



# **Miranda House**

## **UNIVERSITY OF DELHI**

---

### **Departmental Annual Report - 3**

#### **Departmental Activities: Curriculum and Beyond**

**Department:** Zoology

**Academic Year:** 2016-17

#### **Part A.1**

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

**Programme:** B.Sc (Hons) Zoology, CBCS Semester: I, II, III, IV, V & VI

**Course:** SEC

**Paper:** Non Chordates, Perspectives in Ecology, Diversity of Chordates, Comparative Anatomy, Physiology: Controlling and Coordinating systems, Physiology: Life sustaining systems, Medical Diagnostics, Sericulture, Animal Behaviour, Animal Biotechnology, Wildlife conservation and Management

**Course Code:** 569

**Paper Code:** 32231101 (Non Chordates), 32231102 (Perspectives in Ecology), 32231201 (Non Chordates: Coelomates), 32231301 (Diversity of Chordates), 32231302 (Physiology: Controlling and Coordinating systems), 32231401 (Comparative anatomy of vertebrates), 32231402 (Physiology: Life sustaining systems), 32233905 (Sericulture), 32233903 (Medical Diagnostics), 32237901 (Animal Behaviour and Chronobiology), 32237903 (Wildlife conservation and management).

**Faculty:** Dr. Nisha Vashishta, Dr. Rekha Kumari, Dr. Jyoti Arora, Dr. Monika Sharma, Dr. Simran Jit, Dr. Pooja Suman, Dr. Deepak Yadav



# Miranda House

## UNIVERSITY OF DELHI

Sr. No.	Course Code	Paper Code	Student Name	College Rollno.	Rollno.	TE
1	569	32233905	AFREEN SHAKEEL	581	15047569001	
2	569	32233905	ANAMIKA NAOREM	358	15047569002	
3	569	32233905	ARSHIA BHAT	1432	15047569003	
4	569	32233905	AVNI GUPTA	1113	15047569004	
5	569	32233905	BHARATI NIBORIYA	1596	15047569005	
6	569	32233905	BHAVYA SIROHI	688	15047569006	
7	569	32233905	BINDU	928	15047569007	
8	569	32233905	CHANAMTHABAM RANITA	1597	15047569008	
9	569	32233905	DIVYA CHAUHAN	856	15047569010	
10	569	32233905	GARVITA GOYAL	1272	15047569011	
11	569	32233905	JYOTSNA PANDEY	1255	15047569012	
12	569	32233905	KANIKA ANABH	177	15047569013	
13	569	32233905	KIRAN SANKHLA	1625	15047569015	
14	569	32233905	KM RUCHI YADAV	1054	15047569016	
15	569	32233905	KOMAL AHLAWAT	861	15047569017	
16	569	32233905	MEGHALI SINGH	1081	15047569018	
17	569	32233905	NIHARIKA	684	15047569019	
18	569	32233905	NINGTHOUJAM SHILPA DEVI	1610	15047569020	
19	569	32233905	NUPUR VIMAL	1607	15047569021	
20	569	32233905	PALVI GOTRA	39	15047569022	
21	569	32233905	RAJKUMARI NIKITA	527	15047569024	
22	569	32233905	SAKSHI SHARMA	661	15047569025	
23	569	32233905	SHIVANGI MEEL	1462	15047569026	
24	569	32233905	SHREYA SINGH	1405	15047569027	
25	569	32233905	SHRISTI SINGH	690	15047569028	
26	569	32233905	SHRITI KUMAR	83	15047569029	
27	569	32233905	SHRUTI ACHARYA	1213	15047569030	
28	569	32233905	SHWETA MANN	1161	15047569031	
29	569	32233905	VIDHI YADAV	746	15047569034	
30	569	32233905	RITIKA GOEL	870	15047569035	

Name and Signature of Evaluators:

(Dr. DEEPAK)



# Miranda House UNIVERSITY OF DELHI

Paper Code		32231101			
Paper Name		Non-chordates I: Protista to Pseudocoelomates			
Sr. No.	Course Code	Paper Code	Student Name	College Rollno	Rollno.
1	569	32231101	AFREEN SHAKEEL	581	15047569001
2	569	32231101	ADITI CHAUDHARY	471	16047569001
3	569	32231101	ALKA SINGH	571	16047569002
4	569	32231101	AMISHA SANWARIA	1367	16047569003
5	569	32231101	ANJU PANGHAL	739	16047569004
6	569	32231101	ANUBHUTI KRISHNA	25	16047569005
7	569	32231101	ANUPAMA YADAV	443	16047569006
8	569	32231101	ANURADHA	1561	16047569007
9	569	32231101	ANURADHA KUSHWAHA	125	16047569008
10	569	32231101	BHARTI	501	16047569009
11	569	32231101	CHANDRIKA BHATT	439	16047569010
12	569	32231101	KANAN JAMATIA	1261	16047569011
13	569	32231101	KAVITA	152	16047569012
14	569	32231101	KM ANSHIKA YADAV	204	16047569013
15	569	32231101	KM REENA SONY	1335	16047569014
16	569	32231101	KM SUSHMITA TRIPATHI	559	16047569015
17	569	32231101	KOHSHEEN PANDITA	346	16047569016
18	569	32231101	MADHULIKA SHARMA	520	16047569017
19	569	32231101	MAYANGLAMBAM POOJA DEVI	1317	16047569018
20	569	32231101	NEELIMA SHARMA	627	16047569019

21	569	32231101	NISHTHA	64	16047569020
22	569	32231101	NOOR	685	16047569021
23	569	32231101	PRATISHRUTI	467	16047569022
24	569	32231101	RAMA RAJPOOT	319	16047569023
25	569	32231101	RANJANA	1533	16047569024
26	569	32231101	SAJEEYA AKHTAR	312	16047569025
27	569	32231101	SHIWANI	558	16047569026
28	569	32231101	SHREYATA	674	16047569027
29	569	32231101	SHRITA MATTOO	583	16047569028
30	569	32231101	TAMANNA	479	16047569029
31	569	32231101	VARNIKA	479A	16047569030
32	569	32231101	VARTIKA SRIVASTAVA	150	16047569031
33	569	32231101	ZEBA MALIK	145	16047569032
34	569	32231101	VIBHUTI BHAT	702	16047569033





# Miranda House

## UNIVERSITY OF DELHI

Sr. No.	Course Code	Paper Code	Student Name	College Rollno	Rollno.
1	269	223505	AISHWARYA KHARE	983	14047269001
2	269	223505	AKANKSHA SHARMA	110	14047269002
3	269	223505	ANKITA	132	14047269003
4	269	223505	ANKITA MALL	389	14047269004
5	269	223505	ANNU	346	14047269005
6	269	223505	ANUJA PANT	34	14047269006
7	269	223505	ANUSUIYA	723	14047269007
8	269	223505	ARADHANA SINGH	1361	14047269008
9	269	223505	ASHA	130	14047269009
10	269	223505	DHRUTI EDA	91	14047269010
11	269	223505	JYOTI	222	14047269011
12	269	223505	MONIKA YADAV	8	14047269014
13	269	223505	NEELAM MAKWANA	822	14047269015
14	269	223505	ANSHUL JAIN	1	14047269016
15	269	223505	NGAWANG YOUTSO	1137	14047269017
16	269	223505	NITIN MACHAHARY	470	14047269018
17	269	223505	NIYATI	302	14047269019
18	269	223505	PAYAL	217	14047269020
19	269	223505	PRATIKSHA YADAV	393	14047269021
20	269	223505	PRIYA HANSDA	465	14047269023

21	269	223505	PRIYA SINGH		
22	269	223505	PRIYANJALI RAJAWAT	274	14047269024
23	269	223505	PUSHPA	211	14047269025
24	269	223505	RACHNA YADAV	310	14047269026
25	269	223505	RASHIM	364	14047269027
26	269	223505	RUCHI PATEL	2	14047269028
27	269	223505	SANDIPANA CHAKRABORTY	373	14047269030
28	269	223505	SARITA	308	14047269031
29	269	223505	SUNIDHI CHOUHAN	404	14047269032
30	269	223505	TANAYA HAZARIKA	46	14047269035
31	269	223505	TANIA SHARMA	801	14047269037
32	269	223505	UDITA BANSAL	212	14047269038
33	269	223505	VARSHA	1516	14047269040
34	269	223505	ASIMA ABIDI	513	14047269041
				64	14047269043

Name and Signature of Evaluators:

Dr. Usha



# Miranda House UNIVERSITY OF DELHI

## Part A.2

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

Facilitator and mentor at the Experimental summer workshop for undergraduate science students, Flavour of Research, Investigative Projects in Multidisciplinary Contexts held from 1 June- 15 July, 2016. Following students were guided who were working on the following research projects:

3. Antimicrobial finishing of textiles using bioactive reagents. Four students participated in this research project: PI: Dr. Jyoti Arora & Dr. Simran Jit. Rashim Malhotra (MH), Sandipana Chakraborty (MH) and Pooja Jakhar (GC). In this study, students worked on natural antimicrobial bioactive compounds derived from Clove and Triphala that were applied on cotton in the presence of cross-linking agents to develop an antimicrobial textile. *Sim*

4. Application of Natural Dyes on Different Textile Materials through Sustainable Processes. PI: Dr. Jyoti Arora & Dr. Simran Jit. Sparsh Gupta (M.Sc. (Applied Chemistry), Amity Institute of Applied Sciences, Amity University Uttar Pradesh. Natural dyes were applied on to different textile materials through different mordanting techniques and in presence of different mordants. *Sim*

5. Use of plant-based Natural Dyes for imparting colour to hand-made paper: An Ecofriendly Approach. PI: Dr. Jyoti Arora & Dr. Simran Jit. Three students worked on this project: Avni (MH), Arshia (MH) and Bhavya (MH). Plant dyes were used to make azo free handmade paper. *Sim*

- Facilitator and mentor in the Experimental summer workshop, "Study the effect of Henna extract on Biofilm formation" for undergraduate science students, Flavour of Research, Investigative Projects in Multidisciplinary Contexts, D. S. K. Centre for Research and Innovation in Science Education, Miranda House, University of Delhi, Delhi, 2016. Students: Vidhi, Niharika, Nupur, Sakshi Sharma (B.Sc(H) Zoology II Year). *Manika*



# Miranda House

## UNIVERSITY OF DELHI

---

### ASIMA ABIDI-

1. Best Production Award for 'The Maids' at Rajpal, Annual Theatre Fest of St. Stephens.
2. 1st runner up for Best Play for 'The Maids' at Rajpal, Annual Theatre Fest of St. Stephens.
3. Meritorious Scholarship from UGC for academic excellence
4. First position for Baseline Test organized by DS Kothari Centre for Science Education and Research
5. Recipient for Science Award 2016-17
6. Second position for Extempore organized on Impact of Exponential Technologies on future of Human Species organized by TIFAC in IIT Delhi.
7. Qualified for interview for PhD program at NCBS Bangalore and IISER Pune through the JGEEBILS entrance exam.
8. Intern at Homi Bhabha Centre for Science Education, TIFR, Mumbai, for three weeks in Dec 2015. Worked on credibility of Drosophila as a model system.
9. Summer Research Fellowship awarded by INSA-IAS-NASI from May 22nd to July 20th 2016 at Indian Institute of Technology Bombay, Mumbai. Worked on Mammalian Tnfalpha signalling and elucidation of pERK dynamics in cancerous cell lines.
10. First prize in Debate on 'Odd Even Rule- Success or Failure' as part of fest Impulse.
11. AIR 62 in Joint Admission Test for masters in Biological Sciences at IISc and IITs.
12. Academic Prize for highest marks obtained in the aggregate of two years of the B.Sc course awarded by MirandaHouse University of Delhi
13. Dr. Saroj Kesar Meritorious Award for Highest marks in Physiology awarded by Miranda House, University of Delhi
14. Third position in the Science Quest 2017 organised by Cluster Innovation Centre, University of Delhi along with First position in the Interactive round I.





# Miranda House

## UNIVERSITY OF DELHI

---

### **UDITA BANSAL -**

1. Participated in the Summer Visiting Research Programme in the School of Biology at Indian Institute of Science Education and Research (IISER), Thiruvananthapuram, Kerala, India from 24th May-26th July, 2016 under the guidance of Dr Ullasa Kodandaramaiah. My research topic was "Exploring the evolutionary significance of ventral colouration in a family of fossorial snakes, the Uropeltidae".
2. Attended the Second Winter School on "Foundations of Ecology and Evolution" held at Indian Institute of Science Education and Research (IISER), Mohali, India, from 12th to 26th December, 2016.
3. Worked in Kanha National Park, Madhya Pradesh, India for one month (2015) on two projects under the Wildlife Institute of India, Dehradun viz., "Resource partitioning among sympatric ungulates in Kanha Tiger Reserve, Madhya Pradesh".

### **ARSHIA BHAT, AVNI GUPTA AND BHAVYA SIROHI**

1. First prize in poster presentation in National seminar, Dept. Of Science and Technology at Kalindi College, University of Delhi, under the guidance of Dr. Jyoti Arora.

### **BINDU VATS**

1. 1st prize in Inter-college Netball.
2. 1st prize in Erobern (MH) basketball and net ball
3. 1st prize in Institute of Home Economics in basketball
4. 2nd position in Kirorimal College in basketball.
5. 2nd position in NSUI in basketball
6. 3rd position in inter-college Basketball.

### **GARVITA GOYAL**

1. Oral presentation on overwintering strategies of mosquitoes along with KanikaAnabh and Shruti Acharya under the guidance of Dr. Vimal Thareja.

### **JYOTSNA PANDEY**

1. Second position in Intra-college Quiz.

### **KANIKA ANABH**

1. Presented a talk in JNU about the overwintering strategies of mosquitoes with Dr. Vimal Thareja, Dr. Anjana and Anina (Phd. scholar)



# Miranda House

## UNIVERSITY OF DELHI

---

2. Presented a talk about the overwintering strategies of mosquitoes in Miranda House and Gandhi Bhawan with Dr.Vimal Thareja, Shruti and Garvita
3. Qualified for the National Science Academies' Summer Research Fellowship Programme 2017.
4. Won the first prize in Debate competition organised by Tricord, the Life Sciences society of Miranda House.

### KOMAL AHALAWAT.

1. 1st prize in Inter-college Netball.
2. 1st prize in Erobern (MH) basketball and net ball
3. 1st prize in Institute of Home Economics in basketball
4. 2nd position in Kirorimal College in basketball
5. 2nd position in NSUI in basketball
6. 3rd position in inter-college Basketball.
7. Participation in SRCC, BITS Pilani and Royal Club Championships on Invitation.

### SAKSHI SHARMA-

1. 2nd prize in Inter-college Chess Championship, SRCC, Lady Shriram College, Haryana State Chess Championship.
2. 1<sup>st</sup> Position in KMC Chess Competition and Erobern( MH)
3. DUSU sports president 2016-17

### SHRUTI ACHARYA

1. Attended Harvard US INDIA Initiative conference, Mumbai, 2016
2. Presentation on "Overwintering strategies of mosquitoes" along with KanikaAnabh and Garvita Goyal under the guidance of Dr. Vimal Thareja.
3. Book Grant scholarship from UGC.

### SHRITI KUMAR

1. Attended Harvard US INDIA Initiative Conference, Mumbai, 2016
2. Book Grant Scholarship from UGC.





# Miranda House

## UNIVERSITY OF DELHI

---

### **VIBHUTI BHATT:**

1. 3<sup>rd</sup> position in Fresher's cross country organized by Department of Physical Education, MH.

### **ANJU PANGHAL:**

1. Silver medal in inter-college 5km walk organized by Delhi Sports Council
2. Gold medal in fresher's cross country organized by Department of Physical Education, MH

### **ZEBA MALIK:**

1. 3<sup>rd</sup> position in DS KOTHARI baseline test in biology

### **ALKA SINGH:**

1. 2<sup>nd</sup> position in DS KOTHARI baseline test in physic