

GARGI COLLEGE UNIVERSITY OF DELHI



DEPARTMENT OF BOTANY

WELCOMES NAAC TEAM







INTRODUCTION



- Department of Botany was established in <u>1967</u>
- Main focus:

activities

Teaching- objective is to complement the conventional branches of plant sciences with modern biology.

Research at students' and faculty level

Holistic Development: Environment awareness programs eg. workshops, plantation drives, co-curricular

COURSES

- Course offered: B.Sc. (H) Botany (since 1976)
- Courses and Programs taught: Core papers and General elective papers to

B.Sc. Life Sciences,

B.Sc. (H) Zoology,

B.Sc. (H) Microbiology,

B.Sc. (H) Chemistry,

Biology to B. El. Ed

Environmental studies to students of Science,
 Commerce and Humanities



PRESENT POSITIONS



Teaching posts	Numbers
Professor	1
Associate Professor	2
Assistant Professor	15
Total	18

Non-Teaching staff	Numbers
Lab assistant	6
Lab attendant	3
Total	9

	Teachers with Post doctoral experience
17	5

Broad Areas of specialization

Genetics

Molecular biology

Plant physiology

Plant Anatomy

Phycology

Mycology

Plant Biotechnology

Bioinformatics

Plant Systematics

Reproductive Biology



DEPARTMENTAL INFRASTRUCTURE



- Departmental Library
- Internet facility for staff & Students: Gargi College is a Wi-Fi enabled campus.
- Botanical Garden: Maintained for classroom practical material
- Museum specimens with Barcode

- <u>Laboratories</u>: 7 (Seven) 4 for curriculum-based practicals and 3 are research laboratories.
 - Molecular Biology Laboratory: equipped with thermocycler, gel electrophoresis, gel doc, centrifuge, vortexer, and magnetic stirrer.
 - <u>Plant Tissue Culture Laboratory</u>: equipped with laminar flow, culture racks, weighing balance, autoclave, and refrigerator.
 - Bioinformatics Laboratory: For beyond curriculum projects
 - Students Laboratory (4): Fully equipped for curriculum-based practicals.



Plant biodiversity Laboratory (with museum specimen & dept. Library)



























Molecular Biology Laboratory



Thermocycler



Gel Doc

Refrigerated Centrifuge

Vacuum Pump











-80°C Refrigerator

Deep Freezer

Stirrer









14-09-2022

Departmental Presentation for NAAC Accreditation

Plant Tissue Culture Laboratory



Plant Tissue Culture Lab



Laminar Flow



Culture Racks



Autoclave



Grown Culture





Departmental Values and Best Practices



ENCOURAGE INTERNSHIPS

UG RESEARCH

WORKSHOPS

ADD-ON COURSES HOLISTIC DEVELOPMENT

ALUMNI AS MENTORS

FEEDBACK-ANALYSIS ENVIRONMENT SENSITIZATION



INSTITUTIONAL GRANTS RECEIVED BY THE DEPARTMENT



- 1. Star College Scheme (2009 2019) (funded by DBT)
- 2. Bioinformatics Infrastructure Facility (BIF-DBT) (2009-2020)



Gargi College is the only Women's College in DU to be awarded BIF grant by Dept. of Biotechnology, Govt. of India



Research projects funded by Government agencies (2016-21)



S. No	Name of the Project	Teacher Mentor	Year
	Co-PI, Faculty Research Programme, Institute of Excellence Scheme	Dr Reema Mishra	2020-21
	Revealing Components and Mechanism of Systemic Acquired Resistance (SAR) in <i>Brassica juncea</i> . Funded by SERB, DST (Duration -3 years)		2018-21 (Feb 22)
	Creation of BIF under biology teaching through bioinformatics scheme. Funded by DBT (2017-20)	Dr Aparajita Mohanty and Dr Reema Mishra	2017-20



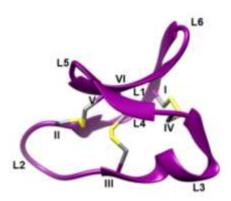
Research projects funded by Government agencies



Recent most addition (3rd Aug 2022)

Title: Proposal for Training in Bioinformatics

Funding agency: Department of Biotechnology



PI: Prof. Aparajita Mohanty

Co PI: Dr Reema Mishra

No. BT/PR40355/BID/7/970/2020

GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY

Block 2, 6-8th Floors CGO Complex, Lodhi Road, New Delhi- 110 003 Dated:03.08.2022

ORDER

Sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Powers Rules, 1978, for the implementation of the project entitled "Proposal for Workshop/Training in Bioinformatics" for a period of 2 Year 0 Month at a total cost of Rs. 1749920 (Rupees Seventeen Lakhs Fourty Nine Thousand Nine Hundred and Twenty Only) on the terms and conditions detailed here under:-

2 The Project :

2.1 Title: "Proposal for Workshop /Training in Bioinformatics".

2.2 Details of the Investigators:

Principal Investigator:

Dr. Aparajita Mohanty

PI

Department of Botany,

Gargi College, University of Delhi,

Sirifort Road, New Delhi-110049

Co-Principal Investigator:

Dr. Reema Mishra

Assistant professor

Department of Botany.

Gargi College, University of Delhi,

Sirifort Road, New Delhi-110049

2.3 Objectives:

To organize workshops and training programs

2.4 Time Schedule:

The duration of the project will be 2 Year 0 Month from the date of the first release order.

2.5 Project Cost:

The total cost of the project is Rs. 1749920/- (Rupees Seventeen Lakhs Fourty Nine Thousand Nine Hundred and Twenty Only) as per details given below:

Year I	Year II	Total(Rs.)
624960.00	624960.00	1249920.00
25000.00	25000.00	50000.00
25000.00	25000.00	50000.00
200000.00	200000.00	400000.00
874960.00	874960.00	1749920.00
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FACULTY ACHIEVEMENTS



Prof. Aparajita Mohanty



• Best performing teacher Award (2019) by Directorate of Higher Education, NCT, Delhi, Govt of India

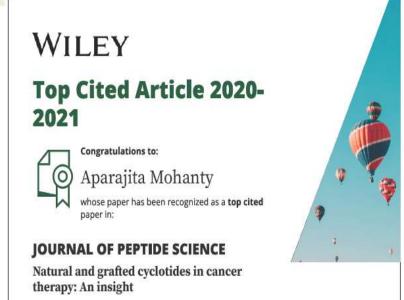
• Certificate of achievement for the Top Cited Article (2021) "Natural and grafted cyclotides in cancer therapy: An insight" in the year 2020-21 in Journal of Peptide Science by Wiley publishers.

Teachers as research guides

S. No	Teachers recognized as research guides	Year
1.	Dr. Aparajita Mohanty	2018
2. 3.	Dr. Priyanka Pandey, Dr. Anjana Rustagi	2019 2019

Number of student currently enrolled -2







RECOGNITIONS TO TEACHERS



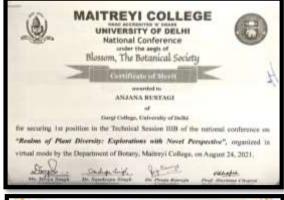
S.No	Name of Teachers	Category	Title of the programme	Year
1.	Dr. Anjana Rustagi	Best Poster Presentation	"Recent Development in Plant Stress Biology: translating laboratory research for human welfare (RDPSB-2018)" organized by Department of Botany, Central University of Jammu, Jammu and Kashmir during December 7th -8th 2018.	2018
2.	Dr. Renu Soni, Dr. Garvita Singh	1st position	"Intellectual Property Rights" organized by Shivaji College, University of Delhi, held on 6th November, 2019.	2019
3.	Dr. Renu Soni, Dr. Geeta, Dr. Reema Mishra	2nd position	"To Compare the Morphological, Anatomical, Physiological and Biochemical Characteristics of Medicinal Plants (<i>Ricinus communis</i> and <i>Ficus racemosa</i>) from Different Habitats" at National seminar on "Recent Trends of Research in Medicinal Plants and Applied Sciences", held at Ramjas College, University of Delhi, March 27, 2019.	2019
4.	Dr. Renu Soni, Dr. Garvita Singh	2nd position	Interdisciplinary National Conference on "Intellectual Property Rights (IPR): Challenges and Prospects" organized by Department of Botany, Maitreyi College, University of Delhi, 22nd- 23rd October, 2019	2019
5.	Dr. Anjana Rustagi	Best Oral Presentation	'Use of Scientific and technical Technologies in Sustainable Environment' organized by Gargi College, New Delhi during March 14th -16th 2019	2019
6.	Dr. Anjana Rustagi	Best Poster Presentation	'Innovations in sustainable production and value chain management in banana' organized by ICAR-National Research Centre for Banana, Trichy in association with Biodiversity International, Rome from February 22-25, 2020.	2020
7.	Dr. Anjana Rustagi	Best Poster Presentation	National Conference on "Realms of plant diversity: Explorations with novel perspective" held on 24th August 2021, organised by Maitreyi College, New Delhi.	2021
8.	Dr. Anjana Rustagi	Best Oral Presentation	(Technical sessioin IIIB) at National Conference on "Realms of plant diversity: Explorations with novel perspective" held on 24th August 2021, organised by Maitreyi College, New Delhi.	2021
9.	Dr. Renu Soni, Dr. Garvita Singh	2nd position	Significance of Kitchen Pharmacy during Covid-19 pandemic in the Technical Session IIIB of the National conference on Realms of plant diversity: explorations with novel perspective. Organized by Maitreyi College, University of Delhi College, University of Delhi on August 24, 2021.	2021
10	Dr. Preeti Agarwal	2nd position	Presenting paper on "In-silico analysis of ARF transcription factors, a key regulator of Auxin signaling pathway in wheat" in the National Conference on "Realms of Plant Diversity: Explorations with Novel Perspective", organized in virtual mode by the Department of Botany, Maitreyi College, on August 24, 2021 in the Technical Session A of the national conference.	2021
11.	Dr. Garvita Singh	Consolation prize	oral presentation in 2nd International Conference on Recent Advances in Biotechnology & Nanobiotechnology (Int-BIONANO-2022), Amity University (Int-BIONANO-2022), 10-11 February 2022.	2022

FACULTY ACHIEVEMENTS



























PUBLICATIONS (2016-2022)

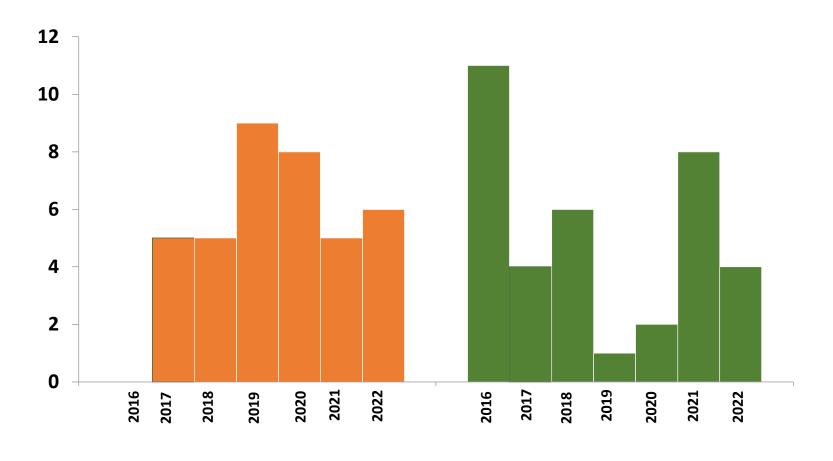


Department of Botany	
No. of papers published in peer reviewed journals	27
Impact Factor (Range) (as per Clarivate list)	Up to 7.4
h-index of faculty members (as per Google Scholar)	Up to 14
Chapter in Books 14-09-2022 Departmental Presentation for NAAC Accreditation	24



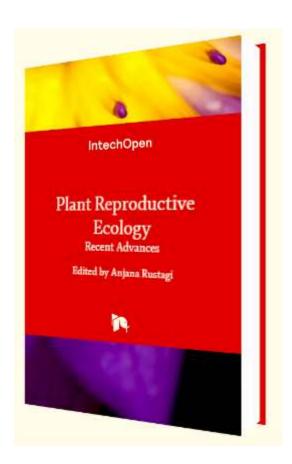
RESEARCH PUBLICATIONS & BOOK CHAPTERS







No. of book chapters (2016-22)

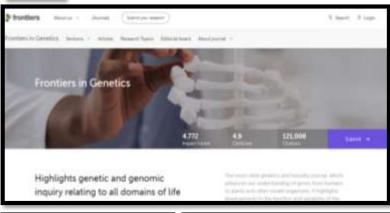


Book edited by Dr. Anjana Rustagi

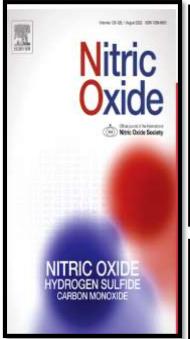


RESEARCH PUBLICATIONS







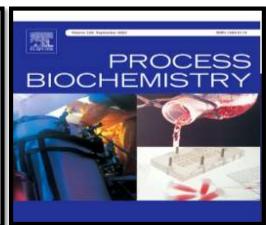




In silico identification of potential drug compound

against Perusisome proliferator-activated receptor-

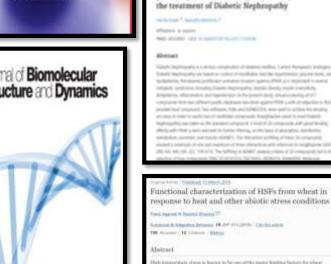
gamma by virtual screening and toxicity studies for













Process Biochemistry Volume 55, April 2017, Pages 17-31



Efficient genetic approaches for improvement of plasmid based expression of recombinant protein in Escherichia coli: A review

Tapan Kumar Singha * 15, Pooja Gulati * 15, Aparajita Mohanty * 15, Yogender Pal Khasa * 15, Rajeev Kumar Kapoor * ®, Sanjay Kumar A*™

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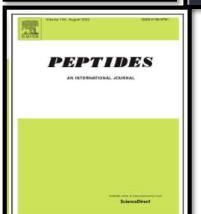
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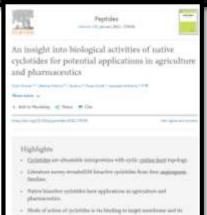
https://doi.org/10.1016/j.procbio.2017.01.026

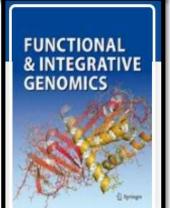
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Highlights

- · Genetic strategies efficiently improve recombinant protein expression in
- · Structural features of gene, plasmid components and host-vector influence recombinant protein.







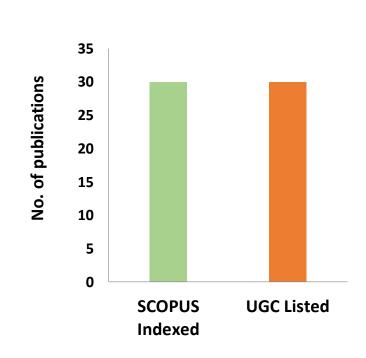


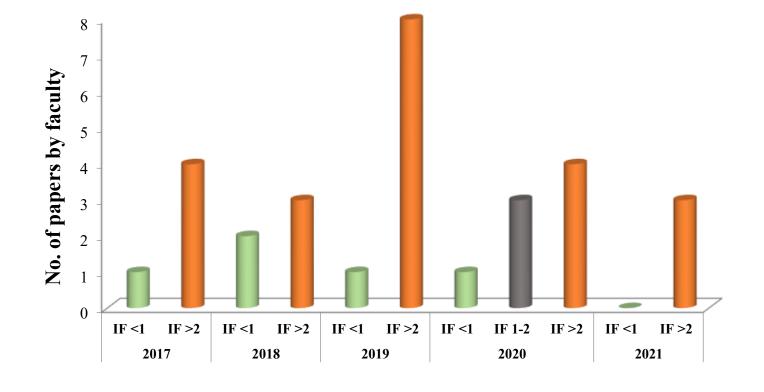
Research Publications: An analysis



Index-wise analysis of Research Publications (2016-2022)

Impact Factor-wise analysis of Research Publications (2016-2021)







Teacher Invited as Resource Persons



S.No	Name of Teachers	Title of the programme	Year	
1.		Resource person of Skill enhancement Workshop on "Why to grow and how to Multiply Plants" held at Department of Botany in association with Garden committee, Gargi College, 26.09.2017	2017	
3.	Dr. Anjana Rustagi	Delivered invited lecture entitled 'Watering and Weeding' in workshop on "Why to Grow and How to Multiply Plants" held at Department of Botany, Gargi College, 2017	2017	
4.	Dr. Reema Mishra	Delivered an invited lecture in the Departmental Colloquium organized by Department of Botany, Miranda House held on August 9, 2018.	2018	
5.	Dr. Aparajita Mohanty, Dr. Geeta, Dr. Renu Soni, Dr. Reema Mishra, Dr. Samira Chugh, Dr. Preeti Agarwal	Resource person and member of Organizing committee of Workshop on "Basic Skills in Computer Applications" held on 7-8.06.2018.	2018	
6.	Dr. Reema Mishra	Resource person in the workshop titled 'Mapping of QR Codes in Textbook of Biology Class XII with e-Content' organized by department of Education in Science and mathematics, NIE, NCERT, Delhi.	2018	
7.	Dr. Garvita Singh	Participated as resource person in tier two workshop on life science resources for teachers in higher education organized by NRCE, NIEPA New Delhi, 6-7 December	2018	
8.	Dr. Renu Soni	Resource person in the workshop for the Development of Audio Video Resource on Experiments of Biology at Higher Secondary Stage Department of Education in Science and Mathematics, NIE, NCERT from 15.02.21-19.03.21	2021	
9.	Dr. Renu Soni	Resource person in the workshop For the Development of Audio Video Resource on Experiments of Biology at Higher Secondary Stage, Department of Education in Science and Mathematics, NIE, NCERT on 24.03.21 and 26 .03.21	2021	
10.	Dr. Reema Mishra	Resource person in the workshop for development of audio video resource on experiments of Biology at Higher Secondary stage, organized by Department of Education in Science and Mathematics NCERT, from March 22, 2021 to March 26, 2021.	2021	



Teacher Invited as Resource Persons



S.No	Name of Teachers	Title of the programme	Year
11.	Dr. Renu Soni	Resource person in the workshop for development of audio/video resource in Biology at Higher Secondary stage, organized by Department of Education in Science and Mathematics, NIE, NCERT, 26.10.21-28.10.21	
12.	Dr. Renu Soni	Resource person in the E-student Enrichment Program on "Mathematics for Biologists", organized by Department of Botany Gargi College, University of Delhi, 09.07.2021 to 19.07.2021	2021
13.	Dr. Renu Soni	Expert and Resource person for the webinar on World Ozone day, organized by Technia Institute of Advanced Studies, Delhi, 16.09.21	2021
14.	Dr. Reema Mishra	Convener cum resource person of the E-student Enrichment Program on "Mathematics for Biologists" organized by Department of Botany Gargi College, University of Delhi, 09.07.2021 to 19.07.2021,	2021
15.	Dr. Reema Mishra	Resource person in the workshop for development of audio/video resource in Biology and Chemistry at Higher Secondary stage, organized by Department of Education in Science and Mathematics, NIE, NCERT, 21.09.2021.	
16.	Dr. Reema Mishra	Resource person in the workshop for the project ' Development of Learning Outcomes based resources under Road Map in Biology, Biochemistry at Higher Secondary Stage organized, Department of Education in Science and Mathematics, NIE, NCERT, 17-19.01.2022.	
17.	Dr. Aparajita Mohanty, Dr. Reema Mishra	Resource person in the workshop to review infographics developed based on Learning Outcomes in Biology at the Higher Secondary stage, DESM, NCERT, February 21-25, 2022.	2022
18.	Dr. Aparajita Mohanty, Dr. Reema Mishra	Resource person in the workshop to review infographics developed based on Learning Outcomes in Biology at the Higher Secondary stage to be held in DESM, NCERT, 15-17 March, 2022.	
19.	Dr. Anjana Rustagi	Invited talk on 'Regeneration and Genetic Transformation in Indian banana cultivars' at International conference on Advances and Innovations in Biotechnology and Allied Sciences organised by University Institute of Biotechnology, Chandigarh University in association with International Plant Propagators Society from 24th - 25th March 2022	

14-09-2022



FACULTY ACADEMIC COLLABORATIONS (NATIONAL AND INTERNATIONAL)



University of Madrid, Spain: Collaboration with research group of Prof Juan Pedro Martin, Dept Biologia Vegetal

Research Area: Population genetics

Maharshi Dayanand University: Collaboration with research group of Dr. Sanjay Kumar

Research Area: Cyclic peptides

Maharshi Dayanand University: Collaboration with research group of Dr. Pooja Gulati

Research Area: Microbial Enzymes

Dept. of Plant Molecular Biology, DU: Collaboration with research group of Prof Sanjay Kapoor **Transcriptomics research**

Jawaharlal Nehru University:

Transgenic plants

Objective evidence: Joint publications



FACULTY & CURRICULUM DEVELOPMENT



University of Delhi upgrades the curriculum / develops new curriculum

Faculty members are involved in curriculum development at all stages



Most recent:

Botany Course

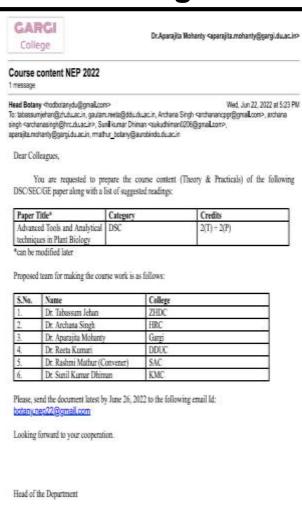
development under

New Education Policy (NEP)

Total No. of teachers

involved in NEP: 4

Made syllabus for papers: 9



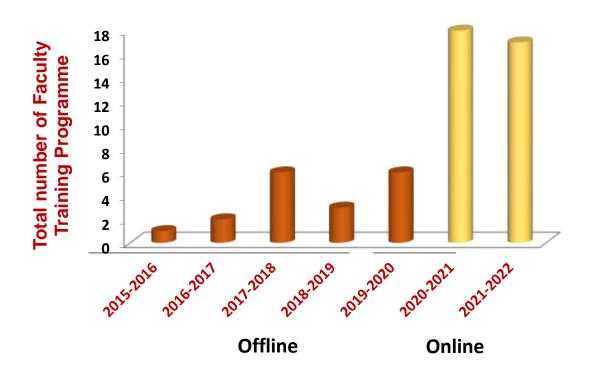


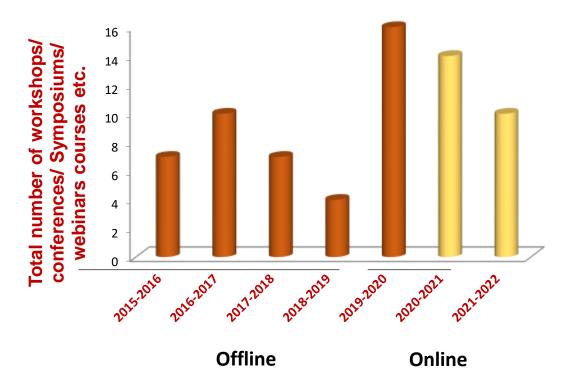
FACULTY TRAINING



Faculty Training Programme (Faculty Development Programme, Orientation course, Refresher course) attended by the faculty members

Workshops/ conferences/ Symposiums/ webinars/ courses attended by the faculty members







INSTITUTIONAL RESPONSIBILITY



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-		_	

NAAC steering committee

Gargi Pathfinder Award Committee (Science)

Eco-club committee

Equal Opportunity Cell

The Gargi College Media Cell

Medical committee

NIRF committee

Bookshop/photostat/stationery committee

Prize committee

College magazine committee

Library committee

Garden committee

Northeast society

Alumni Association

Courses committee member-Botany Department

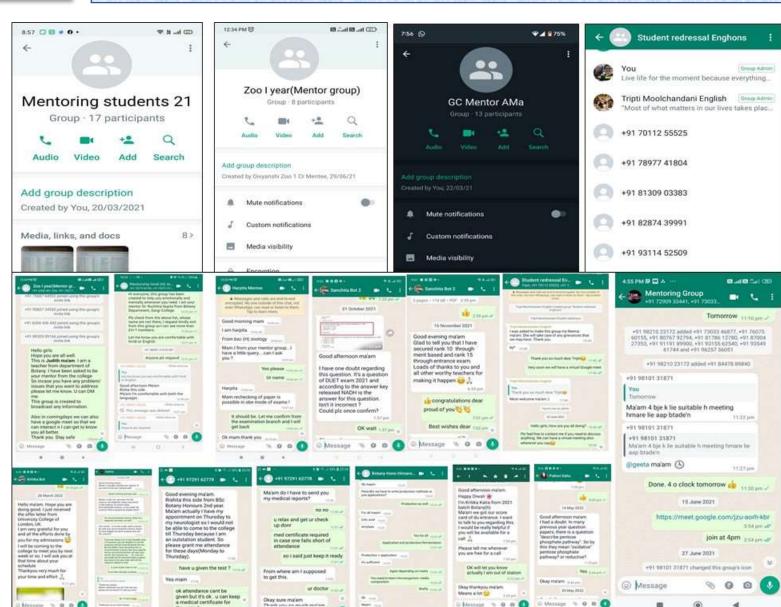
GB Member

Foreign students welfare committee



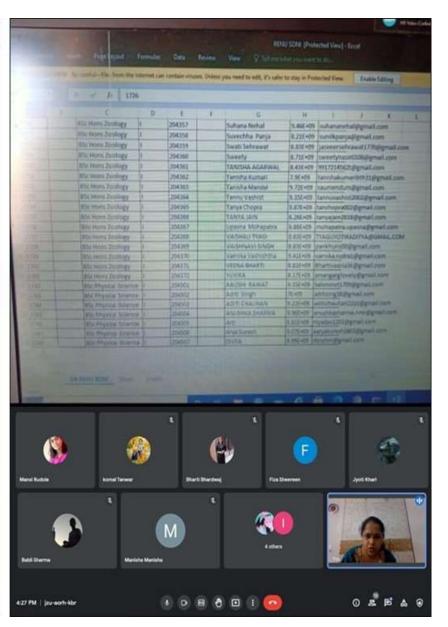
MENTOR-MENTEE INTERACTION





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District to 0 to 00





Training course organized for the laboratory staff



Workshops / Summer Schools	Scientific Area (Target group)
Workshop June, 2018	Basic Skills in Computer Applications
Workshop December, 2019	Laboratory Methods and Techniques



Glimpses of workshop for lab staff





GARGI COLLEGE (University of Delhi)



Under IQAC

Workshop Manual on

"Basic Skills in Computer Applications"
(June 07 and 08, 2018)

Organized by

Star College Scheme & Bioinformatics Infrastructure Facility (DBT)



Patron: Dr. Promila Kumar

Convenor: Dr. Shashi Tyagi and Dr. Aparajita Mohanty

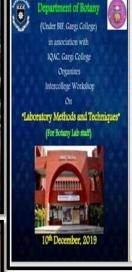
Members: Dr. Priyanka Pandey, Dr. Geeta.

Dr. Renu Soni, Dr. Reema Mishra









Topics to be covered

- Safety Measures and Do's and Don'ts in the Lab.
- Preparation of Lab for Practical.
- Principle and Working of Equipment.
- Preparation of Solutions, Buffers and Stains.
- Preservation and Processing of Plant Material.
- Preservation and Process

Basics of Computers.



Patron: Dr. Promila Kumar

Convener: Dr. Renu Soni

Co-Conveners: Dr. Geeta, Dr. Reema Mishra

Organizing Committee

Dr. Geeta Mehta
Dr. Vera Kapai
Dr. Aparajia Mohaniy
Ms. Ruchira Gupta
Dr. Priyanka Pandey
Dr. Ganris Singh
Dr. Anjana Rustagi
Dr. Anjana Rustagi
Dr. Renu Parl
Dr. Gladys
Ms. Munni Sharma
Dr. Samira Chugh
Ms. Shashi Bala
Dr. Preeti Agarwal
Ms. Rajni

Registration fees: INR 200 (to be paid on the day of workshop)

est date of registration: 25.11.2019

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Teaching Methods adopted to improve student learning



- All our lecture theatres are ICT enabled to enhance the assimilation of the subject.
- Provide hands-on experience to students through workshops and summer training programmes.
- Organise field trips (virtual and physical), and visits to research institutes and industries.
- Frequent quizzes for students.
- Assignments and group discussions.
- Students seminars and presentations.
- All the teaching resources (including notes, ppt., reference videos and references used during online classes during pandemic) have been uploaded to google classroom.



STUDENTS-CENTRIC INFORMATION Student diversity/Result analysis/ Awards/Collaborations/Publications/ Projects



STUDENT DIVERSITY







Most representative states w.r.t students



Lesser representative states w.r.t students



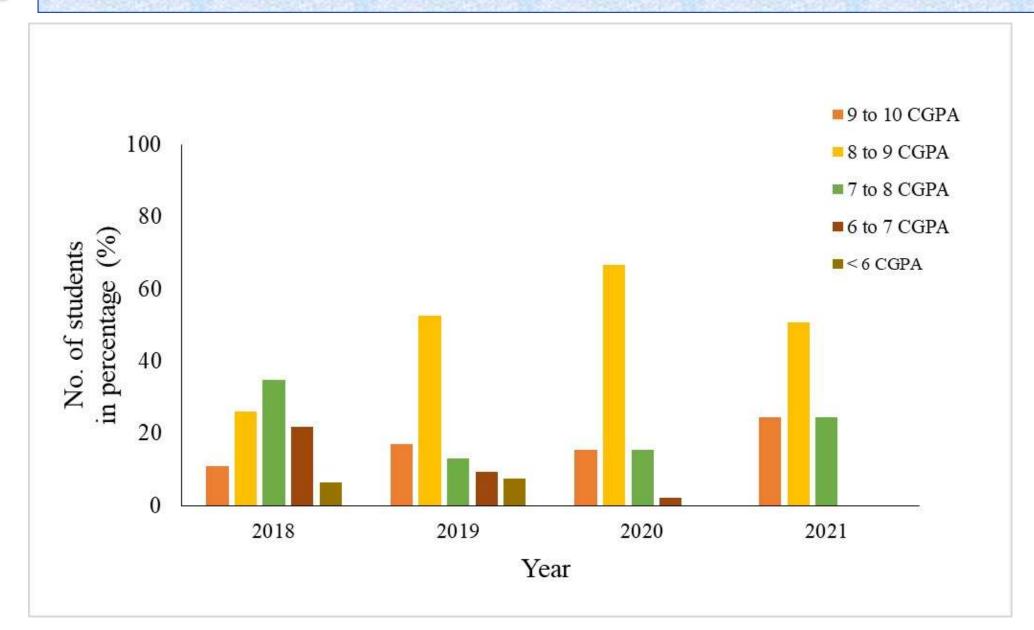
Occasional representative states w.r.t students

	DIVER					N N	1922-20
S. No.	States		Y	ear and No	. of Studen	ts	
		2016	2017	2018	2019	2020	2021
1	Arunachal		2			2	
	Pradesh						
2	Assam	1	3	2	1		1
3	Bihar	1	3		2	1	3
4	Chhattisgarh			1			1
5	<mark>Delhi</mark>	<mark>13</mark>	10	<mark>12</mark>	<mark>12</mark>	<mark>12</mark>	<mark>8</mark>
6	<mark>Haryana</mark>	<mark>22</mark>	<mark>14</mark>	<mark>22</mark>	<mark>15</mark>	<mark>25</mark>	20
7	Himachal Pradesh	1	1	2	2	2	3
8	Jammu &	3	3	3	3	3	3
9	Kashmir Jharkhand		2	1		1	2
10	Kerala Kerala		3	1		1	1
11	Ladakh					1	1
12	Madhya Pradesh	1	1	1	2	1	3
	The state of the s	1			2		3
13	Manipur		1	3			
14	Meghalaya	1					
15	Punjab	1	1				
16	Odisha	2				1	1
17	Rajasthan	3	3	2	1	3	6
18	Sikkim				1		
19	Tamil Nadu					1	
20	Telengna				1		
21	Tripura	1					1
22	Uttar Pradesh	<mark>17</mark>	<mark>13</mark>	<mark>10</mark>	<mark>16</mark>	<mark>12</mark>	7
23	Uttarakhand	2	2	2	1	1	3
24	West Bengal						1
	Total students	69	59	61	57	67	65
	Total states	14	13	12	12	14	17



RESULT ANALYSIS







STUDENTS ACHIEVEMENTS B.Sc. (H) BOTANY



Year	Class	University	South Campus	Students' names
		Rank	Rank	
2016-17	First Year	-	4 th	Anamika Saini
	Second Year	1st	1 st	Avi Mendiratta
	Third Year	-	5 th	Nidhi Gupta
2017-18	First Year	5 th	1 st	Apoorva Vardhan, Minora Priya
2018-19	First Year	-	6 th	Sanchita
	Second Year	4 th	2 nd	Apoorva Vardhan
	Third Year	-	4 th	Asmita Saini, Samiksha Sharma
2019-20	First Year	10 th	4 th	Bisma Butool
	Second Year	4 ^{rth}	4 ^{rth}	Sakshi Dawer
	Third Year	5 th	1 st	Apoorva Vardhan, Minora Priya
2020-21	First Year	3 rd	1 st	Surbhi Mendiratta
2020-21	Second Year	1st	1 st	Jayati Pandey, Akshita Sharma
2020-21	Third Year	-	5th	Sanchita







Surbhi Mendiratta



Jayati Pandey



Akshita Sharma



Anamika Saini
Best All Round Student of B.Sc. (Hons.)
Ill year



STUDENTS ACHIEVEMENTS



2019-2020

Name of Student	Class	Award
Apoorva Vardhan	3rd year	Dr. Lalita Sehgal Memorial Award
Minora Priya	3rd year	Dr. Lalita Sehgal Memorial Award
Sakshi Dawer	2nd year	Sh F.C. Sehgal Memorial Award
Bisma Butool	1st year	Smt. Pratibha mukherjee memorial award

2020-2021

Name of Student	Class	Award
Sanchita	3rd year	Dr. Lalita Sehgal Memorial Award
Akshita Sharma	2nd year	Sh. F. C. Sehgal Memorial Award
Jayati Pandey	2nd year	Sh. F. C. Sehgal Memorial Award
Bisma Butool	1st year + 2nd year	Sh. Shiv Bhagwan Mundhara Memorial Scholarship
Surbhi Mendiratta	1st year	Pratibha Mukherjee Memorial Award

Co-Scholastic Achievements

2021-2022

Name of Participant	Class	Competition	Position Awarde
Nasra	ard year	Photography competition	1st position
Shephali gupta	3rd year	Specimen sketching	and position
Riyanshi joshi	3rd year	Poster making, Topic-Save ozone save life	1st position
Pallavi Sahu	3rd year	National Level Wildlife Photography Competition	2nd position
		Poetry comptetion	1st position
Jayati Pandey	3rd year	Essay Writing	1st position
(20) S		Collage Making	3rd position
Shreya Singh	5rd year	Poetry competition	and position
	5rd year	Quiz Competition	3rd position
Divya Mangla		Quiz Competition	2nd position
Shubhi Sriyastaya	and year	Poster Making Competition in Gargi Olympiad	3rd position
ontroll otivastava		Wildlife Quiz Competition	1st position
		Photography competition	and position
		E-Poster making competition	2nd position
Tamanna Sharma	and year	Paper Presentation Competition	4th position
		Wildlife Quiz Competition	and position
		Ozone Day Poster Making Competition	1st position
	amola 2nd year	Info graph poster making competition	3rd position
Ananya Chamola		IntellectStormer	1st position
Control of Control Control of Control		Mismatched	and position
		Kalakriti- Poetry composition Competition	and position
Ankita Kumari Gupta	and year	Poster making competition	3rd position
		Zenith Poster/Logo Making Competition	1st position
Yashasvi Saini	and year	Kalakriti Inter College Poster Making Competiton	1st position



FINANCIAL ASSISTANCE AND SCHOLARSHIPS (2016-21)

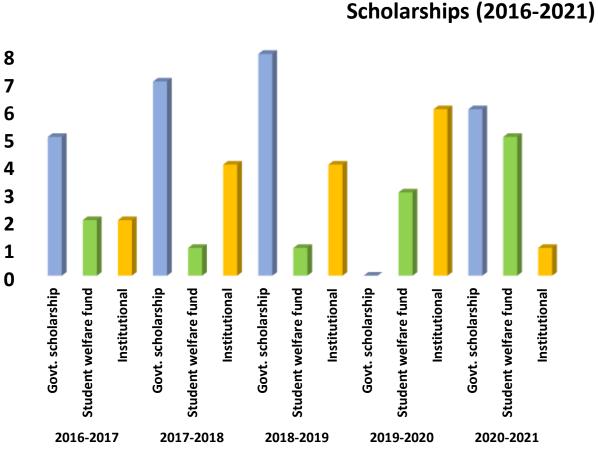


Government scholarship (NSP and INSPIRE)- 18 students

Student welfare fund - 12 students

Institutional (Gargi college) – 11 students



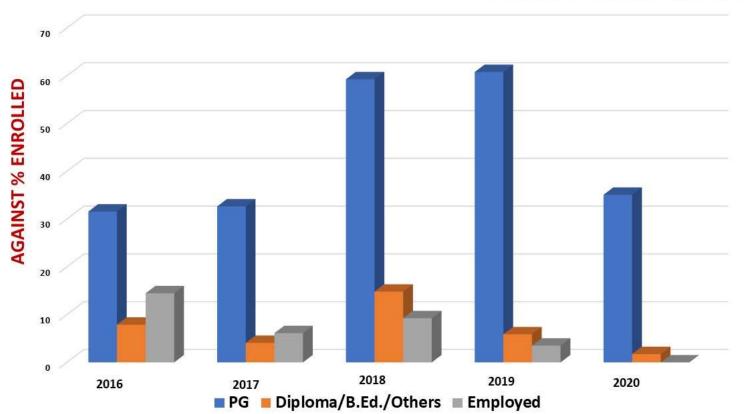




STUDENT PROGRESSION







List of PG Institutes

- Ambedkar University, Delhi
- Christ University
- IBAB, Bangalore
- University of Miskolc
- JNU
- Banaras Hindu University
- University of Delhi
- Indian Institute of Forest Management
- ICFAI Business School, Hyderabad
- Aligarh Muslim University
- Department of Botany DU
- Fergusson College, SPPU
- TERI School of Advanced Studies
- Department of Botany, Panjab University Chandigarh
- Amity Institute of Horticulture Sciences and Research
- The Energy And Resources Institute, School Of Advanced Studies
- California State University Northridge
- KU Leuven, Belgium
- University of Padua, Italy

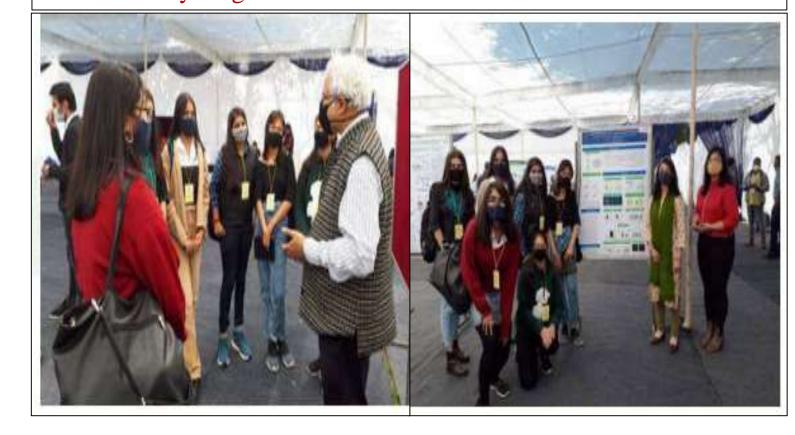


COLLABORATION BETWEEN GARGI COLLEGE AND NATIONAL INSTITUTE OF IMMUNOLOGY (NII) SCIENCE SETU PROGRAM- A DBT initiative



- Visits to advanced laboratories
- Internships at NII
- Interactions with Scientists
- Talks by scientists

On National Science Day (28th February 2022), NII invited students of the Department of Botany, Gargi College for an interactive session with young researchers and scientists

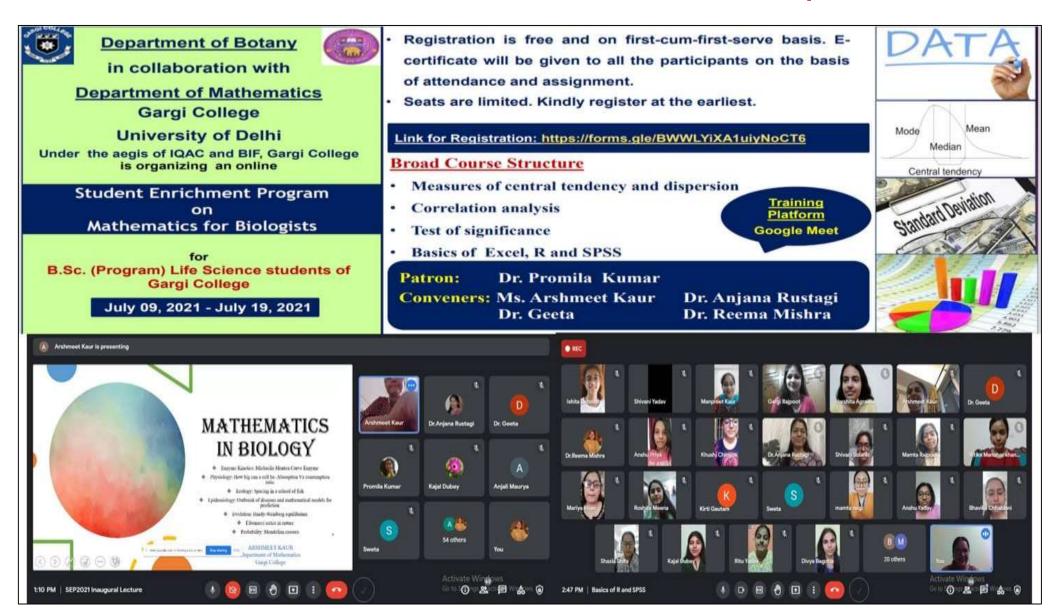




IN-HOUSE COLLABORATION



Online course to enrich students with new tools and techniques in sciences



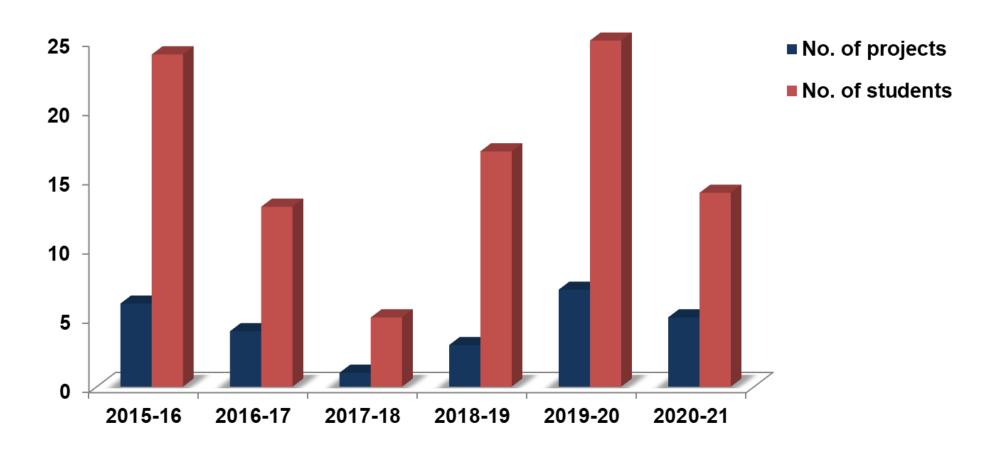
STUDENT RESEARCH & ENRICHMENT



STUDENTS' PROJECT



Year	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
PG Dissertations				1		3





UG/PG Projects 2016-2022



In silico analysis of YUCCA gene family of Oryza sativa

> HIMANSHI HARSHITA AGARWAL ISHITA DEBNATH BSc. (Prog.) Life Sciences, II year

SHORT TERM PROJECT UNDER BIF (2020-2021)



GARGI COLLEGE UNIVERSITY OF DELIII SIRI FORT ROAD, NEW DEL.HI-110049

Titles As when analysis of PEEC's great feasily of Otton Samu-Modern, Houseaki, Harrison Approach, Links Debugte. Mawters: Dr. Agresants Moderns and Dr. Bosson Miritor

In Silico Analysis of BRASSINOSTEROID INSENSITIVE I (OxBRII) Gene Family of Rice

SHORT TERM PROJECT UNDER BIF



(2019-2020)

GARGI COLLEGE UNIVERSITY OF BELIEF

SIRLFORT BOAD, NEW

DELHI 119849

Dr. Nevena bhides

Refere

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Studies's Name Wigner, Reliabs, Descriptional, Shows Services - Name Nega-Measure Dr. Gerry and Dr. Kerner Michel

Review on Horticultural Geographical Indications of India: **Botanical** aspect

A project report subsatted under

"Star College Scheme" Gargi College

University of Bellai

(Project Minesory) Submitted by

Dr. Branchout and Dr. German bright Ert Steine

Ging College, British Home, FF

Seem Base



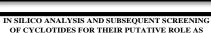












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Marphological, physiological and biochemical aspects of

Richest community and Firm recommy plants grown at three

difficenti sites

A project report estrative mades

"Stor College School"

Gwrgt College

University of Bulla

BIOPESTICIDES DISSERTATION PROJECT

Submitted to Amity institute of Biotechnology, Noida, Uttar Pradesh

MASTER OF SCIENCE IN HORTICULTURE (POST HARVEST TECHNOLOGY)

Submitted by

Ms. TAMMINENI RAJITHA



Under The Guidance of

DR. APARAJITA MOHANTY Assistant Professor

DR. REEMA MISHRA **Assistant Professo**



BIOINFORMATICS INFRASTRUCTURE FACILITY GARGI COLLEGE. UNIVERSITY OF DELHI

UNDERSTANDING THE ROLE OF PHOTOSYNTHETIC AND SUNSCREEN PRIMENTS IN ANABAENA SP. UNDER UV B



Pathfinder Project Report Submitted under UGC Scheme

GARGI COLLEGE, UNIVERSITY OF DELHI

(2017)

Andrie Tory Years:

Amplification and sequence analysis of a flower specific promoter (OsLPS4) from rice

> SHORT TERM PROJECT UNDER "PATHFINDER PROJECT" 2016-17



GARGE COLLEGE. UNIVERSITY OF DELIG SERE FORT ROAD, NEW DELIES LISBOY

Dr. Shoosis Sharaca Clinket Bloote

Dr. Santra Cloub Direc Kaltre

Assessment of the effects of esogenous application of 24-EBL on the biotic stress tolerance potential on Brassica. (amore ev. Varuna (Indian mustard)



DISSERTATION

Submitted by

RASHMI CHOCHRARY

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rase Probous Separates of Historian Age Coine University of Harvins

BIG ANDANA RUSTAGE

(Assertant Professor, Objects etc. of Berein), Engl College, Colorenty of Older.

he the partial fulfillment the the award of the degree of MASTER OF SCIENCE

MICROBIOLOGY

DEPARTMENT OF MICHOROLOGY SCHOOL OF PSYCHORICIPLINARY AND APPLIED SCHOOLS

CENTRAL ENDERHOUSE OF BUILDING MANUSPERGARD-BARYANA

Bioinformatics analysis of cyclic mini-proteins Cyclotides and knottins in Fabaceae

SUBMITTED BY:

Sunanda Gautam

M.Sc. Biotechnology

SUBMITTED TO:

DR. APARAJITA MOHANTY Assistant Professor

DR. REEMA MISHRA Assistant Professor



COLLEGE. UNIVERSITY OF DELHI

BIOINFORMATICS INFRASTRUCTURE FACILITY GARGI

Genome-wide identification of Asparaginyl Endopeptidases Vacuolar Processing Enzymes) genes in Oryza sativa, Sorghum bicolor and Zea mays

DISSERTATION PROJECT

Submitted to Amity institute of Biotechnology, Noida, Uttar Pradesh

> MASTER OF SCIENCE IN BIOTECHNOLOGY

> > Submitted by

Ms. Viola Raina



Under The Guidance of

DR. APARAJITA MOHANTY Assistant Professor

DR. REEMA MISHRA Assistant Professor



BIOINFORMATICS INFRASTRUCTURE FACILITY GARGI COLLEGE, UNIVERSITY OF DELHI



Student Publications (2021-22)



- Shambhawi, Srivastava, S., Mishra, A., Mishra, R., & Mohanty, A. (2022). Biopesticidal potential of cyclotides: an insight. *Phytochemistry Reviews*, 1-21. IF: 7.47
- Agarwal, P., Soni, R., Kaur, P., Madan, A., Mishra, R., Pandey, J., Singh, S. and Singh, G., 2022. Cyanobacteria as a Promising Alternative for Sustainable Environment: Synthesis of Biofuel and Biodegradable Plastics. Frontiers in Microbiology, p.2412.
 IF: 6.064
- Singh, G., Sahu, P., Sharma, A., Butool, B., Sarkar, R., Mishra, R., & Soni, R. (2022). Public Awareness About The Usage Of Medicinal Herbs Found In The Kitchen And Their Potential Against Covid-19 Disease. *Plant Archives*, 22(1), 288-296.
- Zabin, D., Shekher, A., Yadav, M., Soni, R., and Singh G., (2022). Synthesis and Characterization of Silver Nanoparticles using Leaf Extracts of Medicinal plants and its Impact on *Anabaena doliolum*. *Journal of Scientific Research*, BHU, 66(1), 208-223.
- Bharadwaj, B., Sahu, K., Kumari, N., Sharma, S., Tamanna, Geeta, Mishra, R., & Soni, R. (2021). Morphological, physiological and biochemical facets of *Ricinus communis* and *Ficus racemosa* plants grown at three different sites. HANS SHODH SUDHA, 1, 50–63.
- Sharma, K., Kumar, S., Chugh, S., Soni, R. (2021) Impact of Covid-19 Pandemic on Biotic and Abiotic Factors of the Environment.

 Akademos.



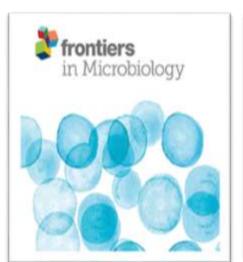
Student Publications (2021-22)







Impact Factor: 7.47





Biopesticidal potential of evelotides; an insight Hamilton's Henry Hernston's Audia Middle Boom Middle Appropriate Maleums Section III have been been if the 200 II The makes, with colors bear to be 10 page. Alternati Codinates an cardo, plant calculations carbonic, bee from discount for only 28 carbo was risk popular (200) with proportionally proporman have been become and the products across portional activity then auditable flow in potential transition. They are perfected low contents pro-Consisting he possessed of probability the proper some before ordered; extract color of the homes and horself. They cannot see to place a witness to approximate their self-arrest burkerate infrace update proximal polyspine. They under of 25 to 37 storm with absorbed no cyrelin trades. soften bructothe Annahra; and probatic of the an ingle consent are ten, then deather. Behave Confront's Confront's Confront's pro-Name and Address of the Park Street, S making a knowled way reportingly, of the cyclic comme ted six the importance of concerning these importance of had CCE; the control CCE and proofs to common fraction, despised and providing degleperhodes against a relate range of perio for Facianbidding has produced a spray of times making flow-volumeth with popular, or company to about a race per mad in the other. Their seals of wide to by Yealing, storacing part francisco Midrocopti Namenia will bee off assertance and treatments discapling Store, that strating in part research to Records A constrained of temporary and bank part effecting price copy, explanate for beginnolde previous of contents. To man over then 700 Reprists or word detailed in colors perhaps. They are district from King reposits and can be exchanged one. Nedspiral seriesales or plant column (Kamar et al. 2011; Seiter et al. 2014) No to be tree ferroisty demand for final, demand probable have been used at been agreedledd one Stration (Chance), Man. S. Man; A. Stran, US. Name of Stran, large (day, Strang of Sale See Sels Mile probable and extend by freely. However, constru probable and set finding width, and however in the rentinement for a beginner, and theritare a require Report on the name of the consequence of widow THE ACCIDENT TO NO. THE

2 fearfairs | towns of the last Cyanobacteria as a Promising Alternative for Sustainable Environment: Synthesis of Biofuel and Biodegradable Plastics Proof Regions!" Alone Serol", Pritter Regio", Regional Strates! Regions (Region), Service Region (Region) Service Region). the later to the l 20% for set in almost the trimony peak further and control frequent the same and the same of the s Carolischen, which are photosythicis prospection, are province, obstrates for other waywhell is self at helps and highest protected because it feel mines prock asymmets, higher eliterary of photosochesis and prock trials popular of constraint around of both 6 figurest necessary, and consumin start. New rection cost pose tendos: is tivo presion, it unions and the second second and the second analysis. Which has an experience and below absorption, by consenting posts with the acquisited in resource in controller incompany (seeding, Advances and in disclosing Studentics, communicative, race transported by trace a man-efficient process than crease driving important to residue contactor will accoming a raw and will Stoke for a subtractive to select Coultebrillian Subtraction and Character Steadorfe of protect furnishment having allowed recognitioned, but any manage in terrane gradedy, has having from a before share literal, we sat it equality for equitions If named claim in factor analysis and the consuler boarmonage cracks any of alternative or contests of to other transformational beats

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PATHFINDER AWARDS WINNERS



2016

Title- Screening of secondary metabolites in some selected plants and evaluation of their anti-oxidant potential

Students: Sonia, Sandhya Yadav, Anshu Chitkara

Mentor: Dr. Kiran Prabha

2017

Title-Understanding the Role of Photosynthetic & Sunscreen Pigments in Anabaena sp.

under UV B Stress.

Students: Ankita, Rozy Yadav, Shivani Sharma

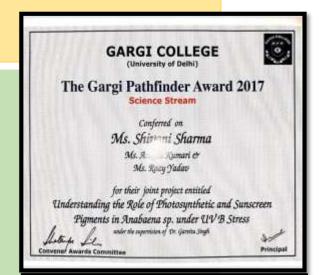
Mentor: Dr. Garvita Singh

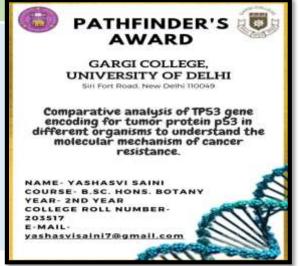
2022

Title-Comparative analysis of TP53 gene encoding for tumor protein p53 in different organisms to understand the molecular mechanism of cancer resistance

Student: Yashasvi Saini

Mentor: Dr. Geeta







WORKSHOPS/WEBINARS CONDUCTED



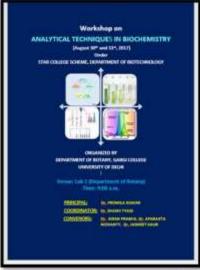
Workshops / Summer Schools	Scientific Area (Target group)	No. of Participants
August 30-31, 2017	Workshop on Analytical Techniques in Biochemistry	30
September 26, 2017	Workshop on Why to grow and how to multiply plants	50
January 9, 2019	Workshop on Adulteration in Food and Preparation of Herbal Cosmetics	80
May 11, 2020	National webinar on Virtual classes Tools: Google classroom, Google meet and you tube	150
July 19,2021	Webinar on Floral Gardening Skills	105
May 18, 2022	Webinar on Diversity, Perception and Awareness in Plants	78



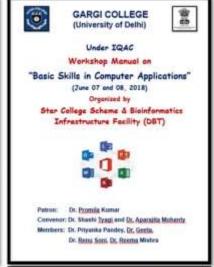
GLIMPSES OF WORKSHOPS/WEBINARS



CONDUCTED

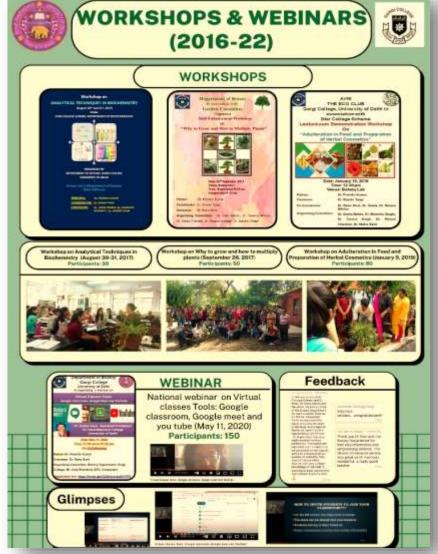














ADD ON/ CERTIFICATE PROGRAMS OFFERED



S. No.	Add -on/Certificate programs	Year	No. of Students	Duration
1.	Role of Biotechnology in Environment Management	2015-16	52	One Academic Session
2.	E-Student Enrichment Program "Multidisciplinary Facets of Science"	2019-20	76	21 days
3.	Plant Systematics: Classical to Molecular Approach	2020-21	459	6 days
4.	Eco-friendly Agriculture	2021-22	27	1 semester
5.	E-Student Enrichment Program "Mathematics for Biologists"	2021-22	72	11 days



GLIMPSES OF COURSES









GLIMPSES OF COURSES



Add-on Course on e of Biotechnology in Environment Management Under DBT- Star College Scheme (2016-17)

The Department of Botany is always intended to widen the roots of knowledge among the students. With the objective of providing extra knowledge to the students, the department introduced an Add-on course on Role of Biotechnology in Environment Management under DBT- star college scheme (2016-17). Students from all the science departments of the college were enrolled in this course. The course included lectures by various eminent speakers and field trips for better learning, thus, fulfilling

Glimpse of Lectures Conducted During Add-on Course

the motive of developing potential for



Special Highlights

- Major causes and associated remedies for the air pollution and recent monitoring systems along with biofilters, bio-scrubbers etc. together with knowledge about the Sustainable Development Goal (SDG), climate adaptation, mitigation, biodiesel, bio-refinery, bioplastic, biofuel etc.
- Recovery of degraded ecosystem by the help of biotechnological means as phytoremediation ecological restoration technologies. millennium ecosystem program, ecosystem contamination, habitat loss and ecosystem services such as regulating services, cultural services and various supporting services.
- Proper waste management and various aspects of role of biotechnology in environmental management.

Field Trip was Organized for the Students of the Add-on Course to Yamuna Biodiversity Park and CRDT, IIT Delhi





E-Student Enrichment Program Multidisciplinary Facets of Science' (2019-20)







Details of the Speakers and Sessions

Speaker	Designation	Titte	Date
Dr. Washi Tyagi	Firetar Principal and Associate Professor, Garge College, University of Della	Student Executances Programs and Currentlant Vitae	74y 08, 3838
Dr. Auforata Panda	Scientist Department of Plact Melinsky Biology South Category, University of Della	Cerolar ESA Biogeomes and Functions	Ady 16, 210
Dr. Mikishidolom Albindok	RUSSI Learning Schools Load, Aberdon. Science Coates, UK	Engaging and Impring Vising People in Science	My 21, 363
Dr. Karen Problem	France Associate Professor, Garge College, Carrentey of Dolbo	Learning Alvis the Covered Parallesia: An Overview of SARS-CoV-28:	Mr.17.100
Dr. Gen Marine	Torsor Associate Professor, Gazp. College, University of Della	Developing Scientific Temper with. Lansens from Narare	34y 29, 293
Dr Gerts	Assessant Professor, Gurp College, Uncounter of Dolla	Statisphe tegics	Statistic dates
Dr. Aypera Radings	Asserter Professor, Garp College, Unaversity of Dolla	Statistic repres	Modeyle date.
Dr Rema Moles	Assistant Professor, Guego College, Ulastrandy of Diolla	Midigle topes	Makyle dates

as program is so intensing and helpful for me. In the marting of the program we are aware about the camer opportunities of our main in fature. I am very thankful to all teachers for organizing this event and one of the most important thing which make this told program more intensiting is goest because, which are so much referent, emaking, future and useful for as I am very glad to



Feedback

- ming up with much a program and

E-Student Enrichment Program 'Mathematics for Biologists' (2020-21)





Total Number of Participants: 72

Glimpse of the Sessions Conducted During 19 Days of the SEP 2020-21

Him	Speaker	Topic
	Mr. Archinest Says	benduncy letter or
Aut 45, 2010		'Mahematics for Biologists'
	Dr. Goess	Date representation and tabularies
John 10, 2021	Dr. Guen	Mission of Certai Testing
	Dr. Rooms Minhre	Russ of Excel
	Dr. Arjana Formar	Range, Most devotes, Standard
		deviation, Variance and
		Coefficient of variation
	Dr. Arjana Romage	Range, Mose deviation, Standard
		deviation, Vertical and
		Coefficient of variation (1996.)
	Mr. Architect Karr	Test of eignificance
	Ms. Andreast Keep	See of significance (cont.)
	Dr. Goesa	Correlation analysis
	Dr. Ross Sont	Role of Plante to Nature's Pariflet
		for Improving Indoor Air Quality
	Mic Margroot Kare	Harry of R and SPSS



Basic measures of tendency and how are they different were clearly explained. These tools will help me in my further research projects or future studies. Looking forward to more such programs.

The content is very useful for future aspects. The practice of questions really helped. Such sessions should be conducted regularly.

We got to know about different graphs, different statistical tools like mean median mode and we studied about correlation it was very helpful and resourceful.

The knowledge of mathematics with it's application in various fields of biology can help us in various experiments in future in our meearch fields



Feedback



Neha, B.Sc (hons) Botany, 2nd year, Acharya Narendra Dev College, DU

This short term course is complete use of these days when students don't know what to study. The initiative taken by Gargi College is worth. I can connect the lecture of each day to the next given by professors. The professors are dedicated to solve the query of students. The other important part of these sessions is its time management, the

Jasmine Kaur, BSc.(h) botany , 4sem, Sri guru tegh bahardur khalsa college (SGTB), DU

session starts on time each and every day and ends on a sweet note.

I'm very glad that I got a great opportunity to attend this short term course of plant systematics. Presenter was very knowledgeable and offered valuable information and ties.

I really enjoyed the program. These concepts and the material presented will most definitely be incorporated into my resources. I learned several key process of information that will greatly improve my ability to publish." I really appreciated to the teachers and all the members of Gargi college who took this great effort towards us.

Nandini Killa, BSc (H) Botany, Hans Raj College

While sitting back at our home, our seat was taken to the profundities of Systematics, leaving no page unturned, by touching the sphere of Classification, Taxonomy and even the more complex topics like DNA barcoding. I extend my heartfelt gratitude towards the organizers and speakers who didn't let the present dismal circumstances perpetuate a bottle-neck in our learning process.

Akanksha Jha, BSc general 1st semester, IGNOU

Each and every day during this course when I woke up by reading your study material of the upcoming session and waiting for the prof. to come live and explain that all to me.

I am full of enthusiasm and feel delighted to be the part of your amazing session as being a open university student I usually, have less chance to attend this kind of seminar so I really feel blessed today to write all my experience.

The most vital thing of that webinar is every prof was so kind gentle towards the students they even reply our doubt through their mail id, they explained each and every topic like a story it was so clear to me know.

Pallavi Dutta, BSc hons Biochemistry, Shivaji college, DU

I am pursuing undergraduate degree in biochemistry from Shivaji college, DLL.

I had keen interest in plant systematics as I belong to dooars region that is rich in plant biodiversity and I always wanted to know and study about these species.

I am very grateful to Department of Botany of Gargi College that they organized this course and this has benefited me a lot.

I specially liked the lecture of Prof. R Geeta as she cleared all my doubts regarding molecular phylogenetics.

Will help me in future

If was great season.

Neha Chaudhary, B.Sc Botany (H) R.G.P.G. College, Meerut

Plants are the real scientist of the world

Aditya Sharma, B.Sc Botany (H) Guru Ghasidas University, Chhattisgarh

Overall course of 6 days was very informative and innovative it helped me a lot during this lockdown to enhance my knowledge regarding my course.

Sruthi S Nair, B.Sc Botany (H) All Saints' College, Kerala

Firstly I thank all the teachers who taught us.. And it was really an innovative programme for the students like us as am from Kerala we could get more knowledge

Pracheta Palit, B.Sc Botany (H) Bethune College, University of Calcutta

The course was highly informative and I enjoyed all the classes. During this lockdown period it is a great initiative taken up by Gargi College to organise such free courses so that students from all over the country could join the session and learn from the eminent speakers. Thank you for giving me the opportunity. The knowledge I have gathered is surely going to help me in my higher studies and also this course has easily taught taxonomy and systematics in such a lucid way because students consider this subject to be vast and boring. Once again thank you so much.

Jaspreet Kaur, B.Sc Botany (H) Panjab University

The course has been an excellent initiative by team Gargi to bring fruitful lectures in Plant Systematics from the authorities working in this area. The idea of live

Kasturi Chakraborty, B.Sc Botany (H)

Burdwan University, West Bengal

Every session was enriched with information. The whole course structure so well arranged, I found it very helpful. It was great opportunity for me to learn from eminent personalities. So I just want to thank Gargi college for thinking of this innovative webinar. I will love to join again for any other enriched session like this. So I will request you to arrange more like this in future. Thank you again I'm blessed to hear you all.



The Add-on course on Eco-friendly Agriculture was very relevant and practical. The lectures were given on a wide variety of topics making sure to cover all the important aspects of eco-friendly agriculture. The offline trip to Krishi Mela and the hands-on session was both interesting and helped in inter-relating the literature with the practical. The structure of the course and its delivery was logically and smooth. It was a helpful and intriguing course and would highly recommend students to take it up for a whole new practical experience.

- Yashasvi Saini , B Sc (H) Botany



This course is designed around a very significantly relevant topic to each one of us and the course covered all the aspects of the title. I was interested in this course for various reasons and I can say that this course has met all my expectations. The sessions organized were directly from the eminent personalities of this field and it was a great experience to learn directly from them. Several workshops and field trips were organized which helped us understand things much better and gave us a kind of first-hand experience of things. I would highly recommend this course to students who are interested in agriculture, in the environment, in their surroundings, or in a healthy and sustainable lifestyle. It will help you make conscious choices about your lifestyle and your surroundings.

- Rinky Bhaskar, B A (H) Philosophy



The lectures were very helpful and the speakers were really interactive. The Field Trip was my favourite of them all and I actually have all the pamphlets still with me as my father is Farmer and it will be helpful for myself as well as my father.

- Tanya Jain, B Sc (H) Zoology

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Storful for scenamic career.

The lectures was very helpfull

All the speakers cleared the doubts

The webinar was very informative and attractive and helpful.

It was an really amazing and informative session

It was overall good

Informative session
It was superb.

It was really beigful

The webinar was very informative

It was a wonderful and very informative session...

It was really informative session.

It was very helpful

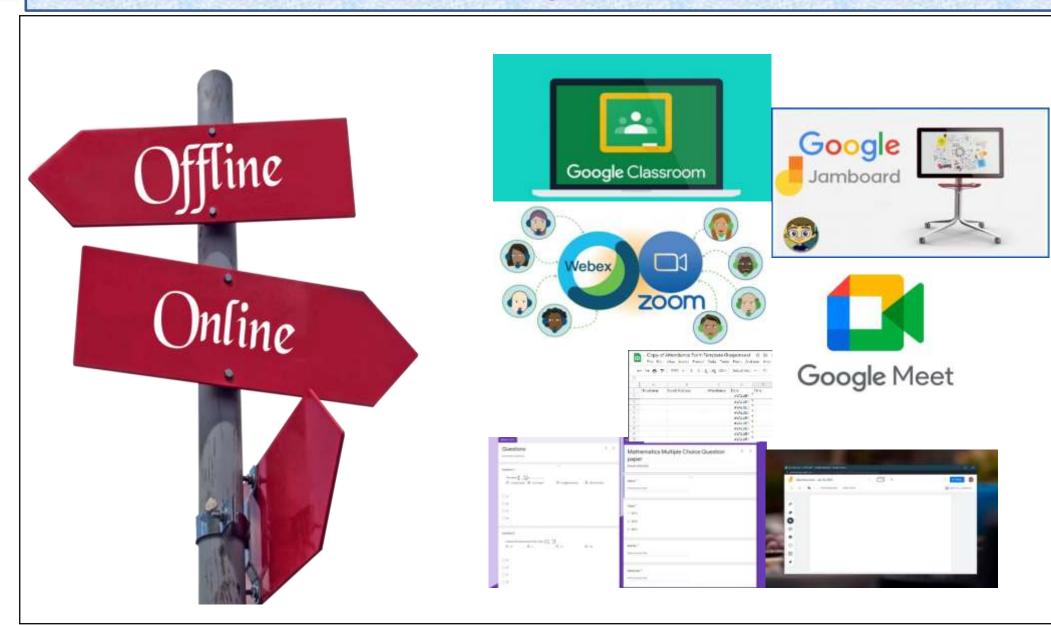


STUDENT ENRICHMENT THROUGH GARGI COLLEGE BOTANICAL SOCIETY (GCBS)



BOTANICAL EVENTS: TOWARDS HOLISTIC DEVELOPMENT







DEPARTMENTAL ACTIVITIES



- Inaugural and valedictory lecture
- Lecture series, Workshops, Short-term course, Student Enrichment Programme
- Competitions (inter and intra-departmental)
- Paper presentation
- Quiz
- Photography
- Best out of waste
- Salad making
- Pot painting/ Face painting
- Paper Quilling art
- Photography
- Botanical fashion show, etc.
- Field trips/ Industrial visits
- Flower show and sapling distribution in collaboration with Garden Committee
- Scintillation –Science Fest



BOTANICAL EVENTS: TOWARDS HOLISTIC DEVELOPMENT















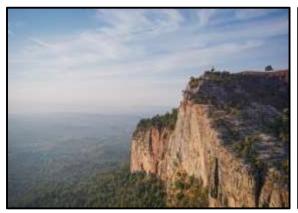
Lectures, Workshops, Educational Trips

Field trip to CRDT, IIT-DELHI



BOTANICAL EVENTS: TOWARDS HOLISTIC DEVELOPMENT











Mountain Day photography Competition









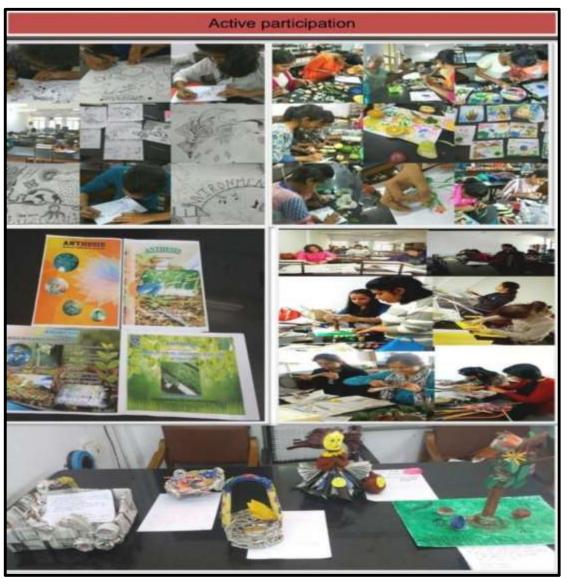
Sapling distribution



Teacher's Day Celebration, Anthesis Cover Page Designing, Newspaper Crafting, Alumni Meet, Scientific Fashion Walk and Salad Making Competition









Field Trips and Visits



S. No	Field Trips/Visits/Title of linkage	Name of the partnering institution/ industry/	Year
		research lab	
1.	Botanical excursion to Manali	_	2 October 2017 to 6 October, 2017
2.	Institute visit	Yakult Factory, Sonepat	March 6, 2018
3.	Outreach program		February 26, 2019 to March 02, 2019
4.	Excursion to Shimla	*	September 28, 2019 to October 02, 2019
5.	Institute visit	Yakult Factory, Sonepat	April 15, 2019
	Centre for Science (CSE) in coordinating a user perception survey of city bus passengers in Delhi (2019)	Centre for Science	24th July, 2019 to 31st July, 2019
	Summer Faculty Research Fellow Programme (2019)	School of Chemistry, IIT Delhi	May 13, 2019 to July 14, 2019



BOTANICAL EXCURSION









Botanical Excursion, Manali (2017)

Botanical excursion, Central Potato Research institute, Shimla (2019)

Outreach Program, TBGRI, Trivandrum (2019)



INDUSTRIAL TOUR – YAKULT DANONE (2018, 2019)







VIRTUAL EVENTS 2020-21

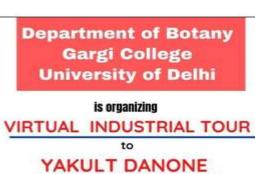




Green Canvas Competition (2020-21)



Character Drawing Competition (2020-21)



SONEPAT HARYANA, INDIA

DATE: APRIL 19, 2022 TIME: 12 PM

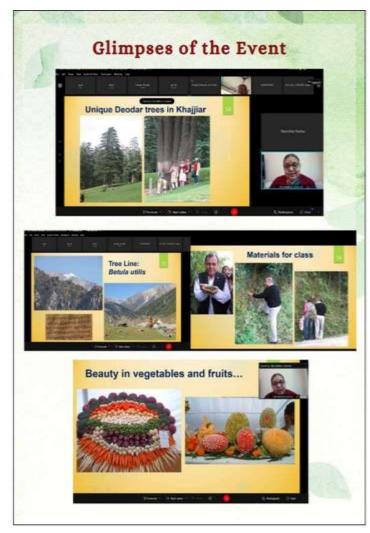
Patron

Prof. Promila Kumar **Organizing Committee**

Dr. Renu Soni (TIC) Dr. Reema Mishra Dr. Geeta Ms. Ruchitra Gupta



Virtual visit to Yakult (2021-22)

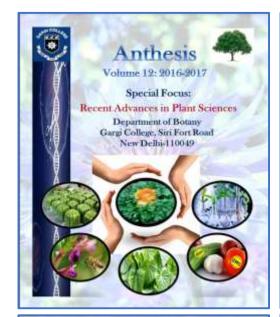


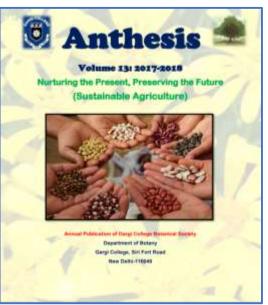
Virtual Botanical Excursion (2021-2022)

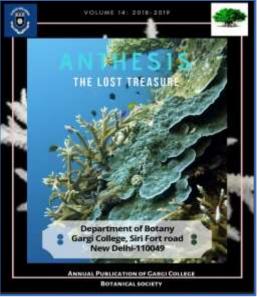


ANTHESIS VOLUMES







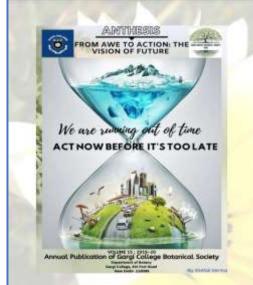


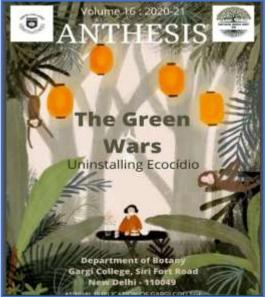
https://gargicollege.in/wpcontent/uploads/2018/06/ANTHESIS-MAGAZINE-2020-2021-FINAL-Compressed-version.pdf

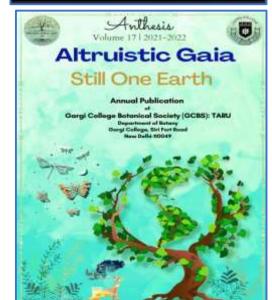
content/uploads/2022/04/Anthesis-

https://gargicollege.in/wp-

Issue-17.pdf









ENVIRONMENT SENSITIZATION



Collaboration with CSE's

July 24-31, 2019 CSE's initiative on Air pollution and public transport reforms in Delhi





BIOWASTE MANAGEMENT

Ecobiotechnological approaches for biowaste utilization

Add-on course on Role of Biotechnology in Environment Management





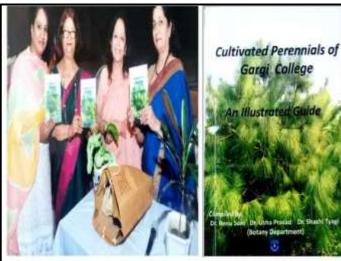
PLANTATION DRIVE

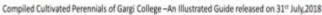


Naming of Plants and trees growing in the campus with the important features and uses Retirement of faculty member and non-teaching staff of the department (session 2020-2021 and 2021-2022)











ENVIRONMENT SENSITIZATION



First Flower Show "Gargi Blooms 2020: 4th March, 2020"



2nd flower show "Gargi Blooms 11th March 2022"





Swach Bharat Abhiyaan on September 15, 2016





ENVIRONMENT SENSITIZATION



Sacred Garden-Navgraha Vatika



Saplings distribution to the participants of the workshop- "Laboratory Methods and Techniques" held on 10th December, 2019

Saplings distribution









Saplings distributed to the participants of the workshop- "Why to Grow and How to multiply Plants" held on 26th September,2017



DISTINGUISHED ALUMINI





Dr. Suman Govil
Superannuated as
Adviser, Department of
Biotechnology,
Government of India



Dr. Ratna Sircar
Associate Professor,
Department of Psychiatry,
ZUCKE R HILLSIDE
HOSPITAL, New York



Dr. Pinky Agarwal
Staff Scientist V,
National Institute of Plant
Genome Research,
New Delhi



Dr. Saloni Mathur
Staff Scientist IV,
National Institute of Plant
Genome Research,
New Delhi



Dr. Sohini Deb
Postdoc
University of Copenhagen
Department of Plant and
Environmental Sciences
Denmark.



Dr. Priya Punjabi Associate Professor, Department of Botany University of Delhi



Ms. Bidisha Bhatacharya
Project Lead and Technical
Specialist, OHSU Institute of
Environmental Health
Portland Oregon



Ms. Astha Batra,
Future Business Council,
Australian Conservation
Foundation



Dr. Ragini Rai Post-doctoral Fellow, Nanyang Technological University, Singapore



Dr. Atika Chandra
Associate Professor
Maitreyi College
Delhi University



Ms. Swati Chugh Producer | Director | Writer | Editor



Ms. Preetam
Sub Inspector
Delhi Police



GLIMPSES OF ALUMNI ACTIVITIES



Role of Alumni

- Role models for current students
- Mentoring
- Provide practical support to students
- Career counselling
- Training





GLIMPSES OF ALUMNI MEET/ INTERACTION SESSIONS/LECTURE



SERIES















+ the worked on samplic cell culture and precognist culture of monocots

GLIMPSES OF ALUMNI INTERACTION 2021





INTERACTION WITH SUPERANNUATED TEACHERS



INTERACTION WITH OUR ALUMNI FROM BATCH 2020























EXTENSION SERVICES & INTERNSHIPS



STUDENT EXTENSION SERVICES

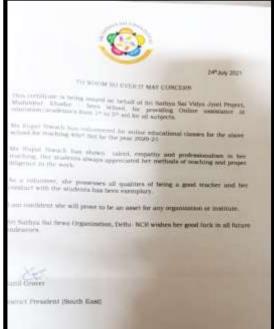


NGOs/Volunteer work	Students involved
Wishes and Blessings (Squad for Change)	Shubhi Srivastava Tamanna Sharma
Vishalakshi Foundation	Deepanshi Singh
Connecting Dreams Foundation	Kalpana Jha
Umeed	Kalpana Jha, Muskan Goswami
Girl Up	Pallavi Sahoo
GSS (Science)	Tamanna Sharma, Kalpana Jha, Ananya Chamola, Devyani Dwivedi, Shubhi Srivastava, Shephali Gupta, Muskaan Goswami, Rupal Siwach
NCC	Niva Parmar, Rupal Siwach
NSS (Project Alfaaz)	Shephali
Vidya Jyoti Project	Rupal Siwach











STUDENT EXTENSION SERVICES



Our students are members of various societies in the college



NCC
ENACTUS
IRIS
SPORTS
NSS

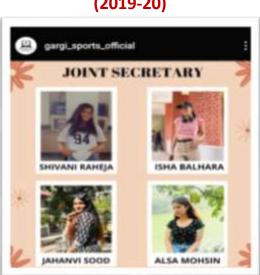








PROCTOR SCIENCE (2019-20)



Alsa Mohsin

Joint secretary of students
sports council 2022-2023







INTERNSHIPS



S.No.	Student	Internships undertaken (2020- 2021)
1.	Ananya Chamola	Desh Ke Mentor/ Mentoring volunteer (Govt. of NCT of Delhi), October 2021 - January 2022
		Team Everest NGO/ Graphic Designing intern, 20th November 2021 - 4th December 2021
		Team Everest NGO/ Just Volunteer program, 2nd October 2021- 8th October 2021
		Team Everest NGO/ Curriculum writing intern, 25th September 2021 - 9th October 2021
		Team Everest NGO/ Upcycling intern, 20th August 2021 - 26th August 2021
		Team Everest NGO/Art intern, 26th July 2021 - 9th August 2021
		Team Everest NGO/ Curriculum writing intern, 23rd June 2021 - 7th July 2021
2.	Devyani Diwedi	Growth Internship as a Programme Manager with goDutch , 27 th November 2020-27 th January 2021
3.	Shubhi Srivastava	Content writing with The Visionific Organization, 9 th January 2021- 9 th February 2021
4.	Surbhi Chaturvedi	Bootcamp on "Python and Machine Learning" by ShapeAI, 7 days
5.	Yashasvi Saini	Content and Editorial Department under The Erudite, 15th June 2021- 15th August 2021







INTERNSHIPS



S.No.	Student	Internships undertaken (2020- 2021)
6.	Muskaan Veer	Business development associate intern, 12 th April 2021- 12 th June 2021 Senior business development associate, 21 st July 2021- 21 st Nov. 2021
7.	Midhat Imteyaz	Sales and Marketing Intern-Hareen Team Work, 1 st April 2020- 15 th July 2020 Campus Ambassador-UPSIDE ME, 13 th July 2020- 25 th August 2020 Programme Associate-Children's Education Trust, 1 st August 2020- 30 September 2020

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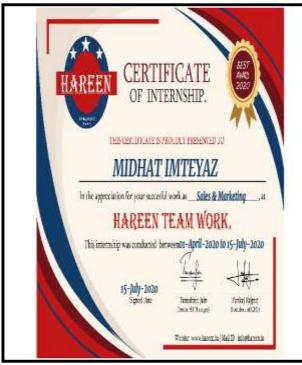










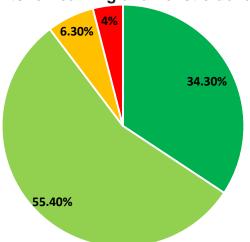




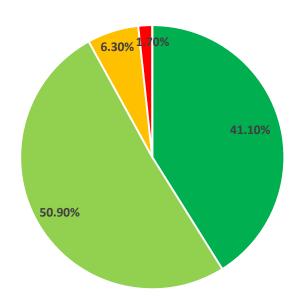
STUDENT FEEDBACK B.Sc. BOTANY (Hons.)



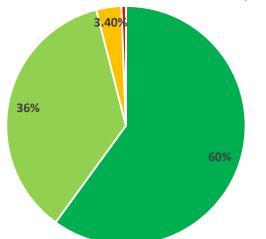
Q. Teachers of Botany department are very encouraging and help in providing a conducive environment to students for learning and holistic development.



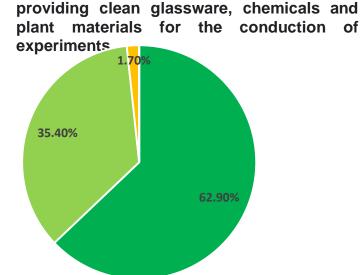
Q. Teachers of Botany department respond effectively to students' doubts and suggestions.



Q. Teachers of Botany department conducted online classes effectively during COVID-19 pandemic using a number of tools such as videos, PDFs, PPTs etc.

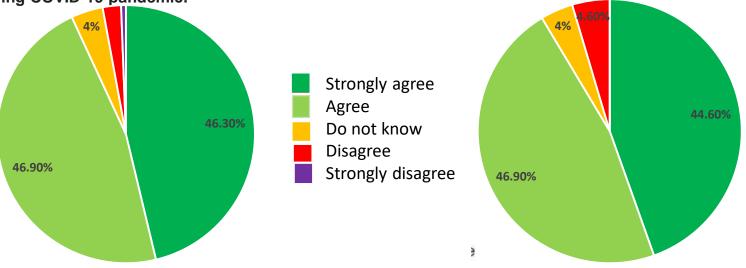


Q. Course resources or materials were posted online by teachers on Google Classroom and tests/ quizzes were also conducted online during COVID-19 pandemic.



Q. Lab staff is very efficient and assists in

Q. Botany laboratories and museum are well maintained to conduct practical and study specimens.





USP OF DEPARTMENT



- Promote UG research evidenced by
 - Student publications in high IF journals
 - Awards for poster/paper presentations in conferences
- Follow Eco friendly practices
- Encourage minimal use of paper
- Digitalizing information (e.g. QR labels for museum specimen)
- Sharing of e-material
- Plantations drives, Sapling distribution, Flower shows
- Workshops on environment friendly practices
- Alumni as mentors



SWOC analysis



STRENGTH

- Self-motivated, highly qualified faculty having expertise in diverse fields and experienced and dedicated non teaching staff.
- Beyond curriculum research by students evidenced by publications and awards.
- BIF-DBT(2009-20) maintained by the Department of Botany caters to the teachers and students for *in silico* research.
- Maintenance of flora of the college, plantation drives, flowers shows organized.

WEAKNESS

- More thrust for Financial/academic collaboration with the industries is required.
- Internships with stipends are difficult.
- Number of students, mentored to pursue research projects cannot be increased due to a heavy academic schedule and limited funding.



SWOC analysis



OPPORTUNITIES

- DBT funding enables us to conduct workshops, seminars for the faculty, non-teaching staff and the students.
- Covid was a blessing in disguise as new opportunities for online teaching and virtual lab sessions were conducted
- Bioinformatics Facility funded by DBT has motivated students and teachers to carry out bioinformatics research.
- Students get the opportunity to do projects, present their research work in conferences.
- Students are able to publish papers which helps them to get admission in PG courses in universities abroad.

CHALLENGES

- To encourage more innovative and motivated research.
- To teach a highly heterogeneous class of students.
- To₄allow some wet experiments to_be-performed individually by student.



FUTURE PLANS



- 1. Thrust to involve more students in research.
- 2. Infrastructure in terms of instruments will be strengthened.
- 3. More Workshops and Seminars will be conducted.
- 4. More educational field trips will be organised to explore the plant diversity in nature.
- 5. Outreach programs will be planned for a good number of students through collaboration with research institutes and schools in Delhi and outside.

Thank you