**  
(Officiating Principal)

**NSS UNIT, ANDC**  
Follow us on :  
f i

### Report

Dr Sunita Jetly as convenor of NSS organised a talk on 'Your Kitchen is your health Tool' by Dr Sheenu Sanjeev on 07 October, 2020.



## 52. 'Mera Sangharsh, Meri Jeet, Meri Kahani' talk by various cancer survivors

In Breast Cancer Awareness Month, a webinar was organised by UBA-NSS unit of the college on 'Mera Sangharsh, Meri Jeet, Meri Kahani' on October 23, 2020. The purpose of the webinar was to inform every woman of the college and all those who had participated that 'The Best Protection is Early Detection' and early the Detection, Longer is the Protection. The following Breast Cancer Viranis, shared their actual stories with the audience:-

- Prof. Daman Saluja, Director, Dr B. R. Ambedkar Centre for Biomedical Research
- Mrs Kanchan Singh, Former General Secretary, Bhartiya Grameen Mahila Sangh
- Dr Indu Rampal, Former Senior Lecturer at Amity Institute of Corporate Communication. It was followed by an interactive session with Dr Pawan Mehrotra (ANDC alumini-Department of Biomedical Science) Founder, Aarna Biomedical Products, Creator of Sampoorti-Poorti System for post surgical prosthetic rehabilitation for breast cancer survivors.

**ACHARYA NARENDRA DEV COLLEGE**  
UNIVERSITY OF DELHI  
NAAC Accredited Grade 'A' | NIRF - 2020 All India Ranking 18  
National Service Scheme Unit @ANDC  
PRESENTS

**"Cancer Survivors share their Journey"**  
**October 23, 2020 Friday @4:30pm**  
From every wound there is a scar, and every scar tells a story.  
A story that says 'I Survived'.  
**Mera Sangharsh  
Meri Jeet  
Meri Kahani**

**"The Best Protection is Early Detection"**  
Early the detection, longer is the protection  
**Join us on Zoom:**  
<https://bit.ly/27xCnd0>  
Meeting ID: 815 4351 4615  
Passcode: 548972

**Follow us @anndc**  
Dr. Sunita Jaisly (Program Officer NSS) (Officiating Principal)  
Dr. Ravi Toteja (Coordinator UBA)  
Dr. Pooja Bhagat (Coordinator UBA)

**Speakers**

**Prof Daman Saluja**  
(Breast Cancer Virani)  
Director  
Dr. B.R. Ambedkar Center for  
Biomedical Research  
Joint Director  
Dr. B. R. Ambedkar School of public health

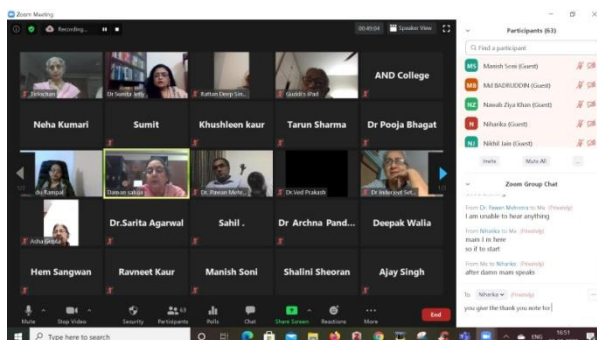
**Mrs. Kanchan Singh**  
(Breast Cancer Virani)  
Former general secretary of  
Bhartiya Grameen Mahila  
Sangh  
Chandigarh

**Dr Indu Rampal**  
(Breast Cancer Virani)  
Former Senior Lecturer at  
Amity Institute of Corporate  
Communication

**Dr Pawan Mehrotra**  
(ANDC Alumini -  
Department of Biomedical  
Science)  
Founder  
Aarna Biomedical Products  
Creator of Sampoorti-Poorti  
System for post surgical  
prosthetic rehabilitation for  
breast cancer survivors

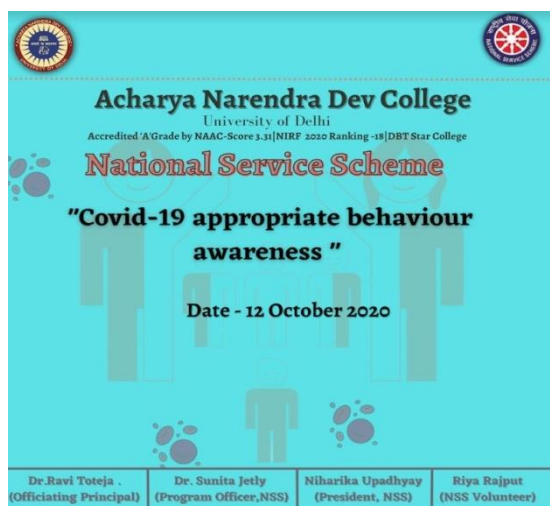
**PROGRAM SCHEDULE**  
Inauguration : 4:30 p.m.  
Talk by the panelists : 04:45 p.m - 05:30 p.m  
Interaction with the panelists : 05:30 p.m - 06:00 p.m

**Volunteers**  
Anindita Panda (NSS Volunteer)  
Rahul Bhardwaj (NSS Volunteer)  
Manish Soni (NSS Volunteer)



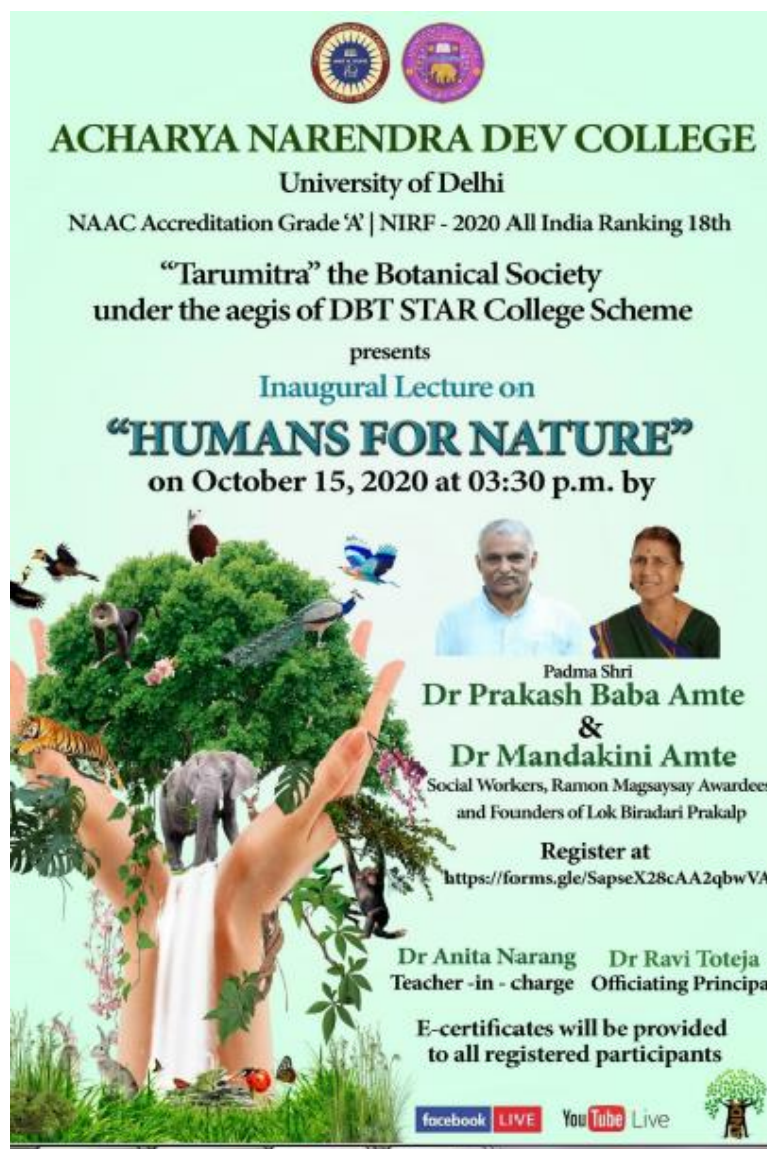
### 53. Covid appropriate behaviour awareness

During the second wave of the COVID-19 pandemic, intense activities and initiatives for combating and assisting people were undertaken by NSS@ANDC. NSS Volunteers worked round the clock to reach out to university staff members and other people in distress and tried to help them in every possible manner like development of Chat Bot system on What's App (What's App number 8114474101) by NSS volunteers to provide verified leads about COVID-19 resources and helped around 100 patients, tele-consultation with verified doctors, providing ration kits, organizing yoga series, plantation drives, project wellness to spread awareness on mental health issues like depression, loneliness, aggression, which arose due to the ongoing pandemic. 'Tika Utsav' was organized to spread awareness about the importance of vaccination.







#### 54. Inaugural Lecture of Tarumitra, the Botanical Society ‘Humans for Nature’




#### Report

Department of Botany organized webinar on ‘Humans for Nature’ on October 15, 2020 by Dr Prakash Baba Amte who is physician by profession and is associated with Lok Biradari Prakalp, Anandvan, Maharashtra (a project for the development of tribal people, the Madia Gond in the forests of Gadchiroli district). The talk was focused on balance between human life and nature and natural resources. He discussed various case studies of his own experiences how humans can live in harmony with the nature and wild life without modern amenities. He discussed his journey as a doctor and social worker in treating and eradicating leprosy in the tribal population of forests of Maharashtra, Andhra Pradesh and Madhya Pradesh. He even performed many emergency surgical procedures without electricity. He and his family also run a large animal conservation facility in Hemalkasa in Gadchiroli district of Maharashtra where rare, protected, and endangered animals are cared and have freedom to roam. It was a wonderful experience to the students and faculty to interact with such a dignitary.

## 55. Group Discussion on “Improving the quality of life of indian farmers”

 **Acharya Narendra Dev College**  
University Of Delhi  
NAAC Accreditation Grade 'A' | NIRF-2020 All India Ranking 18 

**National Service Scheme**  
presents  
**A GROUP DISCUSSION**  
ON THE OCCASION OF FARMER'S Day  
**How to Improve the Quality of Life of  
Indian Farmers**



**If You Ate Today, Thank A Farmer**  
December 23,2020 Wednesday@4Pm  
Join US On Meet: [gqr-rubh-hkk](https://meet.google.com/gqr-rubh-hkk)

**Dr. Ravi Toteja**  
(Officiating Principal)  
**Dr. Sunita Jetly**  
(Program officer)

**Miss. Niharika**  
(NSS Secretary)  
**Miss. Sakshi**  
(NSS Volunteer)

### Report

NSS unit of ANDC organised a Group Discussion on 23 rd December at 4 PM(Wednesday) through Google Meet Platform on the occasion of Farmer's Day with the Theme: How to improve quality life of Indian farmers ?

## 56. Vigilance Awareness Week

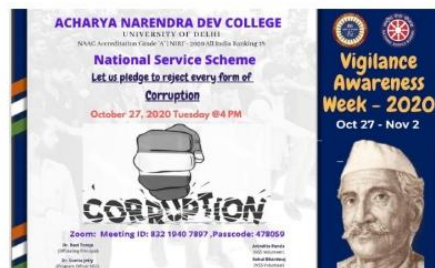
### Report

In the Vigilance Awareness Week from October 27 to November 02, 2020 with the theme of सतर्क भारत, समृद्ध भारत (Vigilant India, Prosperous India) in mind, various events were organized to emphasize the importance of integrity in public life and commitment to zero tolerance policy towards corruption.

Vigilance Week - Interactive Quiz on Anti Corruption and Gender Sensitization.

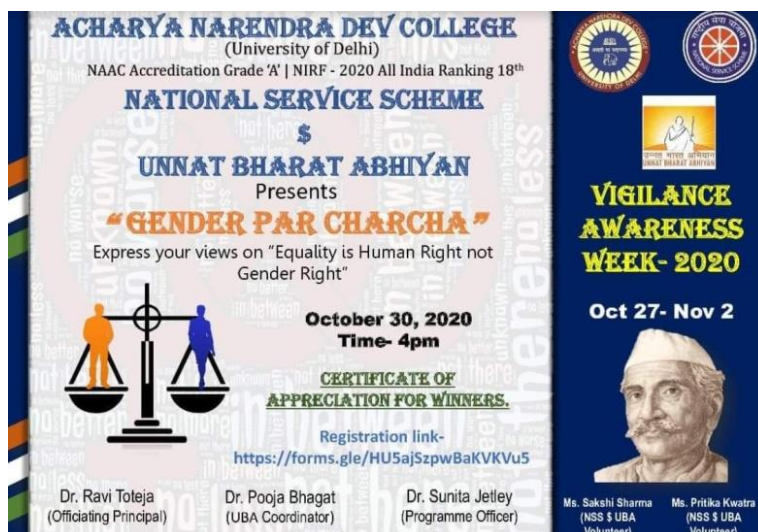
#### EVENT 1 : PLEDGE 27-10-2020

To mark the commencement of the Vigilance Awareness Week, pledge was taken to reject every form of corruption. The pledge ceremony was organized via zoom platform where Program Officer along with teachers in NSS@ANDC unit and NSS Volunteers participated.





## 57. Gender Par Charcha



### Report

In Vigilance Awareness Week-2020, a debate on ‘Gender Par Charcha’ was organised by the UBA-NSS unit of the college on October 30, 2020. Participants were allowed to express their views on ‘Equality is Human Right not Gender Right’. The idea was to record all the debates and to share the Hindi debates in village Whatsapp groups.

## 58. Cloth Collection Drive



### Report

NSS unit organized a cloth collection drive from 31<sup>st</sup> Dec,2020. NSS requested to contribute by donating relief material in the form of clothes, dry ration, blankets, covers, shoes ,socks etc. Staff and students enthusiastically contributed and the relief material will be distributed in slums identified by NSS members.

## 59. Road Safety Week





### Report

The theme for National Road Safety Week, January 01 to January 07, 2021 was Sadak Suraksha Jeevan Raksha. As road accidents are one of the leading causes of mortality and morbidity, road safety week was organized to re-iterate the importance of safe, sane and lane driving. Various activities like slogan writing, article writing and poster making competition, quiz etc. were organized in that week.



## 60. Plantation drives



**Acharya Narendra Dev College**  
University of Delhi  
Accredited 'A' Grade by NAAC-Score 3.31 | NIRF 2020 Ranking -19 | DBT Star College

**National Service Scheme**

**Plantation Drive on National Youth Day**

**Date - 12 January 2020**  
**Time - 10:00 AM**  
**Venue - Front lawn, ANDC**

Dr. Ravi Toteja . (Officiating Principal)	Dr. Sunita Jetly (Program Officer, NSS)	Niharika Upadhyay (President, NSS)	Riya Rajput (NSS Volunteer)
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### Report

Plantation drives were undertaken round the year especially on Youth Day, January 12, 2021. Since the whole country was in lockdown, NSS volunteers undertook such plantation drives in their homes, in their nearby parks and garden following the rules of wearing a mask and social distancing.

## 61. Radio Jockey Competition

**Acharya Narendra Dev College**  
University of Delhi

NAAC Accreditation Grade 'A' | NIRF-2020 All India Ranking 18

**National Service Scheme**  
Organizes  
**RADIO JOCKEY COMPETITION**  
ON THE OCCASION OF YOUTH'S DAY  
20 January, 2021@5PM

**TO PARTICIPATE**  
REGISTER ON GOOGLE FORM  
[https://docs.google.com/forms/d/e/1FAIpQL5e\\_tSH-YWC04QKaM9sJD3QwRnK2s578nMkK2d9K0o4Re021Pw/viewform?usp=pp\\_url](https://docs.google.com/forms/d/e/1FAIpQL5e_tSH-YWC04QKaM9sJD3QwRnK2s578nMkK2d9K0o4Re021Pw/viewform?usp=pp_url)

**Dr. Ravi Toteja**  
(Officiating Principal)  
**Dr. Sunita Jetly**  
(Program officer)

**Miss.Niharika**  
(Nss Secretary)  
**Miss.Sakshi**  
(Nss Volunteer)

**ACHARYA NARENDRA DEV COLLEGE**  
(University of Delhi)

**NATIONAL SERVICE SCHEME**  
**RADIO JOCKEY COMPETITION**  
**Results out**

Winner Teams- "Aniket and team & Vikalp and team"

Team members:

**Aniket's team**  
Aniket Sanchan, Sheena,  
Shreyashi Manchandana,  
Prince Bhardwaj

**Vikalp's team**  
Vikalp, Heena,  
Suyansh, Anjali

**CONGRATULATIONS!**  
For further queries, Contact:

Manish Soni  
(NSS President)  
9413695097

Niharika Upadhyay  
(NSS Secretary)  
7678207162

### Report

NSS unit organized Radio Jockey Competition on the occasion of Youth's Day on 20<sup>th</sup> January, 2021 at 5 p.m.

## 62. Taught underprivileged students of adopted village under project VIDIPSA



### Report

VID-IPSA was started on the 6<sup>th</sup> January, 2021. The aim of the project was to educate the underprivileged children, especially the girl child, living in slums. NSS Volunteers at ANDC took online as well as offline classes for the children of Okhla and Govind Puri slums for the entire month of January and February. Apart from teaching and problem-solving, sample papers and notes were provided to them for better understanding. A constant feedback was taken for impact assessment and improvisation.



### 63. Spread Awareness on the occasion of World Cancer Day



**ACHARYA NARENDRA DEV COLLEGE**  
University of Delhi  
**National Service Scheme**

**World Cancer Day**  
4TH FEBRUARY  
THE FINAL YEAR OF  
I am and I will.  
Together, all of our actions matter.

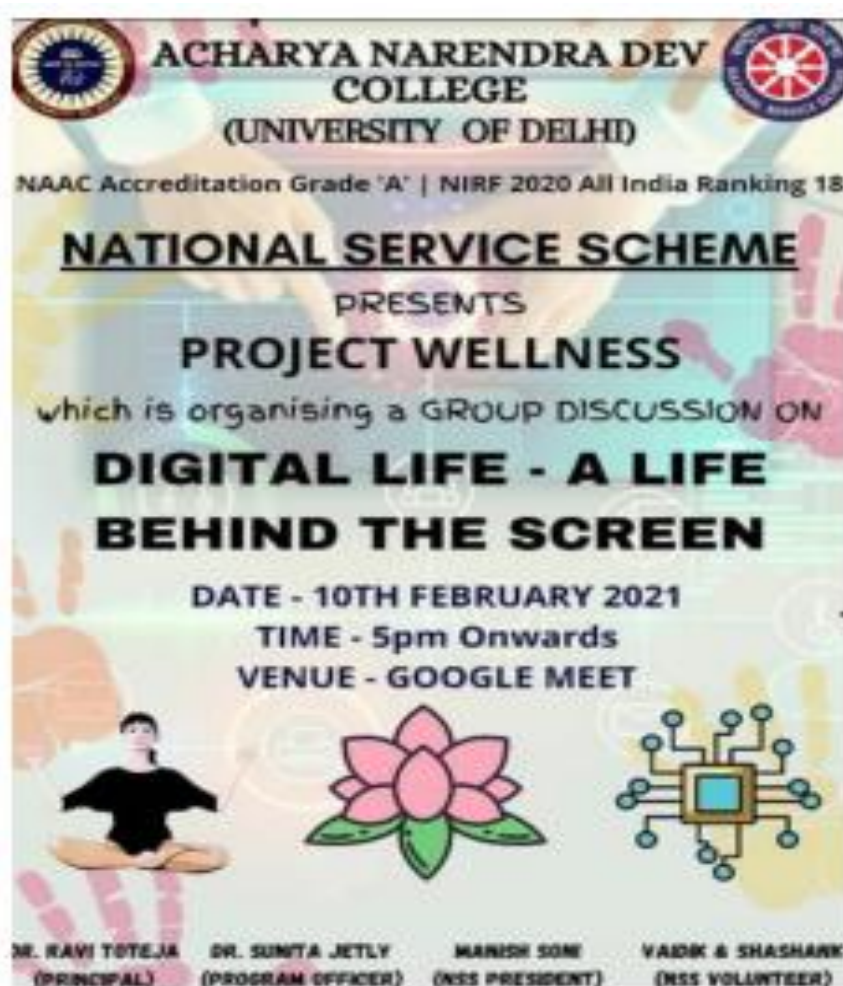
It's time to make a change, let's be  
aware. Know the symptoms and get  
checked up today!

Supporting the fighters,  
admiring the survivors,  
honouring the taken and  
never losing hope.

**Dr. Ravi Toteja**  
OFFICIATING PRINCIPAL  
**Dr. Sunita Jetly**  
PROGRAM OFFICER

**Manish Soni**  
PRESIDENT (NSS UNIT)  
**Priyanka Sharma**  
NSS VOLUNTEER

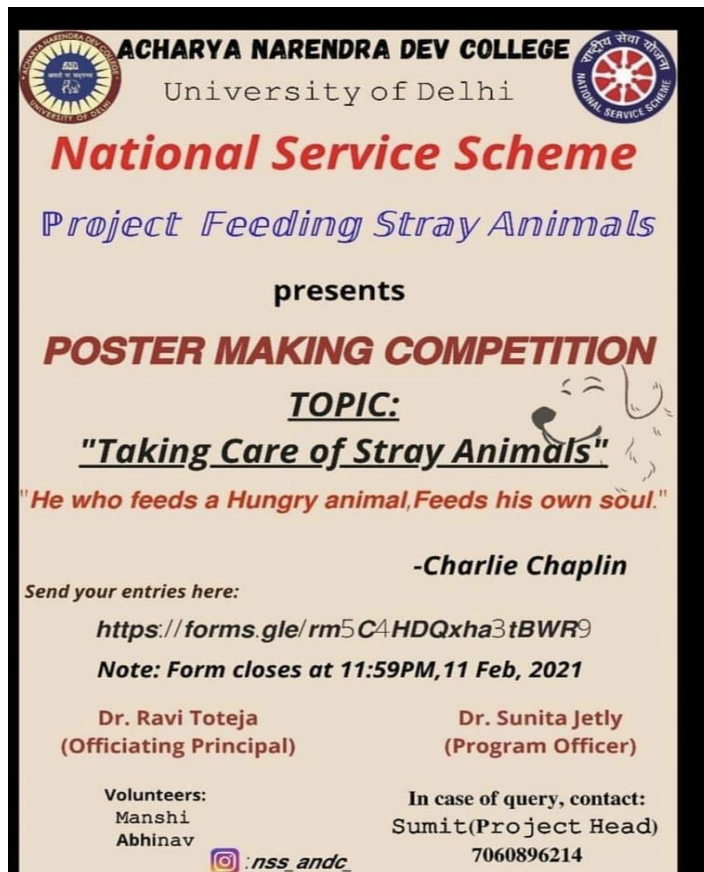
#### 64. Group Discussion on “Digital Life – A life behind the screen”



#### Report

NSS unit of ANDC organized a group discussion on the topic “Digital Life – A life behind the screen” under the Project Wellness in online mode on the google meet platform. As it was the time of covid that’s why the screen time of everyone has increased a lot. Volunteers discussed the pros and cons of the life with increased screen time.

**65. Poster making Competition on taking care of stray animals under Project Feeding Stray Animals**



The poster is for a poster-making competition organized by Acharya Narendra Dev College, University of Delhi, under the National Service Scheme (NSS). The theme is 'Project Feeding Stray Animals'. The competition topic is 'Taking Care of Stray Animals'. It includes a quote by Charlie Chaplin: 'He who feeds a Hungry animal, Feeds his own soul.' and a deadline of 11:59 PM on February 11, 2021. It also lists the officiating principal, program officer, volunteers, and contact information for queries.

**ACHARYA NARENDRA DEV COLLEGE**  
University of Delhi

**National Service Scheme**  
*Project Feeding Stray Animals*  
presents

**POSTER MAKING COMPETITION**  
**TOPIC:**  
**"Taking Care of Stray Animals"**

*"He who feeds a Hungry animal, Feeds his own soul."*  
-Charlie Chaplin


Send your entries here:  
<https://forms.gle/rm5C4HDQxha3tBWR9>  
**Note: Form closes at 11:59PM, 11 Feb, 2021**

Dr. Ravi Toteja  
(Officiating Principal)

Dr. Sunita Jetly  
(Program Officer)

Volunteers:  
Manshi  
Abhinav

In case of query, contact:  
Sumit (Project Head)  
7060896214

 :nss\_andc



## 66. Just-A-Minute Competition for Mental Health Awareness under Project Wellness



### Report

Project “WELLNESS” was initiated on the 11th of February 2021 with the aim of motivating students for practicing healthy habits daily and to attain better physical and mental health outcomes. This project gave chance to all the volunteer in residing in different states to remain connected and to contribute in NSS activities. Social Media handles were extensively used to spread the message across.

## 67. Group Discussion on “Women turning out as great leader in modern world”



### Report

On 8<sup>th</sup> March 2021 a group discussion was organised on the topic “Women turning out as a great leader in the modern world” on the occasion of International Women’s Day Celebration . In this discussion volunteers discussed about the women who have created their future as a great leaders in new world. They talk about Rani Lakshmi Bai, Indira Gandhi etc.

## 68. Essay Competiton on “The rise of women is not about the fall of men”

On 8<sup>th</sup> March 2021 an Essay Writing competition was organised on the topic “**The rise of women is not about the fall of men**” on the ocassion of International Women’s Day Celebration. There were a lot of essays written by volunteers. The event was a great success.

**ACHARYA NARENDRA DEV COLLEGE**  
(UNIVERSITY OF DELHI)

NAAC Accreditation Grade 'A' | NIRF 2020 All India Ranking 18

**NATIONAL SERVICE SCHEME**  
presents

*International Women's Day*  
*Celebration 2021*

**ESSAY COMPETITION**

TOPIC - THE RISE OF WOMEN IS NOT ABOUT  
THE FALL OF MEN.

**DATE - 8 MARCH 2021**  
**entries valid till 9:00 pm today**

**SUBMIT YOUR ENTRIES : [nss@andc.du.ac.in](mailto:nss@andc.du.ac.in)**

Dr. Ravi Toteja (Officiating Principal)	Manish Soni (President, NSS)
Dr. Sunita Jetly (Programme Officer)	Shalini (NSS Volunteer)



**69. Awareness about Thalassemia (Wellness) under joint aegis of NARCHI , NEEV and Maulana Azad Medical College by Dr Seema Kapoor And Dr Sangeet Gupta From MAMC Delhi**



The poster features a red background with a microscopic view of red blood cells. At the top, there are four logos: NARCHI Delhi, NEEV (National Early Evaluation Vision), a circular logo with a red cross, and the Maulana Azad Medical College logo. The text on the poster reads: "NARCHI, DELHI IN ASSOCIATION WITH NATIONAL SERVICE SCHEME UNIT OF ACHARYA NARENDRA DEV COLLEGE", "THALASSEMIA AWARENESS WEBINAR", "LET'S AWARE OURSELVES ABOUT THALASSEMIA FOR OUR FUTURE GENERATIONS", "March 22nd, 2021", "6 to 7 PM", "Meeting ID: 0698033245", and the meeting link "https://global.gotomeeting.com/join/698033245". At the bottom, it states "NARCHI Delhi Secretariat: Department of Obstetrics & Gynaecology Maulana Azad Medical College & Lok Nayak Hospital, New Delhi".

NARCHI, DELHI IN ASSOCIATION WITH  
NATIONAL SERVICE SCHEME UNIT OF  
ACHARYA NARENDRA DEV COLLEGE

**THALASSEMIA  
AWARENESS  
WEBINAR**

LET'S AWARE OURSELVES ABOUT  
THALASSEMIA FOR OUR FUTURE  
GENERATIONS

**March 22nd, 2021  
6 to 7 PM  
Meeting ID: 0698033245  
<https://global.gotomeeting.com/join/698033245>**

NARCHI Delhi Secretariat: Department of Obstetrics & Gynaecology  
Maulana Azad Medical College & Lok Nayak Hospital, New Delhi

## 70. Thalassemia Camp : Screening for thalassemia



### Report

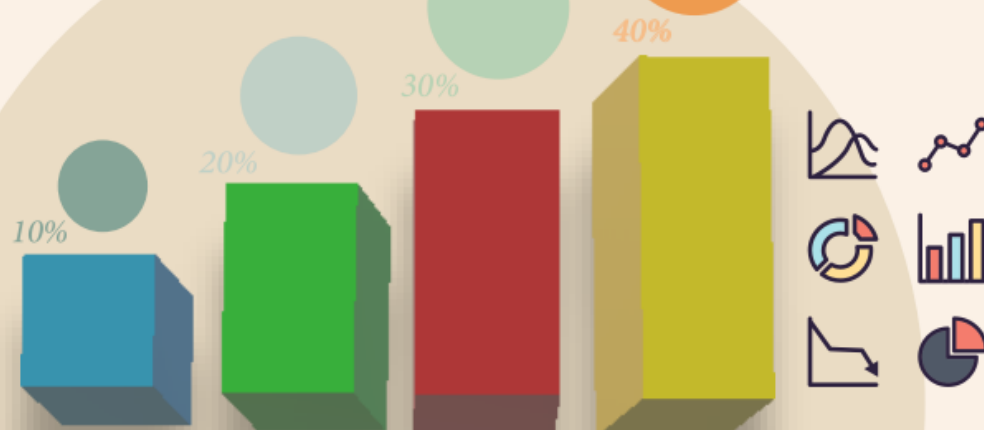
Thalassemia screening was performed on March 23, 2021 at ANDC in collaboration with the team NARCHI and NEEV, to raise awareness and screen youth for any thalassemia carrier state. NSS has been organizing this Thalassemia Awareness Series since 2020 under the direction of Maulana Azad Medical College and Lok Nayak Hospital where every person screened was given refreshments and food was served to Doctors and their team.

April  
6-19  
2021

Two-week national workshop (online)

# Tools & Techniques in Statistical Analysis

under the aegis of DBT STAR College Scheme



Link for Registration: <https://forms.gle/J9rURdrGbn4fhwoCA>

Chief Guest

**Professor Balaram Pani**

Dean of Colleges, University of Delhi

Chief Patron

**Professor S. M. Anwar Alam**

Chairman, Governing Body, ANDC

Convenors

**Dr Vatsla Kohli**

Department of Mathematics

**Dr Seema Makhija**

Department of Zoology

**Dr K R Meena**

Department of Mathematics

Patron

**Dr Ravi Toteja**

Officiating Principal

Co-Convenors

**Dr Archana Pandey**

Department of Biomedical Science

**Dr Rashmi Sharma**

Department of Botany



## ACHARYA NARENDRA DEV COLLEGE

University of Delhi

NIRF 2020 Ranking-18

<https://www.andcollege.du.ac.in/> | +91-(0)11-26294540



Two-week national workshop (online)

# Tools & Techniques in Statistical Analysis

under the aegis of DBT STAR College Scheme

**Chief Guest**

**Professor Balaram Pani**

**Dean of Colleges, University of Delhi**

## Members of Advisory Board

- Dr Garima Gupta, Scientist-E, DBT, India
- Professor C. S. Lalitha, Head and Dean, Faculty of Mathematical Sciences, University of Delhi
- Professor Umesh Rai, Head, Department of Zoology, University of Delhi
- Professor S. B. Babbar, Head, Department of Botany, University of Delhi
- Professor Shobha Bagai, Cluster Innovation Centre, University of Delhi.
- Dr Anjan, Associate Professor & Head, Deptt. Natural Resources Management and Geoinformatics, Khallikote University.
- Dr Madhu Chopra, Assistant Professor, Dr B.R. Ambedkar Center for Biomedical Research (ACBR)
- Dr Abdullah A. Ansari, Assistant Professor, International Center for Advanced Interdisciplinary Research (ICAIR)
- Dr Manish Khandelwal, Assistant Professor, Department of Mathematics, IGNTU Amarkantak
- Dr Kamlesh Jangid, Assistant Professor, Department of Mathematics, Rajasthan Technical University

Scan QR Code for  
Registration



**April**  
**6-19, 2021**

## Speakers



**Professor T.R. Rao**  
IISER, Berhampur



**Professor Ram Kumar**  
Central University of South Bihar



**Dr Aditi Gangopadhyay**  
Associate Professor  
Department of Mathematics  
IIT Roorkee



**Dr Mohd. Arshad**  
Assistant Professor  
Department of Mathematics  
IIT Indore



**Dr Amit Kumar Misra**  
Assistant Professor  
Department of Statistics  
Babasaheb Bhimrao Ambedkar  
University, Lucknow



**Dr Akanksha Gupta**  
Assistant Professor  
Department of Statistics  
Institute of Science, BHU



**Dr Qazi Azhad Jamal**  
Assistant Professor,  
Department of Mathematics &  
Statistics  
Banasthali Vidyapith



**Dr K.R. Meena**  
Assistant Professor  
Department of Mathematics  
Acharya Narendra Dev College



**Acharya Narendra Dev College**

University of Delhi

NIRF 2020 Ranking-18

<https://www.andcollege.du.ac.in/> | +91-(0)11-26294540



## Workshop Schedule

<b>April 6</b>	3:30 pm-3:45 pm Welcome Address Dr Ravi Toteja Officiating Principal	3:45 pm-4:00 pm Inaugural Address Professor Balaram Pani, Chief Guest Professor Anwar Alam, Chief Patron	4:00 pm-5:00 pm Biostatistics: General Perspective Professor T.R. Rao	5:00 pm-6:00 pm Basics of Statistics, Measurements Dr Amit Kumar Misra
<b>April 7</b>	4:00 pm-5:00 pm Probability Theory in Information Security Dr Aditi Gangopadhyay	5:00 pm-6:00 pm Basics of Statistics, Measurements Dr Amit Kumar Misra		
<b>April 8</b>	4:00 pm-5:00 pm Normal Distribution Professor T.R. Rao	5:00 pm-6:00 pm Collection of data, Classification of data, Sampling methods Dr M. Arshad		
<b>April 9</b>	4:00 pm-6:00 pm Collection and classification of data, Sampling methods. Measure of central Tendency Dr M. Arshad			
<b>April 10</b>	4:00 pm-5:00 pm Measure of Dispersion Dr Akanksha Gupta	5:00 pm-6:00 pm Basics of R-software Dr Qazi Azhad Jamal		
<b>April 11</b>	OFF DAY			
<b>April 12</b>	4:00 pm-5:00 pm Skewness and Kurtosis Dr Akanksha Gupta	5:00 pm-6:00 pm Correlation and regression analysis, similarities and dissimilarities Dr Qazi Azhad Jamal		
<b>April 13</b>	4:00 pm-5:00 pm Correlation and regression analysis, similarities and dissimilarities Dr Qazi Azhad Jamal	5:00 pm-6:00 pm Standard probability distributions, Estimation procedures-I Dr M. Arshad		
<b>April 14</b>	4:00 pm-5:00 pm Standard probability distributions, Estimation procedures-I Dr M. Arshad	5:00 pm-6:00 pm Estimation procedures-II Dr K.R. Meena		
<b>April 15</b>	4:00 pm-5:00 pm Hypothesis Testing Professor T.R. Rao	5:00 pm-6:00 pm Testing of Hypothesis-I Dr Amit Kumar Misra		
<b>April 16</b>	4:00 pm-6:00 pm Testing of Hypothesis-II Dr Amit Kumar Misra			
<b>April 17</b>	4:00 pm-5:00 pm Non-parametric procedures Dr Akanksha Gupta	5:00 pm-6:00 pm Simulation and data analysis using R-software Dr Qazi Azhad Jamal		
<b>April 18</b>	OFF DAY			
<b>April 19</b>	4:00 pm-6:00 pm Sampling techniques Professor Ram Kumar	6:00 pm-7:00 pm Valedictory Session		

### Report

Department of Biomedical Science, Botany, Mathematics and Zoology of Acharya Narendra Dev College (ANDC), University of Delhi under the patronage of Prof. Ravi Toteja (Officiating Principal, ANDC) organized the two week national workshop (online) on “Tools and Techniques in Statistical Analysis” under the aegis of DBT-STAR College Scheme on 6-9<sup>th</sup> April 2021 on Zoom from 4-6 pm every day. Prof Balaram Pani, Dean of Colleges, University of Delhi was the

chief guest and Prof S M Anwar Alam, Chairman governing body, ANDC was the chief patron of the workshop. The organizing team comprised of the convenors - Dr.Vatsla Kohli (Department of Mathematics), Dr. Seema Makhija (Department of Zoology), and Dr. K. R. Meena (Department of Mathematics); co-convenors – Dr.Archana Pandey (Department of Biomedical Science) and Dr. Rashmi Sharma (Department of Botany); organizing secretaries – Dr Sumit Sahni and Dr Vineet Kumar Singh; and technical team – Dr Manoj Kumar Singh, Dr Neelgagan Singh, Dr Rahul Dev, Dr Rimpay Kaur Chowhan, Dr Ritu Khosla, Dr Neeti Goel, Dr Gurudutt Rao Ambedkar, Dr Narain Singh, Dr Deodutt Arya, Mr Tarun Sharma, and Mr Sanjay Sangwan.

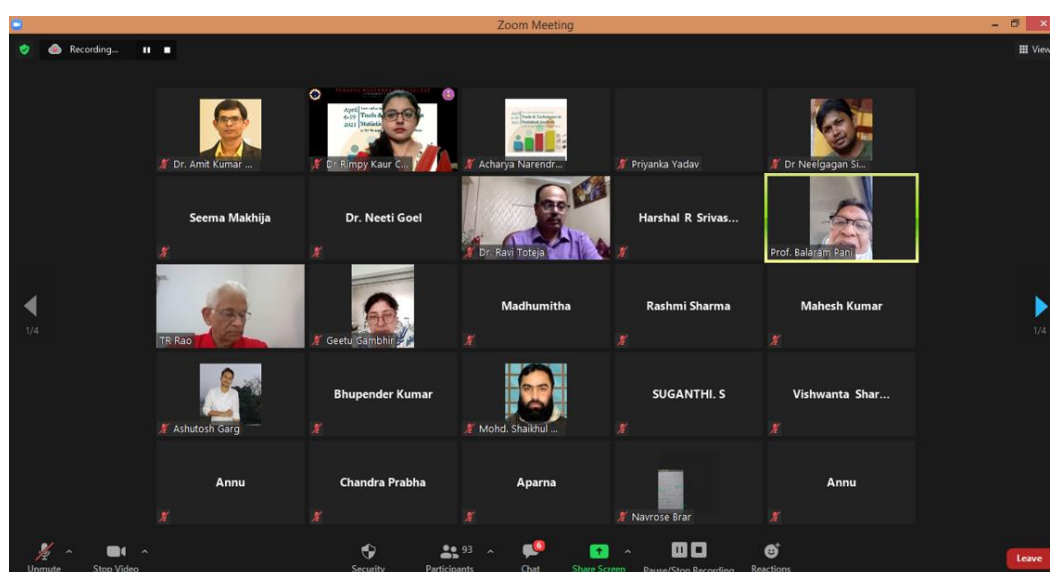
Statistics or state arithmetic, as called in the roman era, is not a new field, in fact it dates back to as early as 1st century B.C with roots in real life applications. In the current scenario, the statistical methods are used extensively in mathematics, biology, medicine, physics, chemistry, engineering, environmental science, sociology and several other interdisciplinary fields. Thus, making the knowledge of various tools and techniques in statistical analysis and how to effectively use them for research and decision making as an imperative tool for any scientific endeavour. To upkeep these goals, with the kind counsel of our advisory team comprised of Dr Garima Gupta, Scientist E, Department of Biotechnology; Prof C S Lalitha, Head and Dean, Faculty of Mathematical Sciences, University of Delhi; Professor Umesh Rai, Head, Department of Zoology, University of Delhi; Professor S B Babbar, Head, Department of Botany, University of Delhi; Professor Shobha Bagai, Cluster Innovation Centre, University of Delhi; Dr. Anjan, Associate Professor and Head, Department of Natural Resource Management and Geoinformatics, Khallikote University; Prof. Daman Saluja, Director, Dr. B R Ambedkar Centre for Biomedical Research (ACBR), University of Delhi; Dr. Abdullah A Ansari, Assistant Professor, International Centre for Advanced Interdisciplinary Research; Dr. Kamlesh Jangid, Assistant Professor, Department of Mathematics, Rajasthan Technical University; and Dr. Manish Khandelwal, Assistant Professor, Department of Mathematics, Indira Gandhi National Tribal University (IGNTU), Amarkantak, this workshop has been meticulously designed to provide knowledge on statistical modelling, data mining, and fitting statistical models to data in real-world applications using various statistical analysis tools like R and SPSS.

The information about the webinar was disseminated on various official social media channels of the college including instagram, facebook, twitter and college website with few selective sessions of the workshop to be released on college's youtube channel as well. Approximately, 205 participants including undergraduate and postgraduate students, research scholars and academicians from all over the country, registered for the event after paying the registration fee of Rs. 100 for ANDC Students (UG and PG), Rs. 200 for other Students (UG and PG), Rs 500 for Research Scholars, and Rs 1000 for Industry Sponsored individuals.



During this 15 day long workshop, two sessions were being conducted almost every day by the eminent speakers - Professor T R Rao, IISER, Berhampur; Professor Ram Kumar, Central University of South Bihar; Professor Aditi Gangopadhaya, Department of Mathematics, IIT-Roorkee; Dr Mohd. Arshad, Assistant Professor, Department of Mathematics, IIT-Indore; Dr Amit Kumar Misra, Assistant Professor, Department of Statistics, BabasahebBhimraoAmbedkar University, Lucknow; Dr Akanksha Gupta, Assistant Professor, Department of Statistics, Institute of Science, Bangalore; Dr QaziAzhad Jamal, Assistant Professor, Department of Mathematics and Statistics, BanasthaliVidyapith, Rajasthan; Dr Shashi Bhushan, Associate Professor and Head, Department of Mathematics &Statistics, Dr.ShakuntalaMisra National RehabilitationUniversity, Lucknow; and Dr K R Meena, Assistant Professor, Department of Biomedical Science, Acharya Narendra Dev College. They gave lectures on the broad themes of Fundamentals of Statistics (special reference to biology), Data types and collection, Sampling techniques, Measures of central tendency and Measures of dispersion, Correlation and Regression Analysis, Statistical inference, Estimation procedures, hypothesis testing (Student's 't' test, chi square test, F test), Introduction to Binomial, Poisson and Normal distribution, and uses of advance softwares (R, SPSS and Sigmaplot) in modern biostatistics. The end of every session was followed by a Q & A session, where all the attendees actively participated and all of their doubts and queries were answered.

The workshop ended with a lively valedictory session with speeches by Prof Ravi Toteja, Prof BalaramPani, Prof T R Rao, Dr Amit Kumar Misra, several participants and a formal vote of thanks by Dr Rashmi Sharma. Overall, it was definitely a successful workshop, evident by the hordes of positive feedbacks and quiz turnouts submitted every day.



Zoom Meeting

Recording...

View

Dr. Amit Kumar Misra

Dr. Rimpri Kaur Ch...

Acharya Narendr...

Kunal Kumar Yad...

Seema Makhija

Dr. Ravi Toteja

TR Rao

Bhupender Kumar

Dr. K. R. Meena

Dr. Neelgagan St...

DEEPTI ROY

Aparna

Prasad Lamrood

Madhumitha

Rashmi Sharma

Mr. Suraj Singh

Varun Kumar

Chirag Pulwani

Harsh Vardhan S...

Amit K Awasthi

Ravneet

Rahul Kumar

Dr. Rahul Dev

Jahani Gupta

Aakanksha Vatsa

Mute

Stop Video

Security

Participants 73

Chat 23

Share Screen

Pause/Stop Recording

Reactions

Leave

Zoom Meeting

Recording Paused

View

Dr. Amit Kumar...

Dr. Rimpri Kaur Cho...

Acharya Narendr...

Kunal Kumar Ya...

Seema Makhija

Dr. Ravi Toteja

Dr. K. R. Meena

Dr. Neelgagan St...

Aparna

Prasad Lamrood

Madhumitha

Rashmi Sharma

Dr. Sarita Agarwal

Babita Trivedi

Dr. Vatsla Kohli

Vineet Singh

Ravneet

Dr. Harita Ahuja

Dr. Rahul Dev

Aakanksha Vatsa

Annu

Rajat Sharma

Harsh Vardhan...

SUGANTHI. S

Rahul Kumar

Mute

Stop Video

Security

Participants 48

Chat 25

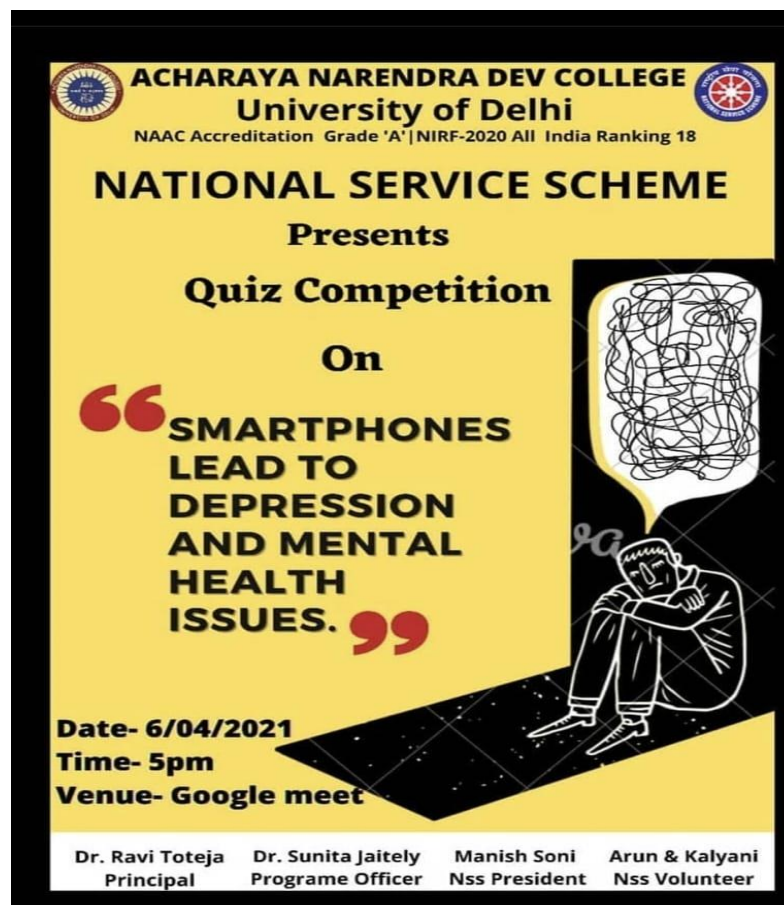
Share Screen

Resume/Stop Recording

Reactions

Leave

72. Various events like- Quiz, JAM etc. On “Smartphones lead to depression & mental stress”



### Report

“It’s late at night, you should be getting ready to fall asleep, but instead you’re up, phone in hand, doomscrolling through your social media feeds. A 2017 study from the Journal of Child Development found that smartphones can cause sleep problems in teens, which led to depression, anxiety and acting out.” The NATIONAL SERVICE SCHEME under Project WELLNESS of Acharya Narendra Dev College, University of Delhi organised a Quiz Competition with the THEME- Smartphones lead to DEPRESSION and MENTAL HEALTH issues on 6th April 2021 at 5:00 pm online through Google Meet Platform.



### 73. Webinar by Dr. Suchita Kalyani, Physiotherapist on “Good & Bad Postures & magic of physiotherapy”



ACHARYA NARENDRA DEV COLLEGE  
(University of Delhi)  
NAAC Accreditation Grade 'A'1 NIRF-2020 All India Ranking 18

**NATIONAL SERVICE SCHEME**  
**Invites You To**  
**HEALTH AWARENESS SERIES - 2**  
**TOPIC - GOOD AND BAD POSTURE AND MAGIC OF  
PHYSIOTHERAPY ON POSTURE**

**Speaker-**  
**Dr. Suchita Kalyani**  
**(Physiotherapist)**

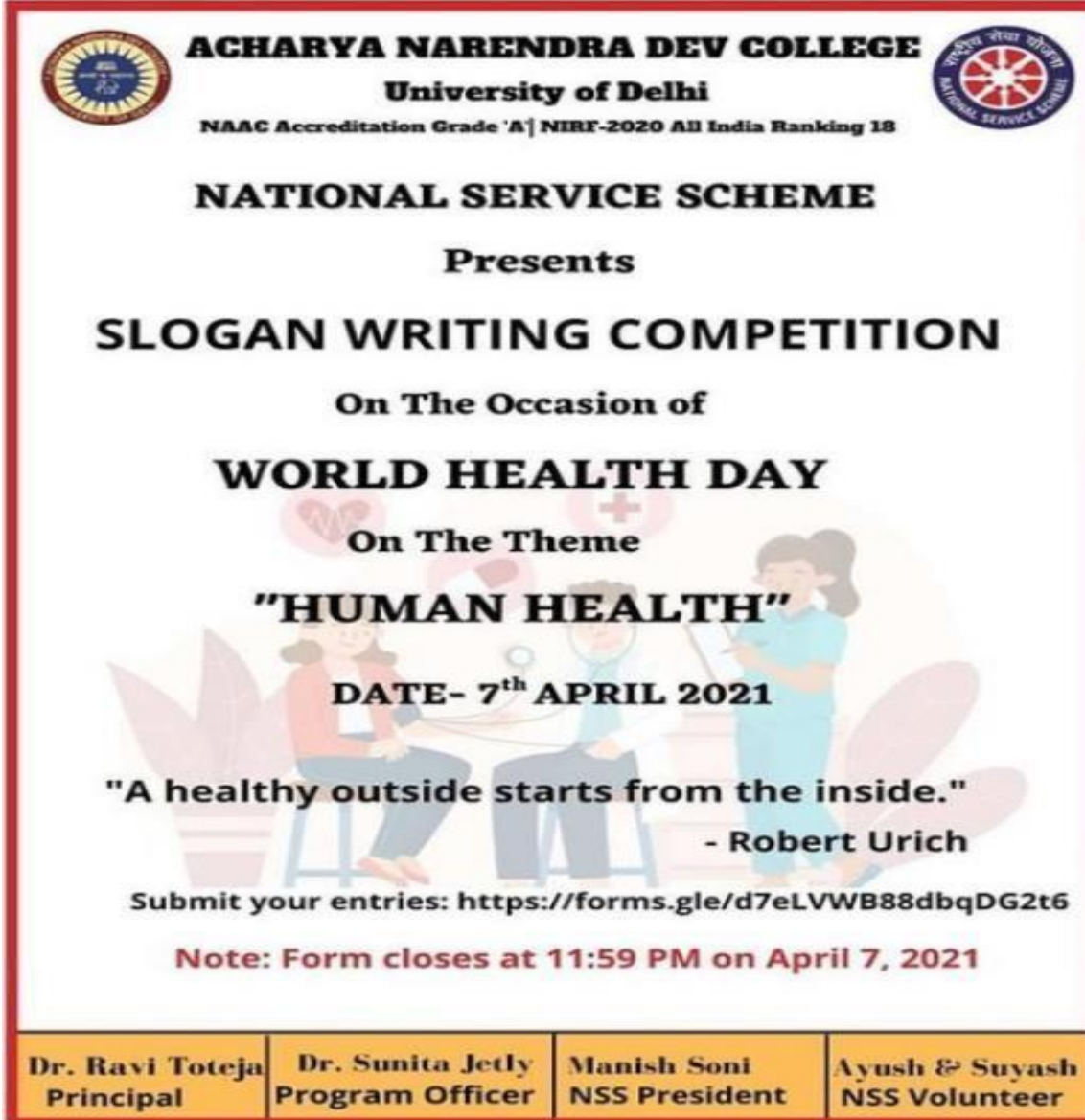
 **APRIL 7, 2021**  
 **6 PM Onwards**  
**Venue - Google Meet**   
<https://meet.google.com/ads-rpnt-hur>

Dr. Ravi Toteja Principal	Dr. Sunita Jetly Program Officer	Manish Soni NSS President	Ayush & Suyash NSS Volunteer
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#### Report

Good posture can be successfully acquired only when the entire mechanism of the body is under perfect control. To create awareness about Posture on 7th April 2021-“World Health Day”, 6 -7 pm the National Service Scheme (NSS) Unit of Acharya Narendra Dev College organized a Webinar on “Good and Bad Posture and Magic of Physiotherapy” via Google Meet. The session was conducted by Dr. Suchita Kalyani who is a Physiotherapist. The webinar educated people about good and bad posture of the body and the ways to rectify it with the help of Physiotherapy.

#### 74. Slogan writing competition on the occasion of World Health Day



The poster is for a slogan writing competition organized by Acharya Narendra Dev College, University of Delhi. It features the college's logo on the top left and the National Service Scheme (NSS) logo on the top right. The text is centered and reads: 'ACHARYA NARENDRA DEV COLLEGE University of Delhi NAAC Accreditation Grade 'A' | NIRF-2020 All India Ranking 18 NATIONAL SERVICE SCHEME Presents SLOGAN WRITING COMPETITION On The Occasion of WORLD HEALTH DAY On The Theme "HUMAN HEALTH" DATE- 7<sup>th</sup> APRIL 2021 "A healthy outside starts from the inside." - Robert Urich Submit your entries: <https://forms.gle/d7eLVWB88dbqDG2t6> Note: Form closes at 11:59 PM on April 7, 2021'. At the bottom, there is a table with four columns listing the Principal, Program Officer, NSS President, and NSS Volunteer.

Dr. Ravi Toteja Principal	Dr. Sunita Jetly Program Officer	Manish Soni NSS President	Ayush & Suyash NSS Volunteer
------------------------------	-------------------------------------	------------------------------	---------------------------------

#### Report

On the auspicious occasion of World Health Day the National Service Scheme of Acharya Narendra Dev College, University of Delhi conducted a Slogan Writing Competition on 7th April, 2021 through Google Form in order to have a sense of awareness on health. The THEME for the competition is "HUMAN HEALTH".

## 75. Debate on “Traditional Indian Food healthy for our body”

**ACHARYA NARENDRA DEV COLLEGE**  
University of Delhi  
NAAC Accreditation Grade 'A' | NIRF-2020 All India Ranking 18

**NATIONAL SERVICE SCHEME**  
Presents  
**DEBATE COMPETITION**  
ON  
**WORLD HEALTH DAY**  
TOPIC - "TRADITIONAL INDIAN  
FOOD HEALTHY FOR OUR BODY."

7<sup>th</sup> APRIL 2021  
 3 PM  
 **GOOGLE MEET**

TO PARTICIPATE REGISTER ON GOOGLE FORM :  
[HTTPS://FORMS.GLE/YXKFTTDN9ZSZGK6FA](https://forms.gle/YXKFTTDN9ZSZGK6FA)

<b>Dr. Ravi Toteja</b> Principal	<b>Dr. Sunita Jetly</b> Program Officer	<b>Manish Soni</b> NSS President	<b>Ayush &amp; Suyash</b> NSS Volunteer
-------------------------------------	--	-------------------------------------	--



## 76. Best Out of Waste Competition under Swachh Bharat Abhiyan



### Report

Swachh Bharat Abhiyan(SBA) is a country-wide campaign initiated by the Government of India in 2014. The NSS unit of Acharya Narendra Dev College under Project SBA conducted an inventive Best Out Of Waste competition. In the month of April 2021. The participants showcased their creativity and made useful things out of waste materials from household.

## 77. Group Discussion on “fears of getting vaccination”

**Acharya Narendra Dev College**  
University of Delhi  
Accredited 'A' Grade by NAAC-Score 3.31 | NIRF 2020 Ranking -18 | DBT Star College

**National Service Scheme**

**"Fear of Getting Vaccinations of Covid-19"**

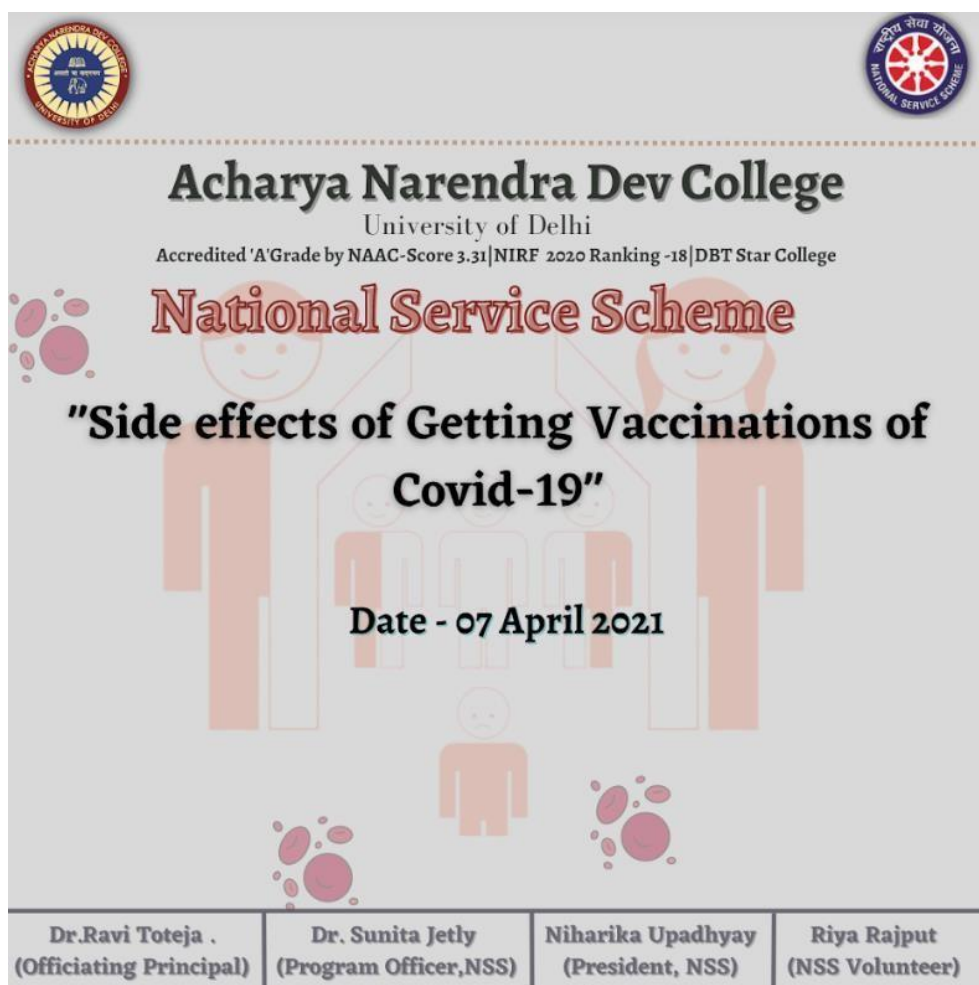
**Date - 07 April 2021**

<b>Dr. Ravi Toteja .</b> (Officiating Principal)	<b>Dr. Sunita Jetly</b> (Program Officer, NSS)	<b>Niharika Upadhyay</b> (President, NSS)	<b>Riya Rajput</b> (NSS Volunteer)
---	---	--	---------------------------------------

### Report

Dr Sunita Jetly as convenor of NSS conducted group discussion on 7<sup>th</sup> April, 2021 on the topic "Fears of Getting Vaccination of Covid-19"

## 78. Group Discussion on “side effects of vaccination”



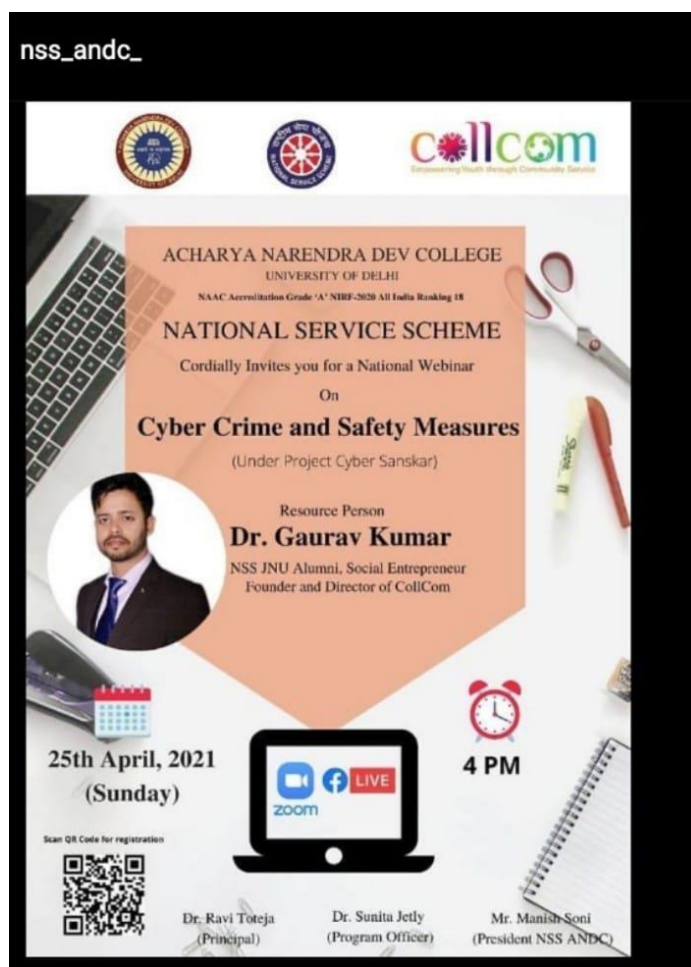
### Report

Dr Sunita Jetly as convenor of NSS conducted group discussion on 7<sup>th</sup> April, 2021 on the topic “Side effects of Getting Vaccinations of Covid-19”.



## 79. Webinar on Cyber Crimes and Safety Measures

nss\_andc\_



ACHARYA NARENDRA DEV COLLEGE  
UNIVERSITY OF DELHI  
NAAC Accreditation Grade 'A' NIEF-2020 All India Ranking 18

**NATIONAL SERVICE SCHEME**  
Cordially Invites you for a National Webinar  
On  
**Cyber Crime and Safety Measures**  
(Under Project Cyber Sanskar)

Resource Person  
**Dr. Gaurav Kumar**  
NSS JNU Alumni, Social Entrepreneur  
Founder and Director of ColliCom

25th April, 2021  
(Sunday)

4 PM

Scan QR Code for registration

Dr. Ravi Toteja  
(Principal)

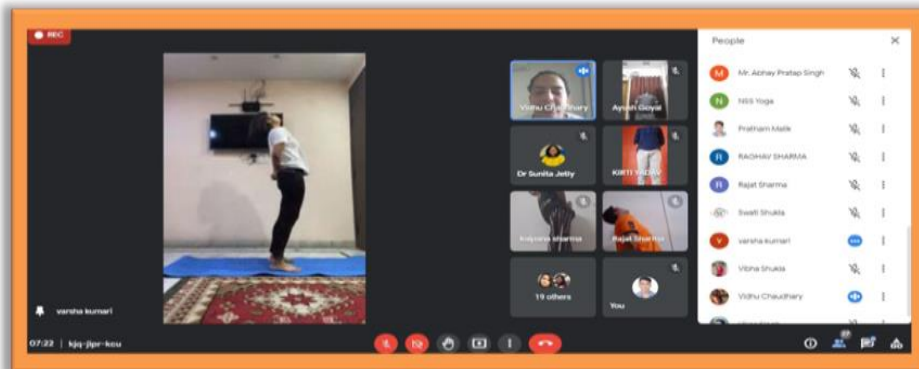
Dr. Sunita Jetly  
(Program Officer)

Mr. Manish Soni  
(President NSS ANDC)

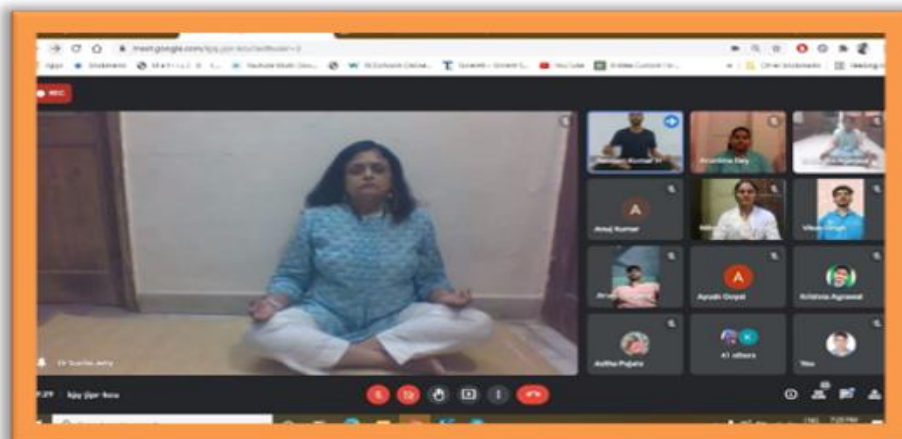
## 80. Webinar on International Yoga Day

### Report

A webinar on International Yoga Day was organized by NSS unit of ANDCA talk was delivered by by Smt Shashi Sharda.



## Report

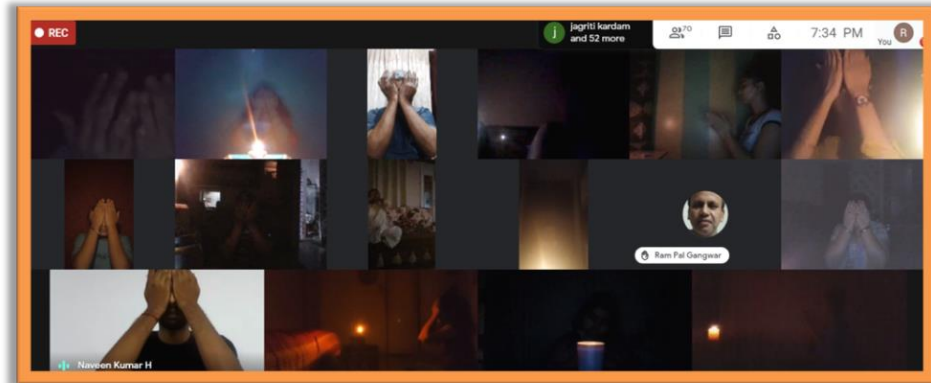




## 82. Live Session - Introduction to YOGA by Smt. Vidu Chaudhary

### Report

The last live session, on *Introduction to Yoga*, was organized on the occasion of 7th International Yoga Day from 7:00 AM – 8:30 AM under the guidance of acharya Smt. Vidhu Chaudhary and her trainee Miss. Varsha. Asana like Pawanmuktasana was taught in the session. The techniques to breathe and do meditation, for feeling relaxed and keeping our body fit and energetic, were also taught. In this session, 55 volunteers and teachers had participated. The session was followed by a question-answer session and Shanti path.



### 83. Blood Donation Camp



#### Report

NSS unit of ANDC celebrated world blood donor day on June 14, 2021. A webinar was organised in collaboration with KHOON. KHOON is a youth-led NGO started by their founder Chetan Manchegowda at the tender age of 16. The NGO helps in ushering blood from hearty donors to give people a second chance at a dignified life. The webinar was presided by Dr. P.K. Gogoi followed by Dr. Jina Bhattacharya. Both these doctors are renowned clinical hematologist. The PO of NSS unit at ANDC, Dr. Sunita Jetly gave an introductory speech and spoke a few words on how we can enhance blood donation among the common masses by giving them a purpose and motivation to donate their blood periodically. A presentation was shown by the KHOON members where the importance of blood donation was told and awareness about thalassemia was spread to all. The webinar had an amazing outreach with over 200 participants attending it live. After the session by the invited speakers, there was a group discussion on blood donation. The panelists of the discussion were renowned doctors, and they shared some valuable information on



# ACHARYA NARENDRA DEV COLLEGE

University of Delhi

NAAC Grade 'A' | NIRF Ranking 2021- #20 | DBT STAR College

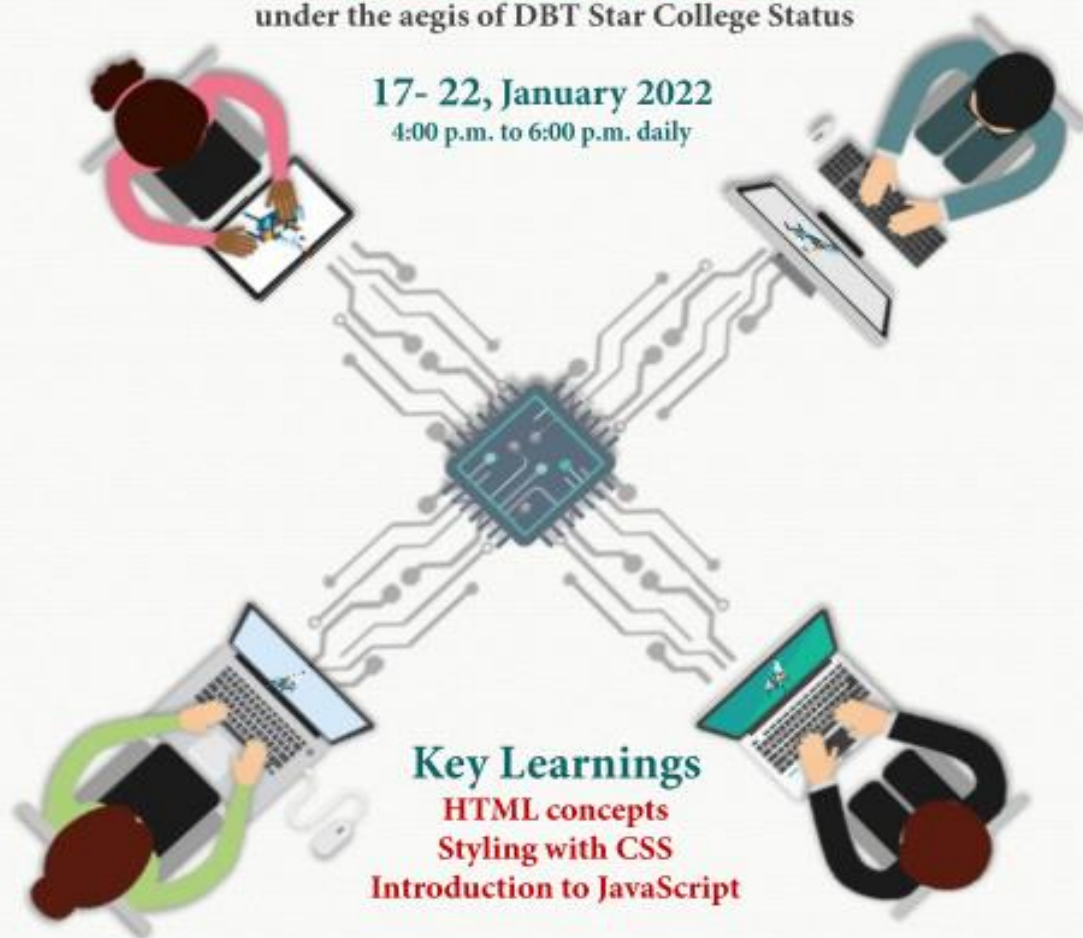
organizing one-week online bootcamp for

## V-Lab Development

under the aegis of DBT Star College Status

17- 22, January 2022

4:00 p.m. to 6:00 p.m. daily



### Key Learnings

HTML concepts  
Styling with CSS  
Introduction to JavaScript

**Professor Ravi Toteja**  
Patron

**Dr Sanjeeta Rani**  
**Dr Pooja Bhagat**  
**Professor Seema Makhija**  
Convenors

**Dr Sumit Sahni**  
**Dr Vineet Kr Singh**  
Nodal Officers  
(Virtual Labs @ANDC)

Organizing Committee: **Dr Rahul Dev, Mr Abhay Pratap Singh**

Resource Persons: **Ayush Mishra, Vaibhav Thapliyal, Yash Virmani, Avaniya Tyagi**

Register at: <https://forms.gle/qnmuT3Az1vFAmFrr6>





## Report

Bootcamp 1.0 was organized for the College students to train them to build digital content on web i.e. web pages. These pages will also be used for the V-Lab experiment's content page. The topics covered during the workshop were:

- (1) HTML- History and Features, Tags, Special characters, linking images and videos, Internal and external Linking, Working with DOM elements of HTML
- (2) CSS- Animations, Applying properties to DOM (shadow, font size, font family, padding, margin, color, background, display, position, border radius, table)
- (3) JavaScript- Basic Introduction, Objects, Elements, Data Types, Keywords, Looping Constructs, Functions, Animations using Event Listeners

Daily Quizzes were conducted based upon the topics taught in addition to assignments. The camp was a great success.



vaibhav7037 (Guest)

Dr. Sanjeeta Rani (Guest)

Ayush Kapoor (Guest)

Dr Pooja Bhagat (Guest)

Manisha J.

AYUSH M.

MOHD AFHAM (Guest)

Seema M

Anushka (Guest)

Nisha Khanna

Vineet K

Neelakshi Bor...

Abhay G

Dipankar Dev ...

aryadeepa...

HARSHITA K

Devanshi M

PALAK S

Nidhi Jain

Vinesh Kumar...

Anushka (Guest)

50

64%

5:16

Sat, 1/22

## 85. Hands-on workshop on Tools and Techniques of Biotechnology



 **ACHARYA NARENDRA DEV COLLEGE**  
UNIVERSITY OF DELHI  
ACCREDITED 'A' GRADE BY NAAC WITH SCORE OF 3.31  
DBT STAR STATUS COLLEGE 

---

 Department of Zoology  
Under the aegis of  
**IQAC & DBT STAR COLLEGE**   
organizes

---

Hands on Workshop  
Tools and Techniques of

# Biotechnology

 **April 7-8, 2022**  
**9:00 am - 5:00 pm**

**PATRON**  
Prof. Ravi Toteja

<b>COORDINATORS</b> Prof. Monisha Khanna Prof. Seema Makhija	<b>CONVENOR</b> Dr. Monica Misra (TIC, Zoology)
--	---

[Click Here To Register](#)



## Report:

Two days Hands-on workshop on **Tools and Techniques of Biotechnology** under the aegis of DBTSTAR College Scheme and IQAC from April 7-8, 2022 was organized by Department of Zoology, ANDC. During this workshop, students were given hands on experience for DNA isolation, Agarose Gel Electrophoresis, PCR, Haemoglobin estimation, BP measurement and Southern Blotting.


A workshop on tools and techniques of molecular biology could cover a range of topics related to the methods and equipment used in molecular biology research. Topics covered in the workshop were:

1. DNA extraction and purification: Techniques for extracting DNA from various bacteria
2. PCR (polymerase chain reaction): An overview of the basic principles of PCR, including primer design, amplification, and detection.
3. Gel electrophoresis: Techniques for separating DNA or protein samples based on size or charge using gel electrophoresis, including agarose and polyacrylamide gel electrophoresis.
4. Southern Blotting





## 86. Hands-on workshop on Biological Techniques



**Acharya Narendra  
Dev College**  
(University of Delhi)  
NAAC Accreditation Grade 'A' | NIRF Ranking 20 | DBT STAR College

under the aegis of DBT STAR COLLEGE  
Scheme and IQAC  
organizes  
Hands on Workshop  
on

**Biological  
Techniques**

Venue: Department of Zoology  
Date: September 27 - October 4, 2021  
Time: 9:00 am - 4:00 pm

Patron: Prof. Ravi Toteja, Officiating Principal  
Convenor: Dr Rahul Dev, Department of Zoology

Organizing Team: Faculty and Non-teaching Staff,  
Department of Zoology



**Report:**

Organized six days Hands-on workshop on **B[io]logical Techniques** under the aegis of DBTSTAR College Scheme and IQAC from September 27 –October 4, 2021. During this workshop, students were given hands on experience for the preparation of LB Media, Blood group determination. SDS-PAGE and ELISA etc.

The Department aims to impart practical Knowledge of Molecular Biology and Immunology to III rd Year UG students. Molecular Biology practical involves practical knowledge of raising, handling, maintenance and special features such as antibiotic resistance of a simple prokaryotic model organism, *Escherichia coli* and Quantitatively estimation of DNA by colorimetric methods. Immunology practical involves determination of Blood Group Types, Ouchterlony's double immuno-diffusion method and study of different types of blood cells in blood film.

To fulfill this in the available short period, Department is planning to organize 6 days workshop for undergraduate students.

The Schedule of the Workshop was as follows:

Day	Time	Techniques	Resource Person	Technical Staff
September 27, 2021	9:00am-12:00pm	Visit to Research Laboratories	Prof Sarita Kumar, Prof Urmi Bajpai, Prof Monisha Khanna, Prof Ravi Toteja	Mr Sachidanand Misra, Mr Sanjeev, Mr Tara Dutt Sharma, Mr Pramod Bhatt , Mr Jai Prakash, Mr Vikas Sharma, Mr Sagar, Mr Mahesh, Mr Harshal, Ms Sumitra  Ms Kanika Chaddha (Museum Curator)
September 27, 2021	1:00pm-4:00pm	Preparation of liquid and solid culture medium (LB)/ SDS PAGE/ Agarose Gel Electrophoresis	Prof. Seema Makhija Dr Rahul Dev	Mr Sachidanand Misra, Mr Sanjeev, Mr Tara Dutt Sharma, Mr Pramod Bhatt , Mr Jai Prakash, Mr Vikas Sharma, Mr Sagar, Mr Mahesh, Mr Harshal, Ms Sumitra  Ms Kanika Chaddha (Museum Curator)

September 28, 2021	9:00am- 12:00pm	Blood Group Determinati on Preparation of stained blood film	Mr Ravinder Sagar Mr Abhay Pratap Singh	Mr Sachidanand Misra, Mr Sanjeev, Mr Tara Dutt Sharma, Mr Pramod Bhatt , Mr Jai Prakash, Mr Vikas Sharma, Mr Sagar, Mr Mahesh, Mr Harshal, Ms Sumitra  Ms Kanika Chaddha (Museum Curator)
September 28, 2021	1:00pm- 4:00pm	Inoculation of <i>E.coli</i> into liquid media. Plating of <i>E.coli</i> by streaking and spreading method	Dr Rahul Dev Mr Vineet Girdharwal	Mr Sachidanand Misra, Mr Sanjeev, Mr Tara Dutt Sharma, Mr Pramod Bhatt , Mr Jai Prakash, Mr Vikas Sharma, Mr Sagar, Mr Mahesh, Mr Harshal, Ms Sumitra  Ms Kanika Chaddha (Museum Curator)
September 29, 2021	9:00am- 12:00pm	Preparation of Polytene Chromosome	Prof Ravi Toteja Dr Neelgagan Singh	Mr Sachidanand Misra, Mr Sanjeev, Mr Tara Dutt Sharma, Mr Pramod Bhatt , Mr Jai Prakash, Mr Vikas Sharma, Mr Sagar, Mr Mahesh, Mr Harshal, Ms Sumitra  Ms Kanika Chaddha (Museum Curator)
September 29, 2021	1:00pm- 4:00pm	Estimation of the growth kinetics of <i>E. coli</i> by turbidity method.	Dr Rahul Dev Dr Shrankhla	Mr Sachidanand Misra, Mr Sanjeev, Mr Tara Dutt Sharma, Mr Pramod Bhatt , Mr Jai Prakash, Mr Vikas Sharma, Mr Sagar, Mr Mahesh, Mr Harshal, Ms Sumitra  Ms Kanika Chaddha (Museum Curator)
September 30, 2021	9:00am- 12:00pm	Demonstrati on of antibiotic	Dr Rahul Dev Prof Seema	Mr Sachidanand Misra, Mr Sanjeev, Mr Tara Dutt Sharma, Mr Pramod Bhatt , Mr Jai Prakash, Mr Vikas

		sensitivity/resistance of <i>E. coli</i>	Makhija	Sharma, Mr Sagar, Mr Mahesh, Mr Harshal, Ms Sumitra  Ms Kanika Chaddha (Museum Curator)
September 30, 2021	1:00pm-4:00pm	Quantitative estimation of salmon sperm/calf thymus DNA using colorimeter	Dr Rahul Dev Mr Sanjay Kumar	Mr Sachidanand Misra, Mr Sanjeev, Mr Tara Dutt Sharma, Mr Pramod Bhatt, Mr Jai Prakash, Mr Vikas Sharma, Mr Sagar, Mr Mahesh, Mr Harshal, Ms Sumitra  Ms Kanika Chaddha (Museum Curator)
October 1, 2021	9:00am-12:00pm	Ouchterlony's double immuno-diffusion method	Dr Sweety Shrimali Dr Aparna Sharma	Mr Sachidanand Misra, Mr Sanjeev, Mr Tara Dutt Sharma, Mr Pramod Bhatt, Mr Jai Prakash, Mr Vikas Sharma, Mr Sagar, Mr Mahesh, Mr Harshal, Ms Sumitra  Ms Kanika Chaddha (Museum Curator)
October 1, 2021	1:00pm-4:00pm	PTC Test	Dr Aparna Sharma Dr Sweety Shrimali	Mr Sachidanand Misra, Mr Sanjeev, Mr Tara Dutt Sharma, Mr Pramod Bhatt, Mr Jai Prakash, Mr Vikas Sharma, Mr Sagar, Mr Mahesh, Mr Harshal, Ms Sumitra  Ms Kanika Chaddha (Museum Curator)
October 4, 2021	9:00am-4:00pm	ELISA	Mr Vikas Sachdev, Technical Officer, AIIMS, New Delhi	Mr Sachidanand Misra, Mr Sanjeev, Mr Tara Dutt Sharma, Mr Pramod Bhatt, Mr Jai Prakash, Mr Vikas Sharma, Mr Sagar, Mr Mahesh, Mr Harshal, Ms Sumitra  Ms Kanika Chaddha (Museum Curator)





## 87. Celebrating International Microorganism Day as “MICROSPHERE 2021”: An International Outreach Program



### ORGANIZERS

**CHAIRPERSON**  
Rup Lal  
(NASI Senior Scientist, TERI,  
New Delhi &  
President, INSCR)

**PATRON**  
Hem Chand Jain  
(Principal, DDUC, DU)

**COORDINATORS**  
Shailly Anand  
(Convenor, Synapses)

Renu Solanki  
(Convenor, Science Foundation)



Jointly organized by

Deen Dayal Upadhyaya College (DU),  
Gargi College (DU),  
IIT Rorkee,  
Kirori Mal College (DU),  
Ramjas College (DU),  
PG Dept. of Zoology (MU) &  
PhiXgen Pvt. Ltd., Gurugram

in association with

Acharya Narendra Dey College (DU),  
Maitreyi College (DU),  
Sri Venkateswara College (DU) &  
C.M.P. College (AU)



SCIENCE FOUNDATION & SYNAPSES

*Celebrates*  
**International Microorganism Day**  
**MICROSPHERE**

AN INTERNATIONAL  
OUTREACH PROGRAM

**17th September, 2021**

9:00 a.m. onwards

AN INITIATIVE TO PROMOTE  
MICROBIAL LITERACY &  
CELEBRATING THE DIVERSITY  
& WIDE APPLICATIONS OF  
MICROBES

under the aegis of

INDIAN NETWORK FOR SOIL  
CONTAMINATION RESEARCH  
(INSCR)




### EXECUTIVE COMMITTEE:

C. SHEELA REDDY (PRINCIPAL, SVC, DU)  
MANOJ KUMAR KHANNA (PRINCIPAL, RAMJAS, DU)  
VIBHA SINGH CHAUHAN (PRINCIPAL, KMC, DU)  
PROMILA KUMAR (PRINCIPAL, GARGI COLLEGE, DU)  
RAVITOTTEJA (PRINCIPAL, ANDC, DU)  
HARITMA CHOPRA (PRINCIPAL, MAITREYI COLLEGE, DU)  
SNP YADAV DEEN (HEAD, PG DEPT. OF ZOOLOGY, MU)  
BRIJESH KUMAR (PRINCIPAL, C. M. P. COLLEGE, AU)

### ORGANIZING COMMITTEE:

SEEMA MAKHIJA (ANDC, DU)  
ANITA GULATI (DDUC, DU)  
SUJATA KHATRI (DDUC, DU)  
OM PRAKASH (NCMR - NCCS)  
UTKARSH SOOD (TERI)  
NIRJARA SINGHVI (PHIXGEN PVT. LTD.)  
AJAIB SINGH (SVC, DU)  
MANSI VERMA (SVC, DU)  
KIRAN RANA (DESHBANDHU COLLEGE, DU)  
JAYA MALHOTRA (HANSRAJ COLLEGE, DU)  
PUSHP LATA (RAMJAS COLLEGE, DU)  
JASPREET KAUR (MAITREYI COLLEGE, DU)  
AESHNA NIGAM (SHIVAJI COLLEGE, DU)  
ANKITA DUA (SHIVAJI COLLEGE, DU)  
ANJALI SAXENA (BCAS, DU)  
PRIYA SINGH (DU)  
HELIANTHOS VERMA (RAMJAS COLLEGE, DU)  
MONA SINGH (PHIXGEN PVT. LTD.)  
NITISH KUMAR MAHATO (DDUC, DU)  
CHARU TRIPATHI (ALLAHABAD UNIVERSITY)  
CHANDNI TALWAR (PHIXGEN PVT. LTD.)

## Get in touch

micosphere2021@gmail.com

### Interactive Sessions on:

Microbial Literacy: A Global Initiative  
The Rise of the Microbe Empire  
Microbial garden within you  
Microbes and Sustainability  
Microbiology: Career Prospects  
DNA from your kitchen (Student Session)

### SPECIAL ATTRACTION

Microbiology Quiz for School & College  
Students  
"Celebrating Microbes" Drawing  
Competition for K12 students

\*Cash Prize & Certificate of Appreciation will be provided to  
top scorers



## INTERNATIONAL MICROORGANISM DAY

September 17th is celebrated as the International  
Microorganism Day since 2017 to commemorate the  
milestone year of 1683 when Anton van Leeuwenhoek  
for the first time wrote a letter to Britain's Royal Society  
describing the "animalcules" which he had observed  
under the microscope as the first known description of  
bacteria.

Let us all take this day as an opportunity to raise  
awareness towards the significant contribution of  
microorganisms in our lives especially in the present  
times when a virus has made the world look them even  
more negative. These invisible ones are mightier than  
one can imagine and hence its the time to make  
everyone aware. Microbial Literacy in the society is the  
need of the hour if we dream a sustainable future.

### WHO CAN ATTEND

School students, Undergraduates, Post-graduates,  
Research Scholars, School Teachers, College Teachers,  
Researchers, Parents, Family  
- Our Society

### HOW CAN YOU REGISTER

- No Registration Fees
- Fill in your particulars in the Registration Form:  
<https://forms.gle/SbNCz6oL6xKnoq7V7>
- E-certificates shall be provided to all the participants
- Zoom meeting link shall be shared with all the  
registered participants





Celebrating  
International Microorganism Day

# MICROSPHERE

An International Outreach Program

**17th September, 2021**

**An initiative to promote microbial literacy & celebrating the diversity & wide applications of microbes**

**under the aegis of**

**INDIAN NETWORK FOR SOIL CONTAMINATION RESEARCH (INSCR)**

Jointly organized by

**Deen Dayal Upadhyaya College (DU), Gargi College (DU), IIT Rorkee, Kirori Mal College (DU), Ramjas College (DU), PG Dept. of Zoology (MU) & PhiXgen Pvt. Ltd., Gurugram**

in association with

**Acharya Narendra Dev College (DU), Maitreyi College (DU), Sri Venkateswara College (DU) & C.M.P. College (AU)**



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## PROGRAM REPORT

### CHAIRPERSON

Rup Lal (NASI Senior Scientist, TERI, New Delhi & President, INSCR)

### COORDINATORS (DDUC)

Dr. Shailly Anand (Convenor – Synapses, Department of Zoology, DDUC, DU)

Dr. Renu Solanki (Convenor – Science Foundation, Teacher In-charge, Department of Zoology, DDUC, DU)

### ORGANIZING COMMITTEE (DDUC)

Dr. Sujata Sinha (Department of Botany, DDUC, DU)

Dr. Anita Gulati (Department of Zoology, DDUC, DU)

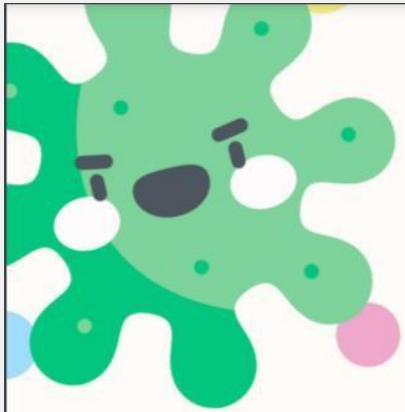
Dr. Sachin Mittal (Department of Chemistry, DDUC, DU)

Dr. Sujata Khatri (Department of Computer Science, DDUC, DU)

### EXECUTIVE COMMITTEE

In the brochure

### ORGANIZING COMMITTEE MEMBERS FROM COLLABORATING COLLEGES/ INSTITUTIONS



## RULES

- THE DRAWINGS CAN BE MADE ON AN ART PAPER OR A4 SIZE PAPER WITH PAGE BORDER.
- THE DRAWING MUST BE THE ORIGINAL IDEA OF THE CHILD AND NOT INFRINGE ON ANYONE ELSE'S COPYRIGHT.
- A GOOD QUALITY PHOTOGRAPH OF THE DRAWING SHOULD BE SENT TO [MICROSPHERE@GMAIL.COM](mailto:MICROSPHERE@GMAIL.COM) IN JPEG/PNG FORMAT.
- KINDLY MENTION YOUR NAME, CLASS, SCHOOL AND THE TOPIC NAME IN THE DRAWING ALONG WITH MOBILE/WHATSAPP NUMBER IN THE EMAIL. (DRAWINGS RECEIVED WITHOUT THESE DETAILS WILL NOT BE CONSIDERED FOR EVALUATION).
- THE DRAWINGS WILL BE ACCEPTED TILL **15.09.2021**. DRAWINGS RECEIVED AFTER THIS DATE WILL NOT BE CONSIDERED FOR EVALUATION.
- ONLY ONE DRAWING CAN BE SUBMITTED BY EACH PARTICIPANT.
- THE DECISION OF THE JUDGES WILL BE FINAL AND BINDING ON ALL ENTRANTS.
- RESULTS WILL BE ANNOUNCED ON 17TH SEPT, 2021 DURING THE ONLINE WEBINAR ONLY.

THEME  
*Celebrating*  
**MICROBES**

## DRAWING COMPETITION

**K12**





## PROGRAM DETAILS

Celebrating  
International Microorganism Day

# MICROSPHERE

An International Outreach  
Program

17th  
September,  
2021

**8:30 a.m.**  
(20 min)

**INTRODUCTORY REMARKS & OUR EFFORTS TOWARDS PROMOTING SCIENCE**  
Dr. Shailly Anand  
Department of Zoology,  
Deen Dayal Upadhyaya College (University of Delhi), Delhi  
Dr. Nirjara Singhvi  
PhilXgen Pvt. Ltd., Gurugram



**8:50 a.m.**  
(30 min)

**THEME: SCIENCE & SOCIETY**  
**HOW TO ENHANCE SCIENCE BY MAKING IT EQUITABLE & INCLUSIVE**  
Prof. Chandrasekha Singh  
Department of Physics and Astronomy  
University of Pittsburgh



**9:20 a.m.**  
(25 min)

**THEME: MICROBIAL LITERACY INITIATIVE**  
**MICROBIOME: THE GARDEN WITHIN YOU**  
Prof. Rup Lal  
NASI Senior Scientist Platform: Jodhaa Fellow  
The Energy and Resources Institute (TERI),  
New Delhi



**9:45 a.m.**  
(20 min)

**THEME: HISTORY OF MICROBES**  
**THE RISE OF THE MICROBES**  
Dr. Renu Solanki  
Department of Zoology,  
Deen Dayal Upadhyaya College  
(University of Delhi), Delhi



**10:05 a.m.**  
(25 min)

**THEME: SUSTAINABLE HOUSING**  
**TINY BIOCONTRACTORS**  
Dr. PC Ashwin Kumar  
Associate Dean - Infrastructure,  
Indian Institute of Technology Bombay (IITB),  
Bombay, Uttarakhand



**10:30 a.m.**  
(25 min)

**THEME: ENTREPRENEURSHIP IN MICROBIOLOGY**  
**TECHNOLOGY ENTREPRENEURSHIP**  
Dr. Anjad Humala  
CEO, Incubation and Innovation Centre for Entrepreneurship (ICEI),  
Indian Institute of Science Education and Research (IISER), Bhopal



**10:55 a.m.**  
(20 min)

**THEME: SUSTAINABLE DEVELOPMENT GOALS**  
**MICROBES & GLOBAL GOALS**  
Dr. Vikash Sood  
Research Associate,  
The Energy & Resources Institute (TERI),  
New Delhi



**11:15 a.m.**  
(20 min)

**THEME: CAREER OPTIONS**  
**CAREER PROSPECTS IN MICROBIOLOGY**  
Dr. Gauri Garg Dhillon  
Department of Zoology,  
Kirti Mal College (University of Delhi), Delhi  
Dr. Roshan Kumar  
PG Department of Zoology,  
Magadh University, Bodh Gaya, Bihar





**Get in touch**  
microsphere2021@gmail.com

**TEAM MICROSPHERE 2021**

Celebrating  
International Microorganism Day

# MICROSPHERE

An International Outreach  
Program

17th  
September,  
2021

**11:35 p.m.**  
(25 min)

**THEME: HANDS-ON/ DO IT YOURSELF**  
**DNA FROM YOUR KITCHEN**  
Dr. Shailly Anand  
Department of Zoology, Deen Dayal Upadhyaya College  
(University of Delhi), Delhi  
Ankita Kapil & Yogita Tomer  
(Students of Life Sciences)  
Deen Dayal Upadhyaya College  
(University of Delhi), Delhi



**12:00 noon**  
(30 min)

**THEME: MICROBIOLOGY QUIZ**  
**FOR SCHOOL & COLLEGE STUDENTS**  
Dr. Princy Hira  
PhilXgen Pvt. Ltd., Gurugram  
Dr. Jasvinder Kaur  
Department of Zoology, Garg College (University of Delhi), Delhi



**12:30 p.m.**  
(20 min)

**CLOSING REMARKS**  
Prof. Sukanya Lal &  
Dr. Charu Dogra Rawat  
Department of Zoology,  
Bansal College  
(University of Delhi), Delhi





**ORGANIZED**  
under the aegis of  
**INDIAN NETWORK FOR SOIL CONTAMINATION RESEARCH (INSR)**  
Jointly organized by  
Deen Dayal Upadhyaya College (DU),  
Garg College (DU),  
IIT Bombay,  
Kirti Mal College (DU),  
Ramjas College (DU),  
PG Dept. of Zoology (MU) &  
PhilXgen Pvt. Ltd., Gurugram  
in association with  
Acharya Nandendra Das College (DU),  
Maitreyi College (DU),  
St. Vincent's College (DU) &  
C.M.P. College (AU)



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**TEAM MICROSPHERE 2021**

## SESSION I:

### Theme: Science & Society

*“How to enhance science by making it equitable and inclusive”*

**Prof. Chandrekha Singh, Department of Physics and Astronomy, University of Pittsburgh**

**Session Coordinators:** *Dr. Princy Hira (Maitreyi College, DU) & Dr. Utkarsh Sood (TERI)*

**Student Coordinators:** *Riya (B. Sc Hons. Zoology, Sem III, DDUC)*

Chandrekha Singh is a professor in the Department of Physics and Astronomy and the Founding Director of the Discipline-based Science Education Research Center (dB-SERC) at the University of Pittsburgh. She is currently the Past President of the American Association of Physics Teachers. She obtained her B.Sc. and M.Sc. degrees from the Indian Institute of Technology Kharagpur and her Ph.D. in theoretical condensed matter physics from the University of California Santa Barbara. She was a postdoctoral fellow at the University of Illinois Urbana Champaign, before joining the University of Pittsburgh. She has been conducting research in physics education for more than two decades. She co-led the US team to the International Conference on Women in Physics in Birmingham UK in 2017. She is a Fellow of the American Physical Society, American Association for the Advancement of Science and American Association of Physics Teachers. More information about her can be found at <https://sites.google.com/site/professorsinghswebpage/>

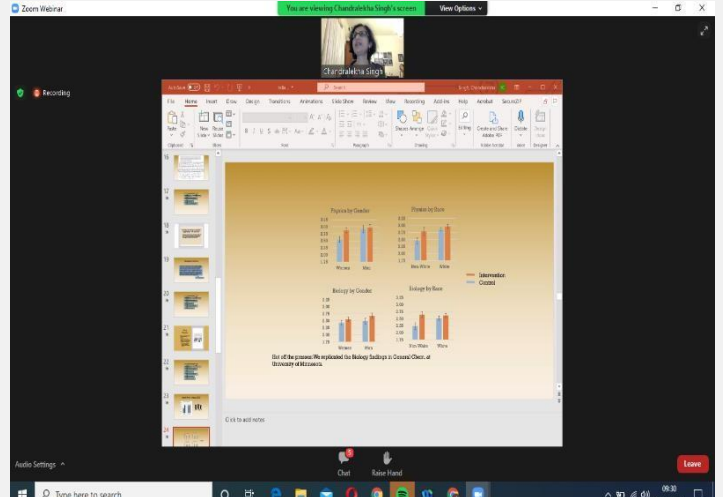
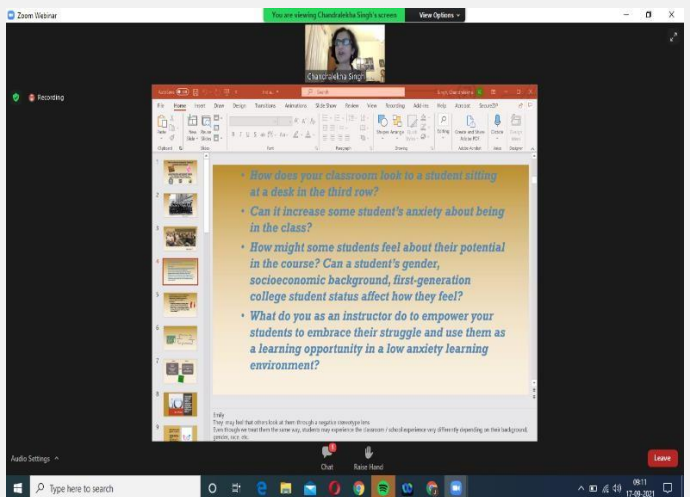
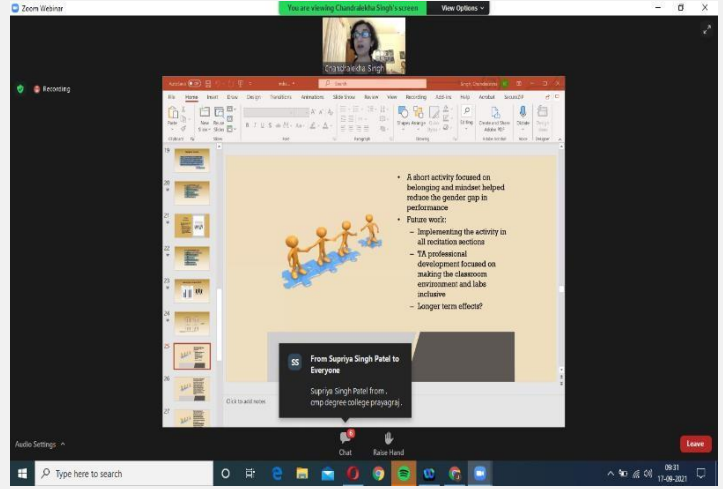
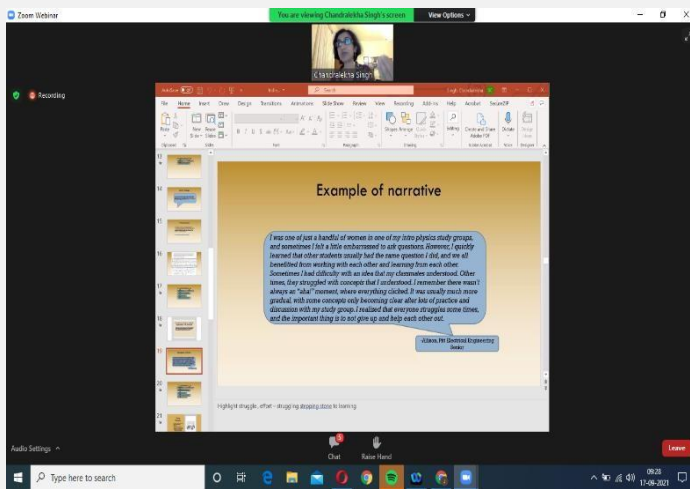
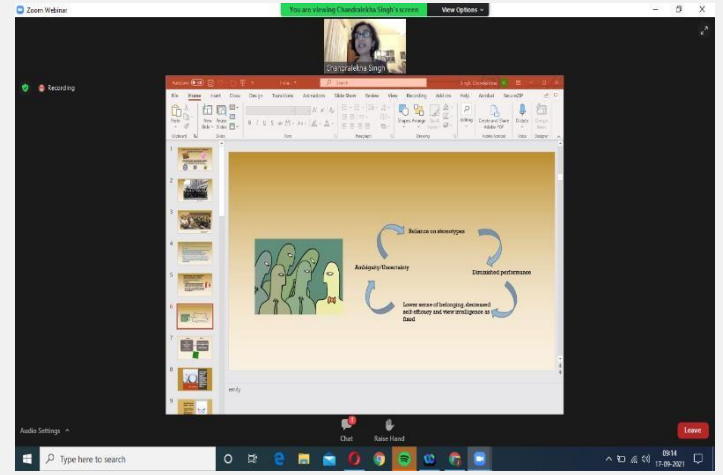
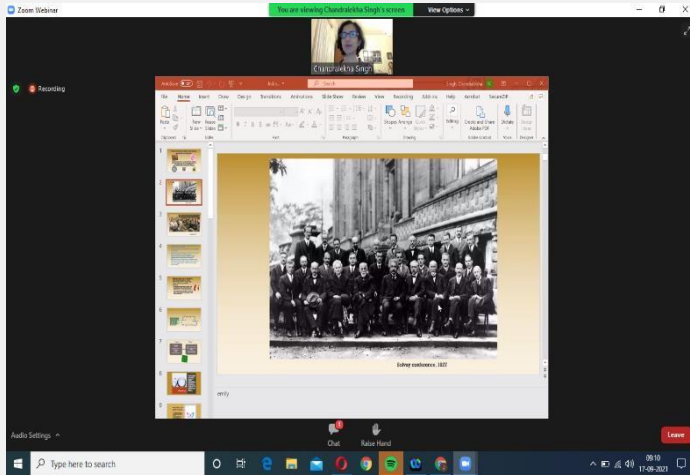
Prof. Chandrekha Singh commenced her enlightening lecture by showing a picture of Solvay conference 1927, in which there was only one woman and after that she has shown a picture of present conference, in which also there were very few women. This demonstrated that even today there is not much difference in the condition. After this, she has discussed about stereotype threat that is the fear of confronting a negative stereotype about oneself. She also discussed about a survey in which it is observed that the instructor who believe that their students are able to excel the things, are the one who actually don't believe in the minority and majority people in the class. She emphasized on the fact that the goal of a teacher should be empowering each and every student of the class, instead of giving opportunities to the people who are already privileged. After this she highlighted the point that teachers should consider themselves as coaches and think about offences along with the defences. Defense means students should feel that they belong in a particular community or classroom. They should also have identity as a person who can excel in science.

Instructors often only focus on content knowledge and skills to improve student engagement and learning in science courses. However, students' sense-of-belonging, self-efficacy and mindset can also play an important role in their engagement and success in science. For example, students' sense of belonging in a science class, their self-efficacy, and views about whether intelligence in science is “fixed” or “malleable” can affect engagement and learning. These types of concerns can especially impact the learning outcomes of women and other underrepresented students and stereotype threats can exacerbate these issues. I will discuss prior research studies that show how different types of social psychological interventions (e.g., social belonging and growth mindset) have improved the motivation and learning outcomes of all students, especially women and underrepresented minorities in science fields. We will discuss how ecological belonging interventions can be adapted and implemented in science classes to make them more equitable and inclusive. These types of

interventions are short even though they have the potential to impact student outcomes significantly—especially for underrepresented students in science classes.

She ended the session, by highlighting the importance of creating a safe environment, where all students, particularly those who are from under representative groups should also feel comfortable in participating in the community or all the activities that are conducted actively in a classroom or community. This will help to create a classroom equitable and inclusive.

An interactive question/answer session followed the lecture.





## SESSION II:

### Theme: Microbial Literacy Initiative

#### *“Microbiome: The Garden Within You”*

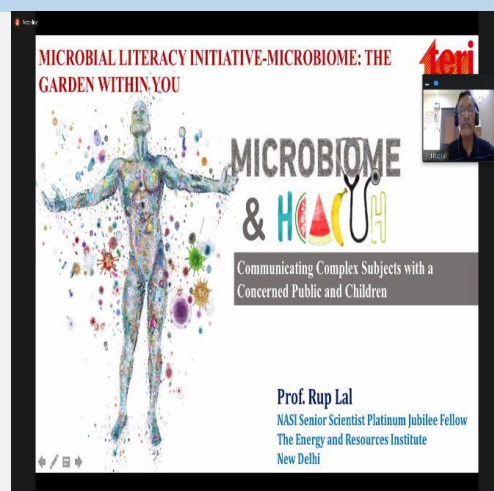
**Prof. Rup Lal, NASI Senior Scientist Platinum Jubilee Fellow, The Energy and Resources Institute (TERI), New Delhi, INDIA**

**Session Coordinators:** *Dr. Gauri Garg Dhingra (Kirori Mal College, DU) & Dr. Jaya Malhotra (Hansraj College, DU)*

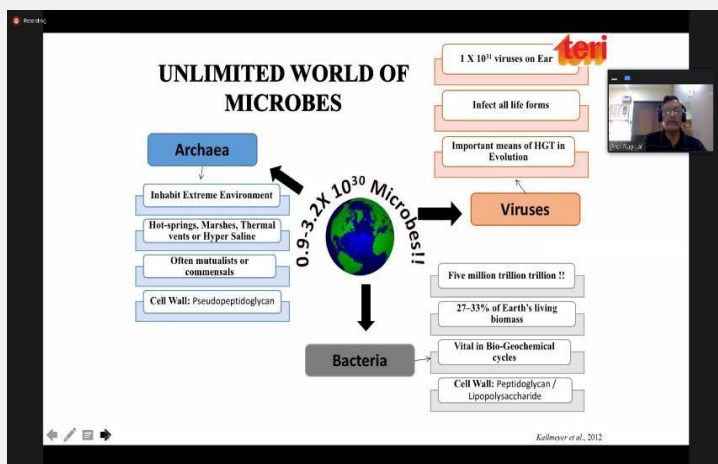
**Student Coordinators:** *Ranjita (B. Sc Hons. Zoology, Sem III, DDUC)*

Prof. Rup Lal is the NASI Senior Scientist Platinum Jubilee fellow at The Energy and Resources Institute, IHC Complex, New Delhi. He started his career as a lecturer in Sri Venkateswara College, University of Delhi and served for nearly 13 years and became Professor of Molecular Biology at the Department of Zoology, University of Delhi from where he superannuated on September 30, 2018. He has over 40 years longstanding experience in teaching, administration and research. Prof. Rup Lal specialized himself in the area of microbial diversity, genomics and metagenomics. He has extensively explored the molecular and genetic aspects of hexachlorocyclohexane (HCH) degradation, explored microbial diversity (published over more than 50 novel bacterial species), sequenced more than 30 bacterial genomes, carried out comparative genomics (more than 5 projects) and metagenome analysis (five metagenomes/microbiome). Prof. Lal was Editor-in-Chief of Indian Journal of Microbiology (2006-2013) and also serving as a member of the editorial board in various leading scientific journals like mSystems, Environmental Microbiology, Environmental Microbiology Reports, BMC Biotechnology, BMC Biochemistry, Microbial Biotechnology and many more. He has over 240 publications in peer-reviewed journals with 8224 ISI citations & h-index 46. He has delivered more than 300 lectures in the area of Biotechnology, Microbiology, Genomics, and Metagenomics at various national and international platforms. He is recipient of various prestigious awards and fellowships.

Prof. Rup Lal discussed about Microbiome and Health - Microbes like Archaea, Viruses, Bacteria, SARS-COV-2 in which he told how such invisible viruses, made up of just protein coat and a nuclei acid have the power to subvert a formidable host like a human being with the help of simple mathematics examples. Then he continued with Metagenomics (some application of modern technique to study of communities of microbial organisms), Human microbiome, what these Human Microbiome do in Our Human body, how we derived daily calories from microbial genes (Plant Carbohydrate),



How Human brain and Gut microbes are interlinked as Second brain and Virtual Endocrine Organ? He also supported his talk by a list of problems human beings faced if microbiome and human beings balance goes wrong, further he added list of good and bad bacteria with daily-life examples, he made the participants aware about FMT (Fecal Microbiota Transplantation) -therapy for gastric ailments and how we can stay healthy. He also focused on life style, food habits and drugs/antibiotics, obesity related changes supported by a good project- How to lose weight by changing the gut microbiome in this Covid -19 Lockdown? He also shared information about the outreach program that his group has been organizing since 2016 under INSA i. e BaSIC-Bani School Innovation Camp in remote /rural areas of Himachal Pradesh.

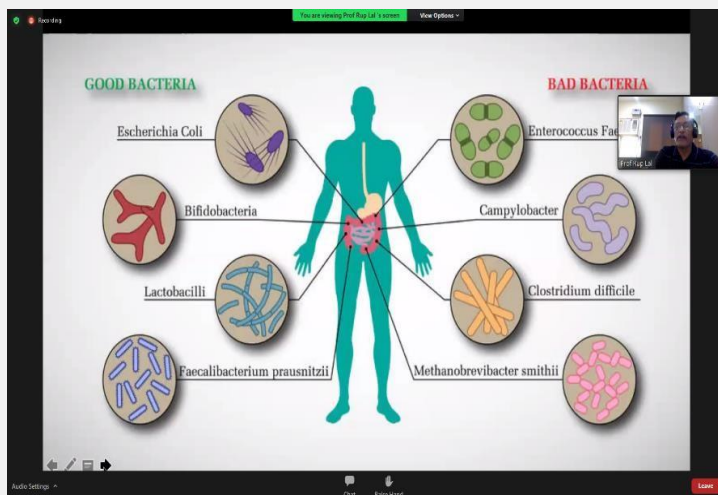


# Metagenomics

The term "metagenomics" was first used by Jo Handelsman *et al.* in 1998.

The term **metagenome** referenced the idea that a collection of genes sequenced from the environment could be analyzed in a way analogous to the study of a single genome.

Application of modern techniques to the study of communities of microbial organisms directly in their natural environments, by passing the need for isolation and lab cultivation of individual species (- Kevin Chen)



# What Happens if this Balance between Human Microbiome and human beings goes wrong?

A LENGTHENING LIST OF PROBLEMS:

1. Obesity and leanness
2. Malnutrition
3. Diabetes
4. Atherosclerosis
5. Heart Diseases
6. Multiple Sclerosis
7. Asthma
8. Eczema
9. Liver disease, bowel cancer and autism
10. Brain functioning
11. Depression
12. Blood Pressure
13. Arthritis

...List is long.....

These bugs produce molecules that help regulate several activities, if the signals go wrong it results a disease

Source:  
<http://superbugtees.blogspot.in/2008/10/superbug-gifts-for-geeks.html>

## SESSION III:

### Theme: History of Microbes

### "The Rise of the Microbes"

**Dr. Renu Solanki, Assistant Professor, Department of Zoology, Deen Dayal Upadhyaya College (University of Delhi), Delhi, INDIA**

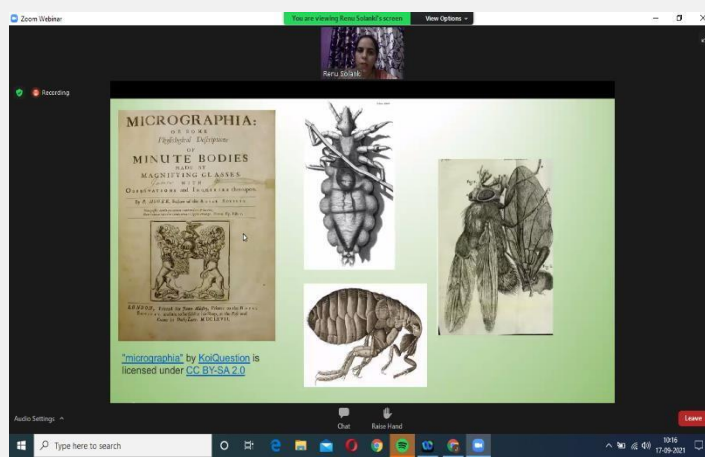
**Session Coordinators: Dr. Ajaib Singh & Dr. Mansi Verma (Sri Venkateswara College, DU)**

**Student Coordinators: Shubham Saini (B. Sc Hons. Zoology, Sem V, DDUC)**

An accomplished scientist with more than ten years of experience leading and coordinating preclinical research and development, drug discovery programmes, and clinical trials aimed at identifying novel therapeutic options and individualised cancer treatment. Alumnus of the Indian Institute of Technology (IIT) and ICGEB Delhi, he completed his postdoctoral studies at Harvard Medical School. Effective and confident science communicator, as well as a strong builder of fruitful alliances that result in long-term research initiatives and profitable start-ups. Dr. Husain is a TEDx speaker and is Passionate about entrepreneurship, traveling and teaching.

The session started by giving the general outlook of work and specializations of the speaker. The speaker began by describing main objectives of her talk i.e., discoveries and inventions in the field of microbiology along with the contributions of the various eminent scientists in the following domain. Dr. Solanki explained the discovery of animalcules by Anton Von Leeuwenhoek and discovery of cell by Robert Hooke. She further explicated about the discovery of the first vaccine by Edward Jenner and discovery of the first antibiotic (penicillin) by Alexander Fleming. Lastly, she ended her talk by talking about Louis Pasteur and his experiment.

After this knowledgeable session all the attendees were aware about the various aspects of the discoveries in the domain of microbiology. At the end, a ‘Question and Answer’ round was conducted where students asked several insightful questions. The session received positive feedback from participants.



## SESSION IV:

### Theme: Sustainable Housing

#### *“Microbes & Sustainable Housing”*

**Dr. P. C. Ashwin Kumar, Associate Dean – Infrastructure, Indian Institute of Technology Roorkee, Roorkee INDIA**

**Session Coordinators:** Dr. Anjali Saxena (Bhaskaracharya College of Applied Sciences, DU)

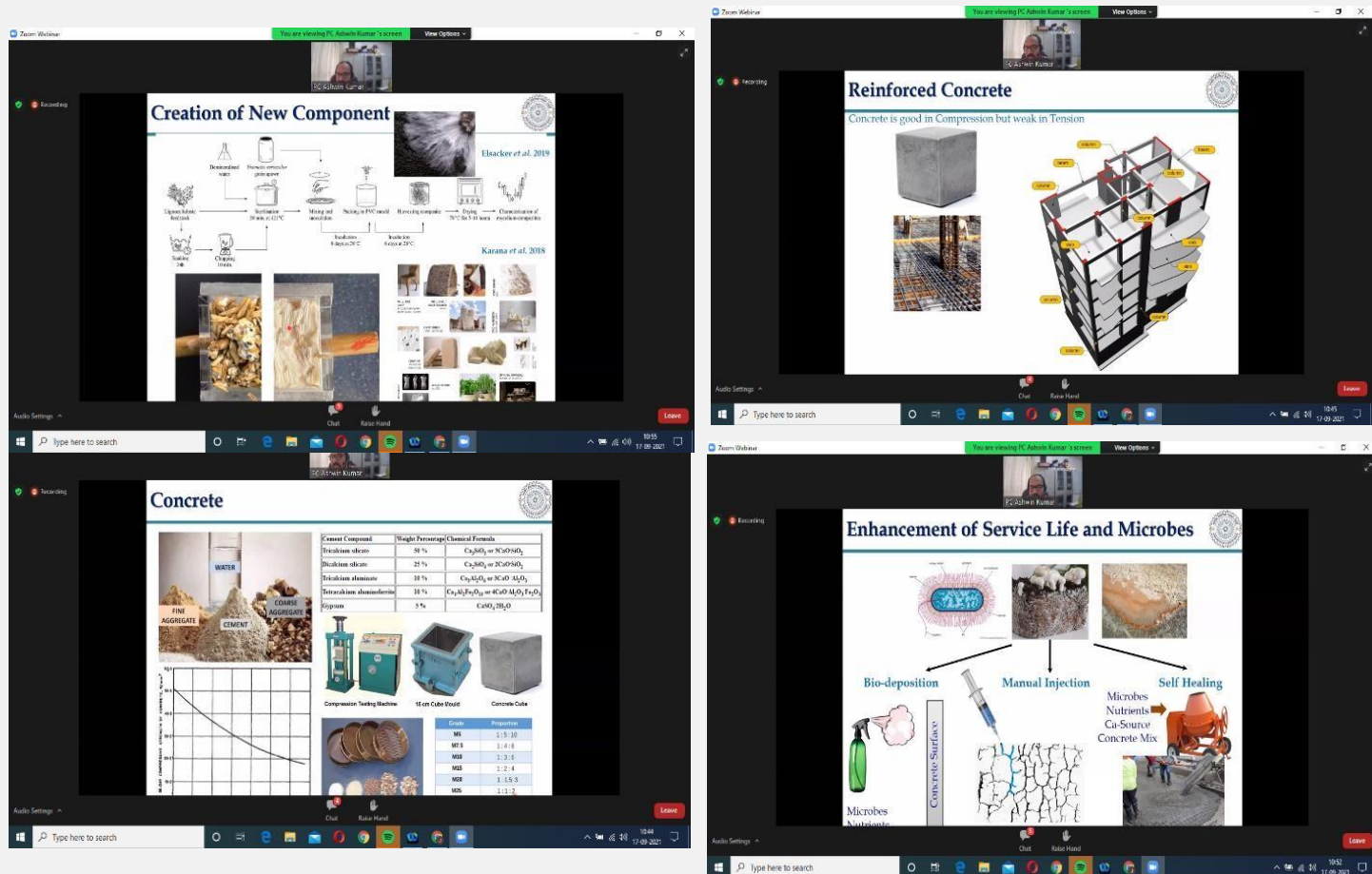
**Student Coordinators:** Riya Sharma (B. Sc Hons. Zoology, Sem III, DDUC)



Dr. Anjali Saxena (BCAS, DU) introduced the guest speaker, Dr. P.C. Ashwin Kumar who is currently the Associate Dean (Infrastructure) at IIT, Roorkee and working as an Assistant Professor in the Department of Earthquake Engineering.

Dr. Ashwin enlightened everyone on the topic “Tiny Contractors for Sustainable Infrastructure”. He elucidated about how the microbes contribute towards constructing a sustainable infrastructure. A brief demonstration was also given with respect to the importance of microbes in the process of construction done in India like concrete composition, cement manufacturing and the reinforced concrete. In the end, he concluded by pointing at the problems to be taken care of beforehand in construction.

The students were delighted after knowing a different aspect of microbiology in the field of construction.



## SESSION V:

### Theme: Entrepreneurship in Microbiology

#### *“Technology Entrepreneurship”*

**Dr. Amjad Husain, CEO, Innovation and Incubation Centre for Entrepreneurship (IICE), Indian Institute of Science Education and Research (IISER), Bhopal, INDIA**

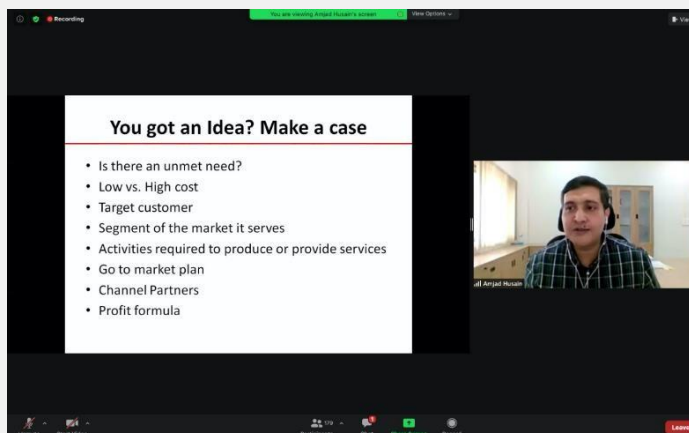
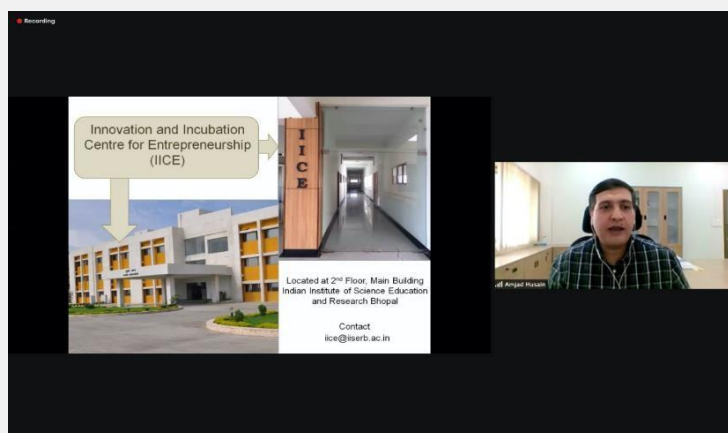
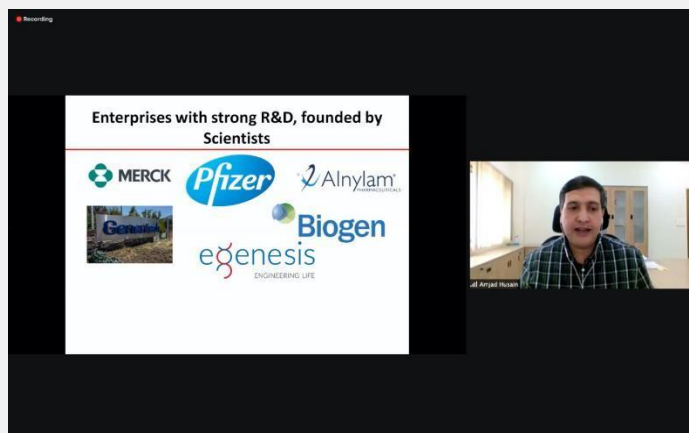
**Session Coordinators: Dr. Jasvinder Kaur (Gargi College, DU) & Dr. Nirjara Singhvi (PhiXgen Pvt. Ltd., Gurugram)**

**Student Coordinators: Ankush (B. Sc Hons. Zoology, Sem III, DDUC)**



An accomplished scientist with more than ten years of experience leading and coordinating preclinical research and development, drug discovery programmes, and clinical trials aimed at identifying novel therapeutic options and individualised cancer treatment. Alumnus of the Indian Institute of Technology (IIT) and ICGEB Delhi, he completed his postdoctoral studies at Harvard Medical School. Effective and confident science communicator, as well as a strong builder of fruitful alliances that result in long-term research initiatives and profitable start-ups. Dr. Husain is a TEDx speaker and is Passionate about entrepreneurship, traveling and teaching.

At Microsphere, Dr. Hussain discussed the potential that IISERB offers students in science education, cutting-edge research, and entrepreneurship, as well as how IISERB contributes to social growth. Students and faculty members benefited from this session because they learned about the support and benefits of an incubation centre or accelerator for a company.



## SESSION VI:

**Theme: Sustainable Development Goals**

*“Microbes & Global Goals”*

**Dr. Utkarsh Sood, PhiXgen Pvt. Ltd., Gurugram, INDIA**

Session Coordinators: **Dr. Priya Singh (Maitreyi College, DU) & Dr. Roshan Kumar (PG Dept. of Zoology, Magadh University)**

**Student Coordinators:** *Shruti Aggrawal and Tushant Singh Saini (B. Sc Hons. Zoology, Sem III, DDUC)*

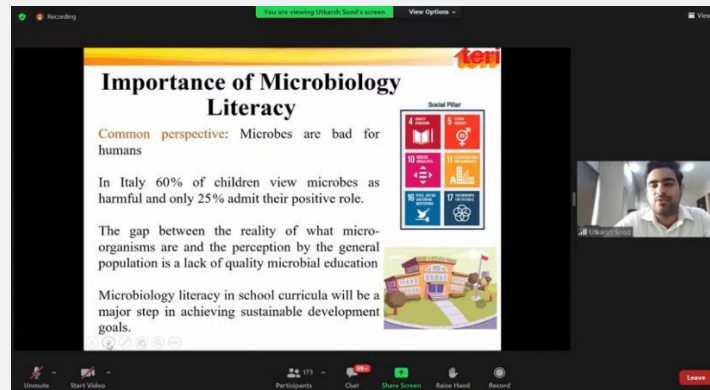
Dr. Utkarsh Sood is working as Research Associate at The Energy and Resources Institute, New Delhi. He is the Director and Co-Founder of PhiXGen Pvt. Ltd. He completed his graduation from Hansraj College and did his Master's in Zoology from the Department of Zoology, University of Delhi. Thereafter, during his doctoral research, he worked on the complete and comparative genomic analysis of clinical and nonclinical isolates of *Pseudomonas aeruginosa*. He was awarded the Ph.D. degree by University of Delhi in November 2018. He is a young researcher with 25 publications including peer-reviewed research, review articles, and book chapters. He has recently contributed 2 genus chapters in the prestigious Bergey's Manual of Systematics of Archaea and Bacteria. He is now enthusiastically working in the field of comparative genomics, microbiome studies, and secondary metabolites of bacteria.

In Microsphere 2021, Dr. Sood familiarized the participants with role of microbiology in attaining the sustainable development goals as set by United Nations and its member countries through his lecture titled “Microbes and Sustainable Goals”.

He emphasized the role of three pillars in attaining SDGs viz. Economics, Environment and Society. All these pillars are based on microbes in one or the other way. To start he stated that increasing AMR and poor hygiene are burden on economy as they result in high medical expenses and poor man power output. The environment is under very high impact of the microbes as they are the last trophic level returning back all the nutrients to their respective biogeochemical cycles and that's the reason, they are used for waste management and obtaining clean energy. These are very important for UN's SDG's.

Lastly, he emphasized the importance of Microbiology literacy among the society as a whole as it is going to help in attaining all other goals. If people know importance of microbes, difference between good and bad microbes then they can act better. An informed citizen is an asset to the country, a boon to the environment and blessing to the economy.





## SESSION VII:

### Theme: Career Options

#### *“Microbiology as a Career Prospect”*

**Dr. Gauri Garg Dhingra, Department of Zoology, Kirori Mal College (University of Delhi), Delhi,**

**INDIA Dr. Roshan Kumar, PG Department of Zoology, Magadh University, Bodhgaya, INDIA**

**Session Coordinators:** *Dr. Nitish Kumar Tripathi (Deen Dayal Upadhyaya College, DU) & Dr. Charu Tripathi (CMP College, Allahabad University)*

**Student Coordinators:** *Deepalaxmi Brahma (B. Sc Hons. Zoology, Sem III, DDUC)*

Dr. Gauri Garg Dhingra is currently working as Associate Professor at Department of Zoology, Kirorimal College, University of Delhi and has more than 15 years of teaching experience at undergraduate level. S he has completed her graduation from S ri Venkateswara College then did B.Ed. from CIE, University of Delhi. S he has done MS c and PhD from Department of Zoology, University of Delhi. During her doctoral work, she has extensively worked on genetic manipulations of Rifamycin Gene Cluster in Amycolatopiss mediterranei. S he has also worked as Post-doctoral fellow at Department of Zoology, University of Delhi. S he has many publications in peer reviewed journal in her credit and also has organized various workshops, conferences and courses at national and international level.

Dr. Roshan Kumar is a native of Bihar. He obtained his B.Sc. (H) (2007-10) and M.Sc. (2010- 12) degree in Zoology from the University of Delhi. He did his Ph.D. under the supervision of Prof. Rup Lal, Department of Zoology, DU in the year 2016. During his Ph.D., he was a visiting researcher at Helmholtz Centre for Environmental Research, Leipzig, Germany. After his Ph.D., he worked as a research associate (2017-18) at Centre for Environment Management of Degraded Ecosystem, University of Delhi. Thereafter, he worked as a Land O'lakes PostDoctoral Fellow (2018-19) at the Department of Veterinary and Biomedical Sciences, South Dakota S tate University, SD, USA. Currently, he is working as Assistant Professor (September, 2019 onwards) at the Post Graduate Department of Zoology, Magadh University, Bodh Gaya, Bihar. His work mainly focusses on genomic and metagenomics uncovering the environmental and gut ecological aspects of microbiology. S o far, he has more than 30 research /review publications and one book in his credit.

The talk entitled **“Career prospects in Microbiology”** started with the introduction and warm welcome of speakers Dr. Gauri Garg Dhingra and Dr. Roshan Kumar by the session coordinator, Dr. Nitish K. Mahato, Assistant Professor, Deen Dayal Upadhyaya College, University of Delhi.

Both the orators brought into the light the various career opportunities after school especially if someone wants to pursue career in Biology and Microbiology. Dr. Roshan talked about biology and its interdisciplinary subjects and then shed light on options available after selecting Physics, Chemistry and Biology at higher secondary level. Dr. Gauri told how to become a microbiologist and various streams available in Microbiology that one can opt for career. They also shared the list of institutions offering Microbiology as a course at undergraduate and postgraduate levels.

The talk came to an end with an interactive question answer session coordinated by Session coordinator Dr. Charu Tripathi, Assistant Professor, CMP Degree College, Allahabad University in which both the speakers patiently addressed all the questions asked by the participants. Some students were inquisitive about the fields like clinical microbiology and biomedical sciences, whereas others inquired about the process of getting into Ph.D. A few students asked about research internships in microbiology. Most of the students asking question belonged to school and under-graduate level and therefore were also concerned about missing out on wet-lab experiments due to the lockdown situation. A vote of thanks was delivered to the speakers by Dr. Charu Tripathi.

Overall, this talk was very much appreciated by the young students and other participants.

The collage consists of six screenshots from a virtual seminar:

- Top Left:** A presentation slide titled "CAREER PROSPECTS IN MICROBIOLOGY" by Gauri Garg Dhingra and Roshan Kumar. It features logos of various institutions and a central image of a person in a lab coat.
- Top Right:** A presentation slide titled "Career Options After 10th" showing a person at a crossroads with arrows pointing to Science, Maths Biology, Commerce, Arts, Vocational, and Job.
- Middle Left:** A presentation slide titled "PATH TO BECOME A MICROBIOLOGIST" showing four career paths: 12<sup>th</sup> BIOLOGY → B.Sc Hons Microbiology → M.Sc. Microbiology → Ph.D; 12<sup>th</sup> BIOLOGY → B.Sc (any Biological science) → M.Sc. Microbiology → Ph.D; 12<sup>th</sup> BIOLOGY → B.Sc Hons Microbiology → PG Diploma Microbiology; and 12<sup>th</sup> BIOLOGY → MBBS → MD Microbiology.
- Middle Right:** A presentation slide titled "INSTITUTIONS OFFERING B.SC. COURSE IN MICROBIOLOGY" listing various colleges and universities such as Gargi College, Shaheed Rajguru College, The Oxford College, etc.
- Bottom Left:** A screenshot of a Q&A session with two speakers, Gauri Garg Dhingra and Roshan Kumar, in front of a "MICROSPHERE 2021: INTERNATIONAL MICROORGANISM DAY" background.
- Bottom Right:** A presentation slide featuring a cartoon of a person at a microscope, a diagram of a cell, and a photo of a person in a lab coat.



## SESSION VIII:

### Theme: Hands-On/ Do It Yourself

*“DNA from your kitchen” (A hands-on experience)*

**Dr. Shailly Anand, Department of Zoology, Deen Dayal Upadhyaya College (University of Delhi), Delhi,**

**INDIA Session Coordinator: Dr. Renu Solanki (Deen Dayal Upadhyaya College, DU)**

**Student Coordinators: Ankita Kapil & Yogita Tomer (B. Sc Life Sciences, Sem V, DDUC)**

Dr. Shailly Anand (shailly.anand@gmail.com) is currently working as an Assistant Professor in the Department of Zoology at Deen Dayal Upadhyaya College, University of Delhi since 2012. She completed her graduation from Ramjas College, University of Delhi in 2006 and M. Sc Zoology from Department of Zoology, University of Delhi in 2008. She was a meritorious student and secured first position in college throughout her graduation and post-graduation. During her doctoral thesis, she worked on bacterial Genome Sequencing, assembly and annotations.

She specializes in the field of Cell & Molecular Biology. In appreciation of being the university rank holder, she was awarded the University Teaching Assistantship for a period of 4 years from 2008 to 2012 in the Department of Zoology, University of Delhi along with her Ph.D. coursework. She has 14 research papers and articles in peer reviewed National and International Journals of repute to her credit. She has also contributed 11 e-chapters in Biotechnology and Molecular Biology under the MHRD Project National Mission on Education through ICT of the Institute of Lifelong Learning, University of Delhi. She has participated and presented in several National and International Conferences/ Symposia/ Workshops etc. Her current research work is in the field of metagenomics and molecular microbiology. Additionally, she has been actively involved in conducting & organizing several workshops/ training programs/ summer camps for the students and also Faculty Development Programs for the teachers. Since 2018, she has been organizing rural Outreach Programs at Bani (Bani School Innovation Camp, BaSIC) and Biar (Biar Initiative: A School Outreach Program for Enrichment, BIPSC OPE) villages in the interiors of Hamirpur District of Himachal Pradesh in association with Prof. Rup Lal (NASISenior Scientist Platinum Jubilee Fellow at The Energy and Resources Institute, New Delhi). She also holds several academic positions within her institution).

An amazing do it yourself session was organised by Dr. Shailly Anand along with her two undergraduate students Ankita and Yogita.

This hands on session was done with the aim to extract DNA from bananas or any plant source available to all. This experiment was made easy by using all household materials. All the students were curious to see how extraction takes place. Most of the attendees performed the experiment along with the coordinators.

At last the hands-on session was appreciated by all the attendees and also students gained knowledge about Dna and how to extract it from different sources.



## SESSION IX:

### Theme: Quiz

#### *“Microbiology Quiz for School and College Students”*

**Dr. Princy Hira, Department of Zoology, Maitreyi College, University of Delhi, Delhi, INDIA**

**Session Coordinators:** *Dr. Jasvinder Kaur (Gargi College, DU) & Dr. Jaspreet Kaur (Maitreyi College, DU)*

**Student Coordinators:** *Jyoti (B. Sc Hons. Zoology, Sem III, DDUC)*

Dr. Princy Hira is working as Research Associate in PhixGen Pvt. Ltd. She has also been teaching as a Guest Lecturer in University of Delhi since 2018. Academically, she has been the recipient of University Gold medals at both the undergraduate and post-graduate levels. She completed her graduation from Sri Venkateshwara College and did her Master's in Zoology from the Department of Zoology, University of Delhi. Thereafter, she did Ph. D. under the supervision of Prof. Mallikarjun Shakarad and Prof. Rup Lal. During her doctoral research, she worked on the complete and comparative genomic analysis of plant growth-promoting microorganisms. She has been actively involved in organizing several computational biology workshops, conferences, and symposiums in collaboration with AMI-IS ME-INSCR societies and various institutes. She has also worked in collaboration with many institutes to promote microbial literacy to society by conducting various outreach programs.

Two quizzes were conducted for the school and college students having different difficulty levels by Dr. Princy Hira, PhiXgen Pvt. Ltd., Gurugram and Dr. Jasvinder Kaur, Department of Zoology, Gargi College, University of Delhi.

A whooping response was shown by the students for the



quiz. The college winners of the quiz were:

- Ms. Harshita Raj (kirori Mal college)
- Mr. Harsh Garg (kirori Mal college)
- Ms. Anisha Raj (Miranda House)
- Ms. Ishita Debnath (Gargi

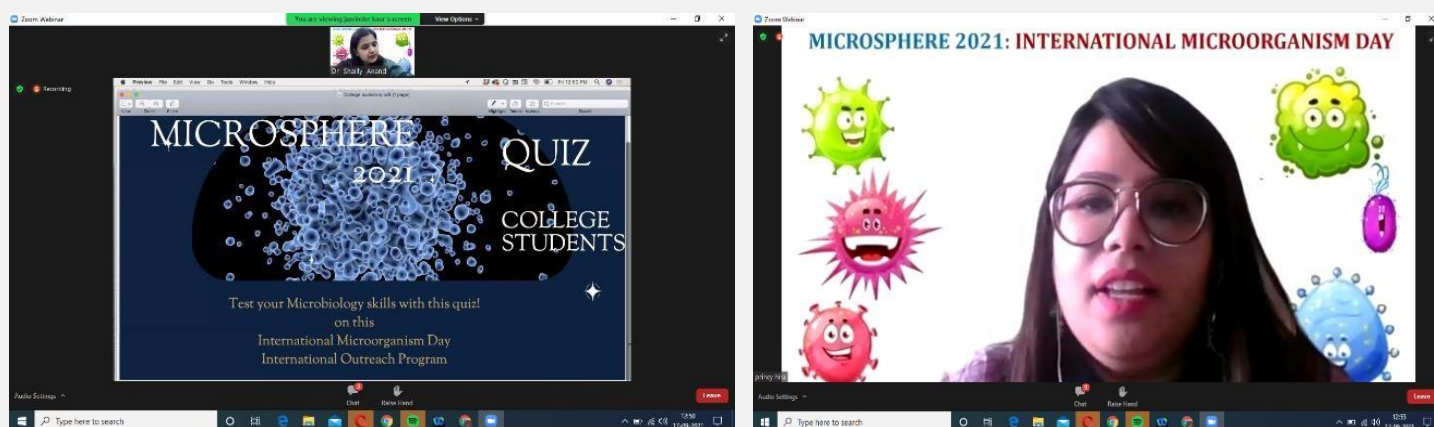
College) The school winners of the quiz

were:

- Ms. Shakshi Verma (Army School, Jammu)
- MS. Jahnvi Gupta (Maxfort School, Rohini)
- MS. Natasha (K.R. Mangalam World School, South City)
- Ms. Bhavya Gopakumar (Mary Nilayam Senior Secondary

School) The winners were announced at the end of program.

This quiz left the participants with curiosity to know more about microorganism and with great knowledge.



## VALEDICTORY:

**Prof. Sukanya Lal & Dr. Charu Dogra Rawat, Department of Zoology, Ramjas College, University of Delhi, Delhi,**

**INDIA and**

**Dr. Jasvinder Kaur, Department of Zoology, Gargi College, University of Delhi, Delhi, INDIA New Delhi,**

**INDIA Session Coordinators: Dr. Kiran Bala (Deshbandhu College, DU)**

**Student Coordinators: Sahil Khurana & Shashikant (B. Sc Life Sciences, Sem V, DDUC)**

Prof. Sukayana Lal was invited for giving the closing remarks to the participants and conclude the event with thanks. She paid thanks and highlighted how the participants were enlightened by the motivating and informative talks of dignitaries who spared their valuable time in this programme entitled 'Microsphere'. She narrated how we all are living in the Megasphere where different types of microbes, plants and animals are interacting for their survival. She also said that microbes have important role in biodegradation, bio-stimulation,

cleaning water bodies & maintaining good health. Microbes have benefitted health care system by providing antibiotics, vaccines etc. which are either the derivatives of the metabolic cycles of microbes or are the attenuated microbes. Earlier, it was emphasised to protect plants and animals but now in this pandemic period, which is caused by deadly SARS -Cov-2 or Corona virus, has made us realise that how important these microbes are?

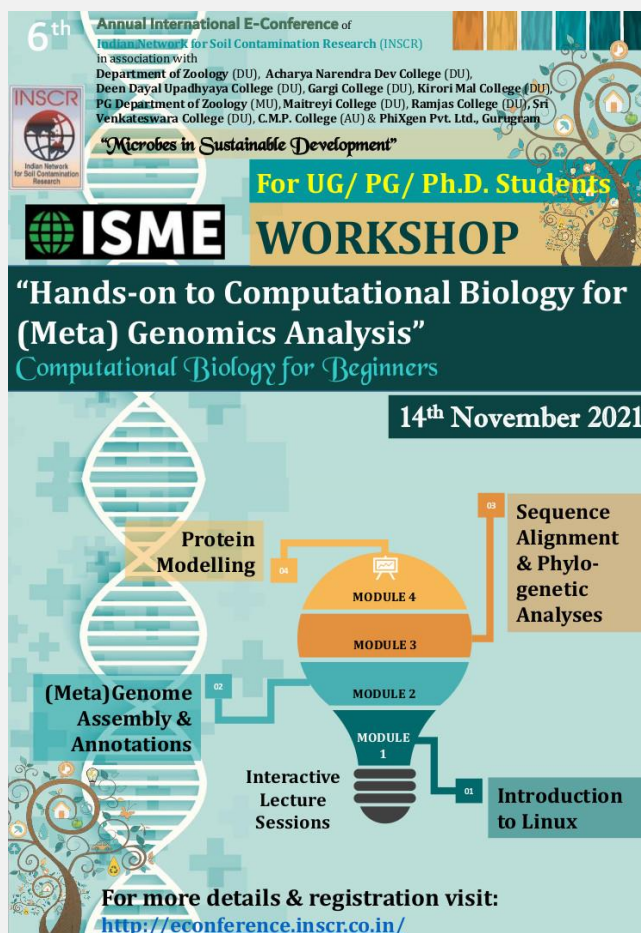
Recently, as we know that corona pandemic has caused havoc the world over and problem still continues. This has further brought Microbiology in the forefront and also increased our responsibility to take up Microbiology literacy mission on war footing. This outreach program was one such step in this direction. This program acquires more significance because 17 September 2021 is celebrated as International Microorganism day. She congratulated all the organizers to put up this well structured programme in place in a short time and requested them to continue this Microbial literacy mission in near future to help mankind.

Thereafter, Dr. Charu Dogra (Associate Professor, Ramjas College, University of Delhi) was invited to officially conclude the event.

Following this, Dr. Jasvinder Kaur (Assistant Professor, Gargi College, University of Delhi) finally ended the program with a brief summary of all the sessions held and the announcement of quiz winners. She started with the famous quote of Confucius “Tell me and I forget, Teach me and I may remember involve me and I learn” and highlighted the essence of effective dissemination of knowledge i.e. emphasizing on inclusion of activity-based learning and principality apply what one has learnt to solve real-world problems. She emphasized how microorganisms are already ubiquitously integrated and what is needed to be integrated is the microbial awareness, literacy and utilization in our lives. Be it in curriculum, teaching methodologies, lifestyle or career. On international Microorganism Day 2021, Microsphere 2021 organized under the umbrella of INSCR has just tried to embark in that direction. Microorganisms are no longer just a bio resource for laboratory research but increasingly becoming more and more centre of almost everything - can we forget how a single virus has changed the face of the world. The program witnessed this by exploring the role of microorganisms as tiny contractors in lecture by Dr. Ashwin Kumar or significant roles they play in attaining various Sustainable Development Goals delivered by Dr Utkarsh Sood. Microorganism research has also opened up many avenues for setting up or working in science-based companies as emphatically outlined by Dr. Amjad. Requirement is the identification of a role of commercial importance. Practical approach to learning was exemplified by very well presented hands-on activity by the students which must have ignited the spark to learn microbiology as well as brought to the forefront how easily and with minimal, readily available things, one can witness the fascinating aspects of science. Through session on careers in microbiology, Dr. Gauri and Dr. Roshan tried to remove cobwebs, clear blurry vision and laid open various paths. She assured the participants would have ticked the brain cells with a dash of microbial knowledge and understanding. Through a plethora of in-house activities and outreach programs, under the able guidance of exemplary visionary Prof. Rup Lal the team aims to ‘Make the invisible - VISIBLE’ by tweaking the teaching - learning process of microbiology. She finally thanked everyone for being a part of this enriching experience.



## 88. Workshop on Computational Biology for Metagenomics



### Report:

An Intercollege workshop was organised on November 14, 2021 for undergraduate, postgraduate and Research scholars under the aegis of INSCR and ISME. The students were introduced for the following four modules through interactive lecture sessions:

- **Module I:** Introduction to Linux
- **Module II:** Metagenome assembly and Annotations
- **Module III:** Sequence Alignment and Phylogenetic analysis
- **Module IV:** Protein Modelling

The workshop benefitted the students as they could learn Basics of Computational Biology.

## 89. Workshop on “Art of Scientific Writing and Communication”



**6<sup>th</sup>**  
**Annual International E-Conference of**  
**Indian Network for Soil Contamination Research (INSCR)**  
in association with  
Department of Zoology (DU), Acharya Narendra Dev College (DU),  
Deen Dayal Upadhyaya College (DU), Gargi College (DU), Kirori Mal College (DU),  
PG Department of Zoology (MU), Maitreyi College (DU), Ramjas College (DU),  
Sri Venkateswara College (DU), C.M.P. College (AU) & PhiXgen Pvt. Ltd.

**“Microbes in Sustainable Development”**  
**15<sup>th</sup> November 2021**

**WORKSHOP**  
**“Art of Scientific Writing and Communication”**

**Components of Manuscript**  
Where to begin and Where to end

**Framing a rebuttal letter**  
**Targeting a specific journal**

**Plagiarism**

The art of scientific writing is essential for effective content development. The clarity of concept along with the precise use of words/phrases are required to communicate research with the scientific fraternity. This session aims to target the aspiring students and researchers from India to improve their scientific writing techniques by adhering to accurate expression and clarity of concept. The purpose of this workshop is to alleviate the mystique impact of art of scientific writing and communication.

**For more details & registration visit:**  
<http://econference.inscr.co.in/>

### Report:

An Intercollege workshop was organised on November 15, 2021 for undergraduate, postgraduate and Research scholars under the aegis of INSCR and ISME in which students were enlightened to improve their scientific writing skills by adhering to accurate expression and clarity of the concept. Prof Ruplal was the resource person.

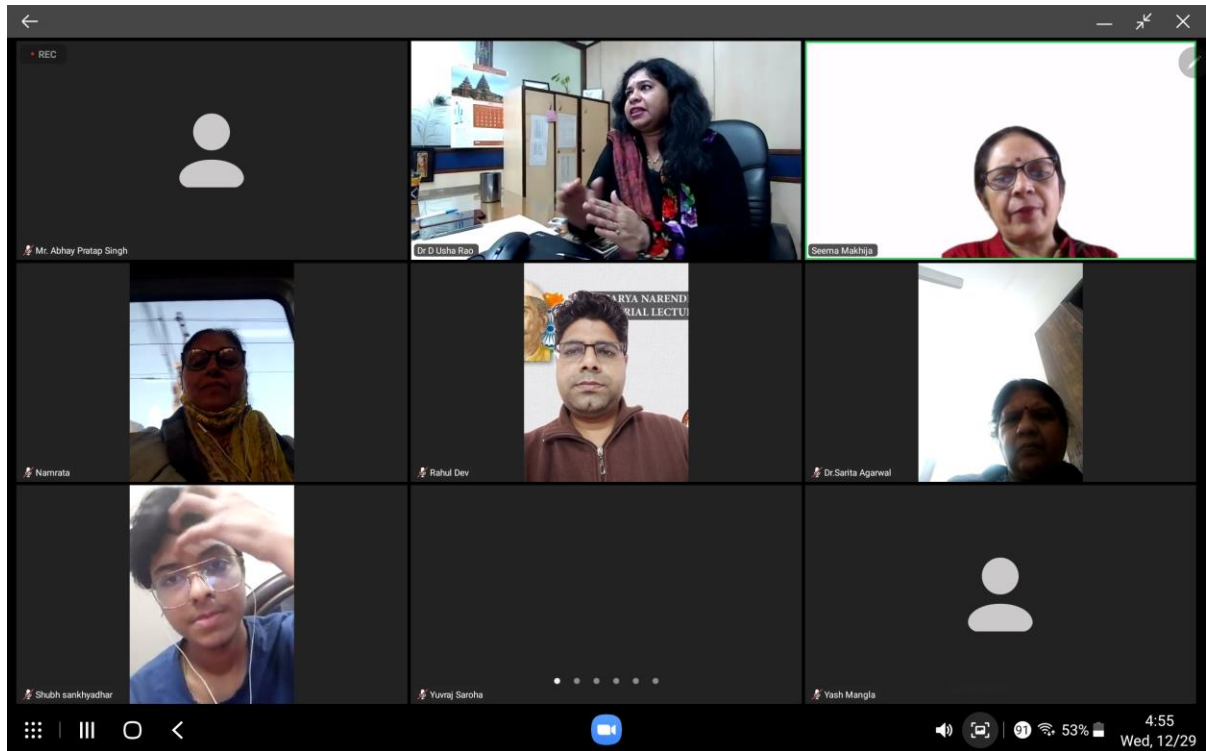
## **90. IPR Awareness Training Program**

### **Report:**

An **IPR Awareness/Training Program** was organized on December 29, 2021 under the National Intellectual Property Awareness Mission by the Intellectual Property Office, India. The event was organized in online mode by the Department of Zoology, The speaker for the program was Dr Usha Rao Assistant Controller of Patents and Designs Intellectual Property Office.

Dr. Usha Rao conducted a talk on Intellectual Property Rights (IPR) Awareness Program, which was insightful and informative. The talk was held to educate individuals about the importance of protecting their intellectual property and to raise awareness of the legal framework and processes related to IPR. During the talk, Dr. Usha Rao emphasized the significance of IPR protection for individuals and organizations to safeguard their innovations, creations, and ideas from infringement by others. She explained how IPR includes patents, trademarks, copyrights, and trade secrets, which offer exclusive rights to the owners over their intellectual property. Furthermore, Dr. Rao discussed the various legal procedures involved in obtaining and enforcing IPR. She explained the importance of conducting a thorough search to ensure that the idea is unique and not infringing on any existing IP rights. Dr. Rao also provided examples of the various steps involved in the patent application process, including drafting and filing the application, prosecution, and maintenance. Additionally, Dr. Rao highlighted the significance of IP protection in the digital age, where IP infringement is prevalent due to the ease of digital copying and dissemination. She stressed the importance of cybersecurity measures to protect IP and discussed how digital watermarking can help in identifying the origin of digital copies.

In conclusion, Dr. Usha Rao's talk on IPR Awareness Program was insightful and informative. It provided a comprehensive overview of the legal framework and processes related to IPR and highlighted the importance of protecting intellectual property in the digital age. Overall, the talk was an excellent initiative to raise awareness of IPR among individuals and organizations.





**91. Workshop on "Initiating Virtual labs @ ANDC"**



 **ACHARYA NARENDRA DEV COLLEGE**  
**UNIVERSITY OF DELHI**  
DBT STAR COLLEGE  
ACCREDITED 'A' GRADE BY NAAC/ ALL INDIA NIRF 2020 RANKING-18  
Under the aegis of IQAC & DBT STAR College Scheme

**Workshop**  
on  
**"Initiating Virtual Labs @ ANDC"**  
in collaboration with  
  
**Indian Institute of Technology-Delhi**

August 24, 2021  
04:00 to 05:30 pm  
Register at : <https://forms.gle/dXJb4Fh6Uzeuhk3f7>

 Patron  
Prof. Ravi Toteja  
(Officiating Principal)

Dr. Sumit Sahni  
Department of Botany  
(Nodal Coordinator)

Dr. Vineet Kumar Singh  
Department of Botany  
(Nodal Co-coordinator)

**Resource Persons:** Prateek Sharma (9873266626) and Tanmay Das (9891646324)

**Report:**

Workshop on "**Initiating Virtual labs @ ANDC**" was organized on August 24, 2021 in collaboration with IIT Delhi. The workshop was very well attended by faculty and students of ANDC where IIT Delhi agreed to make ANDC as Nodal Center for Virtual Labs. **Virtual lab (V-lab)** was set up at ANDC to provide remote access of various labs to the undergraduate science students through internet under the aegis of DBT-STAR scheme. The V-Lab@ANDC is being coordinated by Prof. Seema Makhija, Dr. Sumit Sahni and Dr. Vineet Kumar Singh. Acharya Narendra Dev College is the first college in the University of Delhi to start V-Lab at its campus.

Acharya Narendra Dev College conceptualized the idea of Virtual lab (V-Lab) to provide remote access of various labs to the undergraduate science students through the internet, and thus became the first college in the University of Delhi to start V-Lab at its campus. Virtual lab allows the student to understand, learn and perform the practical on their own remotely with a click of the mouse. It provides a complete Learning Management System (LMS) where students can avail the various learning, including additional web-resources, video-lectures, animated demonstrations and self-evaluation. Web enabled experiments have been designed for remote operation and viewing so as to enthuse the curiosity and innovation into students. This would help them in learning basic and advanced concepts through remote experimentation.

The course structure of various labs and experiments available on V-Lab@ANDC is futuristic, following a four quadrant model for e-content, and is developed considering the National Education Policy (NEP)-2020. V-Lab@ANDC website is created and maintained by our own students for four domains i.e. Biological Science, Chemical Science, Electronics and Physical Science which include seven departments i.e. Biomedical Science, Botany, Chemistry, Computer Science, Electronics, Physics and Zoology.

Although the V-Lab@ANDC was initiated to tackle the COVID related problems in teaching and learning process but is not confined to it. Students now can perform their experiments 24 X 7, on even sophisticated and expensive instruments, multiple times and at their ease

without wasting the resources and can even generate the measured data for at least a few experiments.

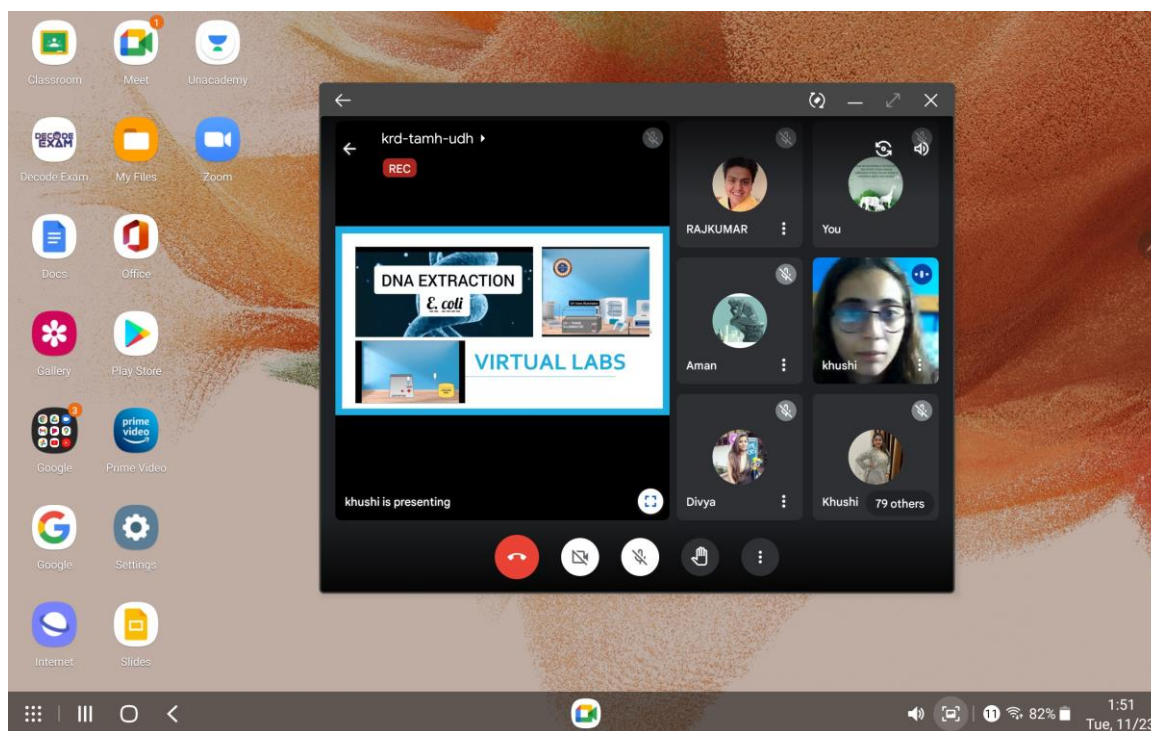
Through V-Lab@ANDC we are proving the ideology of our college 'Preparing for the future' by exploring and innovating 'Beyond the classroom' or rather 'Beyond the Practical Lab'. The lab is developed under four domains:

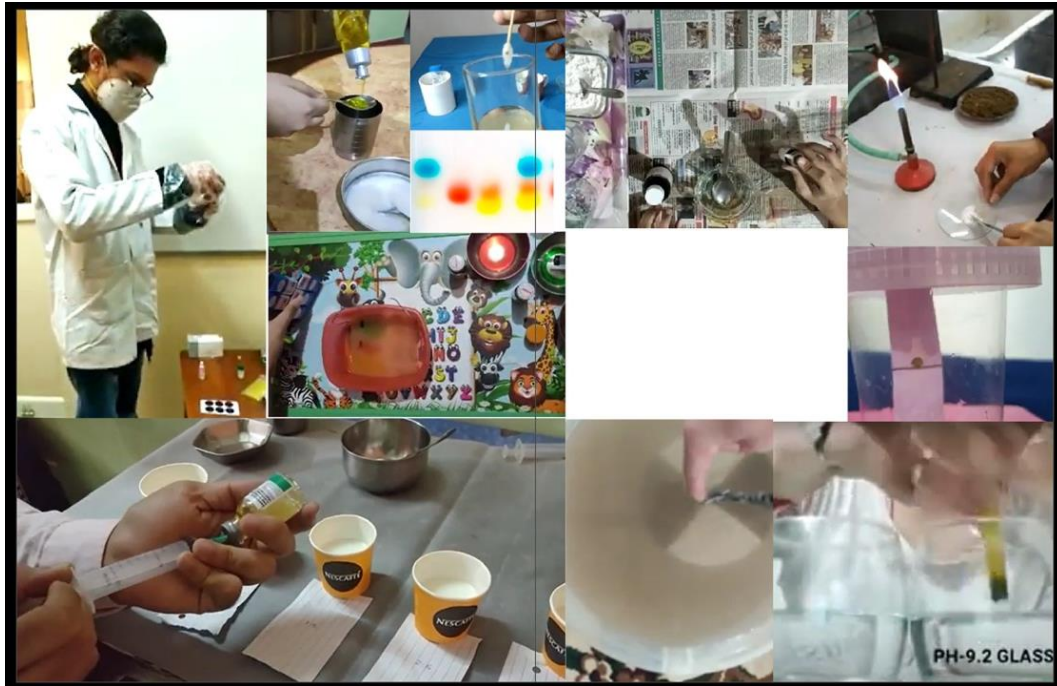
Biological Science: Developed by the Department of Biomedical Science, Botany and Zoology

Chemistry: Developed by the Department of Chemistry

Computer Science: Developed by the Department of Computer Science

Physical Science: Developed by the Department of Electronics and Physics









## WORKSHOP REPORT OF VIRTUAL LABS




An online Workshop on Virtual Labs was organized successfully on 24/08/2021 for Acharya Narendra Dev College, University Of Delhi, for Faculty members & Students from various disciplines (Applied Sciences, CSE, ECE/EE, Biotech, Civil and ME) by Virtual Labs team, IIT Delhi. Virtual Labs mentors for this workshop were Mr. Tanmay Das, Mr. Prateek Sharma & Mr. Shivam Sundaram. Total of 42 Faculty members & 43 Students attended the workshop. The detailed report of the workshop is given below:

Session	Time	Discipline	Labs / Experiments Demonstrated	No of Students attended (X)	No of Faculties attended (Y)
1	04:00 - 05:30	CS, Electronics, Biomedical Sciences, Botany, Zoology, Physics, Chemistry, Mathematics & Applied Sciences	<ul style="list-style-type: none"><li>• Molecular Fluorescence Spectroscopy Lab</li><li>• Digital Electronics Lab-I</li><li>• Solid State Physics Virtual Lab</li><li>• Image Processing Lab</li><li>• Cell Biology Virtual Lab I</li><li>• Molecular biology Virtual Lab I</li><li>• Analog Electronics Lab</li><li>• Inorganic Chemistry Virtual Lab</li><li>• Python Programming Lab</li><li>• Transportation Engineering Lab</li></ul>	43	42
Total attendees (X+Y)				85	

\*NOTE: Photographs of this workshop will be submitted separately.

  
Nodal Coordinator

  
Head of the Institute  
Officiating Principal  
Acharya Narendra Dev College  
(University of Delhi)  
Govindpuri, Kailaji  
New Delhi-110019

## 92. Digital Transformation and its Impact on the Future after Covid-19

The poster features a blue and green background with a faint grid pattern. At the top left is the Acharya Narendra Dev College logo, and at the top right is the University of Delhi logo. The text 'Acharya Narendra Dev College' and 'University of Delhi' is centered at the top. Below this, 'Department of Electronics' and 'DBT STAR COLLEGE' are listed. The main title 'Digital Transformation and its impact on the future after COVID-19' is prominently displayed in the center. A circular portrait of Dr. Amita Kapoor is on the left. To the right of the portrait, a Google Meet icon is shown next to the date 'WEDNESDAY 07 JULY' and the time '4:00 to 5:00 p.m.'. Below the date, the speaker's name 'Dr. Amita Kapoor' is written, followed by her title 'ASSOCIATE PROFESSOR' and the institution 'SHAHEED RAJGURU COLLEGE OF APPLIED SCIENCES'. At the bottom, the meeting link 'Meet : <http://meet.google.com/vhf-ikng-stx>' is provided in yellow text on a green background.

**Acharya Narendra Dev College**  
University of Delhi

**Department of Electronics**  
**DBT STAR COLLEGE**

**Digital Transformation and  
its impact on the future after  
COVID-19**

**Dr. Amita Kapoor**  
ASSOCIATE PROFESSOR  
SHAHEED RAJGURU COLLEGE OF APPLIED SCIENCES

**Meet : <http://meet.google.com/vhf-ikng-stx>**

### Report

An Invited Talk on 'Digital Transformation and its Impact on the Future after Covid-19' was delivered by Dr. Amita Kapoor, Associate Professor, Shaheed Rajguru College of Applied Science on July 07, 2021.

The speaker discussed in detail on how Covid-19 pandemic has forced the world to very rapidly move towards digitization and the kind of impact it will have on the future. In education and academic sector, the teaching and learning process has very quickly shifted to online mode. Teachers as well as students are using innovative techniques and virtual lab tools to cope up in the best possible manner

Participants truly enjoyed this very insightful and informative talk on how to be future ready in today's time when we are very rapidly moving towards digitisation.

### 93. Environmental Hazards of e-waste and Plastic waste



**Acharya Narendra Dev College**  
**University of Delhi**  
NAAC Accreditation Grade 'A' || NIRF 2020 AIR 18  
Under the aegis of DBT Star College Scheme  
presents  
e-Webinar  
**Environmental Hazards of  
E-waste and Plastic Waste**

**Date: July 31, 2021**  
**Time: 3:00 PM**

**Googlemeet Link**  
[meet.google.com/wvc-zcec-bbz](https://meet.google.com/wvc-zcec-bbz)

**Certificates will be given to all participants.**

**Patron**  
Dr Ravi Toteja  
Officiating Principal

**Convenors**  
Dr Rashmi Sharma  
Dr Archana Pandey  
Dr Seema Makhija

Logos at the bottom: German Cooperation, Implemented by giz, develoPPP.de, Ministry of Electronics and Information Technology, E-Safai, clean to green, Digital India, and a green robot icon.

#### Report:

Webinar on **Environmental Hazards of e-waste and Plastic waste** was organized by Department of Biomedical Science, Botany and Zoology. The talk was held on July 31, 2021 in online mode by Mr Jai Kumar Gaurav Senior Advisor climate change and circular economy, GIZ india. He explained to the gathering about pollution created by the electronic devises and plastic material.



Jai Gaurav delivered a talk on the environmental hazards of e-waste and plastic waste. He emphasized that the increase in electronic devices and plastic products has led to a significant increase in waste production, which has caused severe environmental issues globally.

Firstly, Jai Gaurav spoke about e-waste, which refers to discarded electronic devices such as computers, mobile phones, televisions, and other electrical appliances. He pointed out that the improper disposal of e-waste can lead to severe environmental problems, such as pollution of the soil, air, and water. He explained that e-waste often contains toxic substances such as lead, mercury, and cadmium, which can leach into the environment and cause contamination. Furthermore, he emphasized that the e-waste recycling process can also be hazardous, as it involves burning or shredding the electronic devices, which can release harmful chemicals into the environment.

Next, Jai Gaurav discussed plastic waste, which he argued is one of the most significant environmental problems globally. He highlighted that plastic waste takes hundreds of years to decompose and often ends up in landfills or the ocean, where it poses a severe threat to wildlife. He pointed out that plastic waste can break down into tiny particles known as microplastics, which can enter the food chain and have adverse effects on human health.

Jai Gaurav also discussed the need for individuals and organizations to take action to address these environmental hazards. He suggested that people could reduce their e-waste and plastic waste by using products for a longer time, repairing them instead of buying new ones, and properly disposing of them when they are no longer needed. He also highlighted the importance of recycling and emphasized the need for governments to implement policies that encourage the proper disposal of e-waste and plastic waste.

Overall, Jai Gaurav's talk highlighted the severe environmental hazards of e-waste and plastic waste and stressed the need for individuals, organizations, and governments to take action to address these problems.

## 94. An Insight into Currency Derivatives



**ACHARYA NARENDRA DEV COLLEGE**  
(UNIVERSITY OF DELHI)

NAAC ACCREDITATION GRADE 'A' / NIRF 2020 ALL INDIA RANKING - 18

**DEPARTMENT OF COMMERCE**  
**BODHINI-Academic Events and Research Committee**  
in collaboration with  
**Internal Quality Assurance Cell, ANDC**  
is organizing a webinar on  
**"An insight into Currency Derivatives"**  
**Guest Speaker**



**Ms. SUGANDHA SACHDEVA**  
Vice President  
Commodities & Currency Research at  
Religare Broking Limited

**Date: 11th Sept, 2021**  
**Time: 1 pm - 2:30 pm**  
**Venue: Google Meet**

**Register for FREE!**

**RELEASING 2ND EDITION OF "THE CHRONICLES"**

Dr. Surinder Kaur (Convenor-Bodhini)	Dr. Shalu Mahajan (TIC-Comm. Deptt.)	Prof. Sarita Kumar (Convenor-IQAC)	Prof. Ravi Toteja (Officiating Principal)
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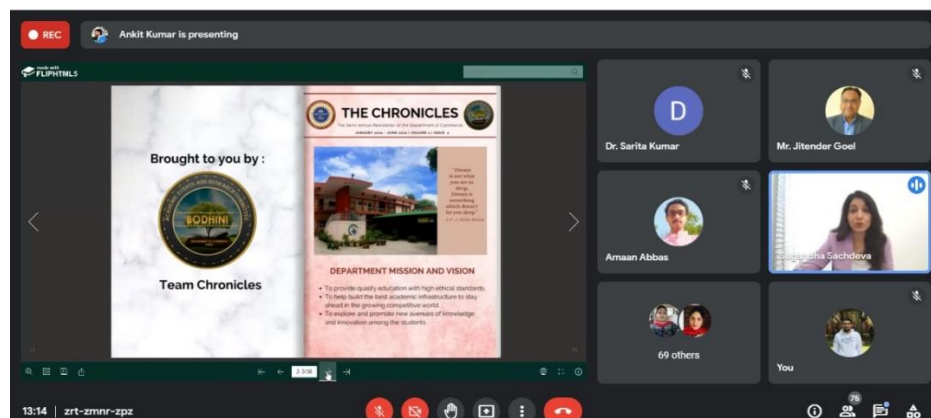
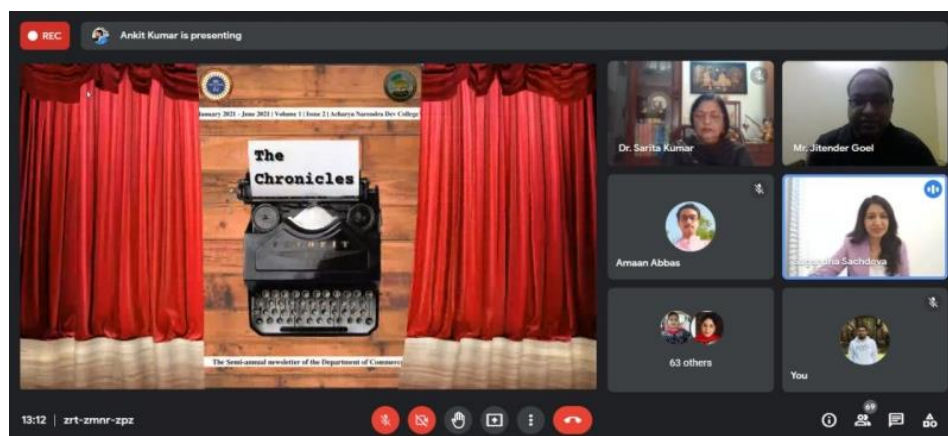
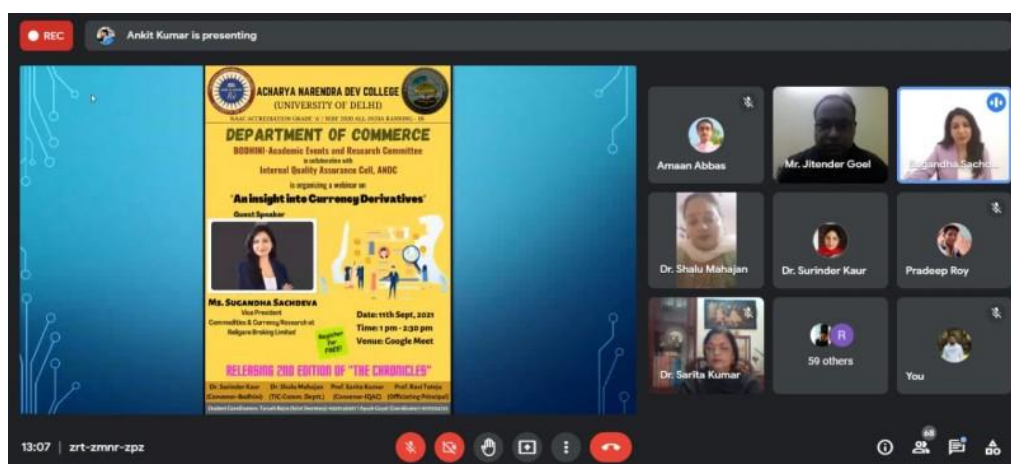
Student Coordinators: Tarush Bajra (Joint Secretary)-9268148687 | Ayush Goyal (Coordinator)-8171504723

### Report

**"An Insight into Currency Derivatives" by Ms. Sugandha Sachdeva, the Vice President of Commodities and Currency Research at Religare Broking Limited**

The Department of Commerce, in collaboration with Internal Quality Assurance Cell. AND organized a webinar on "An Insight into Currency Derivatives" on September 11. 2021. The resource person for the event was Ms. Sugandha Sachdeva, the Vice President of Commodities and Currency Research at Religare Broking Limited". The Webinar was extremely illuminating and educative. The speaker verbalised various pertinent topics like



Future Contracts, International Finances, Stock Market, Derivatives Market and other relevant concepts. Furthermore, the speaker also presented several research reports. Certificate of participation was provided to all the attendees of the webinar. The esteemed guest speaker also released the second edition of the semi-annual Newsletter of the Department of Commerce "The Chronicles". It was more of an interactive session with the students. The students got an opportunity to clear their doubts and a platform to ask questions and share their ideas related to currency derivatives. The whole session was really captivating and absorbing.








## 95. Explainable AI



**ACHARYA NARENDRA DEV COLLEGE**  
**UNIVERSITY OF DELHI**  
ACCREDITED 'A' GRADE BY NAAC- Score 3.31  
NIRF 2021 Ranking-20 | DBT Star College  
<https://www.andcollege.du.ac.in/> +91-(0)11-26294540

**TURING SOCIETY**  
**DEPARTMENT OF COMPUTER SCIENCE**  
**& INTERNAL QUALITY ASSURANCE CELL**  
(UNDER THE AEGIS OF DBT STAR COLLEGE SCHEME 2021-22)  
**ORGANIZES**  
An Online Talk On

**Explainable AI**



**Mr. Pranjal Mishra**  
Lead Data Scientist  
CIMB Bank

**Prof. Ravi Toteja**  
(Institution DBT Star Scheme Coordinator,  
Officiating Principal)

**Dr. Harita Ahuja**  
(Department DBT Star Scheme  
Coordinator)

**Dr. Preeti Marwaha**  
(Turing Society Convener)

**Dr. Sunita Narang**  
(Teacher-In-Charge)

**Ms. Vandita Grover**  
(Event Convener)

**04 OCTOBER 2021 | 4PM TO 5PM**

**MS Teams Link- <http://shorturl.at/cBH16>**

## REPORT

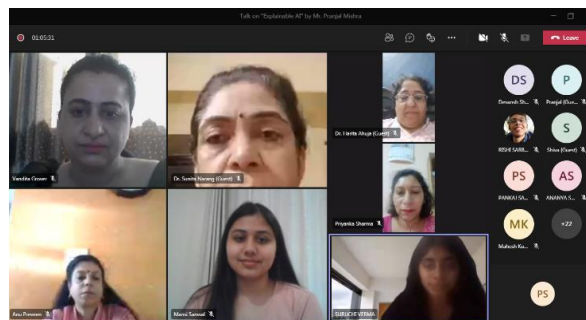
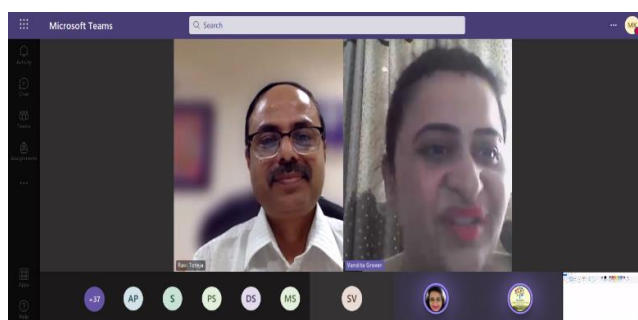
**Turing Society of Department of Computer Science** of the **Acharya Narendra Dev College** under the aegis of DBT Star College Scheme 2021-22 organized an online technical talk on the topic **“Explainable AI”** on **4th October 2021**. The Talk was convened by **Ms. Vandita Grover** along with Co-Convener **Ms. Priyanka Sharma**. It was attended by the students of the Computer Science Department. We had **Mr. Pranjal Mishra** as our eminent guest speaker. He is working as a Lead Data Scientist at CIMB Bank, a leading global bank. Mr. Mishra is also a Data Science Trainer since 2019.

The session started with the encouraging words of the respected Officiating Principal; Prof Ravi Toteja followed by a welcome note by the convener.

The session started with a discussion on what is AI and how various sub-fields like Machine Learning, Neural Networks, Deep Networks etc. use different features and determine mathematical combinations to enable computers (machines) to make intelligent decisions. The speaker highlighted the present challenges in AI - performance and interpretability. And stressed on the need to make AI more explainable in order to justify why a decision was made. For instance, which feature had the most impact, the order of importance of different features while predicting the results.



As machines are trained on various examples, some inherent bias may get introduced based on the kind of examples it is trained on, thus explain-ability is crucial to ensure transparency, build trust for the design of interpretable AI. The students were also introduced to Root-Cause analysis, What-if tools and LIME for better understanding of interpretable AI.

Towards the end, Dr. Harita Ahuja, the Department DBT-Star Scheme coordinator delivered a vote of thanks to Speaker and concluded the session. The participants were interactive and the talk was successful in piquing interest in the field of Explainable AI.



The screenshot shows a Microsoft Teams application window. The title bar at the top reads "Microsoft Teams | Ed | View | Window | Help | GuestUser1". The main content area is a video call with a large central video feed of a woman with dark curly hair and glasses, wearing a pink patterned shirt. To the right of the main video is a sidebar titled "Overview (25-26-10-2020)" containing a grid of smaller video thumbnails for other participants, each with a name and a small profile picture. The names visible include "DS", "P", "SK", "Harshad G", "Pranav G", "Sangeetha", "Harshad G", "MS", "Rishi G", "S", "AP", "SANGHAR", "PRASHANT", and "SV". At the bottom of the screen is a macOS dock with various application icons including Safari, Mail, Messages, Photos, App Store, and others. The system status bar at the very bottom shows the time as 10:54 AM on 10/26/2020.



## 96. “Predictive Modelling using Python”



**Acharya Narendra Dev College**  
**University of Delhi**  
ACCREDITED 'A' GRADE BY NAAC- Score 3.31  
NIRF 2021 Ranking-20 | DBT Star College  
<https://www.andcollege.du.ac.in/> :+91-(0)11-26294540

**Turing society**  
**Department of Computer Science**  
**& Internal Quality Assurance Cell**  
(UNDER THE AEGIS OF DBT STAR COLLEGE SCHEME 2021-22)  
Organizes  
An Online Talk On

**Predictive Modeling**  
Using Python



**Dr. Nihar Ranjan Roy**  
Associate Professor, Computer  
Science and Engineering (CSE)  
Sharda University

**Prof. Ravi Toteja**  
(Institution DBT Star Scheme  
Coordinator, Officiating Principal)

**Dr. Harita Ahuja**  
(Department DBT Star Scheme  
Coordinator)

**Dr. Sunita Narang**  
(Teacher-In-Charge)

**Dr. Preeti Marwaha**  
(Turing Society Convener)

**Dr. Chandrakant Samal**  
(Event Convener)

**Ms. Nishu Singh**  
(Event Co-convener)

08 October 2021 | 3PM to 5PM

MS Teams Link- <http://shorturl.at/pACTW>

## REPORT

Turing society of Department of Computer Science in collaboration with Internal Quality Assurance cell under the aegis of DBT Star College Scheme 2021-22 of the Acharya Narendra Dev College organized an on-line technical talk on the topic of “Predictive Modelling using Python” on 8<sup>th</sup> October 2021 at 3:00 PM - 5:00 PM on Microsoft Teams. The Talk was convened by Dr. ChandraKanta Samal. It was attended by the students and faculty. We had Dr. Nihar Ranjan Roy as our eminent guest speaker. He is



working as an Associate Professor in Department of Computer Science & Engineering, Sharda University, Greater Noida, UP.

He had started the session with a talk on **Predictive Modelling, an application of Data Science**. It is a mathematical process that seeks to predict future events or outcomes by analyzing patterns that are likely to forecast future results. This is also known as predictive analytics. Data analysts do modelling with statistics and other historical data. It tries to help you understand why the models gave different weighted scores.


He discussed why we should use Python Language as well as clears the confusion between Artificial Intelligence, Machine Language and Deep Learning. He also discussed the various types of Machine Learning algorithms e.g. supervised, unsupervised and Reinforcement Learning. He discussed the difference between Correlation and Causation. He discussed the Linear Regression and its two types e.g. Simple Linear Regression and Multiple Linear Regression.

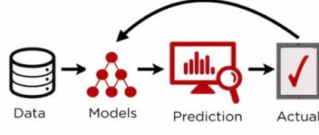
At the end, Ms. Anu Preveen delivered a vote of thanks to Speaker and concluded the session. All Participants were interactive and shown keen interest in the topic of the talk. The talk was a great success.



An Introduction to

# Predictive Modelling

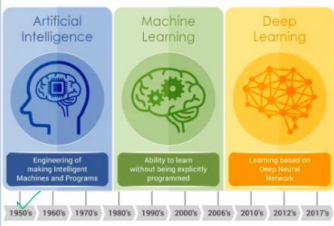
using 



Data      Models      Prediction      Actual

NIHAR RANJAN ROY  
 nihar.ranjan@sharda.ac.in  
 Department of Computer Science and Engineering  
 School of Engineering and Technology, Sharda University

- Artificial Intelligence (AI)  
Human Intelligence Exhibited by Machines
- Broadly defined to include any simulation of human intelligence
- Includes robotics, rule-based reasoning, natural language processing (NLP), knowledge representation techniques (knowledge graphs) ...



- DL, Subfield of ML that uses specialized techniques involving multi-layer (2+) artificial neural networks
- Layering allows cascaded learning and abstraction levels (e.g. line -> shape -> object -> scene)
- Computationally intensive enabled by clouds, GPUs, and specialized HW such as FPGAs, TPUs, etc.

- ML, Subfield of AI that aims to teach computers the ability to do tasks with data, without explicit programming
- Uses numerical and statistical approaches, including artificial neural networks to encode learning in models
- Models built using "training" computation runs or through usage



## 97. Career Opportunities in MNCs

The poster is for a webinar titled "Career Opportunities in MNC Banks". It features the logos of Acharya Narendra Dev College (University of Delhi) and IQAC. The text states that the Department of Commerce, Training, Learning And Placement Cell, in collaboration with IQAC, Career Counselling And Placement Cell, Acharya Narendra Dev College, is organizing a webinar on the specified topic. The guest speaker is CA Sameer Mahajan, Vice President, Controllers Division, Goldman Sachs. The date is 9th October, 2021, at 1 PM, via Google Meet. The poster also includes a list of organizers: Dr Harita Ahuja, Dr. Shalu Mahajan, Prof. Sarita Kumar, and Prof. Ravi Toteja, along with the student coordinator Ved Vaibhav Deo.

**ACHARYA NARENDRA DEV COLLEGE**  
(UNIVERSITY OF DELHI)

NAAC ACCREDITATION GRADE 'A' / NIRF 2020 ALL INDIA RANKING - 18

**DEPARTMENT OF COMMERCE**  
Training, Learning And Placement Cell  
In collaboration with  
IQAC, Career Counselling And Placement Cell, Acharya Narendra Dev College  
Is organizing a webinar on

**"Career Opportunities in MNC Banks"**

**Date: 9th October, 2021**  
**Time: 1 PM**  
**Venue: Google Meet**

**Guest Speaker**  
**CA SAMEER MAHAJAN**  
VICE PRESIDENT,  
CONTROLLERS DIVISION,  
GOLDMAN SACHS

**REGISTER FOR FREE**

**Dr Harita Ahuja** (Convenor-Career Counselling & Placement Cell) | **Dr. Shalu Mahajan** (TIC-Comm. Deptt.) | **Prof. Sarita Kumar** (Convenor-IQAC) | **Prof. Ravi Toteja** (Officiating Principal)

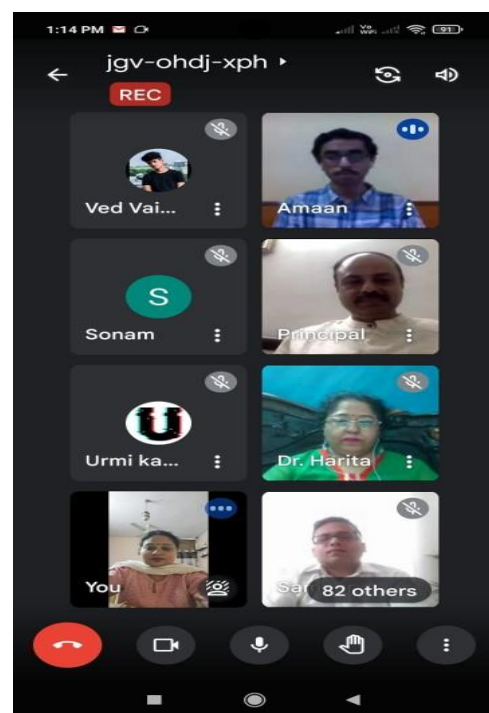
**Student Coordinator: Ved Vaibhav Deo - 9354994167**

### Report

**“Career Opportunities in MNCs” by CA Sameer Mahajan, Vice President at controller's Division, Goldman Sachs**

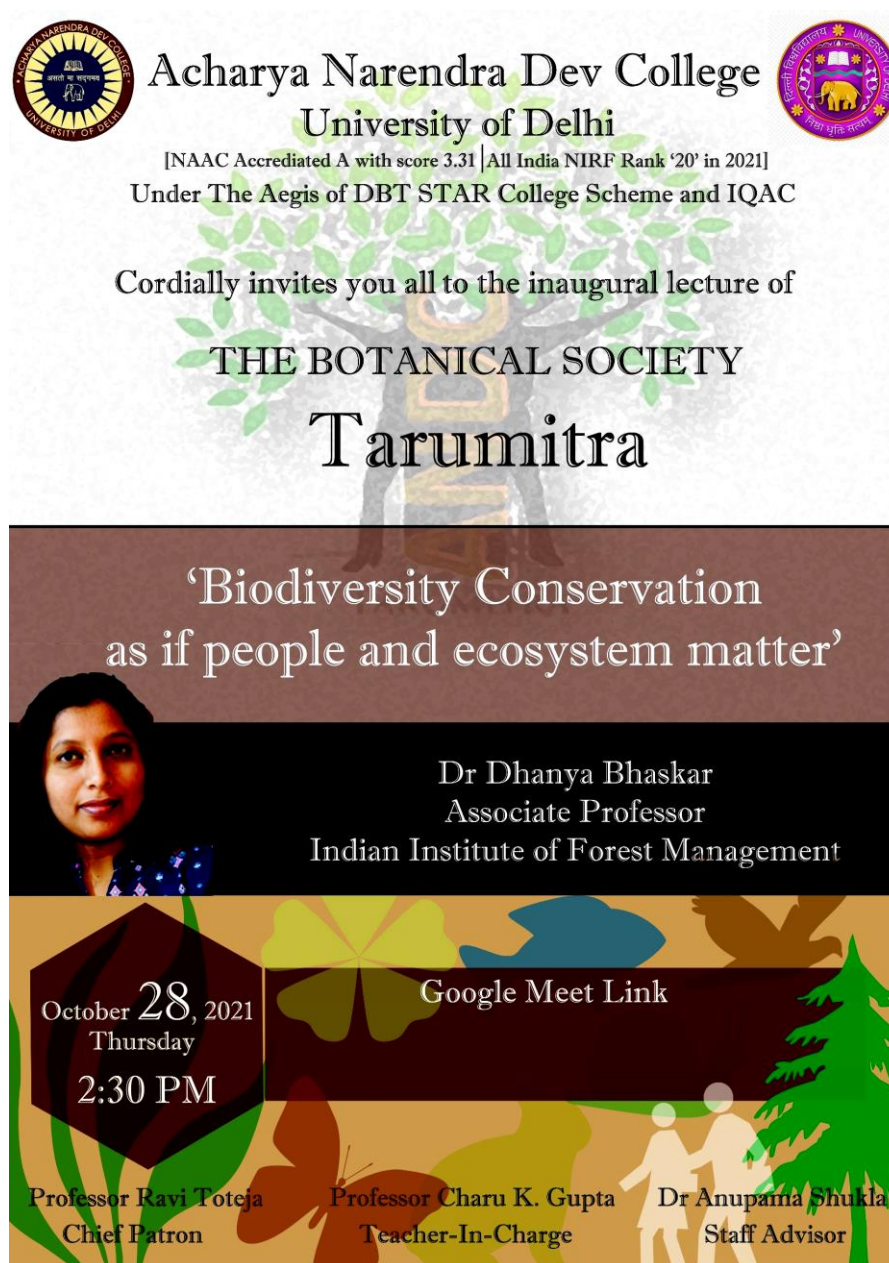
An interactive session on Career Opportunities in MNC Banks was taken by Guest Speaker CA Sameer Mahajan who is Vice President at Controller's Division, Goldman Sachs. The webinar was conducted on 9th October 2021 at 1 PM on Google Meet platform. The webinar was conducted by Training Learning and Placement Cell of the Department of Commerce in collaboration with IQAC. Career counselling and Placement Cell of Acharya Narendra Dev

College. The webinar was hosted by Amaan Abbas, the event commenced with unveiling the logo of Training Learning and Placement Cell and Mr Ravi Toteja, officiating principal of ANDC expressed his views on the occasion. Professor Sarita Kumar, convener of the internal quality assurance cell spoke a few words and appreciated the efforts of TLPC in the areas of participation and opportunities they are providing. Dr Harita Ahuja, Convener of Career Counselling and Placement cell of the college delivered a small speech on how the cell will help the commerce department students. CA Sameer Mahajan started the webinar and talked about MNC Banks and gave a good insight about the opportunities available there. He talked about operations, technology and accounting and taxation and opportunities for various professionals like Chartered Accountant, Company Secretary, lawyers and MBA's etc in these fields. At the end CA Sameer Mahajan answered the queries of the participants and the cell gave gratitude to him. There were more than eighty participants in the meet and many were attending the webinar from YouTube live. Every participant felt enlightened by attending the webinar.






## 98. 'Biodiversity Conservation as if people and ecosystem matter'



**Acharya Narendra Dev College**  
**University of Delhi**  
[NAAC Accredited A with score 3.31 | All India NIRF Rank '20' in 2021]  
Under The Aegis of DBT STAR College Scheme and IQAC

Cordially invites you all to the inaugural lecture of  
**THE BOTANICAL SOCIETY**  
**Tarumitra**

**'Biodiversity Conservation  
as if people and ecosystem matter'**

  
Dr Dhanya Bhaskar  
Associate Professor  
Indian Institute of Forest Management

October 28, 2021  
Thursday  
2:30 PM

Google Meet Link

Professor Ravi Toteja  
Chief Patron

Professor Charu K. Gupta  
Teacher-In-Charge

Dr Anupama Shukla  
Staff Advisor

### Report

Department of Botany under the aegis of its society organized a talk by Dr Dhanya Bhaskar, Associate Professor at Indian Institute of Forest Management, Bhopal on 'Biodiversity Conservation as if People and Ecosystem Matter' on October 28, 2021. This lecture was organized as an inaugural lecture of the Botanical Society 'Tarumitra'. The delivered talk was an impetus for young minds to think about biodiversity conservation and the role of human activities in sustainable development.

**99. 6<sup>th</sup> Annual International e-Conference on International Network of Soil Contamination Research-INSCR2021 on “MICROBES IN SUSTAINABLE DEVELOPMENT”**

**Co-Organizers:** PG Department Zoology (Magadh University), Department of Zoology, (University of Delhi), **Acharya Narendra Dev College** (University of Delhi), Deen Dayal Upadhyay College (University of Delhi), Maitreyi College (University of Delhi), Ramjas College (University of Delhi), Kirori Mal College (University of Delhi), Sri Venkateswara College (University of Delhi), CMP College (Allahabad University) and Phixgen Pvt Ltd.

**Co-Patron:** Prof. Ravi Toteja (Officiating Principal, Acharya Narendra Dev College)

**Organizing Secretary** (from ANDC): Prof. Seema Makhija

**Organizing Committee Members** (from ANDC): Dr Vineet Kumar Singh and Dr Sumit Sahni.

The poster features a central illustration of a stylized tree with a globe as its base. The tree's branches are adorned with various icons representing sustainability, such as a leaf, a water drop, a recycling symbol, a lightbulb, and a house. At the base of the tree, a group of diverse people are shown working together. The background is a gradient of green and yellow.

**6th Annual International Conference of**  
Indian Network for Soil Contamination Research (INSCR)

**MICROBES IN SUSTAINABLE DEVELOPMENT**  
NOVEMBER 15-18, 2021

*In Association with*

Acharya Narendra Dev College, DU   Deen Dayal Upadhyaya College, DU   Gargi College, DU   Kirori Mal College, DU   P.G. Department of Zoology, Magadh University

Maitreyi College, DU   Ramjas College, DU   Sri Venkateswara College, DU   Department of Zoology, DU   C.M.P Degree College, University of Allahabad

SGTB Khalsa College, DU   College of Commerce, Arts and Science, Patna   Phixgen Pvt. Ltd, Gurugram

Registration Link: <http://econference.inscr.co.in/Registration/index.php>  
Call for Papers: [http://econference.inscr.co.in/images/About\\_the\\_Journal.pdf](http://econference.inscr.co.in/images/About_the_Journal.pdf)

Email us on: [inscr2021conference@gmail.com](mailto:inscr2021conference@gmail.com) | Contact us at: +91-1203679147  
For more details: Click for Circular | Website: <http://econference.inscr.co.in/>





## MICROBES IN SUSTAINABLE DEVELOPMENT

### 6th Annual International Conference of Indian Network for Soil Contamination Research (INSOCR)

Click for Circular | Website: <http://econference.inscr.co.in/>

**SPEAKERS INTERNATIONAL**



 <b>Edward Delong</b> Professor, Massachusetts Institute of Tech. & Univ. of Hawaii, Manoa	 <b>Jizhong Zhou</b> Professor, University of Oklahoma	 <b>Kenneth Timmis</b> Professor of Microbiology, T. U. Braunschweig	 <b>Elora Ron</b> President Elect of International Union of Microbiological Societies	 <b>Hilary Lappin-Scott</b> President, EEMS	 <b>Jack Gilbert</b> Professor, University of California	 <b>Hauke Smidt</b> Wageningen University & Research, Netherlands	 <b>Hans H. Richnow</b> Professor, Helmholtz Centre For Env't. Research - UFZ	 <b>Stephen Craig Cary</b> Professor, The University of Waikato, New Zealand
 <b>Andy Ball</b> Professor, RMIT University, Melbourne, Australia	 <b>Robert Metcalf</b> Emeritus Professor, California State University	 <b>Mitch Schulte</b> Mars Exploration Prog. NASA Headquarters, Washington	 <b>Manolito G. Torralba</b> J. Craig Venter Institute, Rockville, Maryland	 <b>Vipin C. Kalia</b> NRF Fellow, Konkuk University, South Korea	 <b>David van de Vijver</b> Dept. of Virology, Erasmus Med. Centre, Erasmus Univ.	 <b>Andreas Bechtold</b> Professor, University of Freiburg	 <b>Terry J. McGenity</b> Professor, University of Essex	 <b>Eddie Cyttryn</b> Agricultural Research Organization, Israel
 <b>Kalai Mathee</b> Professor, Florida International University, USA.	 <b>Taifo Mahmud</b> Professor, Oregon State University	 <b>Karen Lloyd</b> University of Tennessee, Knoxville	 <b>Gunjan Pandey</b> CSIRO Land & Water, Aus. Capital Territory, Australia	 <b>Jay Mellies</b> Professor, Reed College, Portland	 <b>Bettina Sonntag</b> Professor, University of Innsbruck	 <b>Victor DiRita</b> President ASM, Michigan State University	 <b>Agnieszka Dybala-Defratyka</b> Lodz University of Technology, Poland.	 <b>Virginia Filippello</b> University of Turin, Largo P. Braccini, Italy
 <b>Poala Scavone</b> Clemente Estable Biological Research Institute, Uruguay	 <b>Sachin Khurana</b> Walter & Eliza Hall Institute, Australia.							



## MICROBES IN SUSTAINABLE DEVELOPMENT

### 6th Annual International Conference of Indian Network for Soil Contamination Research (INSOCR)

Click for Circular | Website: <http://econference.inscr.co.in/>

**SPEAKERS NATIONAL**



 Secretary, Department of Biotechnology, Ministry of Science & Technology, Government of India									
 <b>S. Shivaji</b> Director Emeritus & Senior Scientist, LVPEI	 <b>Rup Lal</b> NASI Senior Scientist, TERI, New Delhi	 <b>Appa Rao Podile</b> Professor, University of Hyderabad	 <b>Yogendra Singh</b> Professor, Department of Zoology, University of Delhi	 <b>Sanjay Kumar</b> Director, IHBT, Palampur	 <b>Datta Madanwar</b> Professor, CHARUSAT University	 <b>Anil K. Saxena</b> Professor, ICAR-NBAIM	 <b>Jyoti P. Tamang</b> Professor, Sikkim University	 <b>Anushree Malik</b> Associate Professor, IIT Delhi	 <b>Vineet Ahuja</b> Professor & MD, AIIMS
 <b>Rama Chaudhry</b> Professor, Dept. of Microbiology, AIIMS	 <b>D.L.N. Rao</b> ICAR-Emeritus Professor, University of Hyderabad	 <b>S. Dayananda</b> Professor, Banaras Hindu University	 <b>Pratyosh Shukla</b> Professor, University of Hyderabad	 <b>Venkata Ramana</b> Principal Scientist, CSIR-NEERI	 <b>Atya Kapley</b> Scientist, NCMR-NCOS	 <b>Om Prakash</b> Senior Principal Scientist, CSIR-IICT	 <b>M. K. R. Mudiam</b> Principal Scientist, IMTECH	 <b>Suresh Korpole</b> Professor, Jawaharlal Nehru University	 <b>Vibha Tandon</b> Professor, MNIT, Jaipur
 <b>Vivekanand</b> University of Agricultural Sciences, Bangalore (UASB)	 <b>Nataraja Karaba N</b> Professor, Dept. of Microbiology, AIIMS	 <b>Praveen Rishi</b> Professor, Punjab University	 <b>Bhabatosh Das</b> Associate Professor, THSTI Faridabad	 <b>K. Annapurna</b> Head, Principal Scientist, IARI	 <b>Anita Kamra Verma</b> Associate Professor, Kiroori Mal College, DU	 <b>Radhe Shyam Sharma</b> Professor, Deptt. of Environment Studies, DU	 <b>Biswajit Kundu</b> Indian Institute of Technology, Delhi	 <b>Natesan Manickam</b> Chief Scientist, CSIR-Ind. Inst. of Toxicology Research	 <b>Kashyap K. Dubey</b> Associate Professor, JNU, New Delhi
 <b>Sunil Pabbi</b> Principal Scientist, ICAR-IARI	 <b>Rakshak Kumar</b> Scientist, IHBT, Palampur	 <b>Prashant Phale</b> Professor, IIT Bombay	 <b>Venkatachalam S.</b> Post Doc. Res., Nat. Centre for Polar & Ocean Research, Goa	 <b>Nageswar Amanchi</b> Assistant Professor, Osmania University	 <b>Ajay Kumar</b> Assistant Professor, Lovely Professional University	 <b>Gaurav Sharma</b> DST-INSPIRE Faculty Scientist, IBAB	 <b>Kapildeep Karmakar</b> Uttar Banga Krishi Viswavidyalaya-ICAR	 <b>Charru Dogra Rawat</b> Associate Professor, Ramjas, DU	 <b>Shailly Anand</b> Assistant Professor, DDU College, DU

**Report:**

In January 2016, the 2030 Goals for Sustainable Development were set by the United Nations to achieve environmental, social and economic development through green methods and clean production technologies. The most important aim of these goals is the fulfilment of basic human needs and wants, as the essential human needs such as food, clothing, shelter and health care are still not available to most people, despite the rapid growth in the world economy. The increase in waste products and depleting natural resources have turned human attention towards efficient green and clear production technologies. The Sustainable Development Goals aim to provide these basic needs for all, through the intelligent use of sustainable science. In this perspective, microorganisms, which are vital for sustaining life on Earth, can play a major role. Keeping in view about the role of microbes in sustainable development, INSCR organized 6<sup>th</sup> International Conference over the virtual platform. Prof. P. C. Joshi, former Vice Chancellor, University of Delhi and Prof. Balram Pani, Dean of Colleges, University HOD, Zoology, Magadh University, Dr Sanjay Kumar, Director CISR Palampur Himachal Pradesh, Dr Umesh Rai, former Head of Zoology Department, University of Delhi, besides the principals of co-organizing colleges.

The event hosted 30 International and 40 National speakers of international repute. A few of them are: Edward DeLong, University of Hawaii, Honolulu; Prof. Jizhang Zhou, University of Oklahoma, USA; Prof. Kenneth Timis, Germany; Hilary Lapin Schott and Prof. Jack Gilbert, University of California; Daniel Macdonald, University of California; Hock Midt, Netherlands; Hans, Germany. H Reknow, New Zealand's Stephen Craig Carey, America's NASA Program Scientist Mitch Schalte, South Korea's Vipin C Kalia of Konkuk University, Korea's Ganesh de Sartale, Poland's Agnizeka Dybala Defratka, Uruguay's PavloScavone, Prof. Jyoti Prakash Tamang of Sikkim University, INDIA, Prof. Rama Chaudhary of AIIMS Delhi, INDIA. Anushree Malik of IIT Delhi, INDIA and others who enlighten about the role of microbes in sustainable development.

Two Pre conference workshops namely, Art of scientific writing and communication, and Hands on to computational Biology, for (Meta)genomic analysis were also organized for Undergraduate, Postgraduate students and research scholars from November 14-15, 2021. An online Agar Competition was also organized that show active participation from all over the country.



Themes covered in this conference were:

- a. Host Microbiota Interactions
- b. Clinical Microbiology and Infectious Diseases
- c. Microbes for Sustainable Agriculture
- d. Translational and Industrial Microbiology
- e. Microbial Ecology and Biotechnology
- f. Microbiology of Extreme Environments
- g. Empowering academics through Innovative Research

During the conference, undergraduate, postgraduate students, research scholars and faculty members presented their research papers on host microbiota interactions, clinical microbiology and infectious disease, microbes for sustainable agriculture, microbial ecology and biotechnology, microbiology of extreme environment and translation and industrial microbiology under the main themes Microbes in Sustainable Development.

The Conference was a great success with a record total of more than 500 attendees and 138 registered participants. During the conference three parallel sessions were conducted to accommodate 80 poster and more than 70 oral presentations by students and faculty across the globe. The conference concluded with a valedictory session, in which the participants were acknowledged, winners for poster and oral presentations were announced, winners for Agar Art competition were announced and INSCR Journal was released. The chief guest for the valedictory session was Dr Paola Scavone and the Guest of Honor was Prof. BalaramPani, Dean of Colleges, University of Delhi.

**सेमिनार •** चार दिवसीय छठा इंटरनेशनल ई-कांफ्रेंस के दौरान अंतिम सत्र में जर्मनी टेक्निकल विवि के प्रो केनेथ टिमिंस ने कहा

# सामाजिक क्षमता निर्माण को माइक्रोबायोलॉजी में साक्षरता जरूरी, इससे नीतिगत निर्णय होंगे प्रभावी

एजुकेशन रिपोर्ट | बोधगया

**स्कूलों में सूक्ष्म जीव विज्ञान के शिक्षण के लिए नई सामग्री प्रदान करना है**

माइक्रोबायोलॉजी लिटरेसी इनिशिएटिव अर्थात माइक्रोबायोलॉजी फॉर सॉल्यूटिंस एंड सोसाइटी का उद्देश्य समाज में, हमारे दैनिक जीवन को प्रभावित करने वाली सूक्ष्मजीवविज्ञानी प्रक्रियाओं की गहन समझ और स्थिरता के विभिन्न पहलुओं के लिए उनके महत्व को स्थापित करना है। इसके तहत रोग और स्वास्थ्य, पोषण और खाद्य उत्पादन में सूक्ष्म जीव विज्ञान शामिल है। माइक्रोबायोलॉजी फॉर सॉल्यूटिंस एंड सोसाइटी सेक्शन के तहत जर्मनी टेक्निकल विवि के प्रो केनेथ टिमिंस ने माइक्रोब्स इन सस्टेनेबल डेवलपमेंट पर चार दिवसीय छठा इंटरनेशनल ई-कांफ्रेंस के दौरान अंतिम सत्र में उक्त बातें कही। इंडियन नेटवर्क फॉर सोल्यूटिंस एंड सोसाइटी रिसर्च दिल्ली ने इसका आयोजन किया व पीजी डिपार्टमेंट ऑफ जूलोजी मगध विवि, दिल्ली विवि सहित अन्य संस्थान सह आयोजक हैं। उन्होंने कहा कि समुद्री पारिस्थितिकी तंत्र और पर्यावरण परिवर्तन और यहां तक कि कैसे रोगाणु हमारे मुँह और व्यवहार को नियंत्रित करते हैं, इन विषयों को एक एकीकृत, परस्पर और अनुभववात्मक तरीके में पढ़ाकर दक्षताओं को स्थापित करना है। इस तरह सामान्य जानकारी के महत्वपूर्ण मूल्यांकन के लिए एक सामाजिक क्षमता का निर्माण करना है। यह स्थापना, कर्य लाभ और धामक सूचनाओं के प्रभाव का प्रतिकार करने के प्रयासों का भी समर्थन करता है हमारे दैनिक जीवन में तेजी से व्यापक होता जा रहा है। इंग्लैंड के एसेक्स विवि के प्रो टैरी मैक्जेन्टी, भारत के प्रो रूपलाल सहित अन्य ने शोधपत्र पढ़ा।



इंटरनेशनल कॉन्फ्रेंस के बाद आयोजक समिति के सदस्य।

**पृथ्वी के सब-सर्फेस में हजारों साल जीवित रह सकते हैं माइक्रोब्स**

क्लिनिकल माइक्रोबायोलॉजी सेक्शन के तहत प्रो केनेथ टिमिंस ने अननोन माइक्रोब्स इन अर्थ सब-सर्फेस शोध पत्र में कहा कि सतह के पास, जीवित जीव कार्बनिक पदार्थों का उपभोग करते हैं और ऑक्सीजन का सांस लेते हैं। नीचे की ओर, ये उपलब्ध नहीं हैं, इसलिए वे हाइड्रोजन (विभिन्न रासायनिक प्रक्रियाओं द्वारा चट्टानों से मुक्त), मीथेन, सल्फर यौगिकों और अमोनियम जैसे इलेक्ट्रॉन दाताओं का उपयोग करते हैं। वे नाइट्रेट और नाइट्राइट, मैंगनीज और आयर्न ऑक्साइड, अक्सिजिन सल्फर यौगिकों और कार्बन डाइऑक्साइड जैसे इलेक्ट्रॉन का सांस लेते हैं। अधिक गहराई पर बहुत कम ऊर्जा होती है, इसलिए चयापचय सतह की तुलना में दस लाख गुना धीमा होता है। कोशिकाएं विभाजित होने से पहले हजारों वर्षों तक जीवित रह सकती हैं और उनकी आयु की कोई ज्ञात सीमा नहीं है।

**स्कूल जीवन से ही अध्ययन जरूरी**

प्रो केनेथ टिमिंस ने कहा कि इस पहल का उद्देश्य स्कूलों में सूक्ष्म जीव विज्ञान के शिक्षण के लिए नई सामग्री प्रदान करना है, ताकि एक ऐसे समाज का निर्माण किया जा सके, जो सूक्ष्म जीव विज्ञान के प्रमुख पहलुओं में साक्षर हो, जो ज्ञान-आधारित रोजमर्रा के पारिवारिक निर्णयों के साथ-साथ क्षेत्रीय, राष्ट्रीय और वैश्विक नीतिगत निर्णयों को प्रभावित करने वाले हों। इसका उद्देश्य माइक्रोबायोलॉजिस्ट बनाना नहीं है, बल्कि बच्चों की कल्पना को फुलने के लिए, बाल-केंद्रित और प्रासंगिक विषयों जैसे भोजन, जानवरों, छुट्टियों आदि से निपटने के लिए जानकारी देना है।

**अंटार्कटिका का माइक्रोबियल इकोसिस्टम बचाएं**

कॉन्फ्रेंस के तीसरे दिन माइक्रोबायोलॉजी इन एक्सट्रीम एनवायरमेंट सेक्शन के तहत वाइकटो विश्वविद्यालय, न्यूजीलैंड के डॉ. क्रेग कैरी ने इस चरमपंथी वातावरण में माइक्रोबायोटो और माइक्रोबियल पारिस्थितिकी को उजागर करने के लिए अंटार्कटिक क्षेत्र में किए गए शोधों की जानकारी दी। डॉ. होके रिमंड ने हैलोजन साइकलिंग के चालकों में गहरी अंतर्दृष्टि प्राप्त करने के लिए प्रदूषित और प्रदूषित वातावरण में अन्वेषण के बारे में बात की।

**समापन सत्र में विजेताओं की हुई घोषणा**

सम्मेलन का समापन एक समापन सत्र के साथ हुआ, जिसमें पोस्टर और मौखिक प्रस्तुतियों के लिए विजेताओं की घोषणा की गई। आगर कला प्रतियोगिता के विजेताओं की भी घोषणा की गई और आइएनएससीआर जर्नल का विमोचन किया गया। समापन सत्र के मुख्य अतिथि डॉ. पाओला स्कावोन थे और विशिष्ट अतिथि दिल्ली विवि के डॉन ऑफ कॉलेज प्रो. बलराम पाणि थे। आयोजन में मगध विवि जूलांजी विभाग के डा रोशन कुमार की महत्वपूर्ण भूमिका रही।

## 100. Why Him, Why Not Her



# ACHARYA NARENDRA DEV COLLEGE

University Of Delhi

NAAC ACCREDITATION GRADE 'A' | NIRF 2021 ALL INDIA RANKING- 20

## SASHAKT

THE SOCIETY FOR WOMEN EMPOWERMENT

*invites you to an* **INTERACTIVE WEBINAR**



**TOPIC - Why him and why her?  
Why not him to her ?**

**SPEAKER - RIYA KUSHWAHA**  
(Author, Orator and Poetess)

**DATE - 24 January 2022**  
**TIME - 4-5 pm**  
**PLATFORM - Google meet**

Register here: -  
<https://forms.gle/KqKHaha5MWDKLUdX9>


PROF. (DR) RAVI TOTEJA (OFFICIATING PRINCIPAL)	DR GEETIKA KALRA (CONVENER)	SWATI SHUKLA (PRESIDENT)
VIKAS SINGH (VICE-PRESIDENT)	KHUSHI AGRAWAL (EVENT MANAGER)	JHALAK BHANDARI (SASHAKT VOLUNTEER)

### Report


The society has a committed group of enthusiastic students who organised an interactive webinar 'Why him, why not her' on January 24, 2021 by a budding author Riya Kushwaha who emphasized the need of equality between men and women in the society.



## 101. “Designing of a Novel Vector for Rapid One-Step Cloning and Expression in *E. Coli*”


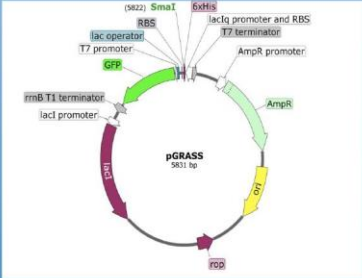


DEPARTMENT OF BIOMEDICAL SCIENCE  
ACHARYA NARENDRA DEV COLLEGE  
(University of Delhi, New Delhi)  
(Under the Aegis of DBT-STAR College Scheme)



*Presents*

### Designing of a novel vector for rapid one-step cloning in *E. coli*



- Development of an *E. coli* vector pGRASS, based on a novel genetic design for selection and expression
- Easier and more convenient screening of recombinants based on GFP fluorescence

**SHINTO JAMES**  
Research Scholar,  
Prof Vikas Jain Lab  
IISER, Bhopal

**When?** January 28, 2022  
Friday  
11:00 AM (IST)

**Where?** Google Meet  
(Online)

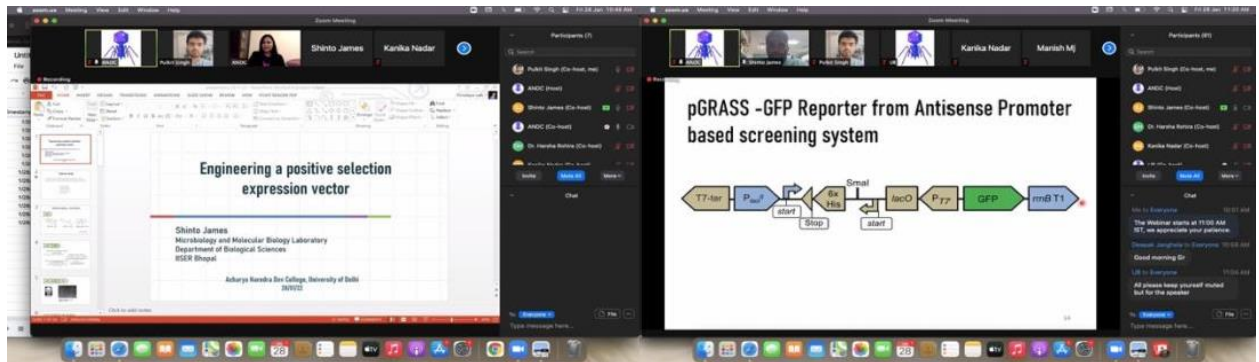
Register here: <https://forms.gle/UxnPYWNTW4yvuBTaZ>  
Google Meet Link: <https://meet.google.com/jqr-mxai-qhc>  
\*\*Registration is mandatory for attending the event

### Report

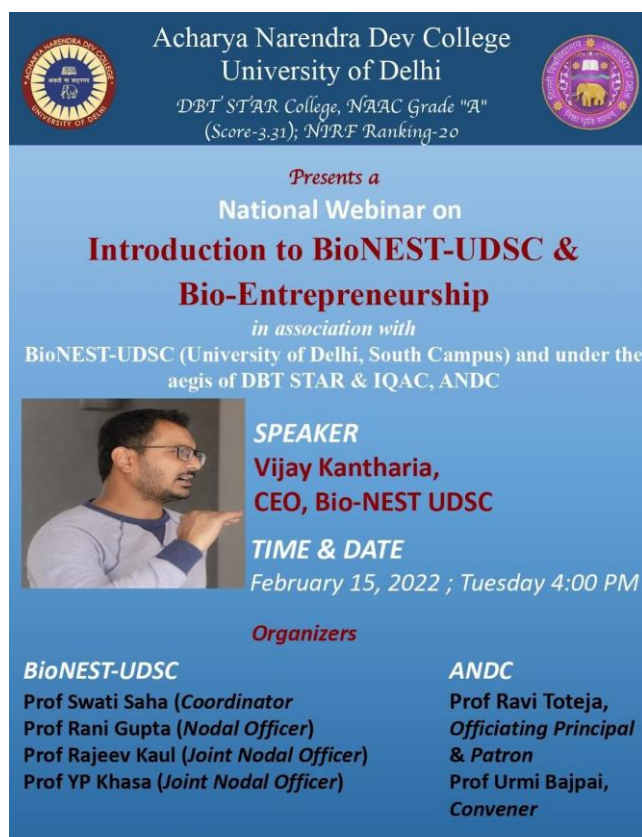
The Department of Biomedical Science, Acharya Narendra Dev College (ANDC), University of Delhi under the aegis of DBT-STAR College scheme organized a webinar on the topic “Designing of a Novel Vector for Rapid One-Step Cloning and Expression in *E. Coli*” on January 28, 2022. Mr. Shinto James, Research Scholar, IISER, Bhopal was the resource person. The talk was on the introduction of a novel selection strategy for the insertion of protein coding genes in vector backbones via an engineered plasmid pGRASS (GFP reporter from anti-sense promoter- based screening system). The webinar initiated with introduction to vectors in molecular biology and their development. Later, the audience was introduced to the novel pGRASS vector along with its applications in transformation and cloning practices. The webinar was held under the patronage of Prof. Ravi Toteja, Officiating Principal, ANDC. The convenor for the event was Prof. Urmi Bajpai and the faculty coordinator were Dr. Archana Pandey and Dr. Sunita Jetly. Mr. Pulkit Singh, B.Sc (H) Zoology, Sem VI was the student coordinator.



**Pictures:** Screenshots from the event




## 102. National Webinar on “Introduction to BioNEST-UDSC & Bio-Entrepreneurship”



Acharya Narendra Dev College  
University of Delhi  
DBT STAR College, NAAC Grade "A"  
(Score-3.31); NTRF Ranking-20

Presents a  
National Webinar on  
**Introduction to BioNEST-UDSC &  
Bio-Entrepreneurship**  
in association with  
BioNEST-UDSC (University of Delhi, South Campus) and under the  
aegis of DBT STAR & IQAC, ANDC



**SPEAKER**  
**Vijay Kantharia,**  
**CEO, Bio-NEST UDSC**

**TIME & DATE**  
February 15, 2022 ; Tuesday 4:00 PM

**Organizers**

<b>BioNEST-UDSC</b>	<b>ANDC</b>
Prof Swati Saha (Coordinator)	Prof Ravi Toteja,
Prof Rani Gupta (Nodal Officer)	Officiating Principal
Prof Rajeev Kaul (Joint Nodal Officer)	& Patron
Prof YP Khalsa (Joint Nodal Officer)	Prof Urmi Bajpai,
	Convener

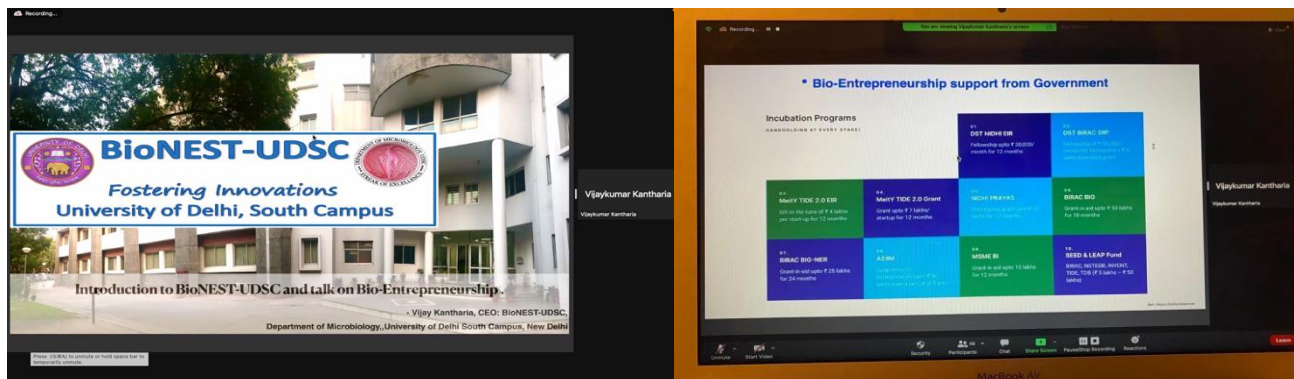
### Report

Zoom Link for: <https://us06web.zoom.us/j/83510500034>

Prior registration is requested. Link to register: [shorturl.at/hEU29](http://shorturl.at/hEU29)

The Department of Biomedical Science, Acharya Narendra Dev College (ANDC), University of Delhi under the aegis of DBT-STAR College scheme organized a webinar on the topic “Introduction to BioNEST-UDSC & Bio-Entrepreneurship” on February 15, 2022. Mr. Vijay Kantharia, CEO, BioNEST, University of Delhi, South Campus was the resource person. The talk was on the introduction of a BioNEST Facility operating at the department of Microbiology, South Campus, University of Delhi. It provides infrastructural support, mentorship, and space to startups in facilitating their R&D work. Besides, several high-end equipment are available. Mr. Vijay Kantharia, CEO BioNEST explained the prospects of Bio Entrepreneurship and the available facilities that can be used for the respective requirements of researchers and faculty members. The webinar was held under the patronage of Prof. Ravi Toteja, Officiating Principal, ANDC. The convenor for the event was Prof. Urmi Bajpai. Ms Ritu Arora, PhD Scholar, Department of Biomedical Science, ANDC was the student coordinator.

## Photographs: Screenshot from the event



**103 - 121. International Conference on Mitigating Contemporary Environmental Issues  
by Sustainable Approaches [ICMCESA-2022]**

**Chief Patron:** Prof. Yogesh Singh, Vice Chancellor, University of Delhi

**Patron:** Prof. BalaramPani, Dean of Colleges, University of Delhi and Mr. Anil Kumar Saini, Chairman, Governing Body, Acharya Narendra Dev College

**Co-patrons:** **Prof. Shri Prakash Singh, Director, University of Delhi, South Campus; Prof. Sanjeev Singh, Joint Director, University of Delhi, South Campus and Dr Vikas Gupta, Registrar, University of Delhi**

**Chairpersons:** **Prof. Ravi Toteja, Officiating Principal, Acharya Narendra Dev College and Dr Garima Gupta, Scientist F, Department of Biotechnology, Govt. of India**

**Co-chairpersons:** **Prof. Rup Lal, NASI Senior Scientist Platinum Jubilee Fellow The Energy and Resources Institute; Sr. Prof. Suman Lakhanpaul, HOD, Department of Botany, University of Delhi and Prof. Ashutosh Bhardwaj, OSD, Institute of Eminence, University of Delhi**

**Scientific Chair:** **Prof. Arijit Chowdhuri, Prof Charu K Gupta and Prof. Seema Makhija**

**Convenors:** **Prof. Sunita Hooda, Prof. Sarita Kumar, Dr Sanjeeta Rani, Prof. Geetu Gambhir and Dr Archana Pandey**

**Session Chairs:** Sr. Prof. Mridula Gupta, Prof. Rupam Kapoor, Prof. Vishnu Bhat, Prof. R. K. Negi, Prof. Rup Lal, Prof. Shashi Bhushan, Prof. Rina Chakrabarti, Prof. Indranil Dasgupta, Dr Vijay Pal Singh, Prof. Sanjeev Singh, Prof. Alan Warren, Prof. Sukanya Lal, Prof. Prem Lal Uniyal, Dr Renu Bhagat Kumar, Prof. Rajesh Tandon, Prof. Atul Johri, Prof. Sunita Hooda, Prof. Seema Gupta, Dr Sanjeeta Rani, Prof. Sharanjit Kaur, Dr Anupama Shukla, Prof. Sarita Kumar, Dr Anita Narang, Dr Sunita Jetly, Dr Neeti Mishra, Prof. Arijit Chowdhuri, Prof. Charu K. Gupta, Dr Manisha Verma, Dr V Bhasker Raj, Dr Geetika Kalra, Prof. Gagan Dhawan, Dr Rashmi Sharma, Dr Rahul Dev, Dr Neelakshi N. K. Borah, Dr Siddhartha, Dr Sumit Sahni, Mr Abhay Pratap Singh, Prof. Pankaj Khanna, Dr Harita Ahuja, Prof. Urmi Bajpai, Dr Aparna Sharma, Prof. Geetu Gambhir, Dr Sanjay Kumar, Dr Kavita Mittal, Dr Sandeep Kumar Goel, Dr Mamta Bhatia

**Session Co-chairs:** Dr Anupama Shukla, Dr Anita Narang, Dr Pooja Bhagat, Dr Manisha Verma, Dr Archana Pandey, Dr Rashmi Sharma, Prof. Seema Makhija, Prof. Arijit Chowdhuri, Prof. Charu K. Gupta, Dr Geetika Kalra, Dr Manoj Kumar Singh, Dr Sada Nand Prasad, Dr Ravneet Kaur, Dr Aparna Sharma, Dr Kavita Mittal, Dr Rahul Dev, Dr Pragati Malik, Ms



Bhawna Kaushik, Dr Jitender Goel, Dr Yash Mangla, Prof. Gagan Dhawan, Dr Vineet Kumar Singh, Dr Neelakshi N. K. Borah, Dr Narayan Singh, Dr Anita Thakur, Dr Gurudutt Rao Ambedkar, Dr Sweety Shrimali, Mr Pawan Kumar, Dr Sidhartha, Dr Sanjay Kumar


Organizing Secretaries: **Dr Vineet Singh, Dr Sumit Sahni, Dr V Bhasker Raj, Dr Gurudatt Rao Ambedkar, Dr Narayan Singh**

Coordinators: **Prof. Gagan Dhawan, Prof. Pankaj Khanna, Dr Manisha Verma, Dr Pooja Bhagat, Dr Anita Narang, Dr Sandeep Kumar Goel, Dr Anupama Shukla, Dr Rashmi Sharma, Dr Sada Nand Prasad, Dr Ravneet Kaur, Dr Harita Ahuja, Mr Pawan Kumar**

**Program Committee:** Dr Yash Mangla, Dr Pragati Malik, Dr Sweety Shrimali, Dr Manoj Kumar Singh, Dr Sanjay Kumar, Dr Jitender Goel, Dr Aparna Sharma, Dr Rahul Dev, Mr Abhay Pratap Singh, Dr Siddhartha, Dr Neelakshi N. K. Borah, Dr Kavita Mittal, Dr Anita Thakur, Dr Rimpri Kaur Chowhan, Dr Ritu Khosla, Ms Bhawana Kaushik, Ms Ankita

**Resource Persons (Plenary/Keynote/Invited Speakers):**

<https://www.andcollege.edu.ac.in/icmcesa22/index#plenaryspakers>



**ACHARYA NARENDRA DEV COLLEGE**  
University of Delhi  
NAAC Grade 'A' | NIRF Ranking 2021 – #20 | DBT STAR College  
celebrates *Science Week* with

**International e-Conference on  
Mitigating Contemporary Environmental issues by  
Sustainable Approaches [ICMCEA – 2022]**  
February 22 – 28, 2022  
under the aegis of IQAC & DBT STAR College Scheme

**About the Conference**

UN mandated "Decade of Action" has already begun from the year 2020 with an aim to deliver the Sustainable Development Goals by 2030. This decade long endeavour is assigned to promote the shared vision of nations and proffer multipronged accelerated responses to one of the world's most serious challenges – reversing climate change. The main focus of the conference is to generate interest amongst all to concentrate on the burning issue of environmental mitigation through proactive uptake of sustainable approaches. It is in line with the global scenario wherein the latest developments occurring in the field of environmental monitoring & assessment have generated intense research in all branches of science (Biological, Chemical and Physical). The field of contemporary environmental issues demand affirmative action in fields including but not limited to biodiversity conservation/reclamation and environmental toxicology. Creation of sustainable cities through strict laws and policies for environmental protection while assessing environment status via GIS mapping and remote sensing comprise the basic step forward. Pioneering ideas of adoption of environmental economics and eco-preneurship constitute another important phase. Worldwide scientific findings necessitate that there is an urgent need to ignite young minds to think out-of-the-box and in an innovative manner to help stoke interest in environmental sensitization. The International e-Conference on Mitigating Contemporary Environmental Issues by sustainable approaches envisions to make available a platform for free exchange of ideas for the same.

**Call for Abstracts**

Abstracts are invited from UG/PG/Research Scholars/Faculty for oral/poster presentations having a maximum of 250 words, in Times New Roman 12 point font (1.5 line spacing). Title, author name, and affiliation should be in separate lines and are to be centered. The presenting author's name should be underlined. E-mail address of the corresponding author should be given. The abstract should be sent as an attachment in MS word format by e-mail to: [icmcesa@andcdu.ac.in](mailto:icmcesa@andcdu.ac.in)


Awards for outstanding presentation will be given to the participants

Abstracts will be accepted after peer-review and acceptance will be conveyed by e-mail.

Abstract submission details and registration form is available on the college website – <http://andcollege.edu.ac.in>. Abstract(s) and Registration form should be sent as attachment in Word format by e-mail to: [icmcesa2022@andcdu.ac.in](mailto:icmcesa2022@andcdu.ac.in). Selected full-length papers will be published in Proceedings with ISSN/ISBN numbers (extra charge Rs. 1500/- OR USD 60).

**Themes and scope of conference**


1. Environmental assessment
2. Environmental mitigation by physical, chemical and biological approaches
3. Biodiversity conservation and reclamation
4. Laws and policies for environmental protection
5. GIS mapping and remote sensing for environmental assessment
6. Environmental toxicology
7. Sustainable cities and communities
8. Environmental economics and eco-preneurship
9. Igniting young minds for environmental sensitization
10. Data analytics in environment
11. Green finance
12. Environment & Health



Registration Link: <https://www.andcollege.edu.ac.in/icmcesa22/registrationform>  
Website: <https://www.andcollege.edu.ac.in/icmcesa22/index>

Email: [icmcesa2022@andcdu.ac.in](mailto:icmcesa2022@andcdu.ac.in)

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International e-Conference on  
**Mitigating Contemporary Environmental issues by  
Sustainable Approaches [ICMCESA – 2022]**

under the aegis of IQAC & DBT STAR College Scheme

February 22 – 28, 2022



**Prof. Gaytha A. Langlois**  
Professor of Environ. Policy  
Bryant University  
Rhode Island, USA



**Dr. David Kocman**  
Deptt. of Environmental  
Sciences, JSI  
Ljubljana, SLOVENIA



**Dr. Natasa Mori**  
Deptt. of Organisms and  
Ecosystem Research  
NIB Ljubljana, SLOVENIA



**Dr. Rajesh Jalota**  
Sr. Env. Officer, Energy and  
Extractive, Southwest  
Queensland Compliance unit  
Queensland, Australia



**Dr. Bettina Sonntag**  
Research Department  
for Limnology, Mondsee  
University of Innsbruck, AUSTRIA



**Dr. Kaustubh Sharma**  
Senior Ecologist  
Snow Leopard Trust  
Seattle, USA



**Prof. Andy Purvis**  
Life Sci. Diversity and Informatics  
Division, Natural History Museum,  
London, UK



**Dr. Binita Dutta**  
Senior Business Analyst  
Hyloris Pharmaceuticals,  
BELGIUM



**Prof. Michael W. Murray**  
University of Michigan  
Augusta University, USA



**Dr. Paola Scavone**  
Departamento de Microbiología  
Clemente Estable Biological  
Research Institute, URUGUAY



**Dr. Siva Karuturi**  
School of Engineering  
Australian National University,  
AUSTRALIA



**SPEAKERS  
INTERNATIONAL**

Email: [icmcesa2022@andc.du.ac.in](mailto:icmcesa2022@andc.du.ac.in)

Website: <https://www.andcollege.du.ac.in/icmcesa22/index>

Registration Link: <https://www.andcollege.du.ac.in/icmcesa22/registrationform>



### Report:

Acharya Narendra Dev College organized an International E-Conference titled “Mitigating Contemporary Environmental Issues by Sustainable Approaches [ICMCESA-2022]”. In commemoration of Science week the event spanned from February 22-28,2022. With consideration of the ongoing “Decade of Action” proclaimed by the United Nations, the main focus of the conference was to generate interest among all on the pressing environmental concerns and the urgent need to adopt sustainable approaches worldwide to protect the habitat. A theme of such pertinence, the speakers and various presenters confronted diverse ‘Areas of Concern’. Adhering to Covid-19 protocols regarding travel restrictions and social distancing, this conference was conducted over the virtual platform, the event hosted speakers from USA, Slovenia, Australia, UK, Uruguay, and Czech Republic, to name a few. Prof. Gaytha A Langlois, with extensive experience in crafting municipal and statewide environmental policies, from the Department of Environmental Policy at Byrant University, Rhode Island, USA, graced the inauguration day as the plenary speaker. She addressed the crises arising

from misalignment of policy goals and strategies of navigating environmental challenges in her plenary talk titled, “Syzygy or Sisyphus: The Future of Environmental Policy Making”. There were a total 16 keynote speakers from all over the world who shared their innovative knowledge and application methodology regards to environment in the conference. There were 28 invited talks from all over India and consisted of an inclusive amalgamation of Professors, Academicians, Scientists, Ecologists, and Law Practitioners etc. The scientific advisory board members for the conference were, Professor C. R. Babu (Retd.) Department of Botany, University of Delhi, INDIA; Professor Gaytha L. Langlois, Professor of Environmental Policy, Bryant University, Rhode Island, USA; Dr Alan Warren (Retd.), Natural History Museum, London, UNITED KINGDOM; Professor Rup Lal, FNA, FNASc, FNAAS, NASI Senior Scientist Platinum Jubilee Fellow, The Energy and Resources Institute, INDIA; Dr J. R. Bhatt Advisor (Climate Change), Ministry of Environment, Forest and Climate Change, INDIA; Prof. Rupam Kapoor, Department of Botany, University of Delhi, INDIA; Prof. Radhey Shyam, Department of Environmental Science, University of Delhi, INDIA; Prof. M. M. Chaturvedi, Department of Zoology, University of Delhi, INDIA; Prof. Amit Singh, Department of Commerce, Delhi School of Economics, INDIA; Prof. Ashutosh Bhardwaj, OSD, Institute of Eminence, University of Delhi, INDIA; Dr Debasish Mohanty, National Institute of Immunology, INDIA; Dr Garima Gupta, Scientist F, Department of Biotechnology, Ministry of Science and Technology, INDIA.

This e-conference was a unique affair for a varied number of reasons, the themes and scope of the conference covered the following expansive range, Environmental Assessment, Environmental Mitigation by Physical, chemical and biological approaches, Biodiversity conservation and reclamation, Laws and Policies for Environmental protection, GIS mapping and remote sensing for environmental assessment, Environmental toxicology, Sustainable cities and communities, Environmental economics and eco-preneurship, Igniting young minds for environmental sensitization, Data analytics in environment, Green Finance and Environment and Public Health. Apart from the talks by keynote, invited speakers and participants, the conference programme also consisted of Technical sessions for a pragmatic and empirical approach to the theoretical discussions. There were more than 100 oral presentations by undergraduate, postgraduate research scholars and faculty traversing the entire nation from Kashmir to Kerala. There were 51 oral presentations by the faculty and students of ANDC where they got the opportunity to present their work. The event was



successfully culminated, first of its kind to be executed by any college under University of Delhi, with the hope that it will play a pivotal role in inspiring further synergy on a global scale, which is the only feasible way to manage and sustain our environment. The ambitious feat of planning and executing this week long international conference was possible because of the accommodating nature of all involved. Best Oral and Poster presentations were awarded during the valedictory function.



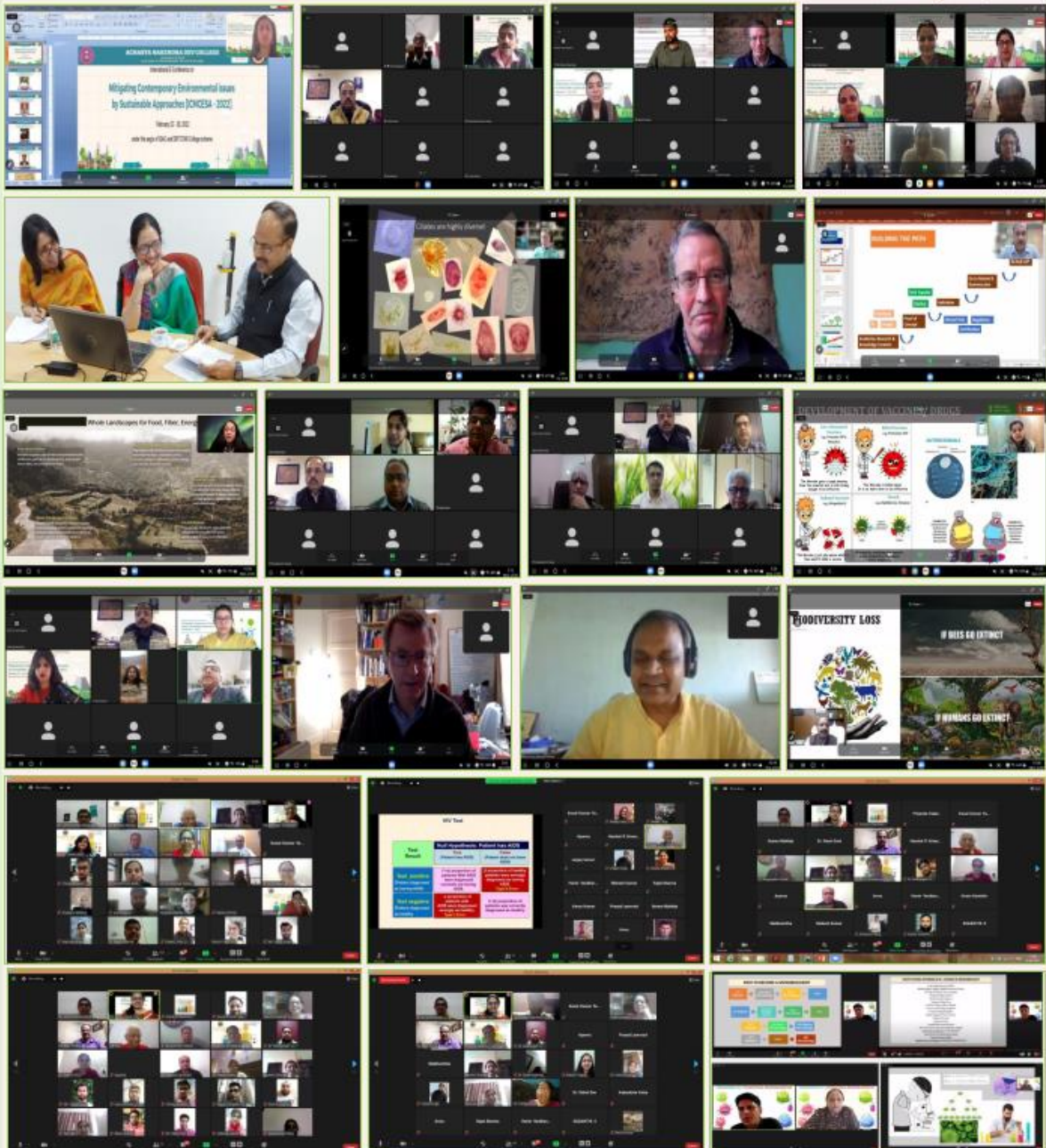




**Acharya Narendra Dev College**  
NAAC Accreditation Grade 'A' NIRF Ranking 20



**DBT Star Department – Department of Zoology**  
**PHOTO GALLERY OF NATIONAL & INTERNATIONAL CONFERENCES**





## Mitigating Contemporary Environmental Issues by Sustainable Approaches

# Acharya Narendra Dev College shows the way



Dr. Ravi Chaturvedi

Environmental sustainability covers a wide range of issues starting from a specific location to a global situation. Global issues comprise concerns about GHG mitigation, climate change, and renewable energy, while the location-specific issues are soil erosion, water management, soil quality, and air and water pollution.

Befittingly, giving priority to environmental issues, Acharya Narendra Dev College of University of Delhi while celebrating the Science Week organised an International E-Conference on Mitigating Contemporary Environmental Issues by Sustainable Approaches recently. Kudos to dynamic Principal Dr. Ravi Toteja, visionary teacher Dr. Seema Makhija, faculty members and students for their initiative and efforts on a burning issue confronting the mankind at the moment.

It will be pertinent to point out that known as prima donna of education in The University of Delhi, Acharya Narendra Dev College accredited 'A' Grade by NAAC with a score of 3.31 has been awarded Star status by DBT. It is another feather of success in the cap of Principal Prof. Toteja and the faculty members of a centre of knowledge and learning.

In the wake of recently declared "Decade of Action" proclaimed by the UN, the main focus of the conference was on the pressing environmental concerns and the urgent need to adopt sustainable approaches worldwide to protect the habitat. The significance of a burning topic of the conference drew eminent scholars from diverse fields to converge on to college auditorium from Australia, Czech Republic, Slovenia, UK, Uruguay and USA who participated actively in the deliberations of the conference. Adhering to COVID-19 protocols, constraints regarding travel restrictions and social distancing, the conference still turned out to be a benchmark on "Mitigating Contemporary

Environmental Issues by Sustainable Approaches".

There were a total 16 keynote speakers from all over the world who shared their innovative knowledge and application methodology with regard to environment in the conference. There were 28 invited speakers from such diverse domains - Professors, Academicians, Environmentalists, Researchers from Environmental related fields, Scientists involved in Mitigation of Environmental issues and even Legal Practitioners.

Prof. Gaytha A. Langlois, a dozen in crafting municipal and statewide environmental policies, Department of Environmental Policy, Bryant University, Rhode Island, USA, was plenary speaker who graced the inaugural deliberations. She focused on the crises of misalignment of policy goals and strategies of navigating environmental challenges in talk entitled, "Syzygy or Sisypheus: The Future of Environmental Policy Making".

This E-conference was unique in dealing with diverse themes while the scope of the conference covered important areas extensively - ranging from Environmental Assessment, Environmental Mitigation by Physical, chemical and biological approaches, Biodiversity conservation and reclamation, Laws and Policies for Environmental protection, GIS mapping and remote sensing for environmental assessment, Environmental toxicology, Sustainable cities and communities, Environmental economics and eco-entrepreneurship, Igniting young minds for environmental sensitization, Data analytics in environment, Green Finance and Environment & Public Health.

Apart from the talks by keynote speakers and participants the conference



also focused on pragmatic and empirical approach to the theoretical discussions. There were more than 100 oral presentations by undergraduates, postgraduates, research scholars and faculty members from Kashmir to Kerala.

An outreach program for school students, "ECOVILLE" was another important component of the E-conference where avant-garde research projects, video presentations, environmental quiz and paper presentations were invited. The major initiative of this outreach program was aimed at introducing young minds to innovative thinking and open pathways for research to the aspiring environmentalist. It was designed to encourage and involve students by funding avant-garde projects, awarding exciting prizes for quiz winners, best presenters while giving certificates to all. Another highlight of the conference was the inauguration of Virtual lab presided over by Dr. Garima Gupta, Scientist F, Department of Biotechnology, Govt. of India.

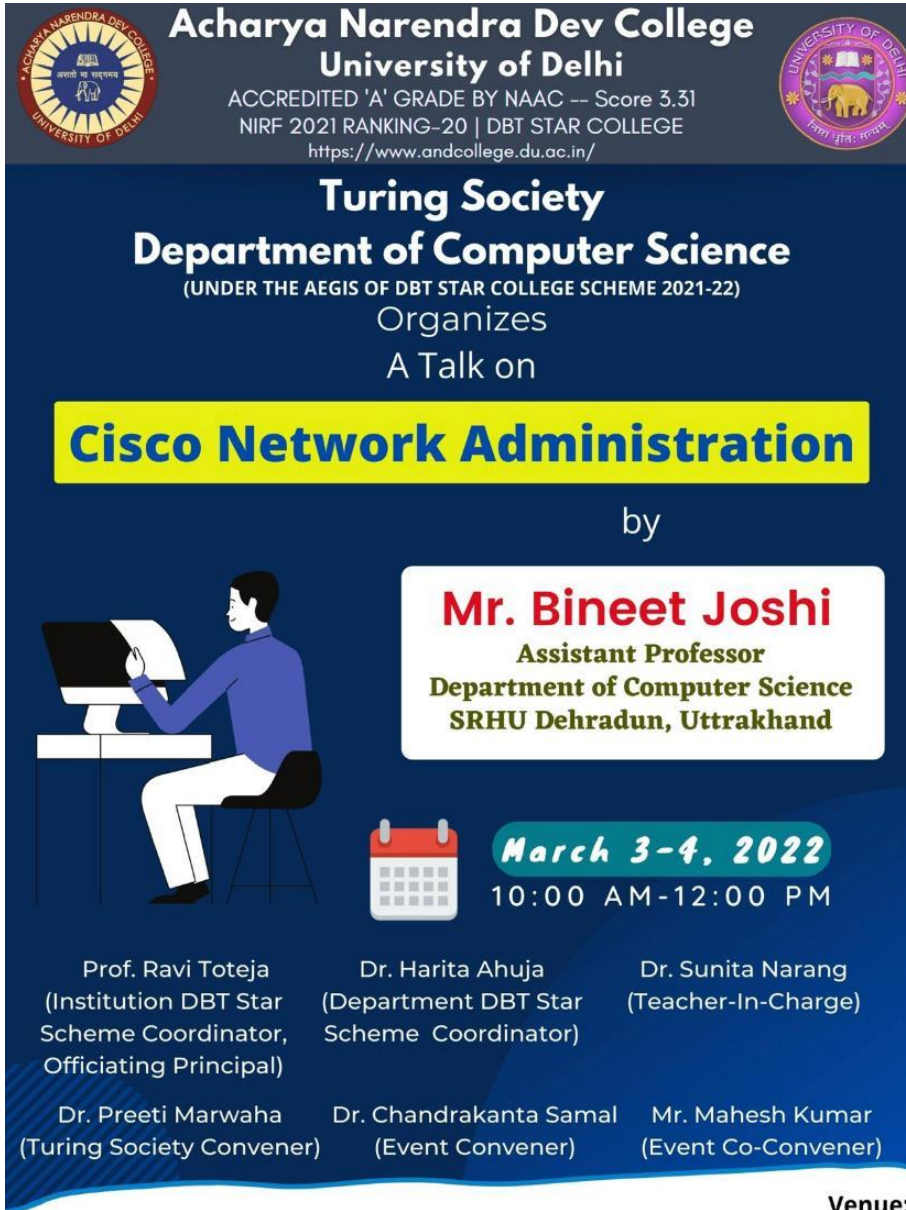
Prof. Ravi Toteja, Principal of the College on behalf of the entire faculty and students, had sense of pride at the successful culmination of an unique event, the maiden venture of its kind in the annals of the colleges of the University of Delhi. The event left a feeling of buoyancy in Prof. Toteja who felt that it will play a pivotal role in inspiring further synergy on a global scale, which is the only feasible way to manage and sustain our environment. The ambitious feat of planning and executing this week-long international conference was possible because of the accommodating nature of all involved. Right in sync with the driving force required in bringing substantial change in approach towards environment, everyone participated in the conference with a sense of awe towards a larger cause of the health of our Mother Nature!

The recommendations of the conference were aimed at environmental sustainability, provision of clean

drinking water and the pointer that road towards progress are the vision of tomorrow. Successful environmental sustainability and global water initiative are in the process of new scientific vision. Provision of clean drinking water stands as a major prerogative of successful sustainable development in developed and developing countries. Environmental pollution control, industrial wastewater treatment, and veritably drinking water treatment in today's world are at a disastrous state with devastating end. History of science needs to be restructured at this crucial juncture. Environmental sustainability is in a disastrous state of immense distress. History of human civilisation is at veritable crossroads. Man's vision, as well as a scientist's progress is in the process of re-envisioning with every step of progress. Dr. Ravi Toteja, Dr. Seema Makhija and the entire team are to be commended for their laudable efforts for organising the event with perfection and precision.



## 122. “Cisco Network Administration”



The poster is for a technical talk titled "Cisco Network Administration". It is organized by the Turing Society, Department of Computer Science, Acharya Narendra Dev College, University of Delhi. The talk is by Mr. Bineet Joshi, Assistant Professor at SRHU Dehradun, Uttarakhand. The dates are March 3-4, 2022, from 10:00 AM to 12:00 PM. The venue is Lab 3, 4, 5, Department of Computer science, Acharya Narendra Dev College. The poster also lists several faculty members involved in the event.

**Acharya Narendra Dev College**  
**University of Delhi**  
ACCREDITED 'A' GRADE BY NAAC -- Score 3.31  
NIRF 2021 RANKING-20 | DBT STAR COLLEGE  
<https://www.andcollege.du.ac.in/>

**Turing Society**  
**Department of Computer Science**  
(UNDER THE AEGIS OF DBT STAR COLLEGE SCHEME 2021-22)  
Organizes  
A Talk on

**Cisco Network Administration**

by

**Mr. Bineet Joshi**  
Assistant Professor  
Department of Computer Science  
SRHU Dehradun, Uttarakhand

**March 3-4, 2022**  
10:00 AM-12:00 PM

Prof. Ravi Toteja  
(Institution DBT Star  
Scheme Coordinator,  
Officiating Principal)

Dr. Harita Ahuja  
(Department DBT Star  
Scheme Coordinator)

Dr. Sunita Narang  
(Teacher-In-Charge)

Dr. Preeti Marwaha  
(Turing Society Convener)

Dr. Chandrakanta Samal  
(Event Convener)

Mr. Mahesh Kumar  
(Event Co-Convener)

Venue:  
Lab 3, 4, 5, Department of Computer science, Acharya Narendra Dev College

## REPORT

Turing society of Department of Computer Science in collaboration with Internal Quality Assurance cell under the aegis of DBT Star College Scheme 2021-22 of the Acharya Narendra Dev College organized a technical talk on the topic of “Cisco Network Administration” on 3<sup>rd</sup> & 4<sup>th</sup> March 2022 at 10:00 AM-12:00 PM in Seminar Hall. The



Talk was convened by **Dr. ChandraKanta Samal**. It was attended by the students and faculty. We had **Mr. Bineet Kumar Joshi** as our eminent guest speaker. He is working as an Assistant Professor in Department of Computer Science, Swami Rama Himalayan University.

**Day 1:** Mr. Bineet Joshi gave an overview of Cisco Network and Company. He taught students the importance of CCNA and CCNP certification. He then taught various topics related to Computer Networks like types of Networks etc. Important topics like what are Switches, Hubs, and Routers were covered in detail. The basics of Networks were covered on first day.

**Day 2:** On day 2 Sir presented how networks can be created by online simulation using Cisco Packet Tracer. He created various networks using first only Hubs, then Switches, then Routers. He gave a contrast of how connecting devices like PC and Laptop using Switches differ from Routers or Hubs. Sir, enunciated how various network devices are configured. He also explained the advantages and disadvantages of Hubs, Switches, and Routers. The simulation was highly interactive and by the end we had a doubt session.

At the end, Dr. Chandrakanta Samal delivered a vote of thanks to Speaker and concluded the session. All Participants were interactive and shown keen interest in the topic of the talk. The talk was a great success.














### 123. “Wireless Security Network ”



**ACHARYA NARENDRA DEV COLLEGE**  
**UNIVERSITY OF DELHI**  
ACCREDITED 'A' GRADE BY NAAC- Score 3.31  
NIRF 2021 Ranking-20 | DBT Star College  
<https://www.andcollege.du.ac.in/> +91-(0)11-26294540

**TURING SOCIETY**  
**DEPARTMENT OF COMPUTER SCIENCE**  
(UNDER THE AEGIS OF DBT STAR COLLEGE SCHEME 2021-22)  
**ORGANIZES**  
A Talk On  
**Wireless Network Security**  
by  
**Prof. Sanjay Kumar Dhurandher**  
Professor and Head  
Department of Information Technology,  
Netaji Subhas University of Technology



**Prof. Ravi Toteja**  
(Institution DBT Star Scheme Coordinator,  
Officiating Principal)

**Dr. Sunita Narang**  
(Teacher-In-Charge)

**Dr. Harita Ahuja**  
(Department DBT Star Scheme  
Coordinator)

**Dr. Preeti Marwaha**  
(Turing Society Convener)

**Dr. Chandrakant Samal**  
(Event Convener)

**Ms. Nishu Singh**  
(Event Co-Convener)

**04 MARCH 2022 | 2PM TO 4PM**  
**VENUE:- LAB 3, 4, 5 DEPARTMENT OF COMPUTER SCIENCE,**  
**ACHARYA NARENDRA DEV COLLEGE**

## REPORT

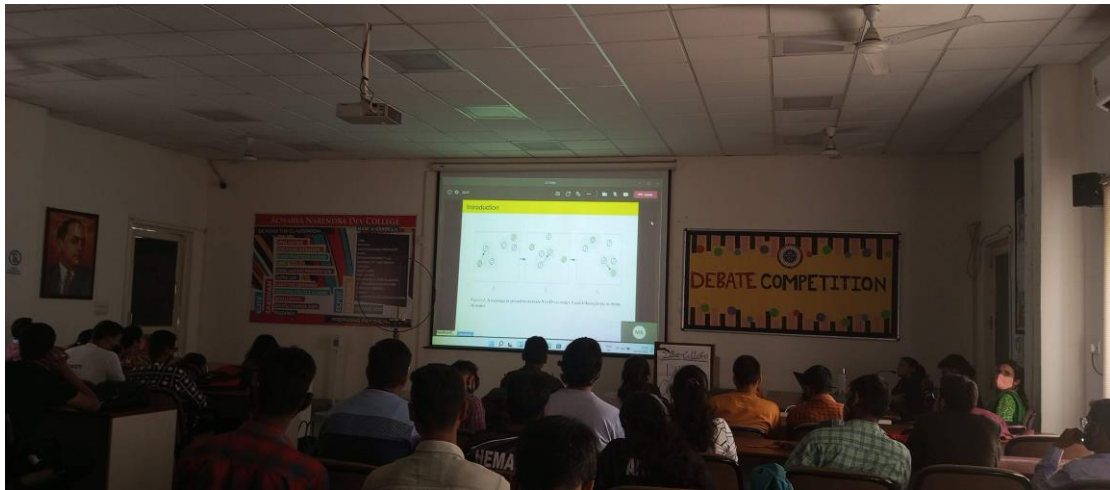
**Turing society of Department of Computer Science in collaboration with Internal Quality Assurance cell under the aegis of DBT Star College Scheme 2021-22 of the Acharya Narendra Dev College organized a technical talk on the topic of “Wireless Security Network ” on 4<sup>th</sup> March 2022 at 02:00 PM-04:00 PM in Seminar Hall. The Talk was convened by Dr. ChandraKanta Samal. It was attended by the students and faculty. We had Prof. Sanjay Kumar Dhurandher as our eminent guest speaker. He is working as an as Professor and Head in the Division of Information Technology, Netaji Subhas Institute of Technology (NSIT), University of Delhi, India.**

Prof. Sanjya Stated the talk with brief introduction about Opportunistic networks and explained the concept of Opportunistic networks and how they are different from normal ones. He explained various advantages and disadvantages of the same. He also explained about all the areas the Opportunistic Networks are in widely use. He taught about 6 models based on Opportunistic Networks and explained their strengths and weaknesses. He also explained algorithms of all models. He also taught students the various research area for future related to Opportunistic Networks and how students who are interested in this field can proceed in future. In the end he took doubts of students.

At the end, Dr. Chandrakanta Samal delivered a vote of thanks to Speaker and concluded the session. All Participants were interactive and shown keen interest in the topic of the talk. The talk was a great success.







## 124. Energy Work to Declutter and Re-energize

The poster is for an event organized by Acharya Narendra Dev College, University of Delhi. It features the college's logo and accreditation details (NAAC Grade 'A', NIRF All India Ranking - 20). The event is hosted by Sashakt, The Women Empowerment Society. The topic is 'Energy work to declutter and re-energize'. The resource person is Seema Sharma, a Reiki Master associated with Cosmic Rhythm, Indore. The event is held at the Conference Hall, ANDC, on 8th March, 2022, at 01:00 PM. The poster also lists the officiating principal, convenor, event manager, and volunteers.

**Acharya Narendra Dev College**  
University of Delhi  
NAAC ACCREDITED GRADE 'A' | NIRF ALL INDIA RANKING - 20

**Sashakt**  
The Women Empowerment Society  
Invites you to  
**Interactive Talk**

**Topic :- Energy work to declutter and re-energize**

 **Resource Person**  
**Seema Sharma**  
Reiki Master  
Organization associated with  
Cosmic Rhythm, Indore.

 **Conference Hall, ANDC**

 **8th March, 2022  
01:00 PM**

**Prof. Ravi Toteja**  
(Officiating Principal)

**Dr. Geetika Kalra**  
(Convenor)

**Swati Shukla**  
(President)

**Vikas Singh**  
(Vice-President)

**Khushi Agrawal**  
(Event Manager)

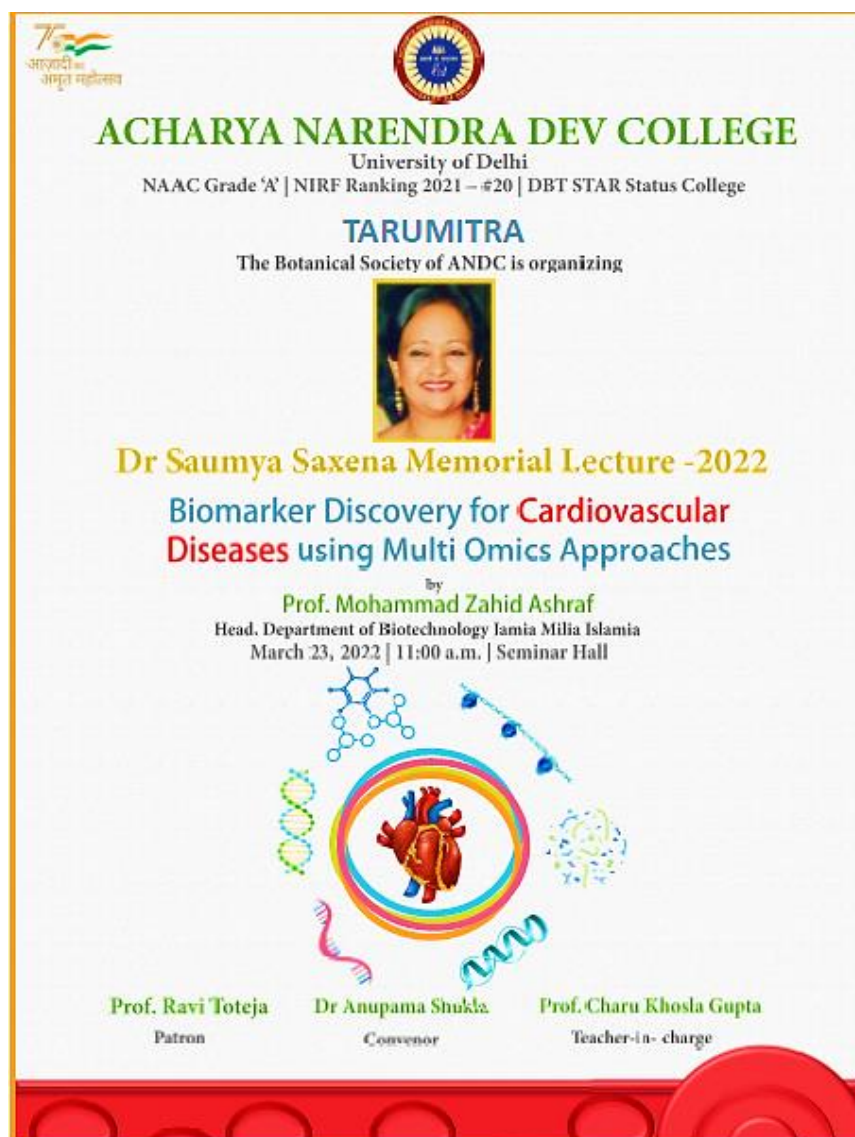
**Kirti**  
(Volunteer)

## Report

The college reopened and the society organised offline interactive talk by reiki masters, Ms. Seema Sharma on the topic 'Energy work to declutter and re-energize' on March 08, 2022. This was to address the mental health of our students who suffered quite a lot during the pandemic.



## 125. 'Biomarker discovery for cardiovascular diseases using multiomics approaches'



### Report

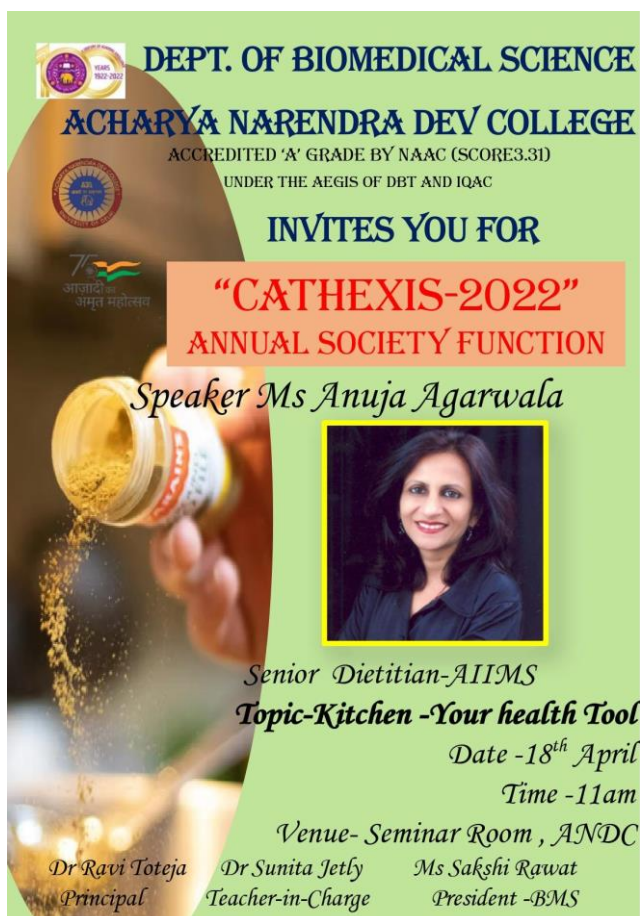
Department has organized Dr. Saumya Saxena Memorial talk on 'Biomarker discovery for cardiovascular diseases using multiomics approaches' by Prof. Mohammad Zahid Ashraf, Head, Department of Biotechnology, Jamia Milia Islamia University, New Delhi on March 23, 2022. Professor enlightened the gathering by progress made by medical science in early detection of cardiovascular disease and their cure. He also highlighted about his research on the various implication of high-altitude sickness and hypoglycemia in soldiers posted in Leh, Siachen glacier.





## 126. Cathexis-22: Kitchen is your health tool

The Department of Biomedical Science, Acharya Narendra Dev College organized its annual festival, Cathexis'22, on April 18, 2022 in the seminar hall of the college. Ms. Anuja Aggarwal, Senior Dietitian, AIIMS delivered a talk on the topic "Kitchen is your health tool". During the event, the editorial Society of the department also released its annual magazine, Biomer'22 'Kitchen is our health tool'. The undergraduate students from the department enthusiastically participated in various activities held viz. Heads up, Murder Mystery, Quiz-O-Mania and Whisper challenge.




**DEPT. OF BIOMEDICAL SCIENCE**  
**ACHARYA NARENDRA DEV COLLEGE**  
ACCREDITED 'A' GRADE BY NAAC (SCORE 3.31)  
UNDER THE AEGIS OF DBT AND IQAC

**INVITES YOU FOR**

**"CATHEXIS-2022"**  
**ANNUAL SOCIETY FUNCTION**

*Speaker Ms Anuja Agarwala*



*Senior Dietitian-AIIMS*  
**Topic-Kitchen -Your health Tool**  
Date -18<sup>th</sup> April  
Time -11am  
Venue- Seminar Room , ANDC

*Dr Ravi Toteja*    *Dr Sunita Jetly*    *Ms Sakshi Rawat*  
Principal    Teacher-in-Charge    President -BMS



**DEPT BIOMEDICAL SCIENCE**  
CATHEXIS - BMS SOCIETY  
PRESENTS ITS ANNUAL FUNCTION

**Talk** CATHEXIS'22

**Kitchen -Your health Tool;**  
Speaker Ms Anuja Aggarwal  
11:00 am Seminar Hall  
12:30 pm: Unveil the Biomer'22

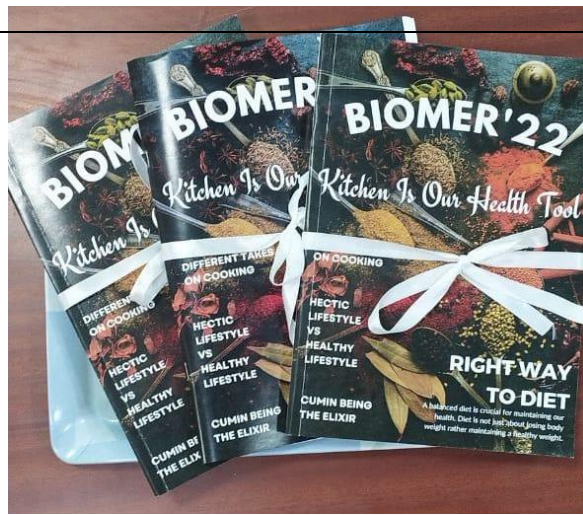
**Events and Student Coordinators**

**Heads up**  
\*Yash and Sharika  
**Murder Mystery;**  
\*Mehak and Shrishti  
**Quiz-O-Mania**  
\*Deeparati and Harinandna  
**Whisper Challenge**  
\*Hiya and Himanshi

**Organizing Team**  
Dr Satendra Singh  
Dr Ritu Khosla  
Dr Rimpay Kaur

**Office Bearers**  
Nikita Gupta  
□ Sakshi Sharma  
□ Manas Singhal





## 127. Magnetic Nano-structures based Microwave Monolithic signal processing devices: Fabrication and Testing



**ACHARYA NARENDRA DEV COLLEGE**  
(UNIVERSITY OF DELHI)

NAAC ACCREDITATION GRADE 'A' | NIRF 2020 ALL INDIA RANKING - 18

**ELECTROBLITZ**

Department of Electronics with DBT Star College Scheme and IQAC

*Presents*

**INVITED TALK**

MAGNETIC NANO-STRUCTURES BASED  
MICROWAVE MONOLITHIC SIGNAL PROCESSING  
DEVICES; FABRICATION AND TESTING

● Seminar Hall, Acharya Narendra Dev College

**10:00 AM onwards**

**19<sup>TH</sup> APRIL 2022**

**# ELECTRONIKA**

**PATRON**  
Prof. Ravi Toteja

**TEACHER COORDINATOR**  
Prof. Anju Agrawal  
9810215970

**TEACHER COORDINATOR**  
Prof. Amit Garg  
9811341037

**STUDENT COORDINATOR**  
Ms. Shruti Yadav  
8577827574

### Report

An Invited Talk on 'Magnetic Nano- structures based Microwave Monolithic Signal Processing Devices' was delivered by Prof. Bijoy Kumar Kuanr, Special Centre for Nanoscience, JNU, New Delhi on April 19, 2022.



## 128. Menstrual Health and Hygiene



**ACHARYA NARENDRA DEV COLLEGE**

University of Delhi



**SHASHAKT**

**The Society for Women Empowerment**

in collaboration with

**Global Hunt Foundation**

Invites you for a talk

on

**Menstrual Health And Hygiene**

by

**Ms. Roshnee Bhowmick**

**Date- 22<sup>nd</sup> June 2022**

**Time 5 pm**

**Joining Link -**



**Convenor- Dr Anita Narang**

**Patron Prof Ravi Toteja**



## **Report**

On 22nd June, 2022 an online workshop was held in collaboration with the Global Hunt Foundation. Ms Ankita Sukhwai of Global Hunt Foundation delivered a talk on

Menstrual Health and Hygiene highlighting the importance of proper nutrition, care and hygiene during the menstrual cycle. Many students and faculty joined the workshop on google meet forum.

## 129. The Beat Covid Campaign

### Report

The Beat Covid Campaign - MGNCRE, MINISTRY OF EDUCATION July 05, 2021 was conducted for inspiring students to undertake activities under VID IPSA. The aim of the project was to educate the underprivileged children, especially the girl child, living in slums.



### 130. Project “Ek Aashiyainkabhi”

#### Webinar on Health and Medicinal plants


##### Report

A webinar on Health and Medicinal plants was organized where Shri Rakesh Kumar gave knowledge about plants like Amrita Aloe Vera Tulsi etc on August 04, 2021. This year a project was initiated on July 15, 2021 called “Ek Ashiyainkabhi” where the importance of the ecosystem of urban sparrows was highlighted through posters and discussion. World acclaimed Mr Rakesh Khatri ji taught the volunteers how to make a nest on July 21, 2021. Birds Photography Competition under Project “Ek Aashiyainkabhi” for sparrows was organized for goading the cause further.





### 131. Poem Recitation on Kargil Vijay Diwas

The poster features a background image of Indian soldiers in combat, with one soldier prominently holding the Indian national flag. The text is overlaid on this image. At the top left is the Acharya Narendra Dev College logo, and at the top right is the National Service Scheme logo. The main title 'NATIONAL SERVICE SCHEME' is in large, bold, yellow letters. Below it, 'presents' is written in a cursive font, followed by 'Poem Recitation' in large white letters, and 'on the occasion of' in a smaller cursive font. The event name 'KARGIL VIJAY DIWAS' is in large, bold letters, with 'KARGIL' in orange, 'VIJAY' in white, and 'DIWAS' in green. The date, time, and venue are listed in white text. At the bottom, the names and titles of the organizers are listed in white text.

ACHARYA NARENDRA DEV COLLEGE  
University of Delhi

**NATIONAL SERVICE SCHEME**  
*presents*  
**Poem Recitation**  
*on the occasion of*  
**KARGIL VIJAY DIWAS**

Date - 25th July 2021  
Time - 6 pm  
Venue- Google meet

Dr. Ravi Toteja  
Principal

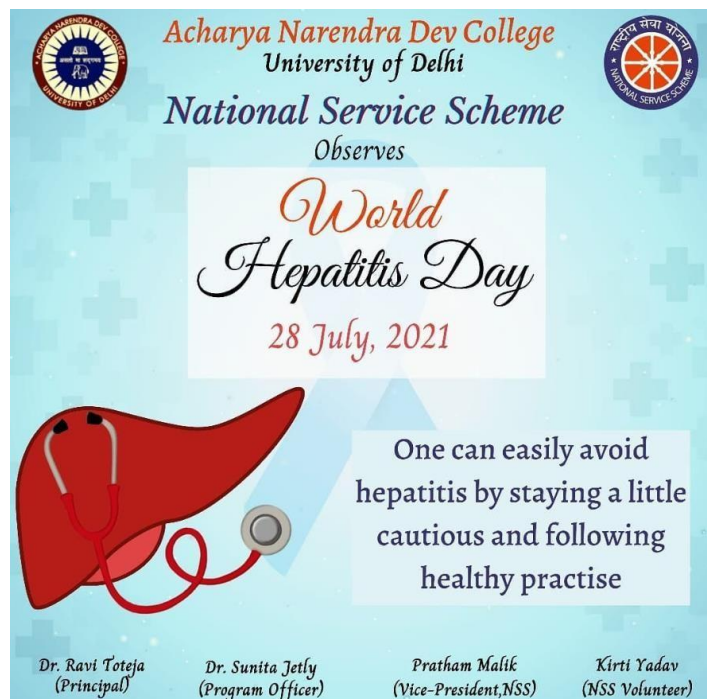
Dr. Sunita Jetly  
Program officer

Niharika Upadhyay  
NSS President

### Report

Kargil Vijay Diwas or Kargil Victory Day is celebrated every year on July 25 to commemorate the historic victory of India over Pakistan in the Kargil war in 1999. Poem Recitation was conducted by the NSS team to remember all the brave soldiers who fought for us. Students participated eagerly and through their poem their bravery was portrayed.

### 132. World Hepatitis Day through digital posters



### Report

NSS unit of ANDC observed World Hepatitis Day on 28th July, 2021 with a motive to educate everyone that it can be easily avoided by staying a little cautious and following healthy practices.

### 133. Webinar - Hepatitis can't wait



**NATIONAL SERVICE SCHEME  
IHE & ANDC  
(UNIVERSITY OF DELHI)**  
*presents a webinar*

# Hepatitis can't wait!

ON THE OCCASION OF  
WORLD HEPATITIS DAY



**1ST AUGUST- 11AM**

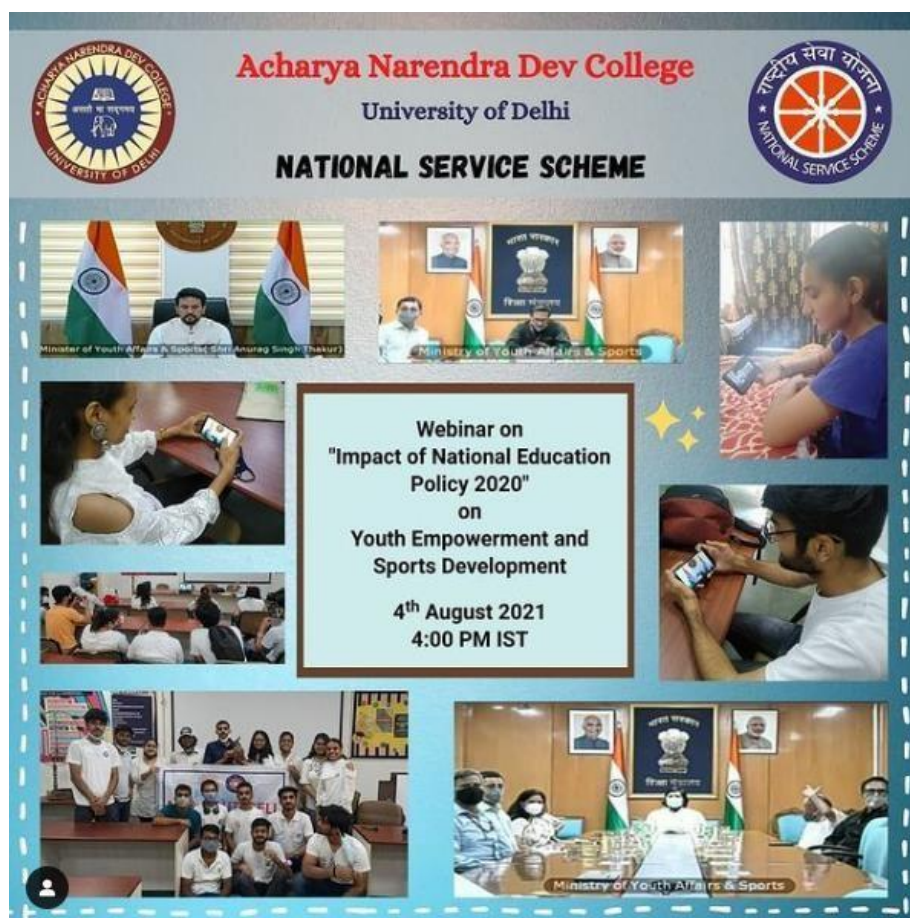
**DR. AMIT KUMAR**  
MBBS (MAMC), DMRD, DNB,  
FRCR  
Department of Radiodiagnosis  
KMMCH, Mathura

@nssihe @nss\_andc 8860069161 7678207162

### Report

NSS Unit of ANDC organized a webinar on the occasion of World Hepatitis Day on 1st August, 2021. Dr. Amit Kumar, MBBS (MAMC), Department of Radiodiagnosis, KMMC, Mathura was the resource person.

### 134. Webinar on Impact of National Education Policy on Youth Empowerment and Sports Development



### Report

Students attended the speech on Celebrating One Year of National Education Policy 2020 by Honorable Prime Minister July 29, 2021. A Webinar on Impact of National Education Policy on Youth Empowerment and Sports Development was organized on August 04, 2021.



### 135. Webinar on cancer prevention and adopting a healthy life style

The image displays a promotional banner for a webinar on the left and a live screen capture of the webinar on the right.

**Webinar Banner (Left):**

- Logos:** NSS NSUT CELL, NSS ANDC, and Sanjeevani.
- Text:** "NSS NSUT CELL & NSS ANDC in collaboration with Sanjeevani Life Beyond Cancer brings you a WEBINAR on Cancer Prevention Adopting a Healthy Lifestyle".
- Speaker:** Ms. Florina Singh, Senior Program Coordinator, SANJEEVANI Delhi & Chandigarh Chapter, Awarded as Sanjeevani Angel 2021.
- Date/Time:** August 4, 6:00 PM.

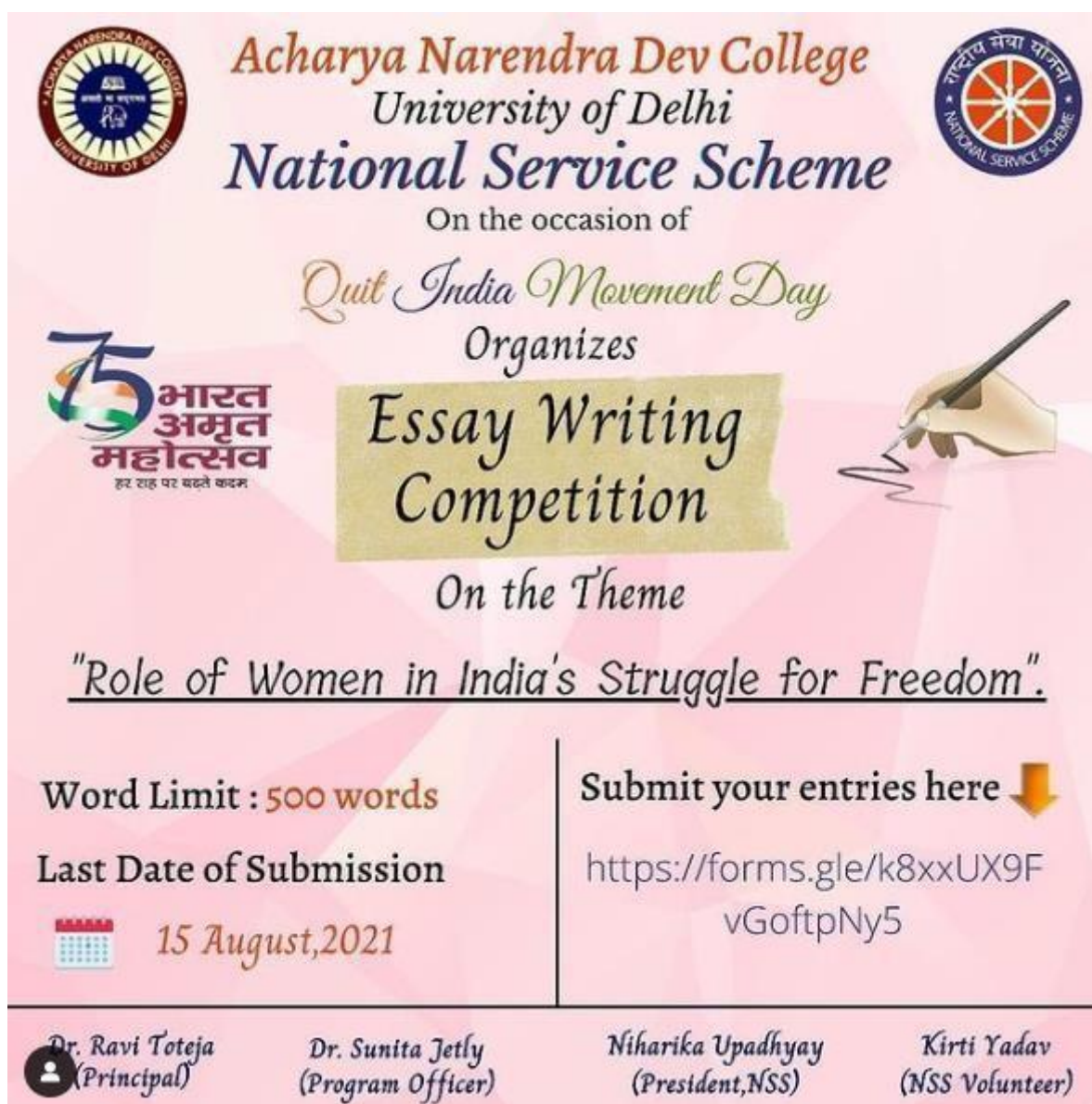
**Webinar Screen (Right):**

- Header:** "LIVE".
- Logo:** SANJEEVANI ...life beyond cancer.
- Text:** "Great Place To Work. Certified".
- Locations:** Mumbai - Wardha - Jaipur - Kolkata - Ahmedabad - Bangalore - Delhi - Surat - Guwahati - Goa - Puducherry - Bikaner - Rishikesh - Nagpur - Hyderabad - Vishakhapatnam.
- Contact Info:** admin@sanjeevani-lifebeyondcancer.com, Helpline: +91 8691 000 800, www.sanjeevani-lifebeyondcancer.com, https://www.facebook.com/SLBCMam/.
- Speaker:** Florina Sanjeevani Life Beyond Cancer's screen.

### Report


The Breast Cancer Month started with Webinar on cancer prevention and adopting a healthy life style in collaboration with Sanjeevani on August 04, 2021 followed by poster, reels, quiz, film screening on breast cancer prevention and detection.


### 136. Essay Writing Competition- Role of women in India's freedom struggle




**Acharya Narendra Dev College**  
University of Delhi  
**National Service Scheme**

On the occasion of  
*Quit India Movement Day*  
Organizes  
**Essay Writing Competition**  
On the Theme  
"Role of Women in India's Struggle for Freedom".

Word Limit : **500 words**  
Last Date of Submission  
 **15 August, 2021**

Submit your entries here   
<https://forms.gle/k8xxUX9FvGoftpNy5>

 **Dr. Ravi Toteja**  
(Principal)

**Dr. Sunita Jetly**  
(Program Officer)

**Niharika Upadhyay**  
(President, NSS)

**Kirti Yadav**  
(NSS Volunteer)

#### Report

NSS unit of ANDC on the occasion of Quit India Movement Day organises an Essay Writing Competition on the theme "Role of Women in India's Struggle for Freedom" on Independence day. Students actively participated in the competition.

137. Title: Interactive quiz based on quotes and beliefs of Freedom Fighter

**Acharya Narendra Dev College**  
University of Delhi  
**National Service Scheme**  
on the occasion of

**CELEBRATING 75 YEARS OF INDEPENDENCE**

**Interactive Quiz**  
based on famous quotes and  
beliefs of our  
**Freedom Fighters**

**# आज़ादी का अमृत महोत्सव**

**GOOGLE MEET : [meet.google.com/men-wras-jwt](https://meet.google.com/men-wras-jwt)**

**DATE : 15 AUGUST 2021**  
**TIME : 6:00 P.M.**

**Prof. Ravi Toteja** (Officiating Principal)  
**Dr. Sunita Jetly** (Program Officer)  
**Rajat Sharma** (Secretary, NSS)  
**Ankush Rana** (NSS Volunteer)

### Report

To celebrate 75 years of Independence NSS unit of ANDC organised an Interactive Quiz based on famous quotes and beliefs of our Freedom Fighters on 15th August, 2021 at 6.00 p.m via Google Meet.



### 138. Plogging drive

Name of collaborating agency: NSUT

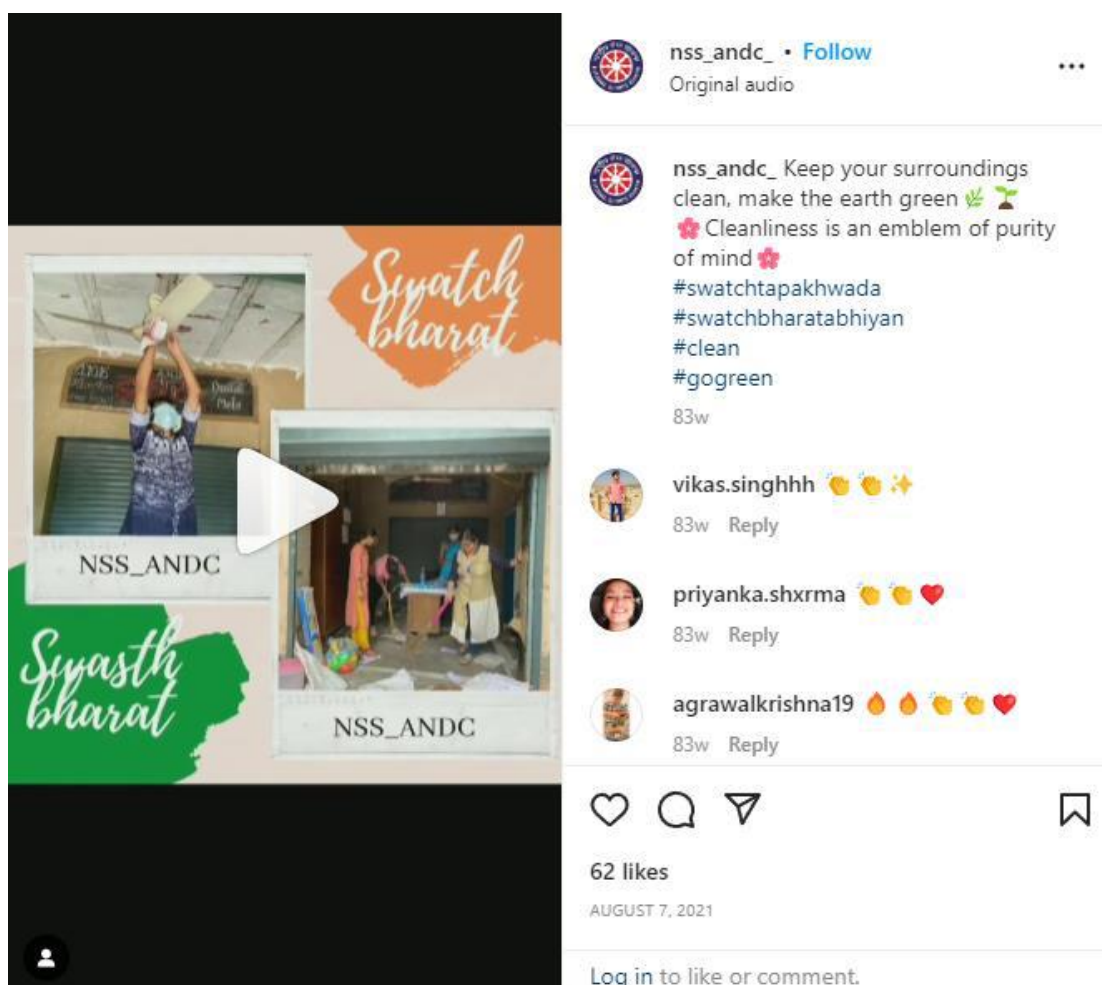


### Report

NSS unit of ANDC in association with NSS unit of NSUT did plogging drive on 16th August, 2021 at NSUT campus for the benefit of environment.



### 139. Swachhta Pakhwada - Pledge Taking Ceremony



[https://www.instagram.com/reel/CSQuugwBjVm/?utm\\_source=ig\\_web\\_copy\\_link](https://www.instagram.com/reel/CSQuugwBjVm/?utm_source=ig_web_copy_link)

### Report

Volunteers performed various activities to reemphasize the importance of sanitation and cleanliness especially in the milieu of this pandemic. The first attempt under this project was the offline cleaning drive of NSS Room and surrounding inside the college. Several such cleanliness drives inside the college were undertaken from August till December. Swachhta Pakhwada was celebrated with posters and video making and it culminated with Pledge Taking Ceremony on August 18, 2021.

**140. Group Discussion on Sanskrit and Science are Synonymous on the occasion of World Sanskrit Day**

**Acharya Narendra Dev College**  
University of Delhi  
**NATIONAL SERVICE SCHEME**  
organizes  
**Group Discussion on**  
**(SANSKRIT AND SCIENCE ARE SYNONYMOUS)**  
on the Occasion of  
**WORLD SANSKRIT DAY**  
**2021**

**DATE: 23/08/21** **TIME: 5:00 PM - 6:00 PM**  
**GOOGLE MEET LINK: <https://meet.google.com/fuz-qojm-rsf>**

**Prof. Ravi Toteja** **Dr. Sunita Jetly** **Rajat Sharma** **Ankush Rana**  
(Officiating Principal) (Program Officer) (Secretary, NSS) (NSS Volunteer)

**Report**

To promote mother tongue and official languages poster awareness was done on World Sanskrit Day on August 22, 2021 followed by Group Discussion on “Sanskrit and Science are Synonymous” on August 23, 2021.

## 141. FIT India Freedom Run of 75th Azaadi ka Amrit Mahotsav


### Report


It was initiated with the aim of motivating students for practicing healthy habits and to attain better physical and mental health outcomes. Social Media handles were extensively used to spread the message through various activities like posters on World Mental Health Day and FIT India Run, Art of Mind Control session under Project Wellness and Nasha Mukti Pledge. Volunteers also participated in FIT India Run on 28th August, 2021 and obtained an appreciation certificate for the same.







**142. Kahaani Bezubaano ki meri Zubaani (Individual story with stray animal) under Project Stray Animal**

**Acharya Narendra Dev College**  
University of Delhi

**National Service Scheme**



*Kahaani Bezubaano  
ki Meri Zubaani*

Theme : Individual story with stray animals.

*Under project*  
Feeding stray animals

Registration link : <https://forms.gle/em6Qkp56VNPir4mh9>  
For further queries contact : Devanshi Saini (98109 72515)

Prof. Ravi Toteja (Principal)      Dr. Sunita Jetly (Program Officer)      Devanshi Saini (Project Head)      Kirti Yadav (NSS Volunteer)

**Report**

NSS, ANDC organized an event of storytelling namely, Kahaani Bezubaano ki meri Zubaani (Individual story with stray animal) was organized on 6 September, 2021.



### 143. Nutrition Drive in adopted villages

#### Report

NSS Unit of ANDC organises Nutrition Drive on 7th September, 2021 to make people aware about the benefits of nutrition for healthy living and encourage them to avoid unhealthy food and consume nutritious food for a good and disease free living.



## 144. Poshan Abhiyan Quiz

### Report

POSHAN Abhiyaan is the flagship programme of Government of India to improve the nutritional outcomes for children, adolescents, pregnant women and lactating mothers. National Nutrition Mission named as the Hon'ble Prime Minister's overarching scheme for Holistic Nutrition –POSHAN Abhiyaan was launched as a multi-ministerial convergence mission. NSS participated in this vision through gamut of activities ranging from Nutrition Drive Poster and videos, Poshan Abhiyan Quiz (8 September, 2021) and Yoga for nutrition workshop to make India malnutrition free.

**Acharya Narendra Dev College**  
University of Delhi  
**National Service Scheme**  
under  
*Poshan Abhiyan*  
organizes  
**Interactive Quiz**  
*Topic : Food Fortification*

08th September, 2021 06:00 PM  
<http://meet.google.com/kiz-awuh-sxq>

Prof. Ravi Toteja (Affiliating Principal)  
Dr. Sunita Jetly (Program Officer)  
Niharika Upadhyay (President, NSS)  
Kirti Yadav (NSS Volunteer)

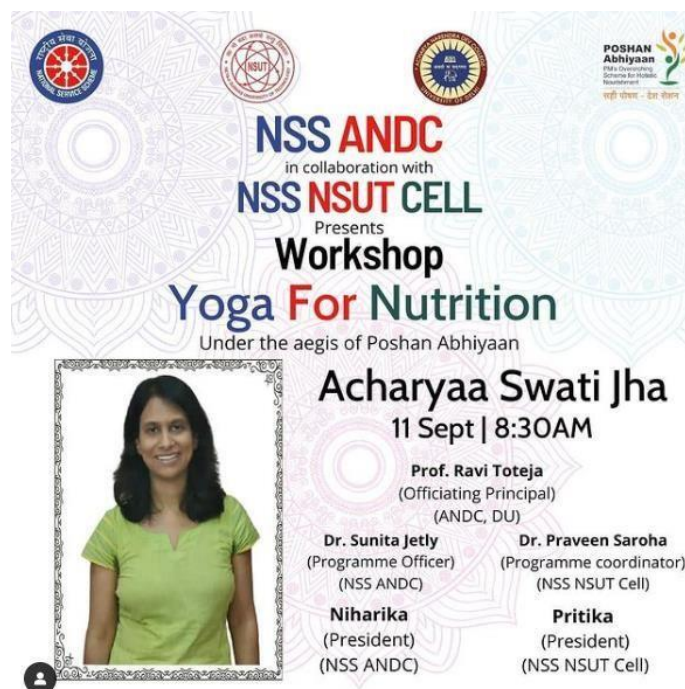
Q-2 What is the chemical name for Vitamin B5?  
A-Ascorbic acid  
B-Pantothenic acid  
C-Acetic acid  
D-Hydrocholric acid

KIRTI is presenting

You Sneha Singhal left 31 others

## 145. Yoga for nutrition workshop – NSUT

Name of collaborating agency: NSUT Cell



## Report

In order to sustain the interest of Volunteers, a Workshop on Yoga for nutrition was held on September 11, 2021.

## 146. Stray Snapx, A photography competition under Project Stray Animals

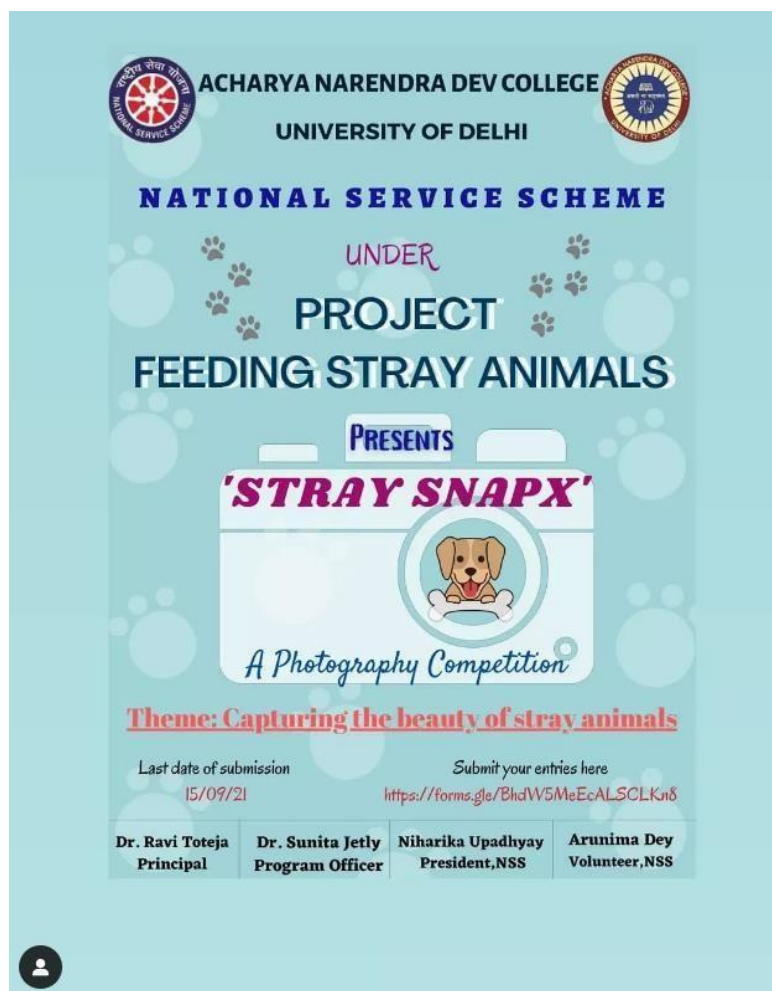
### Report

Stray Snapx” a photography competition was held on September 05, 2021. Stray animals whose responsibility volunteers had taken were fed year-round.





## 147. Feeding Stray Animal (for 1 month) - 1 under Project Stray Animal



### Report

NSS unit under Project Feeding Stray Animals organised a photography competition “STRAY SNAPX” on 15 th September, 2021 on the theme -Capturing the beauty of stray animals .

#### 148. e-Poster Making Competition on World Ozone Day



#### Report

International Day for the Prevention of Ozone Layer (September 16, 2021) was observed by posters on social media handles and e-Poster competition was organized on September 17, 2021.

## 149. Group Discussion on "Gandhian Approach towards Nature Cure"

**Acharya Narendra Dev College**  
University of Delhi  
**National Service Scheme**  
presents  
**Group Discussion**  
on  
**"Gandhian approach towards nature cure"**  
on the occasion of  
**NSS Day**  
(24th September, 2021)

#Azadi ka Amrit Mahotsav


24th September, 2021 2:00P.M. - 4:00P.M.  
<http://meet.google.com/vvc-ynms-bfr>

Prof. Ravi Toteja (Participating Principal) Dr. Sunita Jetly (Program Officer, NSS) Devanshi Saini (Project Head, NSS) Dhaval Arora (Volunteer, NSS)

### Report

NSS unit of ANDC conducted a group Discussion on “Gandhian approach towards nature cure” on the occasion of NSS Day i.e 24 th September, 2021 from 2.00 p.m to 4.00 p.m via Google Meet.

## 150. Integrity Knowledge: A Relay Quiz



**Acharya Narendra Dev College**  
University of Delhi

**National Service Scheme**  
organizes

*"Integrity Knowledge:  
A relay quiz"*

on the occasion of  
**NSS Day**  
(24th September, 2021)

24th September, 2021 5:00P.M. - 7:00P.M.

<http://meet.google.com/zwr-cdiz-soq>

**For further queries contact:**  
Kunal- 95607 94817  
(NSS Volunteer)  
Krishna-98391 50188  
(NSS Volunteer)

### Report

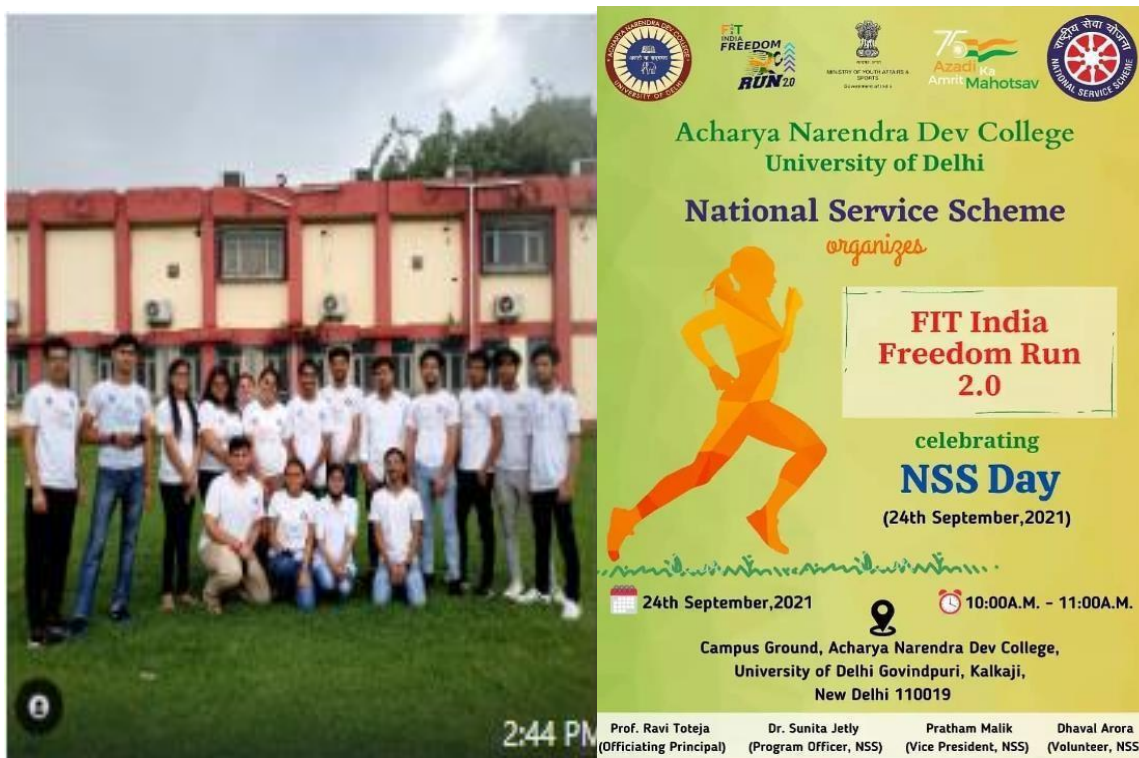
NSS unit of ANDC organises a relay quiz "Integrity Knowledge: A relay quiz" on the occasion of NSS Day i.e on 24 th September,2021 via google meet from 5 p.m to 7 p.m.



## 151. FIT India Freedom Run 2.0

### Report

It was initiated with the aim of motivating students for practicing healthy habits and to attain better physical and mental health outcomes on 24 September, 2021. Social Media handles were extensively used to spread the message through various activities like posters on World Mental Health Day and FIT India Run, Art of Mind Control session under Project Wellness and Nasha Mukti Pledge. Volunteers also participated in FIT India Run and obtained an appreciation certificate for the same.



## 152. Youth Panel Discussion

### Report

Youth panel discussion was organised by NSS, ANDC on the occasion of Gandhi Jayanti via online mode at 4 pm.



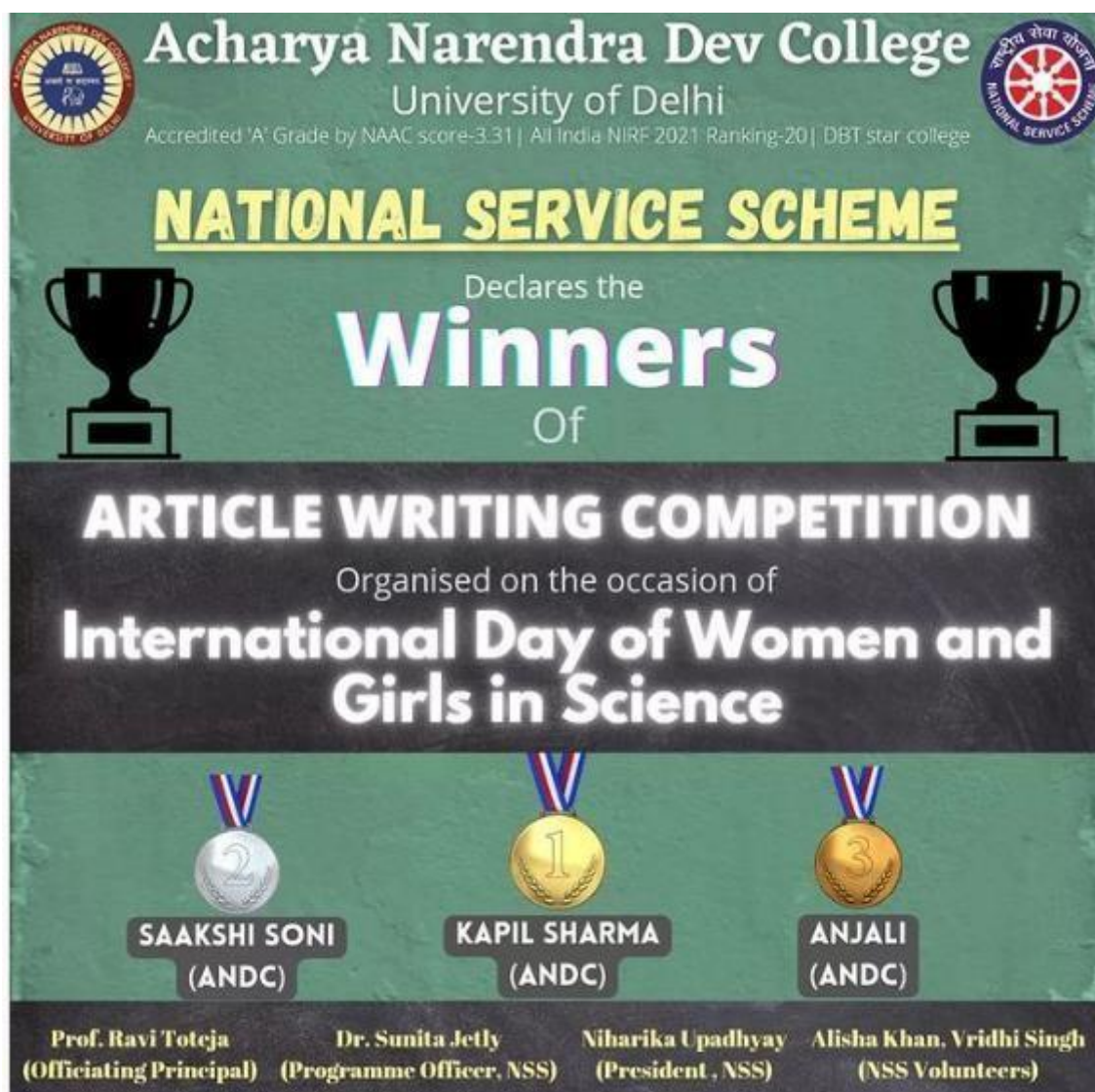
## 153. Dandi Run/ Walk on Gandhi Jayanti

### Report

NSS unit of ANDC organized Dandi Run/Walk on the auspicious occasion of Gandhi Jayanti on 2nd October,2021



## 154. Article writing on occasion of International Day of Women and Girls in science



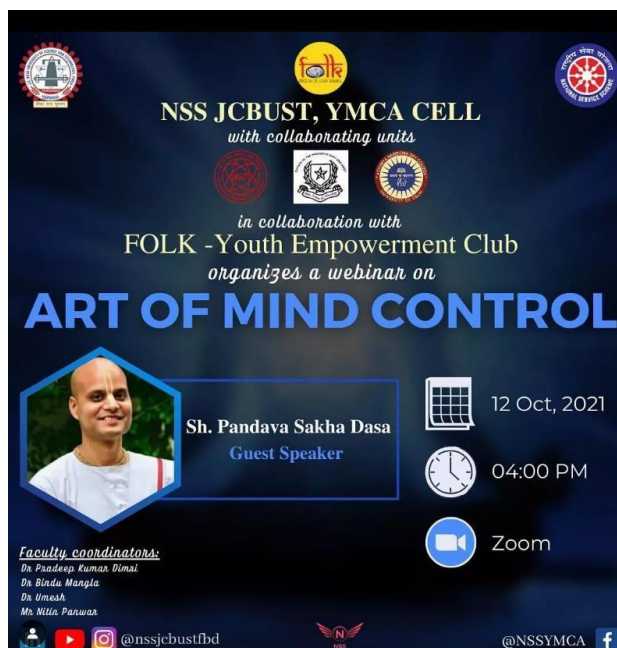
### Report

The Article Writing Competition was held on October 11, 2021, on the occasion of International Women's and Girls' Science Day. International Women's Day was celebrated on March 8, 2022, through a group discussion under the theme of "Today's Gender Equality for a Sustainable Tomorrow." Also commemorated on January 3, 2022, was our revered Savitri bai Jyotirao Phule, a woman who helped establish the first school for girls in India



## 155. Art of Mind Control session under Project Wellness

Name of collaborating agency: YMCA

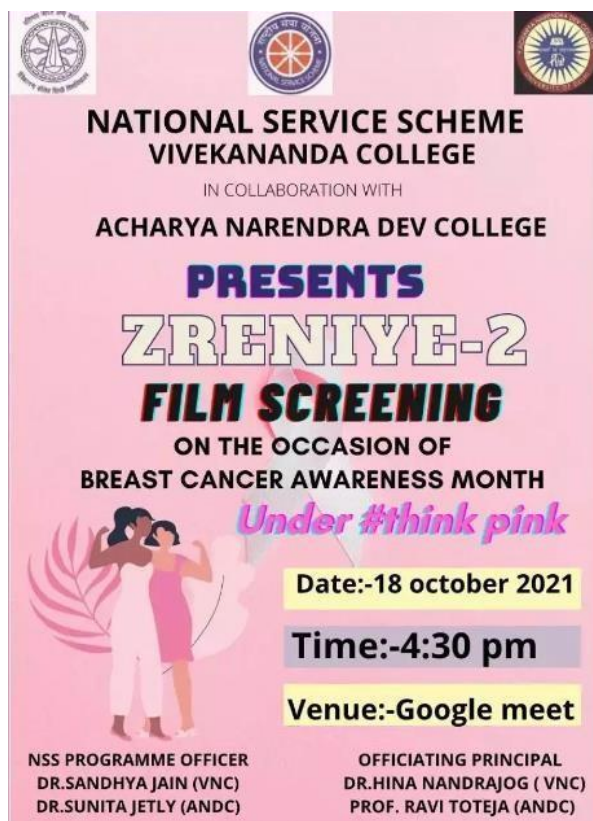


### Report

NSS unit of ANDC in collaboration with Folk-Youth Empowerment Club organises a webinar on “ART OF MIND CONTROL” on 12th October,2021 at 04.00 p.m via Zoom. Sh. Pandava Sakha Dasa was the guest speaker.

## 156. Film Screening on Breast Cancer

Name of collaborating agency: Vivekanand College



## Report

NSS unit of Vivekananda College in collaboration with ANDC presents FILM Screening of “ZRENIYE-2” on the occasion of Breast Cancer Awareness Month on 18th October 2021 via Google Meet at 4.30 pm.

### 157. Awareness on Breast Cancer through Posters



### Report

For the purpose of sharing information and promoting awareness of breast cancer to women the NSS unit of ANDC took initiatives through poster drives in the month of October which is designated month for Breast Cancer Awareness.

## 158. Poetry Competition on occasion of Maharishi Valmiki Jayanti



Acharya Narendra Dev College  
University of Delhi  
National Service Scheme

organises

**POETRY  
COMPETITION**

on the occasion of  
*Maharishi Valmiki Jayanti*

*Theme: मन की अभिव्यक्ति*

Deadline for submission :  
20th October, 2021

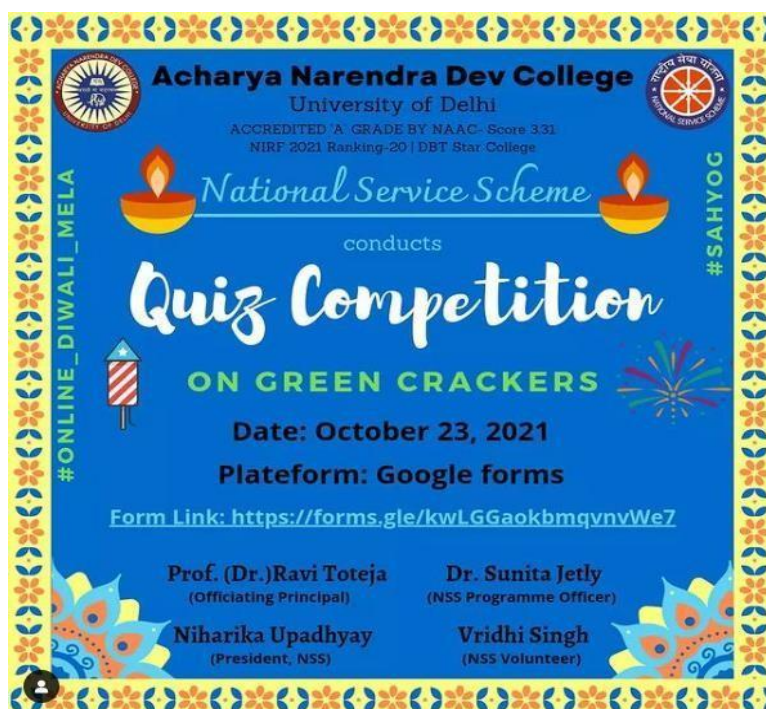
Prof. Ravi Toteja    Dr. Sunita Jetly    Niharika Upadhyay    Aayushi Kushwaha  
(Sociating Principal) (Program Officer)    (President, NSS)    (Volunteer, NSS)

### Report

NSS unit of ANDC organized Poetry Competition on the occasion of Maharishi Valmiki Jayanti with the theme : “Mann ki Abhivyakti” on 20 October, 2021.



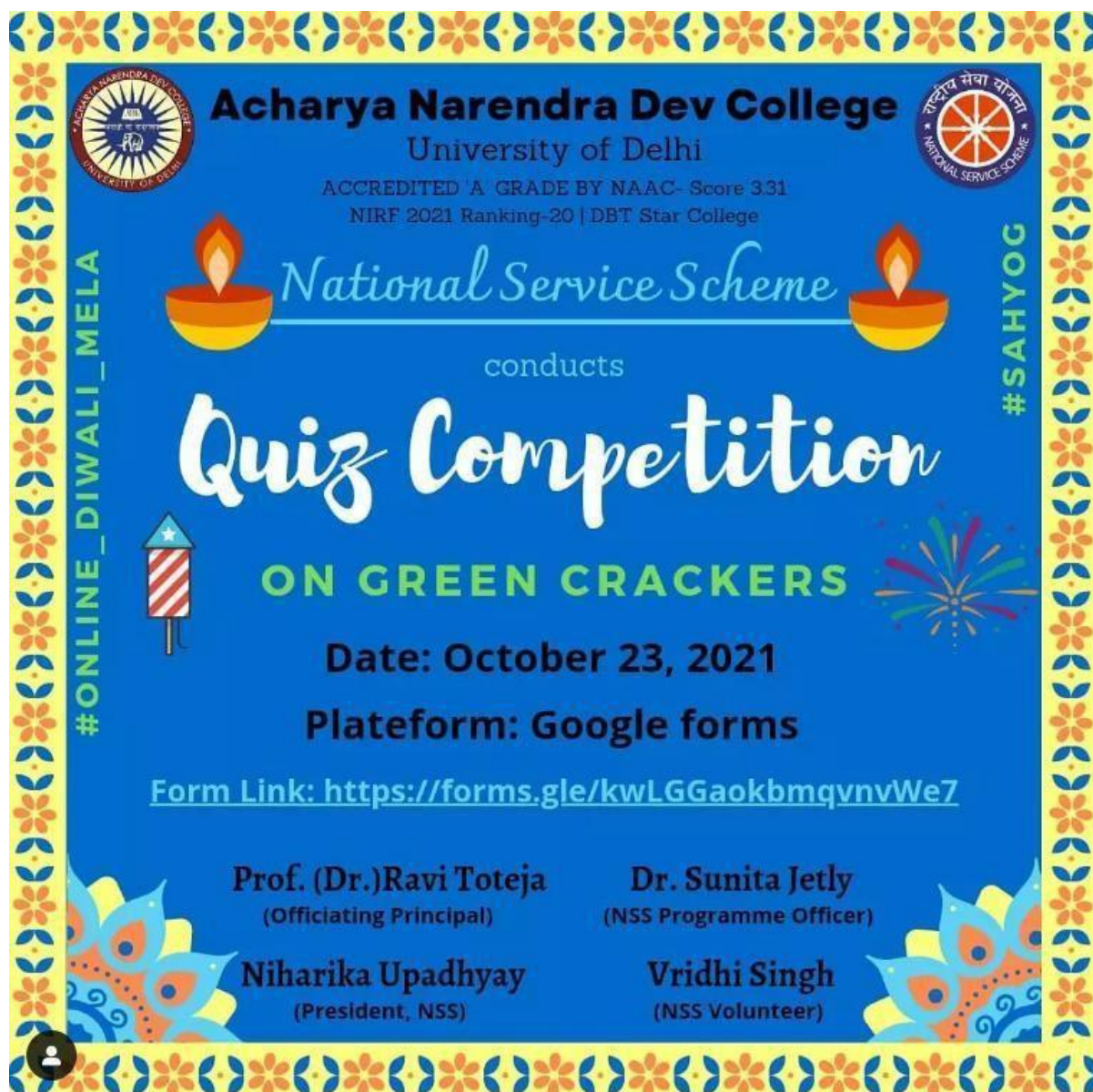
## 159. Quiz Competition on Green Cracker



### Report

NSS unit of ANDC conducted a quiz competition on Green Crackers on October 23, 2021 via Google Forms to create awareness related to its benefits.

160. Quiz competition on Green Cracker, Team Development as a Leader Project Ukiyo



### Report

Quiz competition on Green cracker was organized on October 23, 2021 under SAHYOG, online Diwali mela to create awareness about the crackers among the people, this competition was organized in online mode through Google meet on an app name Quizizz in which the participants had to answer the questions through online polling.

## **161. Sahyog Mela**

### **Report**

In the absence of actual Diwali celebrations, NSS introduced the concept of virtual "mela" by NGOs working for the differently-abled to sell their products through video ads two weeks before Diwali 2021. A project led by Dr Sarita Agarwal helped these institutions promote and sell homemade Diwali products to DU teachers and students. A competition for Diya decoration and rangoli making under Diwali Mela Sahyog was also organized.



## 162. Group Discussion on "Independent India @ 75 : Self Reliance with Integrity"

**Acharya Narendra Dev College**  
(University of Delhi)  
NAAC Accreditation Grade 'A' | NIRF - 2020 All India Ranking 20

**National Service Scheme**  
Presents  
**"Group discussion"**



Theme- Independent India @ 75 :  
Self Reliance with Integrity

Date : 27th October, 2021      Time : 6:00 -7:00 P.M.

Platform : Google Meet

Link : <http://meet.google.com/vvh-afkg-ffin>


**Prof. Ravi Toteja**      **Dr. Sunita Jetly**      **Kirti & Khushi**  
(Officiating Principal)      (Program Officer)      (Students' coordinator)



**Vigilance Week**  
**26th - 1st November** #Amarat Mahotsav

Theme : "Independent  
India @ 75 : Self  
Reliance with Integrity"

Day 2  
27th October



### Report

NSS unit of ANDC conducted group discussion on the theme- "Independent India @75:Self Reliance with Integrity" on 27th October, 2021 from 6.00-7.00 p.m via Google Meet during Vigilance Week 26th -1st November.



### 163. Workshop with a real time breast cancer survivor

Name of collaborating agency: Vivekananda College

**NATIONAL SERVICE SCHEME**  
**VIVEKANANDA COLLEGE**  
**ACHARYA NARENDRA DEV COLLEGE**

Organises  
**WORKSHOP**  
With A real time Breast Cancer Survivor

**#ThinkPink**

**Dr. Neeti Leekha Chhabra**  
Founder of Yes to life breast  
cancer survivor & Ted x speaker

Meeting ID: 880 0680 9468  
Passcode: 605172:

**28.10.2021**  
5pm  
Zoom

Programme Officers  
Dr. Sandhya Jain(VNC)  
Dr. Sunita Jetly (ANDC)

Officiating Principals  
Dr. Hina Nandrajog (VNC)  
Prof. Ravi Toteja(ANDC)

### Report

NSS students reached to people at grassroot level to motivate them to have lifestyle changes which can prevent cancer. The Breast Cancer month culminated in an inspiring workshop with a real time breast cancer survivor Dr. NeetiLeekha Chhabra on October 28, 2021.

## 164. Slogan Writing Competition on "Independent India @ 75 : Self Reliance with Integrity"

**Acharya Narendra Dev College**  
(University of Delhi)  
NAAC Accreditation Grade 'A' | NIRF - 2021 All India Ranking 20

**National Service Scheme**



**Slogan writing competition**

Theme- Independent India @ 75 : Self Reliance with Integrity

Date : 29th October, 2021

Registration Link :  
[https://docs.google.com/forms/d/1trdVpluVirFg8nYwOmEs3ldFaalEw\\_EkYs9kCH3OqAo/](https://docs.google.com/forms/d/1trdVpluVirFg8nYwOmEs3ldFaalEw_EkYs9kCH3OqAo/)

Prof. Ravi Toteja (Officiating Principal) Dr. Sunita Jetly (Program Officer) Devanshi Saini (Project Head) Vridhi & Nisha (Student Coordinators)




Vigilance Week  
26<sup>th</sup> October -1 November

Theme : "Independent India @ 75 : Self Reliance with Integrity"

Day 4  
29<sup>th</sup> October

#Amurat Mahotsav



### Report

NSS unit of ANDC conducted slogan writing competition on the theme- "Independent India @75:Self Reliance with Integrity" on 29th October, 2021 via Google Meet during Vigilance Week 26th -1st November.

## 165. Integrity Pledge

### Report

In Vigilance Awareness Week from October 26-November 01, 2021 with great enthusiasm and active participation several activities were organized this year with the theme – “Independent India @ 75: Self Reliance with Integrity”. The week started with Integrity Pledge Video on October 26, 2021 followed by Group Discussion on “Independent India @ 75 : Self Reliance with Integrity, slogan writing, intriguing discussion on “Relevance of Sardar Vallabh Bhai Patel in Today’s World on the Occasion National Unity Day.

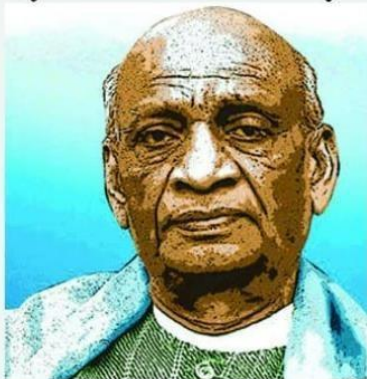



### 166. Group Discussion on "Relevance of Sardar Vallabh Bhai Patel in Today's World on the Occasion National Unity Day

Report: In Vigilance Awareness Week from October 26-November 01, 2021 with great enthusiasm and active participation several activities were organized this year with the theme – “Independent India @ 75: Self Reliance with Integrity”. The week started with Integrity Pledge Video on October 26, 2021 followed by Group Discussion on quote “Independent India @ 75 : Self Reliance with Integrity, slogan writing, intriguing discussion on “Relevance of Sardar Vallabh Bhai Patel in Today’s World on the Occasion National Unity Day.



**"GROUP DISCUSSION"**

**NATIONAL UNITY DAY**  
**(31 OCTOBER 2021)**





**TOPIC – RELEVANCE OF SARDAR VALLABHBHAI  
PATEL IN TODAY'S WORLD**

 **TIME – 1:00 P.M**    **DATE – 31 OCTOBER 2021**

**MEET LINK – <http://meet.google.com/vvh-afkg-ffm>**

Prof.(Dr.) Ravi Toteja (Officiating Principal)	Dr.Sunita Jetly (Program Officer,NSS)	Niharika Upadhyay (President, NSS)	Taruna (NSS Volunteer)
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## 167. Rashtriya Ekta Diwas Pledge

The poster features a background image of a statue of Mahatma Gandhi on the left, set against a landscape with a bridge and hills. At the top, there are three logos: the Acharya Narendra Dev College logo on the left, the 75th Azadi Ka Amrit Mahotsav logo in the center, and the National Service Scheme logo on the right. The text is centered and reads: 'Acharya Narendra Dev College', 'University of Delhi', 'National Service Scheme', 'ORGANISES', 'RASHTRIYA EKTA DIWAS PLEDGE', 'ON', 'NATIONAL UNITY DAY'. Below this, a green box contains the event details: 'Platform: Google Meet', 'Date: 31st October, 2021', and 'Time: 12:30 pm onwards'. A yellow box at the bottom provides the link: 'Link: http://meet.google.com/vvh-afkg-ffm'. At the very bottom, a grey bar lists the names and roles of the organizers: Prof. Ravi Toteja (Officiating Principal), Dr. Sunita Jetly (Programme Officer), Niharika Upadhyay (President, NSS), and Aayushi Kushwaha (Volunteer, NSS).

**Acharya Narendra Dev College**  
**University of Delhi**  
**National Service Scheme**  
**ORGANISES**  
**RASHTRIYA EKTA DIWAS PLEDGE**  
**ON**  
**NATIONAL UNITY DAY**

**Platform: Google Meet**  
**Date: 31st October, 2021**  
**Time: 12:30 pm onwards**

**Link: <http://meet.google.com/vvh-afkg-ffm>**

**Prof. Ravi Toteja**  
(Officiating Principal)

**Dr. Sunita Jetly**  
(Programme Officer)

**Niharika Upadhyay**  
(President, NSS)

**Aayushi Kushwaha**  
(Volunteer, NSS)

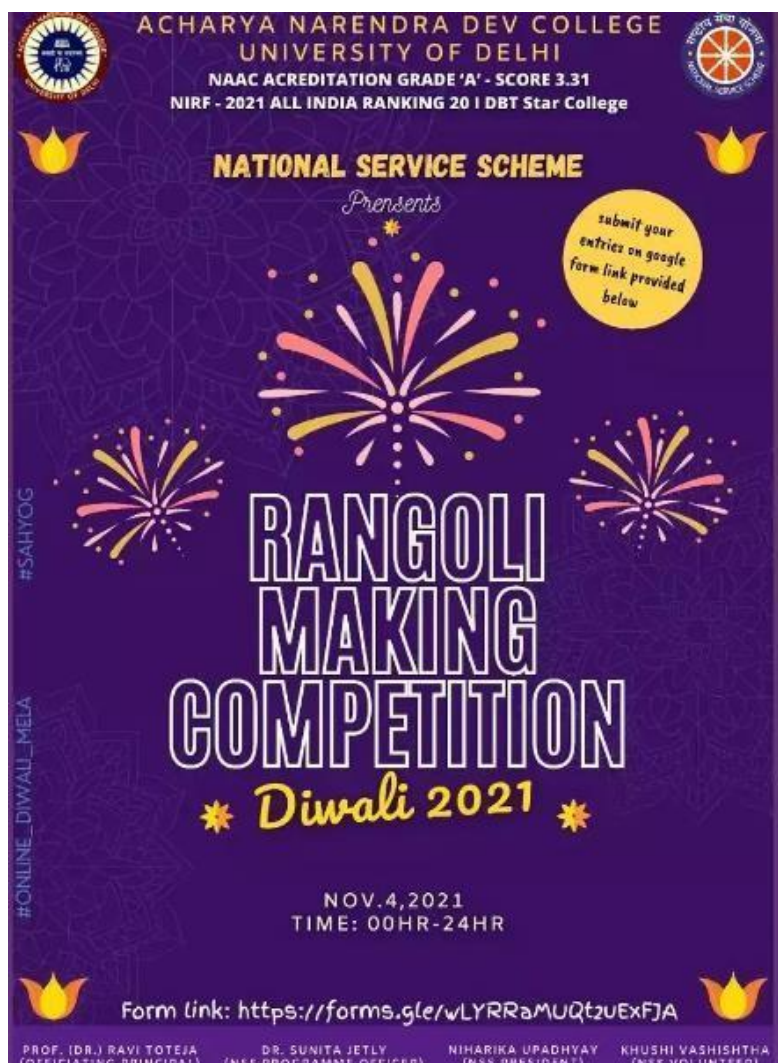
## 168. Surrounding Cleanliness under Project SBA



### Report

NSS unit of ANDC always encourages cleanliness .Time to time cleanliness drive is initiated

## 169. Rangoli making competition under Sahyog





### Report

The absence of actual Diwali celebrations, brought in the concept of virtual ‘mela’ by assisting NGOs working for the differently abled in selling their products through Video Advertisements two weeks prior to Diwali 2021. Project headed by Dr Sarita Agarwal helped these institutions to advertise andsell their home-made Diwali products for DU faculty and students. Diya Decorating and Rangoli making Competition under Diwali Mela-Sahyog was also organized.



## 170. National Education Day

**Acharya Narendra Dev College**  
University of Delhi  
ACCREDITED 'A' GRADE BY NAAC WITH SCORE OF 3.31  
NIRF 2021 ALL INDIA RANKING 20 | DBT Star College

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# **National Service Scheme**

Observes

## **NATIONAL EDUCATION DAY**


(11TH NOVEMBER, 2021)

"Educationists should build the capacities of the spirit of inquiry, creativity, entrepreneurial and moral leadership among students and become their role model."



- Maulana Abdul Kalam Azad

**Prof.Ravi Toteja**  
(Officiating Principal)



**Dr.Sunita Jetly**  
(Program Officer)

**Niharika Upadhyay**  
(President, NSS)

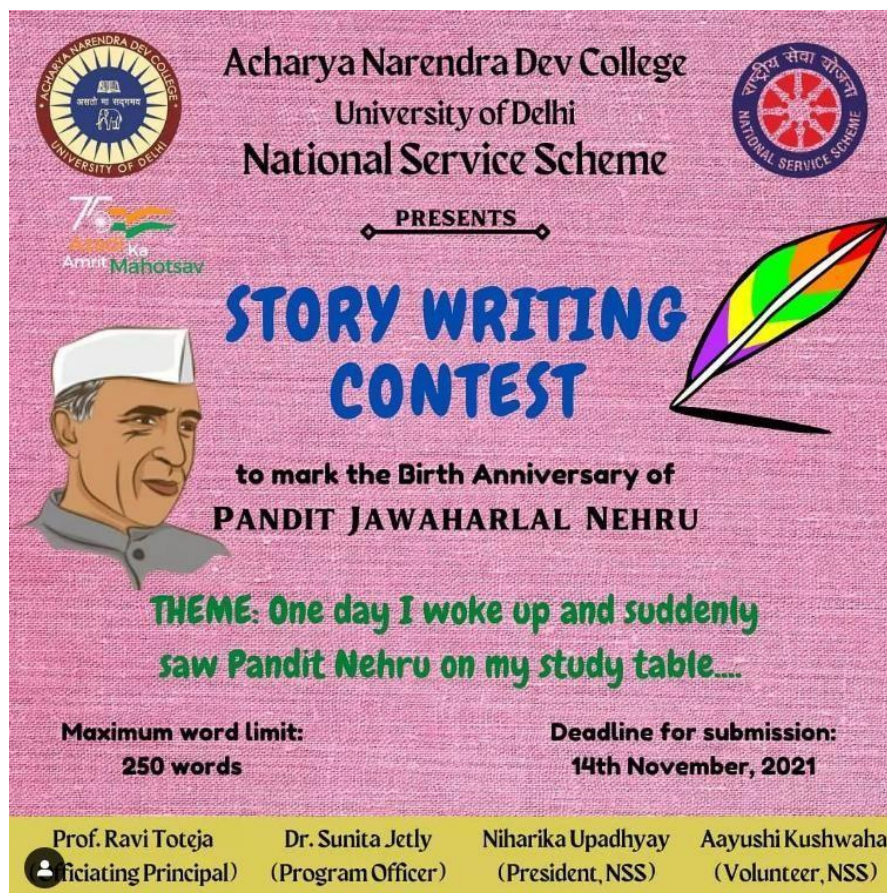
**Krishna**  
(NSS Volunteer)

## Report

National Education Day of India has been celebrated every year since 2008 on November 11 on the occasion of Maulana Abul Kalam Azad birth anniversary. We observe this day and through this we want to spread the importance of education in life of an individual.



## 171. Story Writing competition on the occasion on Children's Day



### Report

To mark the Birth Anniversary of Pandit Jawaharlal Nehru the NSS unit conducted a story writing contest on the theme: One day I woke up and suddenly saw Pandit Nehru on my study table. Students actively participated in the contest.

## 172. Cloth Donation Drive- Donated and Interacted with underprivileged students



### Report

NSS unit of ANDC organises Cloth Donation Drive 2021 for the needy and underprivileged people from 25th November to 25th December.

### 173. Interaction with HIV Infected orphaned children



#### Report

NSS volunteers interacted with HIV Infected orphaned children .Children discussed their problems and shared their feelings with the volunteers on 1st December,2021.



#### 174. AIDS day rally with HIV infected orphaned children



#### Report

NSS volunteers arranged a rally on 1st December, 2021 with HIV infected orphaned children of Desire Society to mark the World Aids Day.



## 175. Speech Competition on National Youth Day

The poster is for a speech competition organized by the National Service Scheme (NSS) at Acharya Narendra Dev College, University of Delhi. It features the college's logo on the top left and the NSS logo on the top right. The text is centered and reads: 'Acharya Narendra Dev College, University of Delhi, ACCREDITED 'A' GRADE BY NAAC-score 331, NIRF 2021 Ranking-20 | DBT star college. National Service Scheme Conducts SPEECH COMPETITION ON NATIONAL YOUTH DAY. DATE: 09 JANUARY, 2022. TIME: 11:00 AM ONWARDS. PLATFORM: GOOGLE MEET. Form Link: https://forms.gle/VvHMJSbRK4j2vIh37. Prof.(Dr.)Ravi Toteja (Officiating Principal), Dr.Sunita Jetly (NSS programme officer), Niharika Upadhyay (President, NSS), Vridhi Singh, Alisha Khan (NSS Volunteers). The background is pink with yellow starburst shapes. A hand holding a book is illustrated in the center.

**Acharya Narendra Dev College**  
University of Delhi  
ACCREDITED 'A' GRADE BY NAAC-score 331  
NIRF 2021 Ranking-20 | DBT star college

**National Service Scheme**  
Conducts  
**SPEECH COMPETITION**  
ON  
**NATIONAL YOUTH DAY**

**DATE: 09 JANUARY, 2022**  
**TIME: 11:00 AM ONWARDS**  
**PLATFORM: GOOGLE MEET**

**Form Link: <https://forms.gle/VvHMJSbRK4j2vIh37>**

**Prof.(Dr.)Ravi Toteja**  
(Officiating Principal)

**Dr.Sunita Jetly**  
(NSS programme officer)

**Niharika Upadhyay**  
(President, NSS)

**Vridhi Singh, Alisha Khan**  
(NSS Volunteers)

### Report

Speech competition was held on January 9, 2022 on the occasion of National Youth day. The main aim of organizing this competition was to aware today's youth about their importance in the development of our nation. Youth is the future of our nation and they play the most important role in empowering the society and changing the world. While this competition we got the chance to listen ideas and views of youth for the development of our country. National Youth Day is celebrated on 12th January every year in our country to honor the birth anniversary of Swami Vivekananda Ji. It is also known as Vivekananda Jyanti.

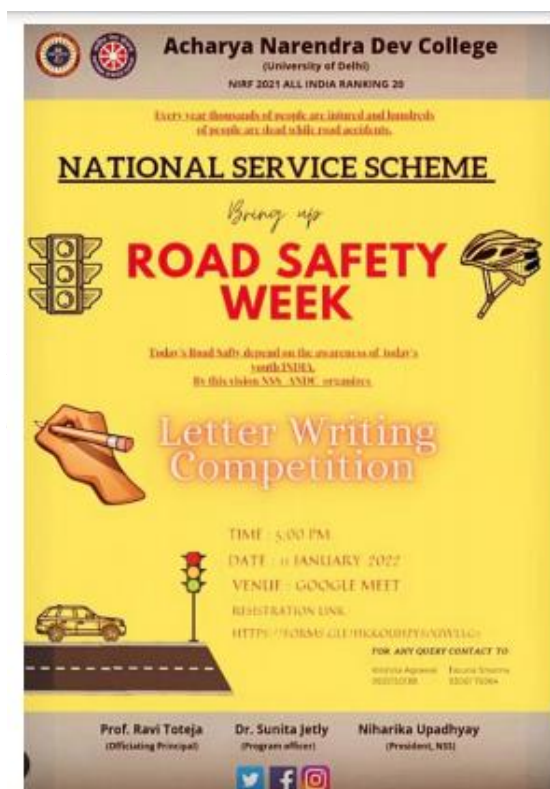
## 176. Promotion of Hindi Language (Hindi Diwas)



### Report

On January 10, 2022, a poster emphasizing the importance of Hindi was shared on a social media platform, on the occasion of Hindi Diwas. On February 21, 2022, International Mother Language Day was celebrated by a slogan-making contest that emphasized the importance of the mother tongue in daily life and education.

## 177. National Road Safety Week



## Report

The whole country celebrated National Road Safety Month 2021 instead of Road Safety Week, from January 11 2022 to January 18 2022, on the theme "Sadak Suraksha- Jeevan Raksha". As road accidents are one of the leading causes of mortality and morbidity in India NSS conducted several activities to create road traffic safety awareness through surveys during road safety week, REEL making contest, Quiz & Drawing contest, MEME making, Cartoon and Caricature on Road Safety, through stories and a short film about road safety.

## 178. Unveiling through tales

**Acharya Narendra Dev College**  
University of Delhi  
Accredited 'A' Grade by NAAC- Score 3.31  
NIRF-2021 All India Ranking 20 | DBT Star College

**National Service Scheme**  
Presents

**UNVEILING THROUGH TALES**  
(एक कहानी हमारी जुबानी)

**On Theme**  
Sadak Suraksha-Jeevan Raksha

Registration link:- <https://forms.gle/M2x5owWKytVsWUht9>

16th January, 2022  
04:00 PM

Prof. Ravi Toteja  
(Officiating Principal)

Dr. Sunita Jetly  
(Program Officer)

Niharika Upadhyay  
(Nss, President)

Kirti Yadav  
(NSS, Volunteer)

### Report

Unveiling through tales was organized on January 16, 2022 on the theme of Sadak Suraksha - Jeevan raksha to know about the safety on road through the tales. This competition was organized in online mode through Google meet in which the participant had to share their view on road safety through story and their personal experience.



### 179. Online Teaching and Fun session under Project VID IPSA

**ACHARYA NARENDRA DEV COLLEGE**  
University of Delhi

NAAC ACCREDITATION GRADE 'A' | NIRF 2021 RANKING-20

**NATIONAL SERVICE SCHEME**

*Is Beginning With The Project*

**"VID-IPSA 2022"**

**Even a Global Pandemic Couldn't Stop Education**

So we are here with:  
**ONLINE CLASSES**

For further details contact: 9810972515

PROF. RAVI TOTEJA      DR. SUNITA JETLY      DEVANSHI SAINI      SAAKSHI SONI  
(OFFICIATING PRINCIPAL) (PROGRAMME OFFICER, NSS) (PROJECT HEAD) (VOLUNTEER)

### Report

The aim of the project was to educate the underprivileged children, especially the girl child, living in slums. NSS volunteers at ANDC took online as well as offline classes for the children of Okhla and GovindPuri slums on 24 January, 2022.

## 180. Online Live Quiz Competition on National Voter's Day

**ACHARYA NARENDRA DEV COLLEGE**  
(UNIVERSITY OF DELHI)  
NAAC ACCREDITED GRADE 'A' | NIRF 2021 ALL INDIA RANK-20 | DBT STAR COLLEGE

**NATIONAL SERVICE SCHEME**  
*organizes*  
**ONLINE LIVE QUIZ COMPETITION**  
on the occasion of **NATIONAL VOTER'S DAY(25 JANUARY)**

**DATE : 25 /01/2022**  
**TIME : 04 PM Onwards**

**Registration form link :**  
<https://forms.gle/3Lu4DPa7c4NB459Z8>

Prof. Ravi Toteja (Officiating Principal) Dr. Sunita Jetly (NSS Programme Officer) Niharika Upadhyay (NSS President) Kapil & Swati (NSS Volunteer)

**ACHARYA NARENDRA DEV COLLEGE**  
(UNIVERSITY OF DELHI)  
NAAC ACCREDITED GRADE 'A' | NIRF 2021 ALL INDIA RANK-20 | DBT STAR COLLEGE

**NATIONAL SERVICE SCHEME**  
**ONLINE LIVE QUIZ COMPETITION**  
on the occasion of **NATIONAL VOTER'S DAY(25 JANUARY)**

**RESULTS**

**SHUBH SANYADHKAR**  
(1st year,ANDC)

**VAIDIK THAKRE**  
(2nd year,ANDC)

**VEDIKA GUPTA**  
(1st year,ANDC)

Prof. Ravi Toteja (Officiating Principal) Dr. Sunita Jetly (NSS Programme Officer) Niharika Upadhyay (NSS President) Kapil & Swati (NSS Volunteer)

### Report

Online live quiz competition was held on January 25, 2022 on the occasion of National voter's day to create awareness among participants for the importance of voting in our country. This quiz competition also aim to enhance the knowledge of people about voting . This competition was conducted online through an app name quizizz where the participants had to answer through online polling.

## 181. Pledge to vote on National Voter's Day

meet.google.com/oof-wwvy-gmk

REC Rajat Sharma is presenting Microphone off

ACHARYA NARENDRA DEV COLLEGE  
UNIVERSITY OF DELHI  
NAAC ACCREDITATION GRADE 'A' | NIRF - 2021 ALL INDIA RANKING 93  
NATIONAL SERVICE SCHEME  
NSS humbly reminds you your responsibility as a citizen of India to come & take  
**PLEDGE TO VOTE**  
on the occasion of  
**NATIONAL VOTER'S DAY**  
(25th January)  
Link: <http://meet.google.com/oof-wwvy-gmk>  
Date: 25th January, 2022  
Time: 2 p.m. onwards  
Platform: Google Meet  
Prof. Ravi Taneja (Officiating Principal) Dr. Sunita Jetley (Programme Officer) Niharika Upadhyay (President, NSS) Aayushi Kushwaha (Volunteer, NSS)

2:12 PM | oof-wwvy-gmk

LIST AS ON 24 0....pdf Dr Sunita Jetley (1).pdf Show all

Type here to search

ENG 14:12 25-01-2022

REC

Krishna Agrawal Rajat Sharma Ayush Chaudh... Amisha Ambar... SatyaJeet Shar... Vridhi Singh Kavya Aayushi Kushw...

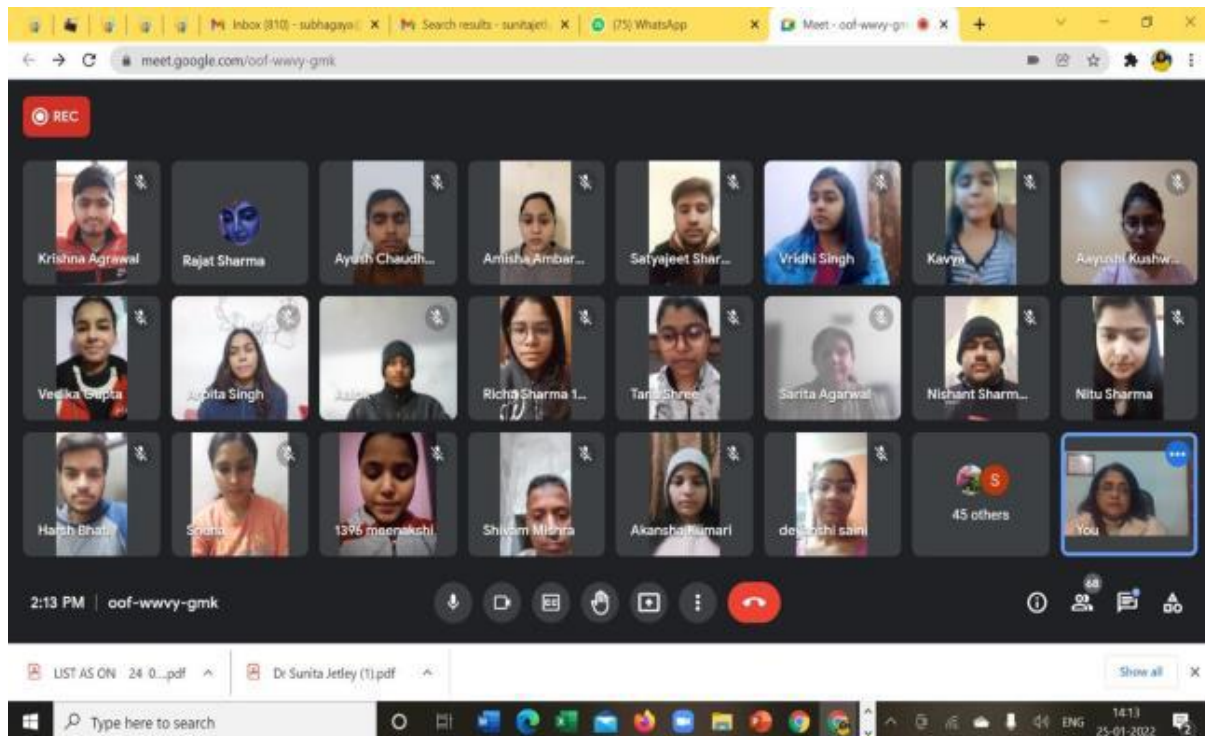
Vedika Gupta Arpita Singh Anshok Richa Sharma 1... Tanvi Shroff Sarita Agarwal Nishant Sharm... Kashish Jadhav...

ronak raj Shyam Mishra 1396.meenakshi Divya Yadav Akansha Mumari Taruna Sharma Nitu Sharma Harsh Dhal...

chaitanya Saakshi Soni Vaidik Thakur chetan sharma Riya Rajput Priyanka 37 others You

2:14 PM | oof-wwvy-gmk





## Report

Pledge to vote was organized on 25 January, 2022 to humbly remind all their responsibility as a citizen of India. The Pledge was organized online in a Google meet platform where participants was asked to take a pledge to vote together. It helps to create the awareness among the youth for the importance of vote in our country. Overall, it was a successful event organised .



## 182. World Wetland Day Live poll

**Acharya Narendra Dev College**  
University of Delhi

Accredited 'A' Grade by NAAC Score - 3.31 | All India NIRF 2021 Ranking - 20th | DBT Star College

**NATIONAL SERVICE SCHEME**  
organizes

*Live Poll*  
on the occasion of  
**World Wetlands Day**  
To aware you all about wetlands.

**Date - February 2, 2022**  
**Time - 7PM**  
**Platform - Google Meet**

**Registration Link - <https://forms.gle/iYQ2nhUMCao4aYJM6>**

**Prof. Ravi Toteja** (Officiating Principal)  
**Dr. Sunita Jetly** (NSS Programme Officer)  
**Ms. Niharika Upadhyay** (NSS President)  
**Ms. Vridhi Singh and Ms. Alisha Khan** (NSS Volunteers)

### Report

World Wetlands Day is celebrated every year on 2nd February, aims to raise global awareness about the vital role of wetlands for people and the planet. This day also marks the date of the adoption of the Convention on Wetlands on 2 February 1971, in the Iranian city of Ramsar. A live poll was conducted under this in which volunteers participated enthusiastically. The aim of conducting this event was to educate people about the importance of wetlands.

### 183. Card Making Competition on World Cancer Day



### Report

Cancer Day aims to prevent millions of deaths each year by raising awareness and education about cancer, and pressing governments and individuals across the world to take action against the disease. "Cancer cannot cripple love; it cannot shatter hope, it cannot conquer the spirit." The card making competition held on 4th February, 2022 was a small effort to bring smile on all those cancer patients who are not only suffering physically but also fighting mentally every day.

#### 184. Calligraphy competition on the occasion of Vasant Panchami



#### Report

Cancer Day aims to prevent millions of deaths each year by raising awareness and education about cancer, and pressing governments and individuals across the world to take action against the disease. "Cancer cannot cripple love; it cannot shatter hope, it cannot conquer the spirit." The card making competition held on 4th February, 2022 was a small effort to bring smile on all those cancer patients who are not only suffering physically but also fighting mentally every day.



## 185. Poster Making Competition on Safer Internet Day



## Report

The Poster making Competition was held on February 8th, 2022 on the occasion of Safer Internet Day. Safer Internet Day was celebrated on February 8th 2022, through a innovative Poster making competition on the theme of "Together for a better Internet". This competition was aim to create awareness about safer internet practice as many cases of internet frauds are seen in the country. Overall, the event was successfully organised.



## 186. Poster making Competition of the occasion of World Day of Social Justice



### Report

The Poster making Competition was held on 20th February, 2022 on the occasion of World day of social justice on the theme "Employment To Handicapped". The competition was aimed to aware people that equality is needed for all to make our country a better place to live. The physically or mentally challenged people should also be treated equally to a normal individual. Overall, the competition was successfully organised.

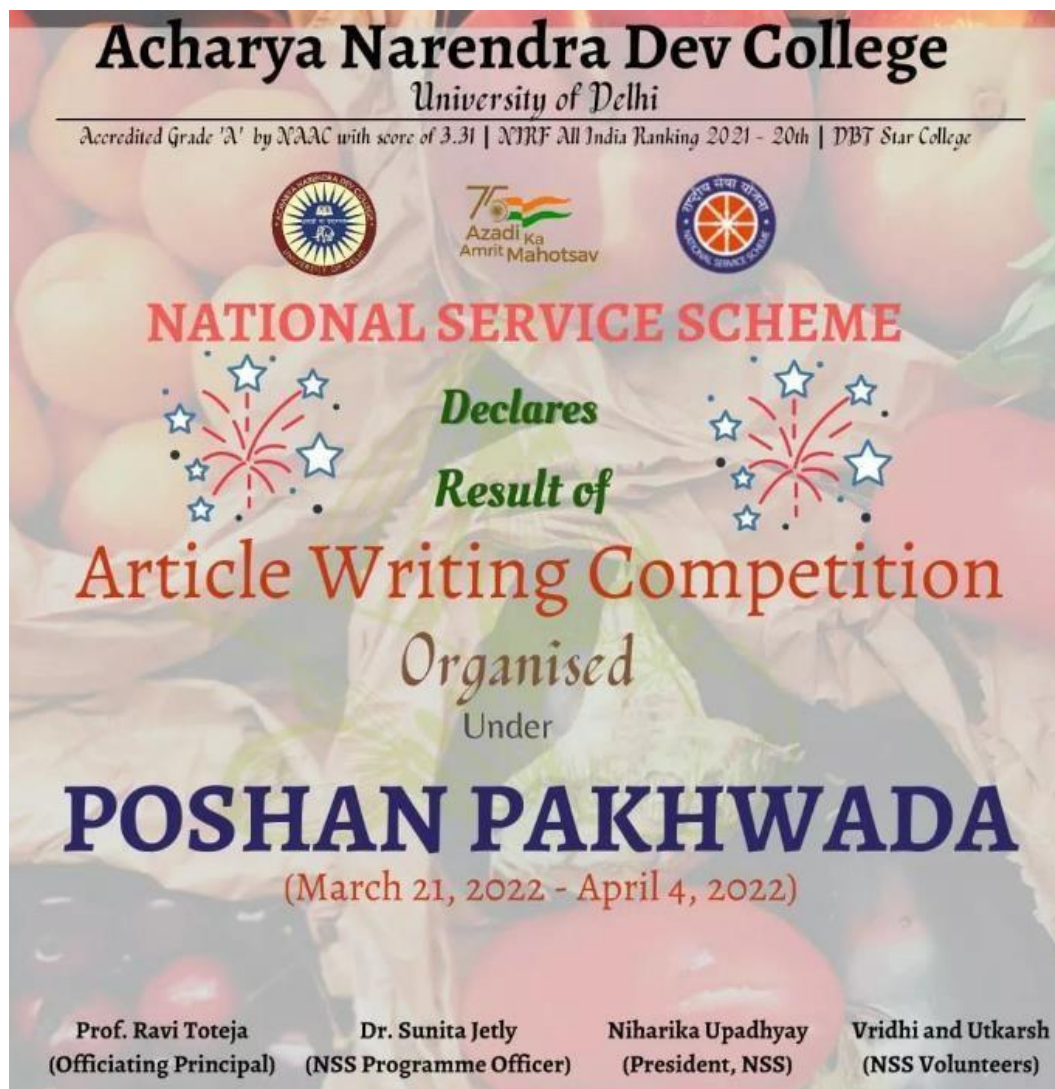
### 187. Picture Interpretation Competition on National Science Day



### Report

The picture interpretation competition was held on 28th February, 2022 on the occasion of National science day to create awareness about the importance and progress of science in modern world. The mode of conduction was online . Google form with pictures was given to the participants and asked to submit with answers . Overall, the event was successfully organized.

## 188. Poshan Abhiyan



### Report

POSHAN Abhiyaan or Holistic Nutrition or National Nutrition Mission is the flagship program of the Government of India to improve the nutritional outcomes of children, adolescents, and pregnant and lactating women. NSS has engaged in this vision through a series of activities from Nutrition Drive posters and videos, Poshan Abhiyan quizzes, and a Yoga workshop on Nutrition to help in eliminating Malnutrition in India.




### 189. Free medical health check-up camp in Okhla slum

**Acharya Narendra Dev College**  
University of Delhi  
NAAC ACCREDITATION GRADE 'A' - Score 3.31 | NIRF-2021 ALL INDIA RANKING - 20 | DBT Star College

**UNNAT BHARAT ABHIYAN**  
Free Medical Health Checkup Camp

3rd April 2022

📍 Majdoor Kalyan Camp, Okhla Industrial Area



Prof. Ravi Toteja  
(Off. Principal)

Dr. Pooja Bhagat  
(Convenor, UBA)

Sumit  
(Vounteer, UBA)

### Report

Under UNNAT BHARAT ABHIYAN NSS unit organises Free Medical Health Checkup Camp on 3rd April 2022 in Okhla Industrial Area for labourers. People happily took advantage from the camp.



## 190. International Yoga Day celebrations

Name of collaborating agency: Netaji Subhas University of Technology



## Report

The 7th International Day of Yoga was enthusiastically celebrated. The yoga enthusiasm began on June 14-17, led by Acharya Swati Jha education students on various asanas, and pranayama in collaboration with the Netaji Subhas University of Technology. From June 17 to June 21, 2022, a five-day online yoga workshop was held with the Nature Ayuyoga Institute, and six other colleges (BITS Pilani, Shivaji college, Aryabhata College, NSUT, Delhi College of Arts and Commerce and Shri Venkateshwara College collaborated. The introductory session was conducted by Smt Shashi Sharda, followed by an introduction to meditation by Shree Naveen Kumar H and an introduction to YOGA by Smt. Varsha for 4 days wherein Tratak kriya for the relaxing the eyes of students was especially taught. ViceChancellor of Babasaheb Bhimrao Ambedkar University attended the 7th IYD celebrations. The Ministry of Aayush presented a letter of appreciation to the NSS Unit and Program Officer for the successful implementation of the Yoga Workshop. To maintain the interest of volunteers, a workshop on yoga for nutrition was held on September 1, 2022, and also the significance of Surya Namaskar was disseminated through posters

Name of collaborating agency: Dr B.R. Ambedkar Centre for Biomedical Research and Delhi School of Public health, IOE University of Delhi

A series of four offline cancer awareness programs at NOIDA's Nithari Village and Geja Village, Nehru Nagar Delhi's Sanga Mitra BaudhVihar, and Shakti Shalini, with the support of the Department of Science and Technology in collaboration with Dr B.R. Ambedkar Centre for Biomedical Research and Delhi School of Public health, IOE University of Delhi on April 1, May 15, May 29, June 23, November 7 JHU 2022, respectively. The cardmaking contest commemorating World Cancer Day on February 4, 2022, was an additional awarenesscreating activity. NSS students reached out to grassroots people to stimulate lifestyle changes that could prevent cancer. Breast Cancer Month started with a webinar on cancer prevention and adopting a healthy lifestyle in collaboration with Sanjeevani, followed by posters, videos, quizzes, and film screenings on breast cancer prevention and detection on October 4, 2021. Breast Cancer Month ended with an inspirational workshop with Dr Neeti Leekha Chhabra, Real-time Breast Cancer Survivor on October 28, 2021.





## 192. Pride Month

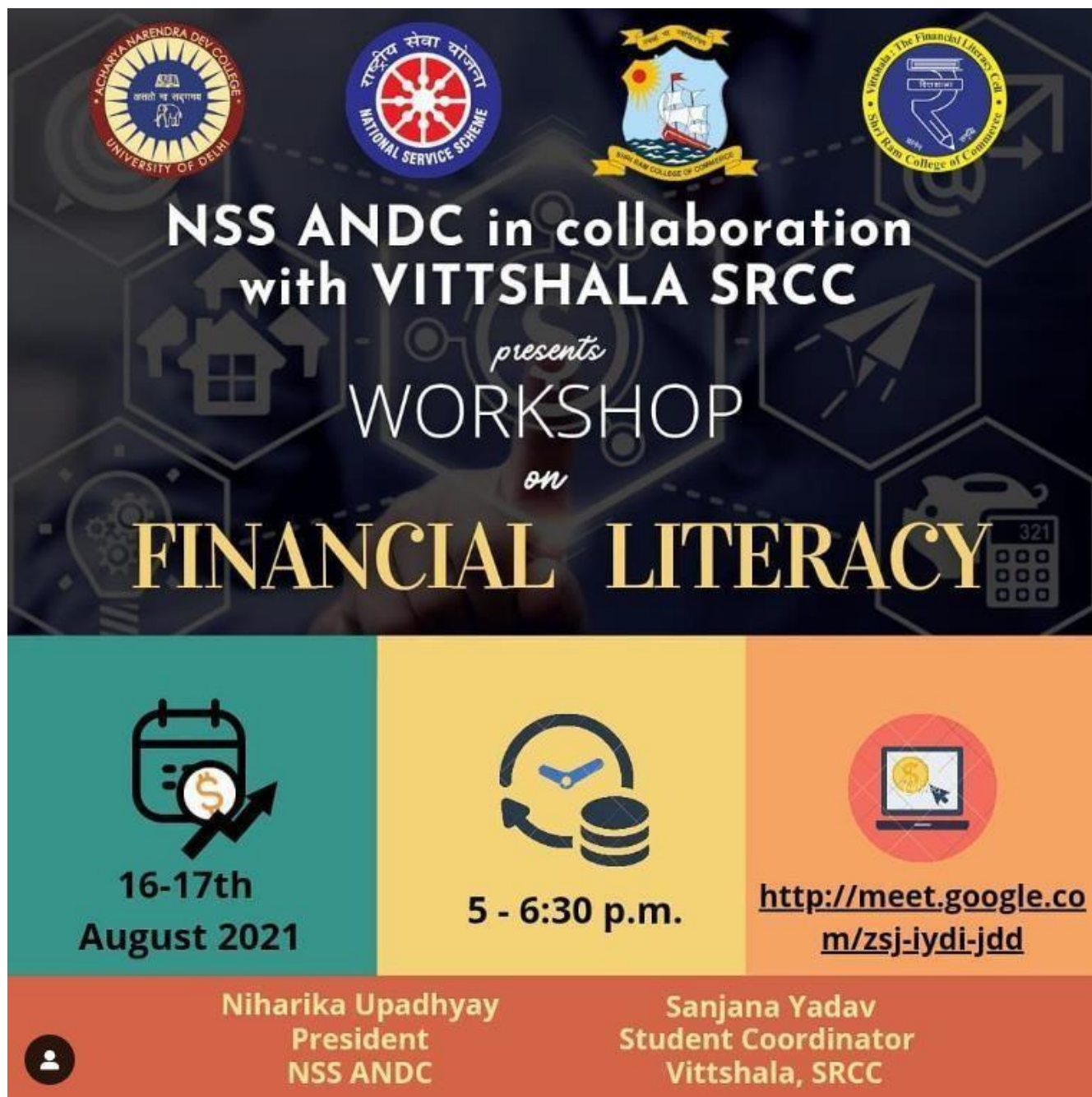


### Report

In June 2022 NSS ANDC for the first time celebrated Pride month to celebrate lesbian, gay, bisexual, transgender, and queer (LGBTQ) social and self-acceptance, achievements, legal rights, and pride. Under this a lot of poster awareness drives were done and also informative short videos and acceptance videos were made and spread through our social media handles. One of the videos was seen by a vast audience with 2000+ views and 200+ engagement through likes and comments.

### 193. Workshop on Financial Literacy

Name of collaborating agency: Vittshala SRCC



The poster features a dark blue background with various financial and educational icons. At the top, there are four logos: Acharya Narendra Dev College, University of Delhi; National Service Scheme; Vittshala SRCC; and Vittshala: The Financial Literacy Cell. The main text reads: "NSS ANDC in collaboration with VITTSHALA SRCC presents WORKSHOP on FINANCIAL LITERACY". Below this, there are three colored boxes: a teal box with a calendar icon and the text "16-17th August 2021"; a yellow box with a clock and coins icon and the text "5 - 6:30 p.m."; and an orange box with a laptop and coin icon and the text "http://meet.google.com/zsj-iydi-jdd". At the bottom, there are two names: "Niharika Upadhyay President NSS ANDC" and "Sanjana Yadav Student Coordinator Vittshala, SRCC".

**NSS ANDC in collaboration with VITTSHALA SRCC**  
*presents*  
**WORKSHOP**  
*on*  
**FINANCIAL LITERACY**

**16-17th August 2021**

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

<http://meet.google.com/zsj-iydi-jdd>

**Niharika Upadhyay**  
President  
NSS ANDC

**Sanjana Yadav**  
Student Coordinator  
Vittshala, SRCC

### Report

A Workshop on Financial Literacy in collaboration with Vittshala, SRCC, University of Delhi was organized on August 17, 2021. To add fun to studies a Slum visit on Children's Day was organized to interact with children.



## 194. UMANG'21 - 2 Day Inter College Fest Project Presentation Competition

Name of collaborating agency: Gargi College



The poster for UMANG'21 features a dark blue background with a sunset scene at the bottom. At the top, logos for NSS Acharya Narendra Dev College, DU, Acharya Narendra Dev College, University of Delhi, Gargi College, and NSS Gargi College, DU are displayed. The central text reads 'UMANG'21' in large, stylized letters, followed by '2 Days inter-college fest'. The dates 'September 23, 21' and 'September 24, 21' are listed, with the first day for 'Project presentation competition-UDAAN' and the second for 'Panel Discussion- with Eminent Panellists'. A quote 'Keeping ahead the NSS motto NOT ME, BUT YOU !!' is centered. At the bottom, the names and titles of the panellists are listed: Dr. Sunita Jetly (Programme Officer, NSS ANDC), Dr. Nisha Saini (Programme Officer, NSS Gargi), Niharika Upadhyay (President, NSS ANDC), Anwesha De (President, NSS Gargi), and Sanjana Paul (President, GSS Gargi). A smiley face icon is also present.

NSS Acharya Narendra Dev College, DU

राष्ट्रीय सेवा योजना  
NATIONAL SERVICE SCHEME

ACHARYA NARENDRA DEV COLLEGE  
UNIVERSITY OF DELHI

X

GARGI COLLEGE  
अनन्य

राष्ट्रीय सेवा योजना  
NATIONAL SERVICE SCHEME

NSS Gargi College DU

**UMANG'21**

2 Days inter-college fest

on  
September 24, 2021  
**NSS Day**  
celebrations

September 23, 21  
**Project presentation competition-UDAAN**

September 24, 21  
**Panel Discussion- with Eminent Panellists**

Keeping ahead the NSS motto  
**NOT ME, BUT YOU !!**

Dr. Sunita Jetly  
(Programme Officer,  
NSS ANDC)

Dr. Nisha Saini  
(Programme Officer,  
NSS Gargi)

Niharika Upadhyay  
(President,  
NSS ANDC)

Anwesha De  
(President,  
NSS Gargi)

Sanjana Paul  
(President,  
GSS Gargi)

### Report

September 23, 2021, the 52nd NSS Day was celebrated as 2-day event (September 23- 24, 2021) Inter college Fest “UMANG’21 which had many competitions like - Project Presentation Competition, Panel Discussion with Eminent Personalities”, group Discussion on “Gandhian Approach towards Nature Cure” and Integrity Knowledge : A Relay Quiz followed by a Blood Donation Camp.

## 195. Nature Cure for Diabetes

Name of collaborating agency: Ayuryoga Life Institute



NSS,ACHARYA NARENDRA DEV COLLEGE, UNIVERSITY OF DELHI UNDER THE AEGIS OF DBT STAR SCHEME  
IN COLLABORATION WITH AYURYOGA LIFE INSTITUTE

Invites you for a webinar on

# NATURE CURE FOR DIABETES



DR. SATYA LAKSHMI	DR. SANKARAN	DARRYL D'SOUZA	SASHI SARDA	DR. TULIKA SANADHYA
Director - NIN Pune	Editor - TQHM	Nature Cure Practitioner	Yogacharya	Nature Cure Practitioner

5:00- 7:00 PM 25TH - 26TH AUGUST 2021



PROF. RAVI TOTEJA	DR. SUNITA JETLY
Principal, ANDC, DU	Program Officer-NSS ANDC

ENROLL NOW AT [WWW.NSS.AYURYOGA.LIFE](http://WWW.NSS.AYURYOGA.LIFE)

## Report

NSS unit of ANDC organised a two day webinar on Nature Cure for Diabetes on 25th -26th August 2021 from 5.00-7.00 pm in collaboration with other NSS units of different colleges and Universities along with Ayur Yoga Life Institute. Dr. Satya Lakshmi, Dr. Sankaran, Darryl D'Souza, Sashi Sarda, Dr. Tulika Sanadhya were the resource persons.

5.1.2 Capacity building and skills enhancement initiatives taken by the institution include the following

1. Soft skills, 2. Language and communication skills, 3. Life skills (Yoga, physical fitness, health and hygiene), 4. ICT/computing skills

S.No.	Name of the capacity development and skills enhancement program	Date of implementation (DD-MM-YYYY)	Number of students enrolled	Name of the agencies/consultants involved with contact details (if any)
<b>2017-2018</b>				
1	Workshop on Mental Health	02-23-2018	189	IQAC
2	on Contemporary Environmental Concerns 2018	15-03-2018 to 17-03-2018	133	IQAC + ECO CLUB
3	Swachh Bharat Abhiyaan	Throughout the year	486	NSS
4	A blood donation camp	10-10-2017	73	NSS + Ram Manohar Lohia Hospital
5	Creating awareness about respecting women's dignity with an 'Express Yourself' activity	8/22/2017	58	Sashakt
6	A one-week self defense training programme	19-02-2018 to 24-02-2018	57	Sashakt
7	A two day Annual Book Exhibition	07-09-2017 to 08-09-2017	2000	Library
8	Research Based Pedagogy Tools (RBPT) based intra-college workshop on Microbial Techniques	10-01-2018 to 11-01-2018	90	Department of Botany +DBT
9	Concept test in Chemistry for undergraduate students (ACT-CONTECH 2017-18)	1/25/2018	59	Department of Chemistry + Association of Chemistry Teachers (ACT) C/o Homi Bhabha Centre for Science Education (TIFR)
10	Workshop on 'Systematic Use of Digital Information in Academic Activities'	11/10/2017	76	Department of Chemistry
11	Symposium entitled 'Safety Measures and Laboratory Ethics'	21-02-2018 to 22-02-2018	94	Department of Chemistry +Department of Zoology
12	Workshop on 'Introduction to Foss and Linux'13	08-08-2017 to 11-08-2017	735	Department of Computer Science
13	One day workshop, 'Anxiety at Workplace	8/25/2017	41	Department of Zoology
14	A one day seminar, 'IPR Awareness and Social Insects'	9/5/2017	85	Department of Zoology
15	A hands-on training workshop, 'PCR & Southern Blotting'	9/26/2017	79	Department of Zoology
<b>2018-2019</b>				
16	Python Workshop: A workshop on 'PYTHON' was organized in association with, industry partner Coding Blocks, New Delhi	4/3/2019	70	Coding Blocks, 1st Floor, 47, Nishant Kunj, Main Pitampura Road, New Delhi, +91 8642229705
17	Fraud, Forgery and Forensics: Examining Handwriting, Fingerprinting and Security documents	4/3/2019	125	Documents, Lok Nayak Jaiprakash Narayan National Institute of Criminology and Forensic Science, Ministry of
18	Two day FDP on Emotional Intelligence	01-04-2019 - 02-04-2019	25	Prof. Anil Ohri, ICT Academy
19	One day Technical talk on "Chaos Engineering"	2/15/2019	45	Mr. Jitender Singh, CaaStle,
20	ELISA Technique	2/13/2019	90	Mr. Vikas Sachdeva, Department of Gastroenterology, All India Institute of Medical science, New Delhi
21	One day Technical talk on "Top Careers in IT in 21st Century"	2/6/2019	70	Mr. R Chaddha, LandMark Institute

22	Invited talk on 'Satellite Communication' by Prof. Mridula Gupta, Department of Electronic Science, University of Delhi	1/31/2019	68	Prof. Mridula Gupta, Department of Electronic Science, University of Delhi, mridula@south.du.ac.in
23	Invited talk on 'Professional Conduct with Positive Attitude' by Ms. Anju Kumari, motivational speaker, Life skills trainer, Founder, Crafting leaders	10/4/2018	71	Ms. Anju Kumari, motivational speaker, Life skills trainer, Founder, Crafting leaders, mob: +91 9873588707
24	Cloud Literacy day, with Mr. Lovkesh, ICT Academy as Resource Person.	10/9/2018	58	
25	SPIE Induction	25-09-2018 - 26-09-2018	158	Department of Electronics
26	Invited Talk: Invited talk on 'Current Trends in Mobile Application Development' by Mr. Rohit Gambhir, Lead in Mobile Application Development, QA Infotech	9/20/2018	85	Mr. Rohit Gambhir, Lead in Mobile Application Development, QA Infotech, mob: +91 84476 76322
27	Workshop on "FOSS (Free and Open Source Software) and Linux Familiarization" for first year students of the college Scheme.	28-08-2018 - 30-08-2018 & 04-09-2018	722	Dr. Harita Ahuja, Dr. Sunita Narang, Associate Professor(s) Acharya Narendra Dev College, haritaahuja@andc.du.ac.in, haritaahuja@andc.du.ac.in
28	One day Technical talk on "Turing test to Deep learning"	9/19/2018	78	Prof. Vasudha Bhatnagar, Department of Computer Science, University of Delhi, vasudhabhatnagar@gmail.com
29	One day workshop on "Awareness on Digital India Initiative"	9/18/2018	147	Dr. Harita Ahuja, Dr. Sunita Narang, Associate Professor(s) Acharya Narendra Dev College, haritaahuja@andc.du.ac.in, haritaahuja@andc.du.ac.in
30	Paradigm shift in Physics Education through hands-on techniques in Optics	05-09-2018 & 07-09-2018	150	Department of Physics
<b>2019-2020</b>				
31	Molecular Biology Techniques	11/22/2019	56 Students	Department of Zoology
32	One Day Exhibit Presentation: New Frontiers in Science	10/22/2019	150 Students	
33	Invited Talk: Autonomous Navigation with Intelligent Camera for Space and Earth	10/15/2019	100 Students	Prof. Marija Strojnik, AstroPhysicist and Distinguished Lecturer, Optical Research Center, Mexico
34	Learning Molecular Biology Techniques	9/24/2019	88 Students	Department of Biomedical Sciences and Department of Zoology
35	Linux and FOSS	16-09-2019-19-09-2019	740 Students	Department of Computer Science
36	Unravel the Microbial World, Foldscope	9/9/2019	44 Students	Department of Botany and Department of Zoology
37	Arduino Workshop: A hands-on workshop to familiarize students with programming and designing automated systems using arduino.	9/7/2019	100 Students	SPIE ANDC Student Chapter Faculty Advisor: Dr. Amit Garg
38	Surface Plasmon Resonance (SPR) and UV-Visible Spectroscopy: Basic working principle and Environmental Applications	23-08-2019 - 27-08-2019	123 Students	Department of Botany and Department of Botany
39	Workshop: Optical Color Mixing	8/9/2019	110 Students	SPIE ANDC Student Chapter Faculty Advisor: Dr. Amit Garg



40	Optics Education Outreach Programme 2020	15-06-2020 - 30-06-2020	<a href="#">12 Students</a>	SPIE ANDC Student Chapter Faculty Advisor: Dr. Amit Garg
41	LabView Workshop: To provide basic training and hands-on exposure to Virtual Instrumentation and LabView	23-06-2020 - 27-06-2020	67 Students	Devendra Dhawan, Founder of Touch Techno Pvt. Ltd 705, Laxmideep Building, District Centre, Laxmi Nagar, Delhi – 110092, India Email: info@touchtechno.com Contact: +91 9810260353
42	Machine Learning using Python	3/4/2020	55 Students	Department of Computer Science and Department of Electronics
43	Robotics workshop: Robo Race	3/3/2020	45 Students	SPIE ANDC Student Chapter Faculty Advisor: Dr. Amit Garg
44	Raspberry Pi workshop	03-03-2020 - 04-03-2020	41 Students	SPIE ANDC Student Chapter Faculty Advisor: Dr. Amit Garg
45	Technical Talk: IOT and Connectivity Solution	3/3/2020	79 Students	Devendra Dhawan, Founder of Touch Techno Pvt. Ltd 705, Laxmideep Building, District Centre, Laxmi Nagar, Delhi – 110092, India Email: info@touchtechno.com Contact: +91 9810260353
46	Techniques in Molecular Microbiology	2/25/2020	35 Students	Department of Biomedical Sciences and Department of Zoology
<b>2020-2021</b>				
47	Poster and Video making competition on the occasion of International Literacy Day	9/8/2020	30	NSS ANDC
48	Online Awareness through posters on the occasion of International day for the preservation of Ozone Layer	9/16/2020	8	NSS ANDC
49	NSS Day - Webinar by Dr. Kersi Chavda, Consultant Psychiatrist on "COVID: living well inspite of it!!"	9/24/2020	100	NSS ANDC
50	NSS Day – Session by Dharamshila Cancer foundation & Research Centre by founder of the institute - Clean Yamuna - Prevent Cancer	9/24/2020	80	NSS ANDC and Dharamshila Cancer Foundation and Research Centre
	Under the FIT India Movement, Dandi Run	10/2/2020	30	Piku Sports, Noida
51	Your Kitchen is your health Tool by Dr. Sheenu Sanjeev	10/7/2020	60	NSS ANDC
52	Mera Sangharsh, Meri Jeet, Meri Kahani - Talk by various cancer survivors	10/12/2020	75	NSS ANDC
53	Covid appropriate behaviour awareness	10/12/2020	50	NSS ANDC
54	Inaugural Lecture of Tarumitra, the Botanical Society: An online lecture by Dr Praksh Baba Amte was organized on October 15, 2020 to appreciate and inspire the younger generation for self-less work for society	10/15/2020	60	Tarumitra, the Botanical Society
55	Group Discussion on “Improving the quality of life of indian farmers”	12/23/2020	60	NSS ANDC

56	Vigilance Week - Interactive Quiz on Anti Corruption and Gender Sensitization	10/29/2020	55	NSS ANDC
57	“Gender Par Charcha“ Group Discussion	10/30/2020	80	NSS ANDC
58	Cloth Collection Drive – relief for needy people for winter	12/31/2020	25	NSS ANDC
59	Road Safety Week - Article writing competition	1/2/2021	40	NSS ANDC
60	Plantation Drive on the occasion of National Youth Day	1/12/2021	25	NSS ANDC
61	Radio Jockey Competition	1/20/2021	60	NSS ANDC
62	Taught underprivileged students of adopted village under Project VID IPSA	2/4/2021	65	NSS ANDC
63	Spread Awareness on the occasion of World Cancer Day	2/6/2021	20	NSS ANDC
64	Group Discussion on “Digital Life – A life behind the screen”	2/10/2021	60	NSS ANDC
65	Poster making Competition on taking care of stray animals under Project Feeding Stray Animals	2/11/2021	35	NSS ANDC
66	Just-A-Minute Competition for Mental Health Awareness under Project Wellness	2/11/2021	40	NSS ANDC
67	Group Discussion on “Women turning out as great leader in modern world”	3/8/2021	70	NSS ANDC
68	Essay Competition on “The rise of women is not about the fall of men”	3/8/2021	60	NSS ANDC
69	Awareness about Thalassemia(Wellness) under joint aegis of NARCHI , NEEV and Maulana Azad Medical College by Dr Seema Kapoor And Dr Sangeet Gupta From MAMC Delhi	3/22/2021	91	NSS, NARCHI, NEEV, Maulana Azad Medical College
70	Thalassemia Camp : Screening for thalassemia	3/23/2021	108	NSS ANDC
71	Tools and Techniques in Statistical Analysis	06-04-2021-19-04-2021	210	Department of Biomedical Science, Department of Botany, Department of Mathematics & Department of Zoology
72	Various events like- Quiz, JAM etc. On “Smartphones lead to depression & mental stress”	4/6/2021	70	NSS ANDC
73	Webinar by Dr. Suchita Kalyani, Physiotherapist on “Good & Bad Postures & magic of physiotherapy”	4/7/2021	80	NSS ANDC
74	Slogan writing competition on the occasion of World Health Day	4/7/2021	30	NSS ANDC
75	Debate on “Tradional Indian Food healthy for our body”	4/7/2021	50	NSS ANDC
76	Best Out of Waste Competition under Swachh Bharat Abhiyan	4/10/2021	25	NSS ANDC
77	Group Discussion on “fears of getting vaccination”	4/7/2021	60	NSS ANDC
78	Group Discussion on “side effects of vaccination”	4/7/2021	60	NSS ANDC
79	Webinar on “Cyber Crimes and Safety measures” by Dr. Gaurav Kumar	4/25/2021	80	NSS ANDC

80	Webinar on the occasion of International Yoga Day by Smt Shashi Sharda	6/18/2021	100	NSS ANDC, AyurYoga Life Institute, NSS SVC, NSS NSUT, NSS BITS, NSS Shivaji, NSS Aryabhata and NSS DCAC
81	Live Session - Introduction to meditation by Shree Naveen Kumar H	18-06-2021-20-06-2021	90	NSS ANDC, AyurYoga Life Institute, NSS SVC, NSS NSUT, NSS BITS, NSS Shivaji, NSS Aryabhata and NSS DCAC
82	Live Session - Introduction to YOGA by Smt. Vidu Chaudhary	19-06-2021-21-06-2021	95	NSS ANDC, AyurYoga Life Institute, NSS SVC, NSS NSUT, NSS BITS, NSS Shivaji, NSS Aryabhata and NSS DCAC
83	Blood Donation Camp	6/14/2021	30	NSS ANDC, Pitampura Blood Bank and NGO Blood Connect
<b>2021-2022</b>				
84	Online bootcamp "V-Lab Development Bootcamp 1.0"	17-01-2022-22-01-2022	125	Under the aegis of DBT STAR College Scheme.
85	Hands-on workshop on Tools and Techniques of Biotechnology	07-04-2022-08-04-2022	65	Under the aegis of DBT STAR College Scheme.
86	Hands-on workshop on Biological Techniques	27-09-2021-04-10-2021	75	Under the aegis of DBT STAR College Scheme.
87	MICROSPHERE 2021: An International Outreach Program to celebrate the International Microorganism Day	9/17/2021	800	IIT Roorkee, Deen Dayal Upadhyaya College, Gargi College, Kirori Mal College, Maitreyi College, Ramjas College, Sri Venkateswara College, (DU), Magadh University, Allahabad University and our Industry associate - PhiXgen Pvt. Ltd.
88	Hands-on to Computational Biology for (Meta) Genomics Analysis "Computational Biology for Beginners"	11/14/2021	50	Deen Dayal Upadhyay College (University of Delhi), Maitreyi College (University of Delhi), Ramjas College (University of Delhi), Kirori Mal College (University of Delhi), Sri Venkateswara College (University of Delhi), CMP College (Allahabad University) and Phixgen Pvt Ltd.
89	Workshop in "Art of Scientific writing and communication"	11/15/2021	35	Deen Dayal Upadhyay College (University of Delhi), Maitreyi College (University of Delhi), Ramjas College (University of Delhi), Kirori Mal College (University of Delhi), Sri Venkateswara College (University of Delhi), CMP College (Allahabad University) and Phixgen Pvt Ltd.
90	IPR Awareness Programme (Under National Intellectual Property Awareness Mission)	12/29/2021	65	Ministry of Commerce and Industry, Department for Promotion of Industry and Internal Trades, Office of the Controller General of Patents, Designs & Trademarks
91	Workshop on "Initiating Virtual Labs @ ANDC in Collaboration with IIT Delhi"	8/24/2021	74	IIT, Delhi
92	Digital Transformation and it's im	7/7/2021	63	DBT Star Scheme, Acharya Narendra Dev College, University of Delhi
93	Webinar on Environmental Hazard	7/31/2021	79	DBT Star Scheme, Acharya Narendra Dev College, University of Delhi
94	An Insight into Currency Derivativ	9/11/2021	112	Department of Commerce, Acharya Narendra Dev College, University of Delhi

95	Explainable AI	10/4/2021	73	Department of Computer Science, Acharya Narendra Dev College, University of Delhi
96	Predictive Modeling using Python	10/8/2021	67	Department of Computer Science, Acharya Narendra Dev College, University of Delhi
97	Career Opportunities in MNCs	10/9/2021	116	Department of Commerce, Acharya Narendra Dev College, University of Delhi
98	Biodiversity Conservation as if ped	10/28/2021	79	Department of Botany, Acharya Narendra Dev College, University of Delhi
99	Annual International E-Conference of Indian Network for Soil Contamination Research on Microbes in Sustainable Development	15-11-2021-18-11-2021	256	Acharya Narendra Dev College, University of Delhi
100	Why Him, Why Not Her	1/24/2022	56	SASHAKT, Acharya Narendra Dev College, University of Delhi
101	Designing of a Novel Vector for One-Step Cloning and Expression in E. coli	1/28/2022	75	IISER, Bhopal
102	Introduction to BioNESTUDSC an	2/15/2022	64	BioNEST-UDSC
103	Environmental mitigation through	2/22/2022	97	Department of Zoology, Acharya Narendra Dev College, University of Delhi
104	Anthropocene: A misplaced trust i	2/22/2022	87	Department of Zoology and Environmental Science and Acharya Narendra Dev College
105	The Role of the 2D materials for sustainable Growth and Future Optoelectronic Device Applications for environment	2/22/2022	98	J. Heyrovsky Institute of Physical Chemistry of the Czech Academy of Science, Prague CzechRepublic and Acharya Narendra Dev College, University of Delhi
106	Low temperature operated efficient NO2 gas sensors for environmental monitoring	2/22/2022	97	Department of Physics, Acharya Narendra Dev College, University of Delhi
107	Syzygy or Sisyphus: The Future of	2/22/2022	77	Environmental Policy Bryant University Rhode Island, USA and Acharya Narendra Dev College
108	Overcoming challenges in the sustainable remediation of Hexachlorocyclohexane (HCH) dumpsite soils	2/22/2022	99	Department of Zoology, Acharya Narendra Dev College, University of Delhi
109	Ecosystem Restoration – Certain key approaches, principles and interventions	2/23/2022	87	Department of Zoology, Acharya Narendra Dev College, University of Delhi
110	Zero Hunger and climate mitigation	2/23/2022	77	Department of Zoology, Acharya Narendra Dev College, University of Delhi
111	Engagement of citizens in co-designing citizen science studies in environmental epidemiology: opportunities and challenges	2/24/2022	99	Department of Environmental Science Jožef Stefan Institute (JSI) Ljubljana, Slovenia and Acharya Narendra Dev College, University of Delhi
112	Criteria for Identifying Coastal & I	2/24/2022	67	Department of Zoology, Acharya Narendra Dev College, University of Delhi
113	Mangrove plantation activities in K	2/24/2022	76	Department of Zoology, Acharya Narendra Dev College, University of Delhi
114	Identification and monitoring of ciliated key protists in aquatic environments in the light of a sustainable environmental approach	2/25/2022	88	Research Department for Limnology Mondsee University of Innsbruck, AUSTRIA and Department of Zoology, Acharya Narendra Dev College, University of Delhi



115	Hot springs located Atop the Himalayan Ranges at Manikaran and Kheer Ganga in Himachal Pradesh, India : Potential Sources of Microbial Diversity and Thermostable Enzymes	2/25/2022	98	Platinum Jubilee Fellow The Energy and Resources Institute INDIA and Department of Zoology, Acharya Narendra Dev College, University of Delhi
116	In2Se3 thin films based high performance selfpowered UV photodetector for environmental applications	2/25/2022	87	Department of Physics, Acharya Narendra Dev College, University of Delhi
117	Using biodiversity models to support	2/26/2022	94	Department of Zoology, Acharya Narendra Dev College, University of Delhi
118	Incubating Ideas to Build Sustainable	2/26/2022	76	Department of Zoology, Acharya Narendra Dev College, University of Delhi
119	The role of genomics in resolving classification anomalies of bacterial genera	2/26/2022	89	Department of Zoology, Acharya Narendra Dev College, University of Delhi
120	Health care sustainability	2/27/2022	112	Department of Zoology, Acharya Narendra Dev College, University of Delhi
121	Nourish Ecosystems, Nurture Biodiversity, Enable Food and Enhance Resilience – Integrating Nature’s potential	2/28/2022	96	Department of Zoology, Acharya Narendra Dev College, University of Delhi
122	Cisco Network Administration	03-03-2022-04-03-2022	65	Department of Computer Science, Acharya Narendra Dev College, University of Delhi
123	Wireless Security Network	3/4/2022	78	Department of Computer Science, Acharya Narendra Dev College, University of Delhi
124	Energy Work to Declutter and Re-	3/8/2022	67	SASHAKT, Acharya Narendra Dev College, University of Delhi
125	Biomarker discovery for cardiovascular diseases using multiomics approaches	3/23/2022	63	Department of Botany, Acharya Narendra Dev College, University of Delhi
126	Kitchen is your Health tool	4/18/2022	66	Department of Biomedical Sciences, Acharya Narendra Dev College, University of Delhi
127	Magnetic Nano-structures based Microwave monolithic signal processing device:Fabrication and testing	4/19/2022	56	Department of Electronics, Acharya Narendra Dev College, University of Delhi
128	Menstrual Health and Hygiene	6/23/2022	63	Department of Botany, Acharya Narendra Dev College, University of Delhi
129	The Beat Covid Campaign	7/5/2021	76	NSS, Acharya Narendra Dev College, University of Delhi
130	Webinar on Health and Medicinal	7/21/2021	73	NSS, Acharya Narendra Dev College, University of Delhi
131	Poem Recitation on Kargil Vijay D	7/25/2021	97	NSS, Acharya Narendra Dev College, University of Delhi
132	World Hepatitis Day through digital posters	7/28/2021	10	NSS, Acharya Narendra Dev College, University of Delhi
133	Webinar - Hepatitis can't wait	8/1/2021	82	NSS, Acharya Narendra Dev College, University of Delhi
134	Webinar on Impact of National Education Policy on Youth Empowerment and Sports Development	8/4/2021	85	NSS, Acharya Narendra Dev College, University of Delhi
135	Webinar on cancer prevention and adopting a healthy life style	8/4/2021	69	NSS, Acharya Narendra Dev College, University of Delhi
136	Essay Writing Competition- Role of women in India's freedom	8/15/2021	60	College, University of Delhi
137	Interactive quiz based on quotes and beliefs of Freedom Fighter	8/15/2021	65	NSS, Acharya Narendra Dev College, University of Delhi
138	Plogging Drive	8/16/2021	20	NSS, Acharya Narendra Dev College, University of Delhi

139	Swachhta Pakhwada - Pledge Taking Ceremony	8/18/2021	50	NSS, Acharya Narendra Dev College, University of Delhi
140	Group Discussion on Sanskrit and Science are Synonymous on the occasion of World Sanskrit Day	8/23/2021	60	NSS, Acharya Narendra Dev College, University of Delhi
141	FIT India Freedom Run of 75th Azaadi ka Amrit Mahotsav	8/28/2021	53	NSS, Acharya Narendra Dev College, University of Delhi
142	Kahaani Bezubaano ki meri Zubaani (Individual story with stray animal) under Project Stray Animal	9/6/2021	28	NSS, Acharya Narendra Dev College, University of Delhi
143	Nutrition Drive in adopted villages	9/7/2021	35	NSS, Acharya Narendra Dev College, University of Delhi
144	Poshan Abhiyan Quiz	9/8/2021	40	NSS, Acharya Narendra Dev College, University of Delhi
145	Yoga for nutrition workshop – NSUT	9/11/2021	896	NSS, Acharya Narendra Dev College, University of Delhi
146	Stray Snapx, A photography competition under Project Stray Animals	9/15/2021	50	NSS, Acharya Narendra Dev College, University of Delhi
147	Feeding Stray Animal (for 1 month) - 1 under Project Stray Animal	9/15/2021	20	NSS, Acharya Narendra Dev College, University of Delhi
148	e-Poster Making Competition on World Ozone Day	9/17/2021	55	NSS, Acharya Narendra Dev College, University of Delhi
149	Group Discussion on "Gandhian Approach towards Nature Cure"	9/24/2021	60	NSS, Acharya Narendra Dev College, University of Delhi
150	Integrity Knowledge : A Relay Quiz	9/24/2021	40	NSS, Acharya Narendra Dev College, University of Delhi
151	FIT India Freedom Run 2.0	9/24/2021	964	NSS, Acharya Narendra Dev College, University of Delhi
152	Youth Panel Discussion	10/2/2021	115	NSS, Acharya Narendra Dev College, University of Delhi
153	Dandi Run/ Walk on Gandhi Jayanti	10/2/2021	964	NSS, Acharya Narendra Dev College, University of Delhi
154	Article writing on occasion of World Ozone Day	10/11/2021	53	NSS, Acharya Narendra Dev College, University of Delhi
155	Art of Mind Control session under Project Wellness	10/12/2021	40	NSS, Acharya Narendra Dev College, University of Delhi
156	Film Screening on Breast Cancer	10/18/2021	561	NSS, Acharya Narendra Dev College, University of Delhi
157	Awareness on Breast Cancer through Posters	10/19/2021	700	NSS, Acharya Narendra Dev College, University of Delhi
158	Poetry Competition on occasion of World Ozone Day	10/20/2021	50	NSS, Acharya Narendra Dev College, University of Delhi
159	Quiz Competition on Green Crack	10/23/2021	91	NSS, Acharya Narendra Dev College, University of Delhi
160	Quiz Competition on Green Crack	10/23/2021	91	NSS, Acharya Narendra Dev College, University of Delhi
161	Sahyog Mela	10/26/2021	3000	NSS, Acharya Narendra Dev College, University of Delhi
162	Group Discussion on "Independence Day"	10/27/2021	150	NSS, Acharya Narendra Dev College, University of Delhi
163	Workshop with a real time breast cancer awareness	10/28/2021	550	NSS, Acharya Narendra Dev College, University of Delhi
164	Slogan Writing Competition on "Independence Day"	10/29/2021	156	NSS, Acharya Narendra Dev College, University of Delhi
165	Integrity Pledge	10/31/2021	2317	NSS, Acharya Narendra Dev College, University of Delhi
166	Group Discussion on "Relevance of Sanskrit"	10/31/2021	300	NSS, Acharya Narendra Dev College, University of Delhi
167	Rashtriya Ekta Diwas Pledge	10/31/2021	506	NSS, Acharya Narendra Dev College, University of Delhi
168	Surrounding Cleanliness under Project Swachhta	11/1/2021	2188	NSS, Acharya Narendra Dev College, University of Delhi
169	Rangoli making competition under Project Swachhta	11/4/2021	30	NSS, Acharya Narendra Dev College, University of Delhi
170	National Education Day	11/11/2021	30	NSS, Acharya Narendra Dev College, University of Delhi
171	Story Writing Competition on the occasion of World Sanskrit Day	11/14/2021	45	NSS, Acharya Narendra Dev College, University of Delhi

172	Cloth donation Drive - Donated an	11/25/2021	60	NSS, Acharya Narendra Dev College, University of Delhi
173	Interaction with HIV Infected orph	12/1/2021	45	NSS, Acharya Narendra Dev College, University of Delhi
174	AIDS day rally with HIV infected	12/1/2021	45	NSS, Acharya Narendra Dev College, University of Delhi
175	Speech competition on National Y	1/9/2022	55	NSS, Acharya Narendra Dev College, University of Delhi
176	Promotion of Hindi language (Hir	1/10/2022	53	NSS, Acharya Narendra Dev College, University of Delhi
177	National Road Safety Week	1/11/2022	58	NSS, Acharya Narendra Dev College, University of Delhi
178	Unveiling through tales	1/16/2022	25	NSS, Acharya Narendra Dev College, University of Delhi
179	Online Teaching and Fun session under Project VID IPSA	1/24/2022	73	NSS, Acharya Narendra Dev College, University of Delhi
180	Online Live Quiz Competition on	1/25/2022	62	NSS, Acharya Narendra Dev College, University of Delhi
181	Pledge to Vote on National Voter'	1/25/2022	2317	NSS, Acharya Narendra Dev College, University of Delhi
182	World Wetland day Live poll	2/2/2022	20	NSS, Acharya Narendra Dev College, University of Delhi
183	Card making competition on world	2/4/2022	35	NSS, Acharya Narendra Dev College, University of Delhi
184	Calligraphy Competition on the oc	2/5/2022	45	NSS, Acharya Narendra Dev College, University of Delhi
185	Poster Making Competition on Saf	2/8/2022	67	NSS, Acharya Narendra Dev College, University of Delhi
186	Poster Making Competition on the	2/20/2022	62	NSS, Acharya Narendra Dev College, University of Delhi
187	Picture Interpretation Competition	2/28/2022	35	NSS, Acharya Narendra Dev College, University of Delhi
188	Poshan Abhiyaan	3/21/2022	60	NSS, Acharya Narendra Dev College, University of Delhi
189	Free medical health check-up cam	4/3/2022	115	NSS, Acharya Narendra Dev College, University of Delhi
190	International Yoga Day Celebratio	6/21/2022	2317	NSS, Acharya Narendra Dev College, University of Delhi
191	Cancer Awareness Programmes	6/23/2022	563	NSS, Acharya Narendra Dev College, University of Delhi
192	Pride Month	01-06-2022-30-06-2022	54	NSS, Acharya Narendra Dev College, University of Delhi
193	Workshop on Financial Literacy	16-08-2021-17-08-2021	70	NSS, Acharya Narendra Dev College, University of Delhi
194	UMANG'21 - 2 Day Inter College Fest	24-09-2021-25-09-2021	70	NSS, Acharya Narendra Dev College, University of Delhi
195	Nature Cure for Daibetes	25-08-2021-26-08-2021	110	NSS, Acharya Narendra Dev College, University of Delhi