



Miranda House

UNIVERSITY OF DELHI

Departmental Annual Report – 3

Departmental Activities: Curriculum and Beyond

Department: Botany

Academic Year: 2021-22

Part A.1

Students undertaking project work/field work/internship as part of experiential learning component of coursework

S. No. 1	Course Name: B.Sc. (H) Botany Paper Name: Industrial & Environmental Microbiology UPC: 32167601 Semester: VI	
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Place of visit: Chandrawal Water Treatment Plant (Chandrawal Water Works No. II), Delhi Jal Board

Date: 30 March, 2022

Programme: B.Sc. (H) Botany III Year

Course: Industrial & Environmental Microbiology

No. of students: 40

Accompanying teachers: Dr. Neetu Chaudhary & Dr. Laishram Sundari Devi

1. Field visit as per syllabus

2. Gave the students an overview of various methods and stages of water treatment before its release as municipal water supply



2. Course Name: B.Sc. (H) Botany

**Paper Name: Biofertilizer
UPC: 32163403
Semester: IV**

Place of visit: BGA division, IARI, Pusa, New Delhi





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Date: 15 March, 2022

Programme: B.Sc. (H) Botany
II Year

Course: B. Sc. (H) Botany
No. of students: 41

Accompanying teachers:

Dr. Madhu Bajaj

Dr. Saloni Bahri

Dr. Deepali

Dr. Priyanka Rathore

OBSERVATIONS:

1. Field visit as per syllabus
2. Gave the students an overview of various methods composting and culturing of BGA, Azolla for the benefit of agriculture.



MIRANDA HOUSE
Duk Section
10 MAR 2022
Diary No. 802
Forward

10.03.2022

The Principal
Miranda House
University of Delhi
Delhi-110007

Subject- Permission to visit to Indian Agricultural Research Institute, New Delhi

Respected Madam

We want to visit to Indian Agricultural Research Institute, Pusa, New Delhi to learn about the Biocomposting process under the aegis of DRT ^{35f} Star College Scheme. Field visit and report submission is a requirement of the syllabus of B. Sc. (H) Botany II year students for the SEC paper "Biofertilizers". So, we request you to kindly grant us permission to visit IARI, New Delhi on 15 March, 2022. Around 50 students will be accompanied by 5 teachers and two laboratory staff members.

Thanking you
Yours respectfully

Deepali
Dr. Deepali

S-O
Permission granted
B. Sc.
10/3/22

3.

Course Name: B.Sc. (H)
Botany
Paper Name: Ecology
UPC: 32161402



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Semester: IV

**Place of visit: Yamuna
Biodiversity Park, Delhi**

Date: 1 April, 2022

**Programme: B.Sc. (H) Botany
II Year**

**Course: B. Sc. (H) Botany
No. of students: 41**

Accompanying teachers:

Dr. Somdutta Sinha Roy

Dr. L. Sundari

Dr. Priyanka Rathore

OBSERVATIONS:

1. Students learned about various floristic components of the Yamuna river valley.
2. They understood the plant-animal interactions and delicate balance that works in nature.





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	<p> Yamuna BiodiversityPark <ybpnatureeducation@gmail.com> to me ▾</p> <p>Mar 28, 2022, 2:35 PM ☆ ↶</p> <p>Respected Madam, Received your mail regarding visit to Yamuna Biodiversity Park. I hereby confirm your visit on 1st April 2022 at 10:30am. Following are some instructions - kindly follow covid protocols. - wearing shoes is mandatory. - eating food is not allowed inside the park. - bring water bottles. For any query you can call or write to us.</p> <p>Thanks and Regards</p> <p>Ranjeeta (9990706407) Nature education officer Yamuna biodiversity park ***</p> <p>↶ Reply ↷ Forward</p>
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S.No	Name of the Student	Project Title	Supervised by
Course Name: B.Sc. (H) Botany Paper Name: Biofertilizer (SEC-1) UPC: 32163403 Semester: IV	Aastha, Manisha Devi, Sandhya Kumari, Sheen Bhat, Suruchi Yadav, Vaishnavi	To study the count bacterial cells count in the root nodules of Melilotus collected from two different sites.	Dr Deepali Dr Priyanka Rathore
	Yoshita Bhardwaj, Priyanka Kumari, Prachi Singh, Mrinalini Gupta, Sakshi Goel, Ishika	Comparative study of different compost from Delhi NCR using parameters of pH, NO ₃ and Organic matter content.	



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Sapna Maurya, Shailza Bhati, Prateeksha Awasati, Neerati Krupa	Advent of bio controlling agents as savior against various plant disease and environment: A review
Poonam, Anuradha, Priti Kulhari, Amgoth Mahalakshmi, Puttala Thriveni, Bhukhya Nandini	Vermicomposting of organic waste and its effect in agriculture : A review
Sneha Mahato	Online Review: Biofertilizer as an alternative for Chemical Fertilizer
Aichea VA Sangma, Aseng Tayeng, Bidyaluxmi Khuraijam, Lobsang Tsekey, Ornella Khwairkpam, Sonam Yangchen	A Comprehensive Overview of Bio composting Techniques and Processes.



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	Irya, Palak, Bhavna, Priya, Neetu	Survey on Organic Farming	
2. Course Name: B.Sc. (H) Botany Paper Name: Biostatistics (DSE-2) UPC: 32167502 Semester: V	All 43 students of V semester did the projects individually after collecting the data using google forms	All students had their individual project.	Dr. Somdutta Sinha Roy Dr. Rajeshwari/Dr. Veena Beri



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Part A.2

Students undertaking project work/field work/internship (beyond the requirements of coursework)

Projects undertaken during DSKC Summer Internship (9 June-14 July 2022):

S.No.	Name of the Student	Project Title	Supervised by
1	(i) Mrinalini Gupta, B.Sc. (H) Botany II Year, Miranda House (ii) Nancy, B.Sc. (H) Botany II Year, Miranda House (iii) Poonam, B.Sc. (H) Botany II Year, Miranda House	A Study on Starch	Dr. Janaki Subramanyan



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2	<p>(i) Archana Singh, B.Sc.(H) Botany I Year, Miranda House</p> <p>(ii) Vanshika, B.Sc.(H) Botany I Year, Miranda House</p> <p>(iii) Lenthobi Thokchom, B.Sc.(H) Botany I Year, Miranda House</p> <p>(iv) Tarana Sahreen, B.Sc.(H) Botany I Year, Miranda House</p> <p>(v) Madhu Kumari, B.Sc.(H) Botany I Year, Miranda House</p> <p>(vi) Geetansh, B.Sc.(H) Botany I Year, Hindu College</p>	<p>Effect of Vesicular Arbuscular Mycorrhiza on <i>Vigna radiata</i> under heavy metal stress</p>	<p>Dr. Madhu Bajaj,</p> <p>Dr. Saloni Bahri,</p> <p>Dr. Somdutta Sinha Roy</p>
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3	<p>(i) Garima Rao, B.Sc.(H) Botany, II Year, Miranda House</p> <p>(ii) Angel Malhotra, B.Sc.(H) Botany, II Year, Miranda House</p> <p>(iii) Kumari khushi, B.Sc.(H) Botany, II Year, Miranda House</p> <p>(iv) Neelakashi Goyal, B.Sc.(H) Botany, II Year, Hindu College</p> <p>(v) Yash Makkar, B.Sc.(H) Botany, II Year, Hindu College</p>	Effect of N,P,K on growth of <i>Allium cepa</i> roots	Dr. Madhu Bajaj, Dr. Saloni Bahri, Dr. Somdutta Sinha Roy
4	(i) Aditi Asthana, B.Sc. (H) Botany, I Year, Miranda House	Fungi on Mars – A review	Dr. Madhu Bajaj, Dr. Saloni Bahri,



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			Dr. Somdutta Sinha Roy
5	(i) Shambhavi Krishna, B.Sc. Life Science, I Year, Miranda House (ii) Samriddhi Chaturvedi, B.Sc. Life Science, I Year, Miranda House	Study of the genetic makeup of <i>Trifolium pratense</i> and its medicinal effects – A review	Dr. Madhu Bajaj, Dr. Saloni Bahri, Dr. Somdutta Sinha Roy
6	(i) Nishtha Khushu, B.Sc. Life Science, I Year, Miranda House (ii) Sadhna, B.Sc. Life Science, I Year, Miranda House	Incorporation of plastids in animal cells: how will it help us? – A review	Dr. Madhu Bajaj, Dr. Saloni Bahri, Dr. Somdutta Sinha Roy
7	(i) Ishita Pahwa, B.Tech (Biotech), II Year, Amity University (ii) Agrima Singh, B.Tech (Biotech), II Year, Amity University.	Role of phytochemicals and vitamins in fertility	Dr. Renuka Agrawal



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COURSE BASED PROJECT (Experiential Learning)

Program name	Program code	Name of the Course that include experiential learning through project work/field work/internship	Course code	Year of offering	Name of the student studied course on experiential learning through project work/field work/internship
B.Sc. (Honours) Botany II Year, Semester III	556	Intellectual Property Rights (SEC) Duration: One Semester 42 Projects (Done individually and completed the project Successfully) This project is part of the IPR practical paper and it is part of question paper.	UPC-32163302	2021	42 Students
B.Sc. (Honours) Botany II Year, Semester IV	556	Biofertilizers (SEC) Duration: One Semester Project: Online Review on 1. To count bacterial cell number in the Root Nodules of <i>Melilotus</i> Plant collected from two different sites and comparing the results. 2. Comparative study of different compost from Delhi NCR using parameters of pH, NO ₃ and Organic matter content	UPC-32163403	2022	42 Students



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		<ol style="list-style-type: none"> 3. Vermicomposting of organic wastes and its effects 4. Online Review: Biofertilizer as an alternative for Chemical Fertilizers. 5. A Comprehensive Overview of Biocomposting, Techniques & Processes <p>This project is part of the Biofertilizers practical paper and it is part of question paper.</p> <p>All students successfully completed the project assigned.</p>			
B.Sc. (Honours) Botany III Year, Semester V	556	<p>Biostatistics (DSE-2)</p> <p>Duration: One Semester</p> <p>Project: Analysis of 100 data points collected from within the college and analysed and interpreted using various biostatistical tools.</p> <p>Compulsory project work as part of practical CIE (Done individually and completed successfully).</p>	UPC-32167502	2021	42 Students
B.Sc. Life Science III Year, Semester VI	583	<p>Intellectual Property Rights (SEC-4)</p> <p>Duration: One Semester</p> <p>37 Projects (Done individually and completed the project Successfully)</p> <p>This project is part of the IPR practical paper and it is part of question paper.</p>	UPC-42163601	2022	37 Students



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Academic Year	2021-22
Paper Name	SEC : Intellectual Property Rights
Unique Paper Code	33163302
Course	B.Sc. (H) Botany
Programme Code	556
Year	II Year
Semester	III
Total no. of students	42

Projects completed

Individual IPR e-diary had to be submitted as part of the practical examination for the paper Intellectual Property Rights. They made the IPR e-diary on MS PowerPoint. Students were evaluated based on the product selected by them and the content including number of samples and their original photographs. Students selected topics of their choice from the syllabus such as Copyright, Trademark, GI Food, GI Industry, and others. They had to click the pictures of the products themselves. Google photos of the products were not allowed.

B.Sc. (H) Botany II Year (2021-22)					
S.No	Year/Roll No	Name			
1	2020/210	Aadhya	25	2020/567	Poonam
2	2020/258	Akshai Victoria A Sangma	26	2020/95	Shweta Singh
3	2020/507	Akshai	27	2020/329	Pratishtha Gaur
4	2020/353	Anjali Mahalakshmi	28	2020/204	Prithi Sahasr
5	2020/1491	Anjali Malhotra	29	2020/376	Priya Ghoshal
6	2020/1519	Anuradha	30	2020/1486	Priyanka Gargal
7	2020/273	Arunj Tayang	31	2020/332	Shruti Dhillon
8	2020/980	Bhavana	32	2020/894	Shweta Kaur
9	2020/328	Bhavya Nandini	33	2020/1566	Sandhya Gargal
10	2020/1472	Bidyakanti Khurajam	34	2020/1497	Shweta Ghoshal
11	2020/762	Chitra	35	2020/1525	Shweta Ghai
12	2020/323	Chitra Mahapatra	36	2020/373	Shweta Shat
13	2020/953	Chitra Ravi	37	2020/1837	Shweta Shukla
14	2020/1494	Chitra Ravi	38	2020/1539	Shweta Ghoshal
15	2020/727	Chitra	39	2020/22	Shweta Arya
16	2020/1461	Chitra Ghoshal	40	2020/1446	Shweta Yadav
17	2020/119	Chitra Ghoshal	41	2020/227	Shweta
18	2020/1848	Chitra Devi	42	2020/1738	Shweta Bhargava
19	2020/1856	Chitra Gupta	Teacher's Signature: 		
20	2020/1451	Nancy			
21	2020/335	Chitra Khast			
22	2020/1673	Chitra Ghoshal			
23	2020/1771	Chitra Ghoshal			
24	2020/579	Chitra			
25	2020/1461	Chitra Ghoshal			



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These projects were the part of B.Sc. (Hons) Botany curriculum and mandatory for whole class. Four different Projects had done by the class and students were divided in to 4 separate groups. Out of 4, two projects are online review. All had submitted project reports individual and their evaluation were done on the basis of report analysis and hands on. All groups had worked according to given project area, finished their work within time frame																																																																																																																																		
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Miranda House UNIVERSITY OF DELHI

Academic Year	2021-22
Paper Name	Biostatistics
Unique Paper Code	32167502, DSE-2
Course	B.Sc. (H) Botany
Year	3 Year
Semester	V semester
Total no. of students	42

Projects completed

Biostatistics is an applied paper and with this in mind the students have to do a small project individually and present it in lieu of the practical internal examination. The project report had to be submitted in the form of power-point presentations and orally presented in the class. Evaluation is on the basis of how well they have applied different aspects of statistical analysis to the data that they have collected. Each student is expected to collect data from within the college campus (minimum 100 data points) and analyse the data for different measures of central tendencies like mean, median, mode, perform students t-test and find out correlation between two variables. They are expected to formulate their own hypothesis and then accept or reject the same based on their calculations.

Each student had collected the data individually and randomly. Their project topics ranged from a study of marks obtained v/s hours of study; number of chapatis eaten in a day v/s weight of the individual; Pocket money v/s deoderent brand used etc to laboratory based studies like salt concentration v/s plant height, nitrogen concentration v/s plant weight etc.

Srinhatky

B.Sc. (H) Botany III Year

1. BIostatistics

1. ANJALI BHARGAVA (20191422)
2. ANJALI BHARGAVA (20191423)
3. ANJALI BHARGAVA (20191424)
4. ANJALI BHARGAVA (20191425)
5. ANJALI BHARGAVA (20191426)
6. ANJALI BHARGAVA (20191427)
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Teacher's Signature: *Srinhatky*



Miranda House UNIVERSITY OF DELHI



Academic Year	2021-22
Paper Name	SEC 4: Intellectual Property Rights
Unique Paper Code	42163601
Course	B.Sc. Life Sciences
Programme Code	583
Year	III Year
Semester	VI
Total no. of students	37

Projects completed

Individual IPR e-diary had to be submitted as part of the practical examination for the paper Intellectual Property Rights. They made the IPR e-diary on MS PowerPoint. Students were evaluated based on the product selected by them and the content including number of samples and their original photographs. Students selected topics of their choice from the syllabus such as Copyright, Trademark, GI Food, GI Industry, and others. They had to click the pictures of the products themselves. Google photos of the products were not allowed.

B.Sc. Life Science II
Year(2021-22)

Sl. No.

Name

Roll No.

1	ADITI BHARDWAJ	2010/1245
2	AKANKSHA ANAND	2010/1625
3	ANRITPAL	2010/1587
4	ANULYA	2010/1243
5	ANISHA RAJ	2010/1154
6	ANUSHKA DAYAL	2010/1312
7	CHARTI SAINI	2010/1616
8	CHHAVI TOMER	2010/1325
9	DEEPANSHI AGARWAL	2010/1246
10	DEERKA	2010/163
11	DODDI VENKATA APOORVA	2010/132
12	DRISHITI KOHLI	2010/1702
13	ISHIKA	2010/1624
14	K. USHA RANI	2010 / 1532
15	KAVYA SHARMA	2010/1244
16	KHUSHBOO GURJAR	2010/185
17	KOMAL YADAV	2010/1525
18	KRITIKA JYANT	2010/1570
19	MAHIMA	2010/1542
20	MEENAKSHI YADAV	2010/1484

21	MUSEAN MAHESHWARI	2010/1659
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24	NEHA NANDINI	2010/1281
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26	PRATIBHA GANGWAR	2010/462
27	PRIKA RANA	2010 / 1340
28	SAKSHI KUSHWAHA	2010/528
29	SAPNA YADAV	2010/1292
30	SHEHA KADYAN	2010/1421
31	SHIVANI	2010/1288
32	SHREYA CHOUDHURI	2010/1782
33	SNEHA	2010/1813
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35	TENZHI DECHEN	2010/1663
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