



Miranda House

UNIVERSITY OF DELHI

Departmental Annual Report - 3

Departmental Activities: Curriculum and Beyond

Department: Botany

Year: 2017-2018

Department Society and its Office Bearers:

Botanical Society “Antheia”

1. **President:** Shivani Bhati; B. Sc. (H) Botany III year
2. **General Secretary:** Akilandeshwari Pallapothula; B. Sc. (H) Botany II year
3. **CR 3rd Year:** Megha Khari; B. Sc. (H) Botany III year
4. **CR 2nd Year:** Shifali Sahu; B. Sc. (H) Botany II year
5. **CR 1st Year:** Varsha Singh Solanki; B. Sc. (H) Botany I year

Staff Advisors: Dr. Deepali and Dr. Neetu Chaudhary

Part B.1

Seminars/conferences/workshops conducted by the Department



Miranda House UNIVERSITY OF DELHI

Workshop on Biofertilizers for B.Sc. Life Science III Year students, DBT Star College Scheme, Department of Botany, Miranda House, University of Delhi, Delhi.

Date: 04 September 2017

Dr. Janaki Subramanyan and Dr. Saloni Bahri were the Coordinators of the Workshop.

Number of participants: 18



Bridge Course on Basic Laboratory Techniques for B.Sc. (Honours) Botany I Year students organized by Department of Botany under the aegis of DS Kothari Centre for Research and Innovation in Science Education, Miranda House, University of Delhi.

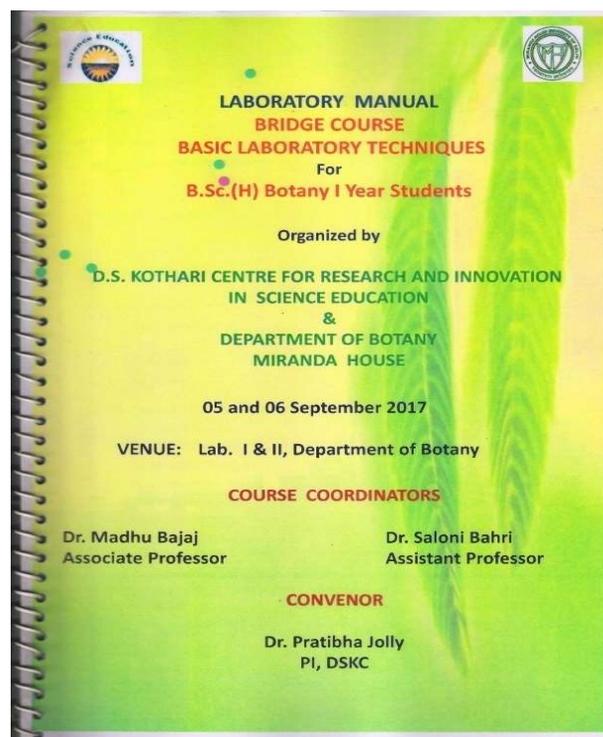
Date: 05 and 06 September 2017.

Dr. Madhu Bajaj and Dr. Saloni Bahri were the Coordinators of the Bridge Course.

Number of participants: 31

Summary Report

The Department of Botany conducted a Bridge Course on 'Basic Laboratory Techniques' for students of B.Sc. Honours Botany I Year under the aegis of D.S. Kothari Centre for Research and Innovation in Science Education, Miranda House. The objectives of the Bridge Course were to: (i) highlight the importance of safety measures to be followed while working in the laboratory, (ii) familiarize the students with the use of





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microscopes and handling of glassware, (iii) teach the working of instruments such as centrifuge, vortex mixer and colorimeter, and (iv) explain the use of micropipettes and preparation of solutions. The Course aimed at augmenting the students' basic knowledge about scientific instruments and laboratory techniques. A laboratory manual was also prepared for the Bridge Course covering all the topics in detail and given to all the students along with a Certificate of Participation.

Dr. Madhu Bajaj and Dr. Saloni Bahri were the Coordinators of the Bridge Courses.

Duration of the Course: 10 Hours

Programme

1. BC Schedule 2016 (Compatibility Mode) - Word

D.S. Kothari Centre for Research and Innovation in Science Education & Department of Botany, Miranda House
Bridge Course on Basic Laboratory Techniques For B.Sc. (H) Botany 1 Year Students

Programme

| Date & Day | Sessions | Venue | Timings | Resource Persons |
|-------------------------------------|--------------------|----------------------|----------------------|----------------------|
| Day 1 September 05, 2016 Monday | Introduction | Lab 130 | 8.30 am to 9.00 am | Dr. Sudama Misra |
| Day 2 September 06, 2016 Tuesday | Session 1 | | | |
| | • Microscopy | Lab 130 | 9.00 am to 10.00 am | Dr. Saloni Bahri |
| | • Use of Glassware | Lab 130 | 10.00 am to 10.30 am | Dr. Neelamita Bhatti |
| | • Coffee Break | | 10.30 am to 10.45 am | |
| Session 2 | | | | |
| • Colorimetry | Lab 130 | 10.45 am to 12.00 pm | Dr. Rakshi Shukla | |
| • Safety Measures in the Laboratory | Lab 130 | 12.00 pm to 1.00 pm | Dr. Jyoti Babbar | |
| • Lunch Break | | | 1.00 pm to 1.45 pm | |
| • Determination of pH | Lab 130 | 1.45 pm to 3.00 pm | Dr. E. Geetanjali | |
| Day 3 September 06, 2016 Tuesday | Session 3 | | | |
| • Use of Pipettes and Micropipettes | Lab 130 | 9.00 am to 10.00 am | Dr. Renika Agrawal | |
| • Preparation of solutions | Lab 130 | 10.00 am to 11.00 am | Dr. Madhu Bajaj | |
| • Coffee Break | | | 11.00 am to 11.15 am | |
| Session 4 | | | | |
| • Preparation of Buffers | Lab 128 | 11.15 am to 12.30 pm | Dr. Sandhya Saha Roy | |
| • Lunch Break | | | 12.30 pm to 1.00 pm | |
| • Centrifugation | Lab 128 | 1.00 pm to 2.15 pm | Dr. Neeta | |

List of Participants

| No. | Roll No. | Name | Signature | 05/09/2016 | 06/09/2016 | Lab Manual |
|-----|----------|----------------------------------|-----------|------------|------------|------------|
| 1 | 1330 | Aika Meena | | | | |
| 2 | 355 | Anjali | | | | |
| 3 | 570 | Ankita Dahi | | | | |
| 4 | 473 | Arushi Chh | | | | |
| 5 | 849 | Charu | | | | |
| 6 | 351 | Deenka | | | | |
| 7 | 665 | Dipali Kumari | | | | |
| 8 | 470 | Gurleen Hans | | | | |
| 9 | 219 | Hari Priya | | | | |
| 10 | 557 | Himani Bhandwala | | | | |
| 11 | 144 | Hrida Singh | | | | |
| 12 | 501 | Irom Valentina Devi | | | | |
| 13 | 1519 | Jaya | | | | |
| 14 | 1524 | Kajal Yadav | | | | |
| 15 | 354 | Kamalesh Kaulshik | | | | |
| 16 | 1369 | Kanchan | | | | |
| 17 | 1625 | Kareena Singh | | | | |
| 18 | 378 | Kavita Devi | | | | |
| 19 | 451 | Khadija Asim | | | | |
| 20 | 314 | Kirandeep Kaur | | | | |
| 21 | 276 | Km Monika | | | | |
| 22 | 1167 | Km Nalaina | | | | |
| 23 | 1503 | Konjengbam Dipika Hillary | | | | |
| 24 | 1251 | Kshetrimayum Eliza Devi | | | | |
| 25 | 1458 | Megha Anand | | | | |
| 26 | 568 | Megha Singh | | | | |
| 27 | 379 | Megha Verma | | | | |
| 28 | 641 | Mrinalini S Prakash | | | | |
| 29 | 1576 | Muskan Saini | | | | |
| 30 | 317 | Nandini | | | | |
| 31 | 1584 | Naorem Bidyajaxmi Devi | | | | |
| 32 | 235 | Neetu Kumari | | | | |
| 33 | 490 | Oorja Sahay | | | | |
| 34 | 112 | Pallabothula Devi Akshandeshwari | | | | |
| 35 | 594 | Preet Chauhani | | | | |
| 36 | 1390 | Priyanka | | | | |
| 37 | 136 | Puja Vidushi | | | | |
| 38 | 636 | Rishi | | | | |
| 39 | 310 | Ritika | | | | |
| 40 | 384 | Ritika Chakravarti | | | | |
| 41 | 340 | Sangeeta | | | | |
| 42 | 563 | Sahil Sahu | | | | |
| 43 | 325 | Simran Kaur | | | | |
| 44 | 575 | Sonalika Bawal | | | | |

| S No. | Roll No. | Name | Signature | 05/09/2016 | 06/09/2016 | Lab Manual |
|-------|----------|------------------|-----------|------------|------------|------------|
| 45 | 1532 | Starvin Idrees | | | | |
| 46 | 1547 | Starvin Yangdol | | | | |
| 47 | 3563 | Sowda Sahlot | | | | |
| 48 | 564 | Tanu | | | | |
| 49 | 356 | Trupti | | | | |
| 50 | 332 | Vaishali Khurana | | | | |
| 51 | 481 | Varnika Punia | | | | |
| 52 | 482 | Vasista Yadav | | | | |
| 53 | 599 | Vidhi Sethi | | | | |

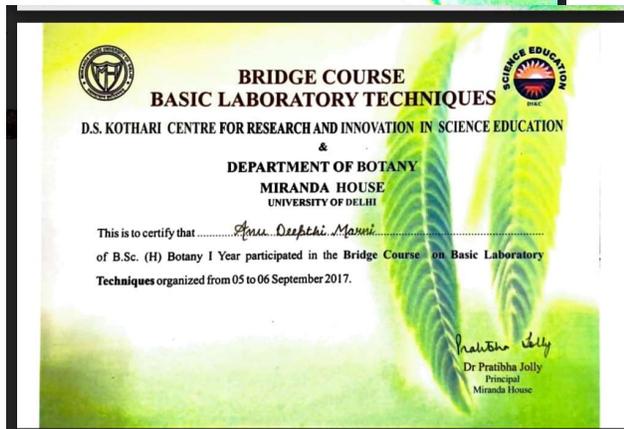
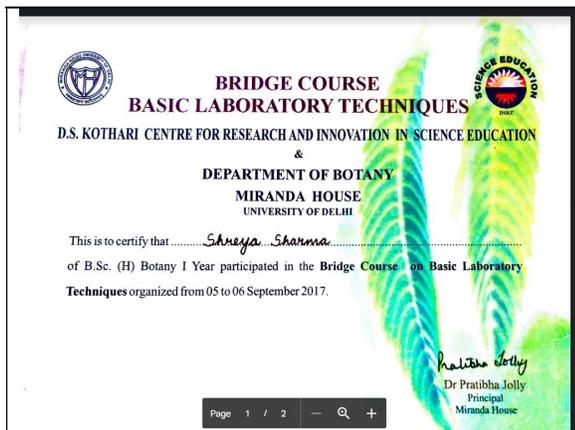
Madhu Bajaj

Saloni

Coordinators



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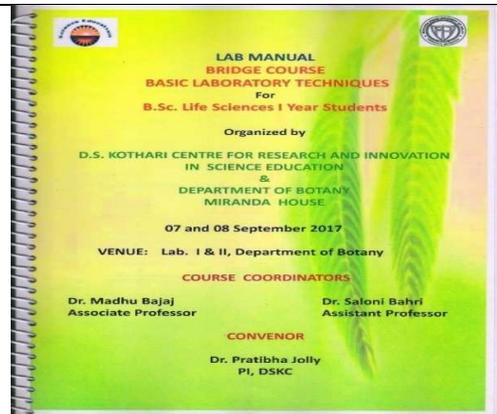
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| 3. Use of Glassware <i>Dr. Niharika Bharti</i> | 15 |
| 4. Colorimetry <i>Dr. Rashmi Shukla</i> | 19 |
| 5. Centrifugation <i>Dr. Neetu Chaudhary</i> | 23 |
| 6. Use of Pipettes and Micropipettes <i>Dr. Renuka Agrawal</i> | 30 |
| 7. Preparation of Solutions <i>Dr. Madhu Bajaj</i> | 33 |
| 8. Preparation of Buffers <i>Dr. Sandhya Sinha Ray</i> | 37 |
| 9. Determination of pH <i>Dr. E. Geeranjali</i> | 41 |

Bridge Course on Basic Laboratory Techniques for B.Sc. Life Science I Year students organized by Department of Botany under the aegis of DS Kothari Centre for Research and Innovation in Science Education, Miranda House, University of Delhi.

Date: 07 and 08 September 2017.

Dr. Madhu Bajaj and Dr. Saloni Bahri were the Coordinators of the Bridge Course.

Number of participants: 32





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Summary Report

The Department of Botany conducted a Bridge Course on 'Basic Laboratory Techniques' for students of B.Sc. Life Science I Year under the aegis of D.S. Kothari Centre for Research and Innovation in Science Education, Miranda House. The objectives of the Bridge Course were to: (i) highlight the importance of safety measures to be followed while working in the laboratory, (ii) familiarize the students with the use of microscopes and handling of glassware, (iii) teach the working of instruments such as centrifuge, vortex mixer and colorimeter, and (iv) explain the use of micropipettes and preparation of solutions. The Course aimed at augmenting the students' basic knowledge about scientific instruments and laboratory techniques. A laboratory manual was also prepared for the Bridge Course covering all the topics in detail and given to all the students along with a Certificate of Participation.

Duration of the Course: 10 Hours

Programme

D.S. Kothari Centre for Research and Innovation in Science Education & Department of Botany, Miranda House
Bridge Course on Basic Laboratory Techniques
For B.Sc. Life Science I Year Students

Programme

| Date & Day | Sessions | Venue | Timings | Resource Person |
|--------------------------------------|-------------------------------------|---------|----------------------|-------------------------|
| Day 1 September 07, 2017 Thursday | Introduction | Lab 119 | 8:30 am to 9:30 am | Dr. Sushama Mishra |
| | Session 1 | | | |
| | • Microscopy | Lab 119 | 9:30 am to 10:00 am | Dr. Sakshi Dahiya |
| | • Use of Glassware | Lab 119 | 10:00 am to 10:30 am | Dr. Yashika Bhat |
| | • Coffee Break | | 10:30 am to 10:45 am | |
| | • Safety Measures in the Laboratory | Lab 119 | 10:45 am to 11:45 am | Dr. Tanishka Srinivasan |
| | Session 2 | | | |
| | • Preparation of Buffers | Lab 119 | 11:45 am to 1:00 pm | Dr. Sushama Mishra |
| | • Lunch Break | | 1:30 pm to 2:45 pm | |
| | • Demonstration of pH | Lab 119 | 2:45 pm to 3:45 pm | Dr. Sushama Mishra |
| Day 2 September 08, 2017 Friday | Session 3 | | | |
| | • Use of Pipettes and Micropipettes | Lab 119 | 9:30 am to 10:00 am | Dr. Neeta Chaudhary |
| | • Preparation of solutions | Lab 119 | 10:00 am to 11:00 am | Dr. Madhu Bajaj |
| | • Coffee Break | | 11:00 am to 11:15 am | |
| | Session 4 | | | |
| | • Colorimetry | Lab 119 | 11:45 am to 1:00 pm | Dr. Anshika Shukla |
| | • Lunch Break | | 1:00 pm to 2:45 pm | |
| | • Certification | Lab 119 | 2:45 pm to 3:45 pm | Dr. Deepika |

List of Participants

Bridge Course Basic Laboratory Techniques
Attendace Sheet
B.Sc. Life Science I Year

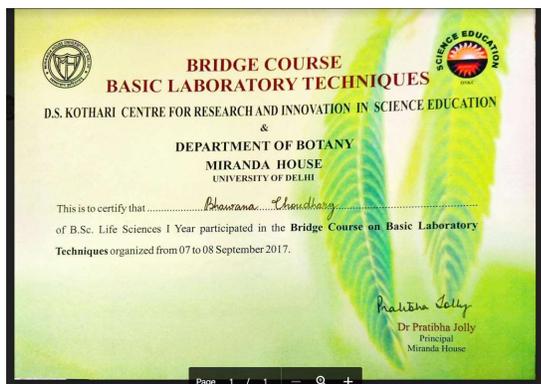
| No. | Roll No. | Name | 07-09-17 | | 08-09-17 | |
|-----|----------|-------------------------|-----------|-----------|-----------|-----------|
| | | | Morning | Evening | Morning | Evening |
| 1 | 1064 | ADITI YADAV | Aditi | Aditi | Aditi | Aditi |
| 2 | 810 | ANJALI | Anjali | Anjali | Anjali | Anjali |
| 3 | 1032 | ANUSHKA RAINA | Anushka | Anushka | Anushka | Anushka |
| 4 | 100 | ANUSHI AGRAWAL | Anushi | Anushi | Anushi | Anushi |
| 5 | 1236 | ANUSHKA SHARMA | Anushka | Anushka | Anushka | Anushka |
| 6 | 176 | ANUSHKA SHUKLA | Anushka | Anushka | Anushka | Anushka |
| 7 | 1290 | ARCHO MAHMOODA | Archo | Archo | Archo | Archo |
| 8 | 273 | BHAWANA CHOUDHARY | Bhawana | Bhawana | Bhawana | Bhawana |
| 9 | 142 | CHHAVI | Chhavi | Chhavi | Chhavi | Chhavi |
| 10 | 761 | DEVYANI MALIK | Devyani | Devyani | Devyani | Devyani |
| 11 | 455 | DIKSHA | Diksha | Diksha | Diksha | Diksha |
| 12 | 1029 | FIZA HAMID | Fiza | Fiza | Fiza | Fiza |
| 13 | 1298 | FREEDA LALMUANPUI SAILO | Freeda | Freeda | Freeda | Freeda |
| 14 | 783 | GARIMA CHAHAR | Garima | Garima | Garima | Garima |
| 15 | 894 | HRISHI MANCHANDA | Hrishi | Hrishi | Hrishi | Hrishi |
| 16 | 26 | KANIKA CHUTANI | Kanika | Kanika | Kanika | Kanika |
| 17 | 30 | MANASA REDDY SANAGA | Manasa | Manasa | Manasa | Manasa |
| 18 | 997 | MANASWI GUPTA | Manaswi | Manaswi | Manaswi | Manaswi |
| 19 | 980 | MANVI | Manvi | Manvi | Manvi | Manvi |
| 20 | 1134 | MONIKA | Monika | Monika | Monika | Monika |
| 21 | 143 | NAVNEET KAUR | Navneet | Navneet | Navneet | Navneet |
| 22 | 117 | NEHA DIXIT | Neaha | Neaha | Neaha | Neaha |
| 23 | 211 | NIDHI | Nidhi | Nidhi | Nidhi | Nidhi |
| 24 | 266 | NIDHI | Nidhi | Nidhi | Nidhi | Nidhi |
| 25 | 806 | PAYYAVULA RAGINI | Payyavula | Payyavula | Payyavula | Payyavula |
| 26 | 936 | POORVA GOLA | Poorva | Poorva | Poorva | Poorva |
| 27 | 1238 | PRACHI SAHA | Prachi | Prachi | Prachi | Prachi |
| 28 | 1184 | PRAGYA KAMAL | Pragya | Pragya | Pragya | Pragya |
| 29 | 1050 | PREETI KUMARI | Preeti | Preeti | Preeti | Preeti |
| 30 | 1204 | PUJA DEVI | Puja | Puja | Puja | Puja |
| 31 | 1006 | RENUKA MAINALI | Renuka | Renuka | Renuka | Renuka |
| 32 | 121 | RITIKA CHAUDHARY | Ritika | Ritika | Ritika | Ritika |
| 33 | 141 | SHAHZADI | Shahzadi | Shahzadi | Shahzadi | Shahzadi |
| 34 | 1059 | SHAYRA | Shayra | Shayra | Shayra | Shayra |
| 35 | 1093 | SONAM YADAV | Sonam | Sonam | Sonam | Sonam |
| 36 | 1306 | STANZIN ZANGMO | Stanzin | Stanzin | Stanzin | Stanzin |
| 37 | 1116 | SUDHA YADAV | Sudha | Sudha | Sudha | Sudha |
| 38 | 207 | TANSHI MISRI | Tanshi | Tanshi | Tanshi | Tanshi |
| 39 | 1119 | YENGMOM SONIA DEVI | Yengmom | Yengmom | Yengmom | Yengmom |
| 40 | 1454 | VANSHIKA MAHASAN | Vanshika | Vanshika | Vanshika | Vanshika |

Madhu Bajaj
Anshika

Coordinators



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| 4. Colorimetry <i>Dr. Rashmi Shukla</i> | 22 |
| 5. Centrifugation <i>Dr. Deepali</i> | 26 |
| 6. Use of Pipettes and Micropipettes <i>Dr. Neeta Chaudhary</i> | 33 |
| 7. Preparation of Solutions <i>Dr. Madhu Bajaj</i> | 41 |
| 8. Preparation of Buffers <i>Dr. Sandhya Sinha Roy</i> | 45 |
| 9. Determination of pH <i>Dr. E. Geetanjali</i> | 49 |

Indian Science and Engineering Fair (INSEF) organized in Miranda House on 13 October 2017 by the DS Kothari Centre for Research and Innovation in Science Education in collaboration with the Science Society of India

Date: 13 October 2017

Departments and Teachers involved

Department of Botany: Dr. Janaki Subramanyan, Dr. Madhu Bajaj, Dr. Saloni Bahri

Department of Chemistry: Dr. Bani Roy, Dr. Mallika Pathak

Department of Physics: Dr. Mallika Verma, Dr. Monika Tomar

Invitation to the Principal for hosting the INSEF Regional Fair (Delhi) from Mr Narayan Iyer, President, Science Society of India



Science Society of India

#95 Vakil Garden City, Kanakapura Road, Talaghattapura, Bangalore 560 062
<http://sciencesociety.in>

30th July 2016

To,
Dr. Pratibha Jolly
Principal
Miranda House
Delhi

Dear Madam,

Sub: Hosting INSEF Regional Fair (Delhi) at your institution

Science Society of India is welcoming your organization to host INSEF Regional Fair. INSEF stands for Indian Science & Engineering Fair. It is a science fair for school students (from class 5th to 12th).

INSEF supports projects that are innovative research based and engineering projects. Here is the abstract book for last year's National Fair http://sciencesociety.in/insef/INSEF_National_Fair_2017_AbstractBook.pdf

The fair would be a one day event where the students from local region would come & exhibit the projects.

1. Around 50 projects may participate in regional fair. We need a table for each project where the participants will demonstrate their projects.
2. Food (Lunch and evening snacks) for participants, guides & judges (~100 people).
3. Medals & Certificates to be made for the students.
4. A room for judges' discussion.
5. An area / auditorium for valedictory ceremony. The hosting institution is the primary organizer and can call whomsoever they wish as guests for valedictory.

We would also need local volunteers for judging at the fair. We could also have staff from your institution or other nearby institution to be part of the judging team. SSI will also get judges from IIT- Delhi & DU through its contacts.



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Once finalized, SSI will open submission for Delhi & shortlist the projects as per the relevant criteria. One SSI representative will travel to Delhi from Bangalore & take care of fair judging.

Gold medal winners from Regional Fair go to National Fair and the winners from National Fair go to International Fair (such as I-SWEEEP, INESPO, Genius Olympiads).

SSI is a non-profit organization and work on a pure costing basis. At any point in time we do not charge any fees towards participating in the fairs. We have been able to sponsor international travel for the students to represent India for I-SWEEEP, USA.

Attached is background information.

Thanking You

Sincerely

Narayan Iyer, President, Science Society of India

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What is INSEF ?

- ✓ INSEF stands for Indian Science & Engineering Fair
- ✓ It is a program conceptualized by Science Society of India.
- ✓ It provides a platform for students from 6th std to 12th std to demonstrate their projects.
- ✓ 6th to 8th std are **junior category**; 9th to 12th std are **senior category**.
- ✓ Students pursuing diploma course are also eligible.
- ✓ The project can be done by a Team (of 2) or an Individual
- ✓ The team members can be from different schools/ cla





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Workshop on Biofertilizers for B.Sc. (Honours) Zoology II Year students, DBTStar College Scheme, Department of Botany, Miranda House, University of Delhi, Delhi.

Date: 08 November 2017

Dr. Janaki Subramanyan and Dr. Saloni Bahri were the Coordinators of the workshop.

Number of participants: 12

The poster is yellow with a small logo in the top left corner. The text is as follows:

DBT Star College Scheme
Manual for the
Workshop on Biofertilizers
Conducted by
Department of Botany, Miranda House
on
08 November 2017

There are four small images: a green plant, a pink flower, a brown soil sample, and a root system.

Organizing Committee

Coordinators: Dr Janaki Subramanyan, Dr Saloni Bahri
Member: Dr Deepali

DBT Star College Project Co-ordinator
Dr Sadhna Sharma

Chairperson
Dr Pratibha Jolly, Principal, Miranda House

Catalyzing a Cultural Shift in Youth Entrepreneurship organized by Biotechnology Industry Research Assistance Council (BIRAC), Department of Biotechnology, Government of India and DSKC on National Entrepreneurship Day.

Date: 09 November 2017

Dr. Saloni Bahri was a Coordinator of the Workshop.

Number of participants: 131 (96 students and 35 teachers)

The poster is grey with the BIRAC logo on the left and the Miranda House logo on the right. The text is as follows:

Biotechnology Industry Research Assistance Council
Celebrating
National Entrepreneurship Day
Workshop on
Catalyzing a Cultural Shift in Youth Entrepreneurship
Thursday, 9 November 2017
10:00 am to 01:00 pm
Seminar Hall, Miranda House
University of Delhi, North Campus



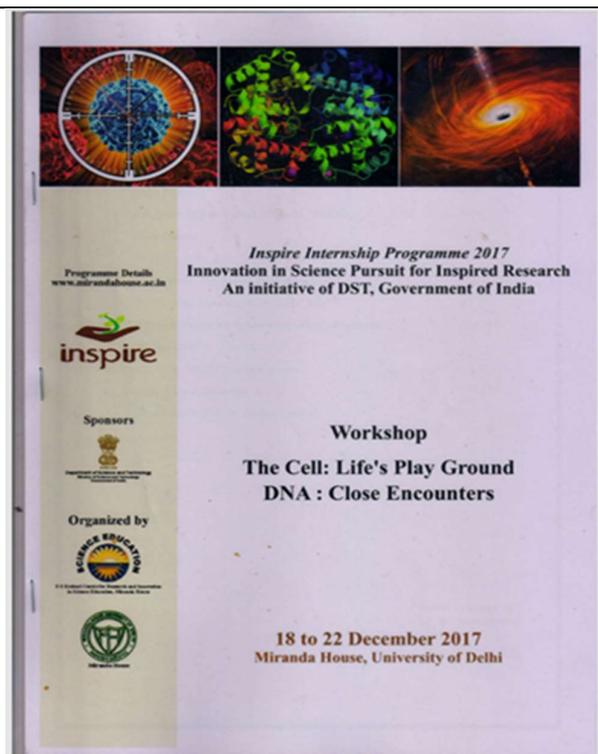
Miranda House UNIVERSITY OF DELHI

INSPIRE Internship Programme, an initiative of the Department of Science and Technology, Government of India, organized by DS Kothari Centre for Research and Innovation in Science Education, Miranda House, University of Delhi, Delhi.

Date: 18-22 December 2017

Dr. Janaki Subramanyan, Dr. Madhu Bajaj and Dr. Saloni Bahri were Members, Organizing Committee.

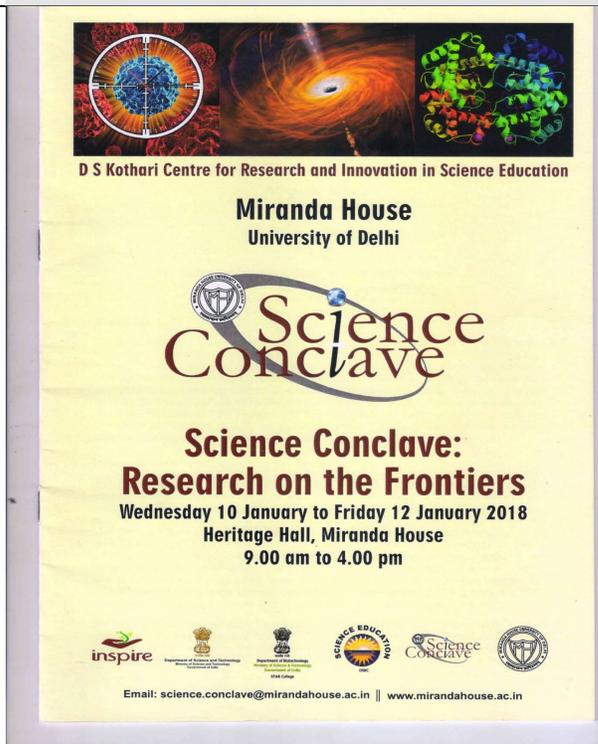
Number of participants: 204



Science Conclave: Research on the Frontiers, DS Kothari Centre for Research and Innovation in Science Education, Miranda House, University of Delhi, Delhi.

Date: 10-12 January 2018

Dr. Janaki Subramanyan was a Co-Convenor, and Dr. Saloni Bahri was a Member, Organizing Committee.





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19th Manasi Ram Memorial Lecture Integrated Water Resources Management by Dr. V.K. Verma, Joint Director, Environment Protection Division, Shriram Institute for Industrial Research, New Delhi, organized by Department of Botany, Miranda House, University of Delhi.

Date: 08 February 2018

Dr. Madhu Bajaj was the Coordinator of the Lecture.

Number of participants: 110 (approx.)

Miranda House cordially invites you to the Nineteenth Manasi Ram Memorial Lecture

by

Dr. V. K. Verma
Joint Director, Environment Protection Division
Shriram Institute for Industrial Research
19 University Road, Delhi 110007

on

Integrated Water Resources Management
at
Miranda House, University of Delhi, Delhi 110007

Time: 10:30 am
Date: 8 February 2018, Thursday
Venue: Botany Lecture Theatre (Room 145)

Phone: 011-27667367
Email: principal@mirandahouse.ac.in

Dr. Pratibha Jolly
Principal

Bonsai Workshop under DBT Star College Scheme in collaboration with Indian Bonsai Association, New Delhi.

Date: 22 March 2018

Dr. Rashmi Shakya and Dr. Deepali were the Coordinators of the Workshop.

Number of participants: 21

DEPARTMENT OF BIOTECHNOLOGY
Ministry of Science & Technology

The Department of Botany, Miranda House
Under DBT Star College Scheme
Presents
THE BONSAI WORKSHOP
In collaboration with
Indian Bonsai Association

Resource person
Ms Syama Balbir
President, Indian Bonsai Association

Date: 20 March 2018
Venue: Room No. 145 & 136
Time: 10:00 am – 4:00 pm
Registration fee: Rs. 700

Last date of registration – 15 march 2018

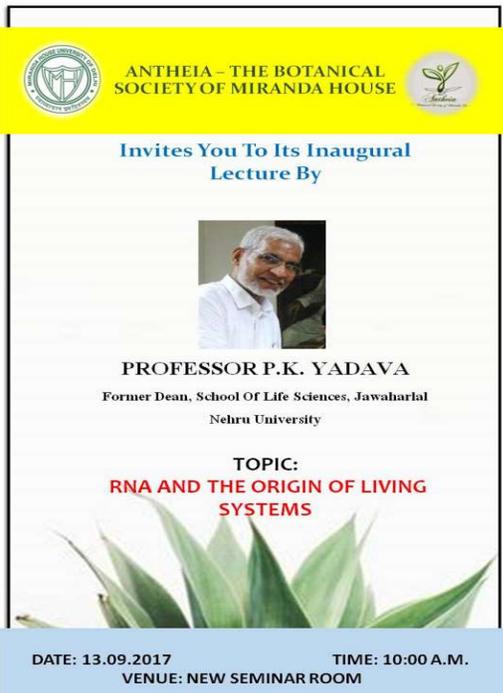
Registration form is available at Miranda House website (www.mirandahouse.ac.in)
Kindly email the duly completed registration form to deepali@mirandahouse.ac.in



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Part B.3

Any other event organized as part of students' activities (not listed above)

| | |
|---|--|
| <p>Botanical Society Inaugural Lecture on RNA and the Origin of Living Systems by Professor P. K. Yadava, School of Life Sciences, Jawaharlal Nehru University, New Delhi.</p> <p>Date: 13 September 2017</p> <p>No. of participants: 100 (approx.)</p> |  |
| <p>The Annual Fest Koshika organized on 19 February 2018 started with a lecture by Prof. S.B. Babbar, and was followed by six inter-college competitions. Inter-college competitions on Rangoli Making, Botanical Quiz, Slice it Thin, Power of Senses and Online Photography were organized.</p> |  |