

Report of
Zoology
Department
(Session 2016-17)



Mehr Chand Mahajan
DAV College for Women
Sector 36-A, Chandigarh

www.mcmdavcwchd.edu.in

Department name: Zoology

Session: 2016-17

Names of Programmes/Courses offered:

1. B.Sc. (Medical)- Three year Degree Course (Semester system)

FACULTY DETAILS:

1. Publications:

| Permanent Faculty/ Contractual faculty | Title of Paper | Title of the Journal with ISSN | Month/ Year | Peer Reviewed/ Refereed | UGC/CARE Enlisted (Yes/No) | URL |
|---|--|--|--------------------|--------------------------------|-----------------------------------|---|
| Dr. Sarabjeet Kaur (Permanent) | Fish health alterations as potential biomarker of environmental quality in rivers of Punjab (India). | Pollution Research ISSN: 0257-8050 | March, 2017 | Peer reviewed and refereed | Yes UGC Journal No. 38090 | https://www.researchgate.net/publication/315765369 |
| Dr. Ruchira Sen (Contractual) | A Meta-analysis testing eusocial co-option theories in termite gut physiology and symbiosis. | Communicative and Integrative Biology ISSN: 1942-0889 | Feb., 2017 | Peer reviewed and refereed | Yes UGC Journal No. 16279 | http://www.tandfonline.com/doi/abs/10.1080/19420889.2017.1295187 |

2. Research projects:

Dr. Neetu- Principal Investigator, Dr. Sarabjeet Kaur- Co-investigator

Grant of Rs. 75,000/- received from Department of Science & Technology, Chandigarh for the minor research project entitled “Synthesis, characterization and evaluation of larvicidal potential of curcumin nanoparticles against the vector species of mosquitoes (Diptera: Culicidae)”.

3. Paper Presentations:

| Permanent Faculty/ Contractual faculty | Title of Paper | Title of the Conference/ Seminar | Month/ Year | Sponsoring Agency | National/ International | Award if any |
|--|--|---|--------------------------|---|-------------------------|--------------|
| Dr. Harpreet Kaur | Vaccine studies on various cocktails of 31KDa, 36KDa and 51KDa antigens of <i>Leishmania donovani</i> against experimental visceral Leishmaniasis. | 13 th Conference on Vectors and Vector-Borne Diseases organized by Central University of Tamil Nadu and National Academy of Vector Borne Diseases at Hotel Crowne Plaza, Chennai | 27.02.2017 to 01.03.2017 | South East Asia Regional Office of the World Health Organization; National Vector borne disease control programme; Deptt. of Science & Technology; Indian Council of Medical Research | International | Nil |

4. Orientation Programmes/Refresher Courses/FDPs etc. attended

| Name of faculty | Orientation/ Refresher/ FDP | Title of the Programme | Organizing Agency | Duration | From-to |
|--------------------------------|--------------------------------------|---|--|----------|---------------------------|
| Dr. Neetu | Summer Research Fellowship Programme | Summer Research Fellowship Programme sponsored by Science Academies (IASc- INSA-NASI) | Centre for Nanoscience and Nanotechnology, Panjab University, Chandigarh | 56 Days | 06.05.2016 to 30.06.2016 |
| Dr. Neetu & Dr. Sarabjeet Kaur | Faculty Development Programme | ICT: New Dimensions in Research and Higher Education sponsored by RUSA. | Mehr Chand Mahajan DAV College for Women, Sector 36-A, Chandigarh | 07 Days | 26.11.2016 to 02.12.2016. |

STUDENTS' DETAILS

1. Achievements:

| Name of the Agency/University | Name of the event | Name and Roll No. of the Student | Name of the Award/Project/ Position | Month/Year |
|--|---|---|-------------------------------------|-------------------------|
| PG Govt. College for Girls, Sector-11, Chandigarh | Power point presentation during Akshay Urja Diwas celebration | Shreya Sharma (3301) (B.Sc. III Med.) | 1 st | 20.08.2016 |
| | | Akshita (3326) (B.Sc. III Med.) | 2 nd | |
| Department of Zoology & Department of Food Science, Mehr Chand Mahajan DAV College for Women, Sector 36-A, Chandigarh. | Poster presentation during National Seminar on "Animal Diseases- Impact on Human Health and Control Issues" | Shweta (2900) & Aarzoo Jindal (2922) (B.Sc. II Med.) | 1 st | 30.08.2016 & 31.08.2016 |
| | | Simran (3324) & Akshita (3326) (B.Sc. III Med.) | 2 nd | |
| | | Gundeep (3315) & Shreya Sharma (3301) (B.Sc. III Med.) | 2 nd | |
| | | Aashima (2960) & Kusum (2906) (B.Sc. II Med.) | 3 rd | |
| Mehr Chand Mahajan DAV College for Women, Sector 36-A, Chandigarh | Environment Quiz | Bazila (2515) (B.Sc. I Med.) | 2 nd | 25.02.2017 |

2. Summer School attended:

| Name of the Institute | Name of the Supervisor | Title of the Project | Names of the Students | Technical Skills acquired |
|---|--|---|-----------------------|---|
| IIT, Ropar | Dr. Yashveer Singh, Assistant Professor in Chemistry and Head, Centre of Biomedical Engineering. | Fabrication and characterization of polymeric hydrogels for drug delivery | Sunidhi Sharma | i. Rheological characterization of polymeric hydrogel ii. Swelling and Degradation properties of polymeric hydrogels. ii. Drug release studies in metallo gel and mesoporous silica UCNP. |
| Shimla Water Catchment and Wildlife Sanctuary | i. Mr. Satish Gupta, Divisional Forest Officer, Shimla Division ii. Ms Anita Bhardwaj, Assistant Forest | A Case Study Of Shimla Water Catchment and Wildlife Sanctuary | Tuheina Thakur | i. Effective patrolling ii. Various Monitoring Techniques ii. Forest Management and prevention of illegal activities. v. Upkeep of the sanctuary |

| | | | | |
|-----------------------------|---------------------------------|---|----------------|--|
| | Conservator, Shimla Division | | | and Water Catchment area v. Management of office records. |
| IISER, Mohali | Dr. Lolitika Mandal | X-Gal staining of imaginal discs of <i>Drosophila melanogaster</i> | Divya Bawa | i. <i>Drosophila</i> dissection ii. X-Gal Staining |
| Wildlife Institute of India | Dr. Abhijit Das (Scientist-C) | Notes on snakes of the genus <i>Oligodon Fitzinger</i> 1826 from North-east India | Tuheina Thakur | i. Worked on the snakes of genus <i>Oligodon</i> . ii. Morphological taxonomy of snakes. iii. Acquainted with mapping in GIS |

3. Competitive examinations qualified:

| CSIR-NET LIFE SCIENCES | GATE |
|------------------------|------|
| 03 | 01 |

- Komal- CSIR NET, Dec, 2016
- Kanika- CSIR NET, Dec, 2016
- Gurkeerat- CSIR NET, June, 2016
- Harnoor- GATE, 2017