DEPARTMENT OF ZOOLOGY
DYAL SINGH COLLEGE, UNIVERSITY OF DELHI
FACULTY DETAIL

Title	DR.	First Name	SEEMA BORA	Last Name	ROY	Photograph
Designation	Assistant Professor					
Address	Zoology Department, Faculty of Science, Dyal Singh College (Morning), Lodhi Road, New Delhi-110003					
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Educational Qualifications	
Degree	Institution
Ph.D Zoology	DSB Campus, Kumaun University , Nainital (UK)
M.Sc. Zoology	DSB Campus, Kumaun University , Nainital (UK)
B.Sc. in Zoology, Botany and Chemistry	DSB Campus, Kumaun University , Nainital (UK)

Career Profile

- **Research Associate in TERI (Tata Energy Research Institute, India Habitat Centre, Lodhi Road, New Delhi) from the year 2000-02 in the department of Forestry and Biodiversity.**
- **Consultant in IGIDR (Indira Gandhi Institute of Development Research, Gen General Arun Kumar Vaidya Marg, Film City Rd, Goregaon, Mumbai, Maharashtra 400065) in the year 2003.**
- **Education Manager in Roy Coaching classes, Mumbai from the year 2004 to 2009.**
- **Consultant in Knowledge Management for development from April to July 2011.**
- **Assistant Professor, Guest Faculty in Dyal Singh College, University of Delhi from 07-04-2022 to 06-06-2024**
- **Assistant Professor, Permanent Faculty in Dyal Singh College, University of Delhi from 07-06-2024**

Administrative Assignments (From 1st July 2019 onwards)

- **Co-convenor in Zoological Society - DSC(2024-25)**
- **Co-convenor in Zoology Laboratory Maintenance - DSC(2024-25)**
- **Co-Convenor in Alumni Registration Committee- DSC(2024-25)**
- **Convenor in Parent-Teacher Committee- DSC(2024-25)**
- **Member of Admission Committee - DSC(2024-25)**
- **Member of Departmental Store Committee- DSC(2024-25)**
- **Member of Purchase Committee - DSC(2024-25)**
- **Member of Zoology Laboratory Maintainance - DSC(2024-25)**

Areas of Interest / Specialization

Specialization in Entomology with interest in Vermicomposting, Waste Management, Forestry, Biodiversity, Ecology, Cytogenetics, Pest Management , Cell Biology and Biochemistry etc.

Subjects Taught

Cell Biology, Concept of Ecology, Cell and Developmental Biology, Evolutionary Biology, Concept of Evolutionary Ecology, Biochemsitry, Apiculture, Sericulture, Comparative anatomy of Vertebrates, Genetics, Non Chordata, Fish and Fisheries, Human Physiology, Science and society, social and Emotional Learning etc.

Research Guidance

Supervised four intern students under Summer Research Internship Program 2025 and the topic of research was " Urban air and Vanishing life: Assessing the impact of Air Pollution on Biodiversity in Delhi" and " Comparative analysis of Milk adulteration in commercial brands using Physio-chemical and Rapid Detection method".

Publications Profile

List of Publications / Journals

• B.R.Kaushal, S.Bora, B.Kandpal, 1999, Growth and cocoon production by the earthworm Metaphire houletti (oligochaeta) in different food sources, Biol.Fertil Soils, 29, 394-400 (ART.042)
• B.R.Kaushal, B.Kandpal, S.P.S.Bisht, Seema Bora, Renu Dhapola(2000), Abundance and seasonal activity of earthworms in croplands of Kumaun Himalayas, Eur.J.Soil.Biol, 35(4), 172-176.
• Article in the "The Pioneer" about the topic "Trust the worm to clean up the house"(2001).

Conference Organization/ Presentations (From 1st July 2019 onwards)

- Attended 10 Day (16-26 July, 2024) "NEP 2020 Orientation and Sensitization Programme under Malviya Mission Teachers Training Programme (MM-TTP)" of University Grants Commission (UGC)
- Organised "Short One-Day Internship Training Program on Microbiological Techniques" as a coordinator in Dyal Singh college on 29th August,2024 in collaboration with Department of Microbiology, AIIMS, New Delhi
- Attended Faculty Training Program on "Fundamental Principles of Integrated Pest Management (IPM)" from 20-22 August, 2024 organised by Department of Zoology, Hindu College, University of Delhi
- Completed online short term Program on "Indian Knowledge System: Contemporary Relevance" under MM-TTP of UGC from 26th to 31st May 2025 and obtained Grade A+.
- Involved with Drama Society of college and organized a talk by director Shri. Ravi Taneja with theater students on 8th September 2025 in college amphitheater.

- Organized workshop on Butterfly counting to assess Biodiversity and Environment on 13th September 2025
- Organized plantation drive campaign on the occasion of National Forest Martyrs Day on 11th September 2025
- Organized inaugural lecture on"Human -wildlife Conflict : Challenge and mitigation Strategies" on October 11th 2025
- Attended workshop on effective implementation 0f UGCF 2022 academic tracks of 4th year on 27th October 2025
- Attended gender sensitization workshop by Ms. Anuradha Gandhi on 31st October 2025
- Conducted awareness Program on " Sanitization and Hygiene (Wash) system to prevent water borne diseases" in collaboration with Shriram Institute of Industrial Research on 17th November 2025
- Coordinated workshop on "Awareness and rights about sexual and reproductive health" by Dr. Suchitra Wadhwa under the aegis of "Unnat Bharat Abhiyan and Viksit Bharat Abhiyan" on 20th november 2025
- Attended FTP titled "Experimental Approaches in Evolutionary Immunology" organised by Department of Zoology, Hindu College, Delhi University on January 21, 2026

Research Projects (Major Grants/Research Collaboration)

Research Experience

• Written PhD Thesis in the topic "The influence of earthworm in nutrient cycling in natural and managed ecosystem in Kumaun Himalaya".
• Have worked in Various projects in TERI related to Vermicomposting, farm forestry, climate change, afforestation and biodiversity related issues.
• Worked in the EERC project entitled "India: Environmental management capacity Building Technical Assistance project" and " Economic analysis of rural pollution and Health impacts in Northern India" in IGIDR.

Awards and Distinctions (From 1st July 2019 onwards)

1. **Certificate of appreciation for Science Fair 2024 held on 28-29th February 2024 in Dyal singh College, DU**

Association With Professional Bodies

NA

Other Activities like MOOCs/ Patents etc. (From 1st July 2019 onwards)

NA

Signature of Faculty Member