



Miranda House UNIVERSITY OF DELHI

Departmental Annual Report- 3

Departmental Activities: Curriculum and Beyond

Department: Botany

Academic Year: 2017-18 (1st July 2017 to 30th June 2018)



Part A.1

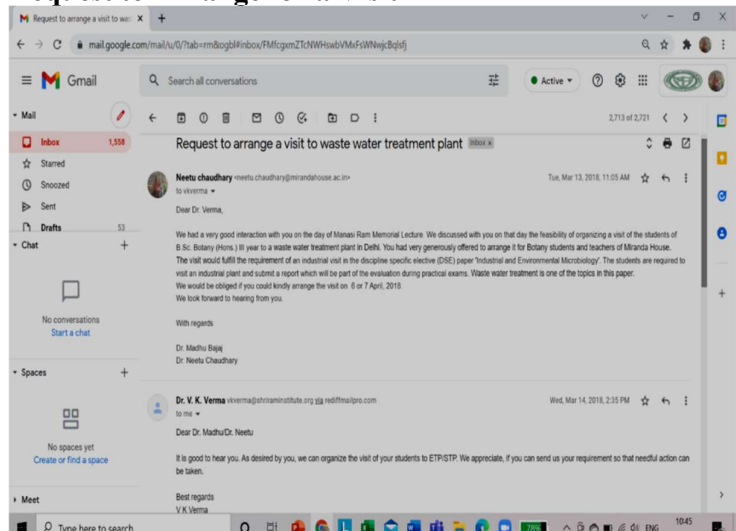
Students undertaking project work/field work/internship as part of experiential learning component of course work

S. No.	Paper: Ecology/ Systematics/ Environmental Management	Permission letter
1	<p>Place of visit: Mukteshwar, Kausani and Jim Corbett National Park, Uttarakhand (for Core Papers Ecology and Plant Systematics)</p> <p>Date: 23-27 February 2018</p> <p>Programme: B.Sc. (H) Botany I, II and III Year</p> <p>Course: Environmental Management</p> <p>No. of students: 29</p> <p>Accompanying teachers: Dr. Rashmi Shakya, Dr. Somdutta Sinha Roy</p> <p>Objectives achieved:</p> <ol style="list-style-type: none"> 1. Field visit as per syllabus 2. Visited Indian Veterinary Research Institute (IVRI) and Central Institute of Temperate Horticulture (CITH), 	



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	Mukteshwar, and Jim Corbett National Park	 
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S. No.	Paper: Industrial and Environmental Microbiology	Request to Arrange for a Visit
2	<p>Place of visit: Kondli Sewage Treatment Plant, Delhi Jal Board, Delhi (for DSE Paper Industrial and Environmental Microbiology)</p> <p>Date: 28 March 2018</p> <p>Programme: B.Sc. (H) Botany III Year</p> <p>No. of students: 25</p>	

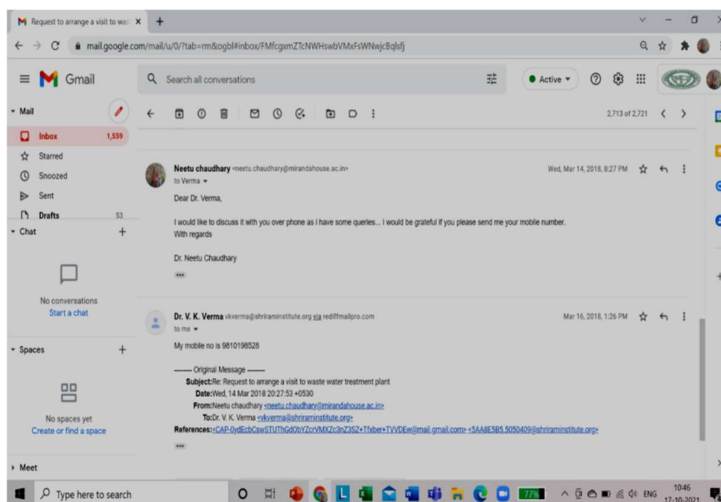


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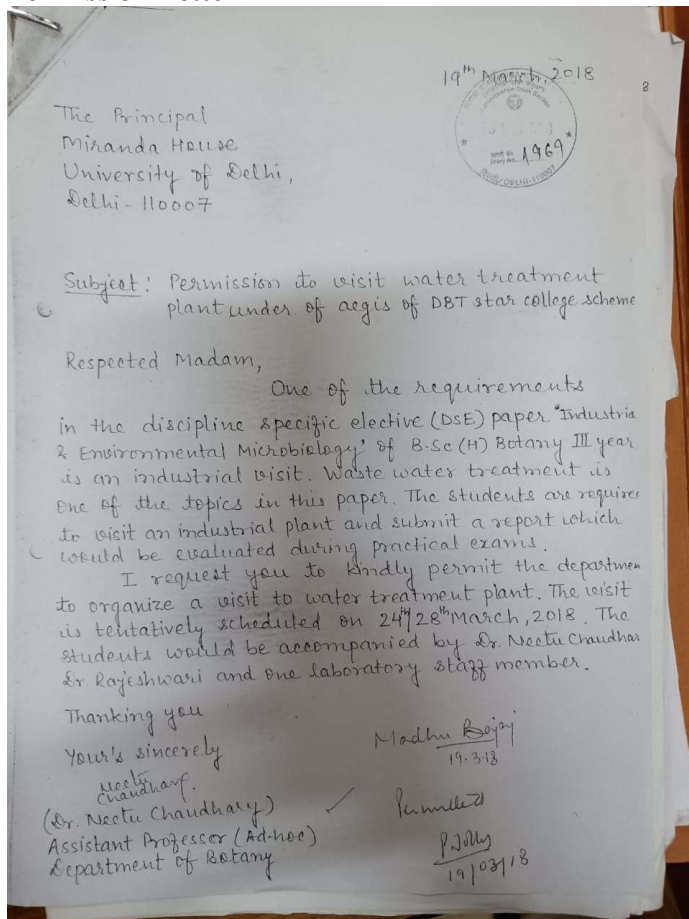
Accompanying teachers: Dr. Neetu Chaudhary, Dr. Rajeshwari

Objectives achieved:

1. Field visit as per syllabus
2. Gave the students an overview of waste water management and treatment




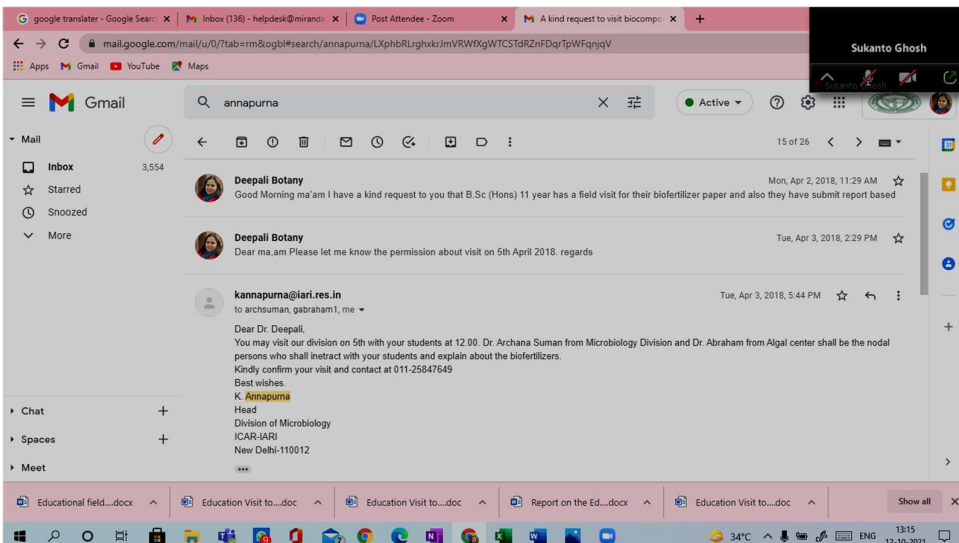
Permission Letter





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S. No.	Paper: Biofertilizers	
3	<p>Place of visit: Division of Microbiology, Indian Agricultural Research Institute (IARI) (for SEC Paper Biofertilizers)</p> <p>Date: 05 April 2018</p> <p>Programme: B.Sc. (H) Botany II Year</p> <p>No. of students: 30</p> <p>Accompanying teachers: Dr.</p>	<p>Permission Letter to Visit Division of Microbiology, IARI, in 2018</p> 



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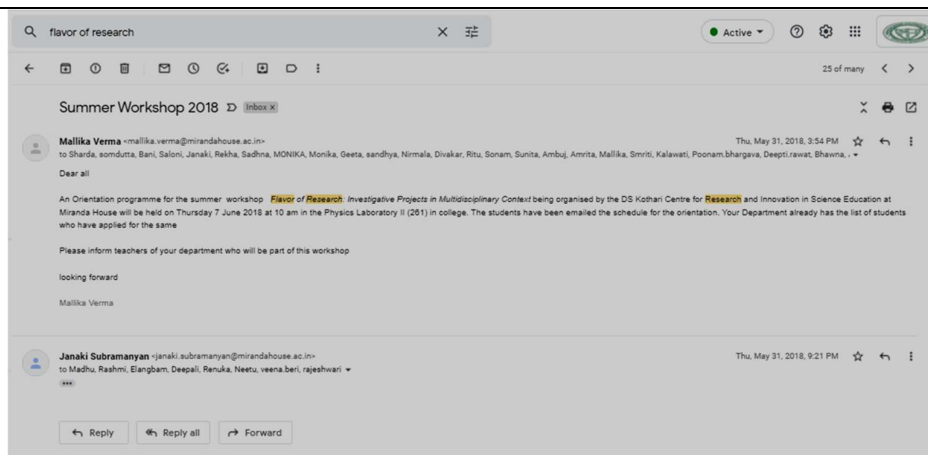
<p>Deepali, Dr. Rajeshwari</p> <p>Objectives achieved:</p> <ol style="list-style-type: none">1.Field visit as per syllabus2.Hands-on training on composting3. Learnt about the cultivation of <i>Azolla</i>4. Learnt about the importance of biofertilizers	 
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Part A.2

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



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Email informing about the Orientation for Summer Workshop *Flavor of Research: Investigative Projects in Multidisciplinary Context* being organised by the DS Kothari Centre for Research and Innovation in Science Education at Miranda House on 07 June 2018.

Programme name	Programme Code	Name of the students
	DSKC Summer Internships 2018	
B.Sc. (H) Botany I Year, Miranda House B.Sc. Life Science II Year, Govt PG College, Hisar, Kurukshetra University B.Sc. (H) Botany I Year, Gargi College B.Sc. (H) Botany II Year, Hansraj College B.Sc.(H) Botany II Year, Hindu College (Mentors: Dr. Janaki Subramanyan, Dr. Saloni Bahri and Dr. Somdutta Sinha Roy)	Project 1 Project title: A Study On Anthocyanins	1. Aditi Soni 2. Anu Middha 3. Shreya Bhardwaj 4. Bhawana Ahuja 5. Madhu Yadav 6. Pragati 7. Sakshi Rathor



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B.Sc. (H) Botany II Year, Miranda House	Project 2	1. Muskan Saini
B.Sc. (H) Botany II Year, Hansraj College	Project title: Analysis Of Drinking Water Quality	2. Ritika
(Mentors: Dr. Saloni Bahri and Dr. Somdutta Sinha Roy)		3. Arpit Jindal
		4. Chandan Das



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COURSE BASED PROJECTS (Experiential Learning)

Program name	Program code	Name of the Course that include experiential learning through project work	Course code	Year of offering	Name of the student studied course on experiential learning through project work
B.Sc. (Honours) Botany II Year, Semester III	556	Intellectual Property Rights (SEC)	UPC-32163302	2017	30 Students
B.Sc. (Honours) Botany II Year, Semester IV	556	Biofertilizers (SEC)	UPC-32163403	2018	30 Students
B.Sc. (Honours) Botany III Year, Semester V	556	Biostatistics (DSC-2)	UPC-32167502	2017	25 Students
B.Sc. Life Science III Year, Semester VI	583	Intellectual Property Rights (SEC-4)	UPC-42163601	2018	38 Students

Academic Year	2017-2018
Program name	B.Sc. (H) Botany
Program Code	556
Name of the Paper that include experiential learning through project work	Intellectual Property Rights (SEC)
Unique Paper Code	32163302
Year	II year
Semester	III
Total no. of students	30

Projects Completed

Individual projects had to be done as part of the practical curriculum for the paper Intellectual Property Rights. Students had made e-diary based on IPR syllabus. They had presented their project's reports in the form of Power Point Presentation. It was evaluated on the basis of contents and Subject knowledge related to the e-dairy. The subject of projects was opted by student itself and they have collected data from available sources of society and market. They had to click the pictures of the products themselves. Google photos of the products were not allowed. They had discussed their data under the headings of Patent, Copyright, Designing, Manufacturing, Production, Trademark, GI tag etc.

B.Sc. (H) Botany II Year (Semester III) 2017-18

S. No.	Roll No.	Name
1	570	Ankita Dash
2	473	Arushi Chib
3	351	Dimple
4	219	Hari Priya
5	114	Indu Singh
6	504	Irem Valentina Devi
7	1519	Jaya
8	1524	Rajul Yadav
9	354	Ramakshi Kaushik
10	1309	Ranchan
11	1625	Kareena Singh
12	378	Kavita Devi
13	314	Kirandeep Kaur
14	278	Km. Monika
15	1458	Megha Anand
16	641	Minalini S Prakash
17	1576	Muskan Sami
18	1584	Noorem Bidyalamsi Devi
19	235	Neetu Kumar
20	112	Pallaparthula Devi Akilandeswari
21	584	Preeti Chauhan
22	110	Ritika
23	340	Sangenta
24	561	Shifali Sethi
25	1532	Shanin Ldazes
26	1547	Shanin Yangdol
27	356	Tripti
28	135	Sweeta Gahlot
29	968	Megha Singh
30	332	Vaishali Chaurana

E Gutierrez

Deepali



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Academic Year	2017-2018
Program name	B.Sc. (H) Botany
Program Code	556
Name of the Paper that include experiential learning through project work	Biofertilizers (SEC)
Unique Paper Code	32163403
Year	II year
Semester	IV
Total no. of students	30

Project Completed

Commons Project had to be done as part of the practical curriculum for the paper Biofertilizers. The Project title was **"Morphological study of Moong grown in different compost"** and report were submitted in hard copy. Students were divided in to the groups based on the different compost used and their evaluation had done by how well they had represented the data. They had studied morphological parameters such as root/shoot length, branching root/shoot, leaf morphology (colour, number and development) etc. of the Moog plant grown in different compost. They have discussed their collected data on the basis of various published articles.

E. Gutanjali

Deepali

B.Sc. (H) Botany II Year (Semester IV)
2017-18

S. No.	Roll No.	Name
1	570	Ankita Dash
2	473	Anushi Chib
3	853	Deepika
4	238	Hari Priya
5	134	Indu Singh
6	504	Irom Valentina Devi
7	1519	Jaya
8	1534	Kajal Varley
9	354	Kamukshi Kaushik
10	1369	Kanchan
11	1625	Kamvans Singh
12	378	Kavita Devi
13	714	Kirandeep Raur
14	230	Neretu Kumari
15	112	Patlapothula Devi Akilandeswari
16	276	Kim, Monika
17	1458	Megha Anand
18	641	Mrinalini S Prakash
19	1576	Muskan Saini
20	1584	Naeem Bibysaumi Devi
21	594	Preeti Chauhan
22	1310	Ritika
23	340	Sangeeta
24	343	Shifali Sahu
25	1532	Shruti Lohar
26	1347	Shruti Yangdol
27	398	Tripdi
28	255	Sweeta Gahlot
29	168	Megha Singh
30	333	Vandhu Khurana

Deepali



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Academic Year	2017-2018
Program name	B.Sc. (H) Botany
Program Code	556
Name of the Paper that include experiential learning through project work	Biostatistics (DSC-2)
Unique Paper Code	32167502
Year	III year
Semester	V
Total no. of students	25

Projects completed

Individual projects had to be done as part of the practical curriculum for the paper Biostatistics. The project report had to be submitted in the the form of power-point presentations and orally presented in the class. Students are evaluated 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 chapattis eaten in a day v/s weight of the individual; Pocket money v/s deodorant brand used etc to laboratory based studies like salt concentration v/s plant height, nitrogen concentration v/s plant weight etc.

Sinha Roy

B.Sc. (H) Botany III Year (Semester V) 2017-18

S. No.	Roll No.	Name
1	920	Akanksha
2	1639	Ankita
3	95	Banita Yadav
4	1674	Chaynika Gupta
5	1418	Deeksha Gargia
6	651	Dimple
7	880	Garima Shukla
8	654	Harchita Priyadarshini
9	657	Hiba Asang
10	834	Iffatam Khan
11	763	Iqra Nafies Khan
12	668	Kanchan Sarej
13	1471	Komal
14	644	M. Tomulim Tomlang
15	1416	Megha Khatri
16	1656	Namita Singh
17	894	Pallavi Jha
18	805	Pooja Yadav
19	1664	Rajni Yadav
20	1449	Rukar Bano
21	1525	Shaily
22	1556	Shivani Bhati
23	666	Starvin Chadil
24	806	Sushmita Ningthoujam
25	811	Viveka Thapliyal

Sinha Roy



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Academic Year	2017-18
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	38

Projects completed

Individual IPR e-diary had to be submitted as part of the practical examination for the paper Intellectual Property Rights. It is of 5 Marks. 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. Students were evaluated based on the product selected by them and the content including number of samples and their original photographs.

S. No.	Roll no.	Name
1	677	Aarushi Mishra
2	644	Akanksha Mishra
3	374	Anamika Arund
4	1740	Ananya Singh
5	122	Anil
6	1641	Anita Yadav
7	388	Anshu Singh
8	651	Anita Aziz
9	946	Anita Parihar
10	852	Bhoomika
11	1892	Diana
12	1660	Disha
13	905	Disha Gupta
14	229	Harshita Saini
15	20	Himanshi Malik
16	569	Kanshika Malik
17	828	Kritika Verma
18	31	Lipika Prasad
19	175	Mansi Dhillon
20	27	Mansi Kapoor
21	683	Monika Yadav
22	309	Nishu Singh
23	108	Namrata Saini
24	224	Neha Nehra
25	793	Nandini Singh
26	343	Pooja Yadav
27	157	Pooja Prasad
28	716	Radhika
29	538	Rashmi
30	409	Rashmi Prasad
31	170	Rishin Debar
32	331	Ritika Bhatti
33	8	Riya Chaudhary
34	63	Sanchit Devi
35	231	Satish Chaturvedi
36	563	Sonali Awasthi
37	54	Sukanya David
38	201	Tanvi

Teacher's Signature: