




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



Title	PROFESSOR	First Name	RITA	Last Name	RATH	
Designation	PROFESSOR					
Address	B-2/403, Manbhavan Apartments, Plot- 26, Sector- 10 Dwarka, New Delhi- 110075					
Phone No Office						
Residence Mobile	9811103028					
Email	ritarath@dsc.du.ac.in					
Web-Page						
Educational Qualifications						
Degree	Institution	Year				
B.SC(HONS) ZOOLOGY	DELHI UNIVERSITY	1981-Gold Medalist				
M.SC ZOOLOGY	DELHI UNIVERSITY	1983- Gold Medalist				
CERTIFICATE IN FRENCH	DELHI UNIVERSITY	1985				
CERTIFICATE IN SCIENCE AND SPORTS JOURNALISM	DELHI UNIVERSITY	1987				
Ph.D. Utilization And Metabolism Of Sterols And Their Inhibition In <i>Heliothis Armigera</i> Hubner	DELHI UNIVERSITY	1989				
Post Doctoral Research Study And Assessment Of The	CENTER OF EXCELLENCE FOR APPLIED RESEARCH AND TRAINING (CERT, HCT ABU DHABI, UAE)	2010-2013				

Impact Of Rapid Urbanization On Bio-Diversity Of U.A.E Towards Sustainable Development Of Abu Dhabi – Vision 2030						
Career Profile						
Professor						
Administrative Assignments (From 1st July 2019 onwards)						
TIC- 2020-2021, Convenor and member of Admission Committee, Academic Committee, Time Table Committee, Practical Examination Superitendant, Library Committee, Alumni Committee, Parent Teacher Association, etc. in different academic sessions						
Areas of Interest / Specialization						
Entomology, Non-Chordates, Chordates, Animal Behaviour, Apiculture, Sericulture, Zoology, Environmental Science						
Subjects Taught						
Entomology, Non-Chordates, Chordates, Animal Behaviour, Apiculture, Sericulture, Zoology						
Research Guidance						
Publications Profile						
(Mention total no. and details from 1 st July 2019 onwards only)						
S.NO	TITLE	JOURNAL	YEAR OF PUBLICATION	ISSUE	PAGE	AUTHORS
1	Safe grain storage- Post harvest Technology: An Indian Perspective	Vantage: Journal of Thematic analysis	2021	2(2)	38-54	Rita Rath , Ranjana Saxena, Neeraja Sood, Sadhna Gupta

2	Genetically modified crops- Need of the hour: An Indian Perspective	Vantage: Journal of Thematic analysis	2021	2(2)	55-69	Neeraja Sood, Sadhna Gupta, Rita Rath , Ranjana Saxena
3	Incorporation of [3H]- cholesterol in various tissues during ovarian development of <i>Locusta migratoria</i> L.	International Journal of Entomology Research	2021	6(6)	17-22	Versha Goel, Rita Rath , Ranjana Saxena
4	A review on ecological degradation, its causes and sustainable development in Delhi, India	Journal of Applied and Natural Sciences	2021	13(4)	1294-1304	Ranjana Saxena, Rita Rath , Neeraja Sood, Sadhna Gupta
5	Effect of dietary azasteroids on the growth and development of the gram pod borer, <i>Helicoverpa armigera</i>	Indian Journal of Entomology	2022	Online Ref no- e22237	DOI- 10.5958/IJE.2022.180	Rita Rath , Ranjana Saxena, Versha Goel, Renu Gupta
6	Efficacy of 25-azacoprostane and N,N-dimethyldodecanamines as potential inhibitors of growth and development in <i>Spodoptera litura</i> (f)	Journal of Contemporary Research and Communications	2022	Vol. 5 N0 1	1-12	Ranjana Saxena, Rita Rath , Versha Goel, Renu Gupta
7	In vivo and in vitro studies on uptake of	International Journal of Entomology	2022	Vol 7(2)	193-202	

	[3H]-cholesterol by different tissues of gram pod borer-, <i>Helicoverpa armigera</i> (Hubner) in the presence of sterol metabolism inhibitors- the azasteroids	Research				Rita Rath, Versha Goel
8	Effect of 25-azacholestane, 25-azacholesterol and N, N - dimethyldodecanamine on cholesterol incorporation in the tissues of <i>Locusta migratoria</i> L.	International Journal of Entomology Research	2022	Vol-7(3)	77-83	Versha Goel, Rita Rath , Renu Gupta
9	Crop residue burning in Northern India: Environmental challenges and strategies for mitigating the Environmental impact of biomass burning	J. Exp. Zool. India	2022	25(2)	2047-2057	S Gupta, N. Sood, R. Rath , R. Saxena
10	Specificity of hemolymph proteins for cholesterol binding in <i>Periplaneta americana</i> , L.	Journal of Entomology Research	2022	46(2)	359-366	Renu Gupta, Ranjana Saxena, Rita Rath , Versha Goel
11	Asola Bhatti wildlife Sanctuary- a case study of	Vantage- Journal of thematic Analysis	2022	3(2)	104-116	Versha Goel and Rita Rath

Ecological Restoration:its success and Present status						
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Chapter in Edited Books

S.No.	Title of Edited Book	Title of Chapter	Authorship*	Publisher (with city/ country) & Year of Publication
1	Microbial products: Applications and translational trends	Microorganisms in Cosmetology	Rita Rath , Neeraja Sood, Sadhna Gupta	Taylor and Francis,CRC press, Boca Raton, FL,33487 USA. November,2022 EDITORS- Mamtesh Singh, Gajendra Pratap Singh, Shivani Tyagi
2.	Case study of wildlife ecology and conservation in India	Distribution and conservation of Kashmir Gray Langur	Mir, Z.R., Noor, A., Ahmad,R., Ahmad, K., Suhail, I.,Habib, B., Dar,S.A.,Bushra,A., Rath,R. , Ilyas,O.,Shah, J.N.	Routledge, Taylor and Francis Group, EDITORS-Orus Ilyas And Afifulla Khan 2022

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

1. Coordinated a one- week **Faculty Development program** on “Unveiling Apiculture: Exploring the art and Science of beekeeping methods and applications. Dyal Singh College in collaboration with Miranda House, ICAR- All India Coordinated Projec on Honey Bee and Pollinators, GAD-TLC, Ministry of Education, PMMMNMTT, Govt of India and University of Delhi (Skill Enhancement Course Committee) from 10.10.24 to 16.10.24.
2. Part of the organizing team of the Science fair on 28.02.2024 &29.02.24. Presented various Papers/models in the science fair along with the students entitled:
 - a) **Bioplastic Innovations**; Towards sustainable solutions. This was awarded the first prize

<p>b) Bee- lieving in bees – The art and Science of Beekeeping. This was awarded the consolation prize.</p> <p>c) Exploring the rich tapestry; a depth look into insect biodiversity in New Delhi, India.</p> <p>3. Safe Grain Storage- Post Harvest Technology : An Indian Perspective Paper presentation Equinox, 2021, The Annual International Conference 12-14, August, 2021 PRESENTED ON 12.08.2021. MAITREYI COLLEGE, DU.</p> <p>4. Microbes as biocontrol agents for sustainable agriculture: Its status and future prospects in India Paper presentation at INSCR 15-18 November, 2021.PRESENTED ON 17.11.2021 INSCR.</p> <p>5. Cancer Biology Chair Person Keynote session Desh Bandhu College, DU, ICMR, NIPER, DBT 11-13 November, 2021,12.11.202111-13 November, 2021.12.11.2021</p> <p>6. Insect Biodiversity as a bioindicator for sustainable development in a desert ecosystem Paper presentation International e Conference Acharya Narendra Dev College, DU ICMCESA, 2022. 22nd to 28th February, 2022</p> <p>7. Safe drinking water: the challenges before India. Paper presentation at International e Conference Acharya Narendra Dev College, DU ICMCESA, 2022. 22nd to 28th February, 2022.</p> <p>8. Environmental laws and policies in India. Paper presentation at International e Conference Acharya Narendra Dev College, DU ICMCESA, 2022. 22nd to 28th February, 2022.</p> <p>9. Asola Bhatti wildlife Sanctuary- a case study of Ecological Restoration: its success and Present status Paper presentation at Equinox, 2022, The Annual International Conference 11-13, August, 2022 PRESENTED ON 12.08.2022 MAITREYI COLLEGE, DU</p> <p>10. HPV Vaccine- The crusader against cervical cancer Paper presentation 7th Annual International conference of Indian Network for Soil Contamination Research 7-11 November, 2022 Presented on 11.11.2022. Jointly organized by Phuxgen Pvt Ltd, Gurugram with ANDC ,BACAS, DDU, Gargi College, KMC, MH. RAMJAS, SRI VENKETESHWAR, SGTBKC, etc</p>
<p>Research Projects (Major Grants/Research Collaboration) (From 1st July 2019 onwards)</p>
<p>Awards and Distinctions (From 1st July 2019 onwards)</p>
<p>Association With Professional Bodies</p> <p>1.Life Member of Indian Women Scientific Association (IWSA) Head quarter- Mumbai, Maharashtra, India</p> <p>2. Life Member INSCR- Indian Network for Soil Contamination Research.</p>

3. Life Member-The Entomological Society Of India, Indian Agricultural Research Institute, New Delhi India.

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

Creation of ICT mediated Teaching Learning pedagogy and content and development of new and innovative courses and curricula

Development of Innovative Pedagogy

S.No.	Name of the Module	Subject	Organization for which it was developed	Year	Level (UG/PG/ Other)	Weblink
1.	Climate change education across the curricula, across the globe:Impact of Climate change on Mulberry cultivation	Biological Sciences/Agricultural Sciences	TROP ICSU	2022	UG	https://tropicsu.org/lesson-plan-mulberry-cultivation/
2	Climate change education across the curricula, across the globe:Climate impacts on the silkworm life cycle	Biological Sciences/Agricultural Sciences	TROP ICSU	2022	UG	https://tropicsu.org/lesson-plan-silkworm-life-cycle/

A handwritten signature in blue ink that reads "Rita Rath". The signature is written in a cursive style and is contained within a light gray rectangular box.

Signature of Faculty Member