




Shivaji College Faculty Details Proforma

Title	First Name	Last Name	Photograph
Dr.	Manas K	Dhal	
Designation	Assistant Professor		
Address	FF 570, Pocket-6 (Green Valley Apartment) Sector-A10, DDA Flats Narela. Delhi-110 040		
Office Phone No.			
Residence	8700740721		
Mobile	9810795296		
Email	manaskdhal@gmail.com / manasdhal@shivaji.du.ac.in		
Web-Page			
Educational Qualifications	M.Sc, M. Phil, Ph.D. (Zoology)		
Degree	University/Institute	Year	
Ph.D.(Submitted)	Delhi University, Delhi-110 007	2013	
M.Phil./M.Tech.	Delhi University, Delhi-110 007	2003	
MCA	Berhampur University, Odisha	1999	
UG	Bhadrak College (Utkal University)	1996	
Any Other Qualification			
Career Profile			

- One month (1st -30th Sept. 2007) teaching experience as a guest Lecturer in Desh Bandhu College, Kalkaji, New Delhi-21 (University of Delhi)
- 4years teaching experience as a guest Lecturer w.e.f.14th Dec.05-23rd May, 2009 in Swami Shraddhanand College, Alipur, Delhi-36 (Delhi University)
- 14 years teaching experience as an ad hoc Assistant professor in Zoology (w.e.f. 17th August, 2009 to 15th May, 2023 in Swami Shraddhanand College, Alipur, Delhi-36 (Delhi University)
- Working as Guest faculty in Zoology Department, Swami Shraddhanand College ((DU), Alipur, Delhi-36 from 29th August to 11th December, 2023

Administrative Assignments

- Associate with Eco-club/ Environmental Society (2021-22) in the capacity of Committee member of Swami Shraddhanand College, Delhi University.
- Associate with Garden Committee (2021-22) in the capacity of Committee member of Swami Shraddhanand College, Delhi University.
- Working as a committee member of Vector borne diseases and control from the year 2017-2022 of Swami Shraddhanand College, Delhi University.
- Garden Committee member from the year 2022-23 of Swami Shraddhanand College, Delhi University.
- Associate with Placement cell (2022-23) in the capacity of Committee member of Swami Shraddhanand College, Delhi University.

Areas of Interest/Specialisation

Applied Entomology and Radiation Biology
Parasitology
Economic Zoology (Apiculture, Aquaculture and Sericulture)
Animal Behaviour
Wild Life Conservation and Management

Subjects Taught

Animal Diversity
Genetics and Evolutionary Biology
Animal Biotechnology
Immunology
Biochemistry
Apiculture
Sericulture
Developmental Biology
Human Physiology
Cell and Molecular Biology

Innovation Project/Research Projects (Major Grants/Research Collaboration)

CUBE (Collaborative Undergraduate Biology Education)

Publications Profile (Research Papers/Books)

- Saxena, K. N., **Dhal, M. K.** and Seth, R. K. (2006). Certain flight characteristics of the egg parasitoid *Trichogramma chilonis* Ishii (Hymenoptera: Trichogrammatidae) for laboratory assessment of its flying capacity. (unpublished)
- Singh, Pushpa, **Dhal, M. K.** and Sagar, S. K. (2014). 'Experimental Investigation on Nutritional Variation in Plant Foliage of Rose (*Rosa damascene*) : Effect of Pest Infestation'. *International Journal of Scientific and Research Publications*, Vol.4, Issue 5, Pp.1-12. ISSN 2250-3153 (Online).
- **Manas K. Dhal** and R. K. Seth (2017). Effect of ionizing (Gamma) and non-ionizing (UV) radiation on lepidopteran host eggs for the efficacy of egg parasitoid, *Trichogramma chilonis* Ishii (Hymenoptera: Trichogrammatidae). *IJRBAT*, Special Issue (2), Vol-V, July 2017 ISSN No. 2347-517X (Online)
- Seth RK*, Vimal N, Sengupta M, Angmo N, **Dhal M K** and Seth R (2018). Coupling Biorational Tactics with Radio-Genetic F1 Sterility Technique for an Effective Integrated Pest Management against Lepidopteran Insects, Mini Review ; *International Journal of Zoology and Animal Biology*. Volume 1 Issue 4 (ISSN: 2639-216X).
- Sagar, SK and **Dhal, Manas K.*** (2021). Application of Nuclear Technique is an Ecofriendly and Economically Viable Approach for the processing and preservation of Agricultural Produce; *International Journal of Food and Nutritional Sciences*.ISSN- 2319-1775 and online- 2320-7876

Book Chapter

- R. K. Seth and Manas K Dhal (2018). Parabiological control is a biorational approach for the conservation of egg parasitoid, *trichogramma chilonis* and control of a lepidopteran pest, *Spodoptera litura* (fab.). *Advances in Biodiversity Conservation for Sustainable Development*. Edited By: Dr. Joginder Singh, Dr. Rashmi Nigam and Dr. Wajid Hasan and Published by: Parmar Publishers and Distributors 854, KG Ashram, Bhainphod, Govindpur Road, Dhanbad-828109, Jharkhand, India ((ISBN: 978-93-84113-90-2)
- Manas Kr. Dhal and S. K. Sagar (2022). Role of biological control for sustainable pest management in wetland agriculture. *Recent Trends in Biodiversity and Environmental Science*. Edited by Dr. Ashok Kumar and Dr. Bipin Kumar. Anvi Books & Publishers . Delhi- 110053. (ISBN: 978-81-950267-3-9).
- Manas K. Dhal (2022). The Journey of a Woman Scientist from Music Course in Pre-independence to Life Science Course at Post-independence Period. *Swatantrata aandolon aur mahilaye* . Edited by Dr. Reena Kapoor, Dr. Aisharya Jha, Dr. Pratibha Rana and Prof. Pradeep Kumar . Akhil Bharatiya Itihash Sankalan Yojana Publishers.

Conference/Seminar/Faculty Development Programme/Workshop

National/ International Conference / Symposia

- Seth, R. K., **Dhal, M. K.** and Garg, A. K. (2003). Efficacy of egg parasitoid, *Trichogramma chilonis* Ishii on lepidopteran hosts subjected to irradiation. In: “Bio-Control Agents for Sustainable Management of Pests” , G. B. Pant University of Agriculture and Technology, Patnagar, Uttaranchal, (18-20 Dec. 2003) (Proc. Abstract).
- Attended Seminar on “Utilization of microbes for development of Bioremediation technologies.” INDO-SWISS collaboration in Biotechnology (ISCB) 7th -9th. January, 2003 at Department of Zoology, University of Delhi, Delhi-7.
- Presented at 5th National symposium on Bio-Control Agents for Sustainable Management of Pests, in Uttaranchal, India (December 18-20, 2003)
- Attended the Mini-Symposium on “Current Trends In Radiation Biology” on 17th Nov. 2007 at Institute of nuclear Medicine & Allied Sciences Defence R & D Organisation, Delhi-54, India.
- Attended the 30th All India Cell Biology Conference & Symposium “Molecules to Compartments: Cross-Talks & Networks” held on 2-4 Feb.2007 at Department of Zoology, University of Delhi, Delhi-7, India.
- Attended the International Conference on Radiation Processing of Agro and Allied Products: Recent trends and Future Prospects, Feb.12-13, 2007. Organized by Shriram Institute For Industrial Research, Delhi-7, India.
- Seth, R.K., Mahtab Zarin, **Manas Dhal. (2008).** “Influence of host irradiation on the parasitization behaviour of egg parasitoid, *Trichogramma chilonis* (Ishii) and its F-1 progeny towards management of tropical pest, *Spodoptera litura* (Fabr.)”. XXIII, ICE 2008, Durban, SA. (Poster pres.
- Attended the National Symposium on ‘RECENT ADVANCES IN IMMUNOLOGY’ organized by Department of Zoology, Miranda House, University of Delhi, held at INSA, on 17-18 July, 2014.
- Participated and presented a paper entitled ‘Forecasting the effects of climate change on biocontrol agent, parasitoid sp. towards the management of insect pests: A review’ by Manas K Dhal and S. K. Sagar, in the 1st National conference on ‘Climate change Adaptation and Sustainable Development’ organized by Swami Shraddhanand College (Delhi University), Alipur, Delhi-110036 during 28-29,September, 2016.
- Participated and presented a paper entitled ‘Influence of different colored light for the Orientation behavior of Lepidopteran insect Pest *Spodoptera litura* (Fab.)’ by Manas k Dhal , Kuldeep, Pooja Malik and Yatin Suneja at 26th Biennial International Conference of The Asian Association for Biology Education on Trends in Biology Education and Research: Practices and Challenges, 20-23 September 2016, Goa –India.
- Participated and presented a paper entitled ‘Rehabilitation of contaminated soil by different earthworm species, a review’ by Manas K Dhal and S. K. Sagar, in the ESWR National Conference (Sri Venkateswara College)-2016 organized by Chemistry Department, Sri Venkateswara College (Delhi University), Dhaulakuan, New Delhi during 19-20 January, 2017
- Manas K. Dhal, Pushpa Singh and S.K. Sagar (2017). Poster presentation on “A review on entomoremediation as a biorational approach to treat contaminated soil in agroecosystems” in the INSCR International Conference 2017 (IIC-2017) on “Role of Microbe-Plant-Animal Interactions in Human Health” held from September 26-28, 2017 at Delhi University, Delhi-7. India. **(MAI40)**
- R. K. Seth and Manas K Dhal (2017). Presented a research paper entitled “Parabiological control is a biorational approach for the conservation of egg parasitoid, *Trichogramma chilonis* and control of a Lepidopteran pest, *Spodoptera litura* (Fab.)” in international

conference ‘Advances in Agricultural and Biodiversity Conservation for Sustainable Development (ABCD-2017)’ held on October 27 & 28, 2017 at Brahaspati Bhawan, C. C. S. University, Meerut, Uttar Pradesh, India

- Participated and oral presentation on ‘Application of Nuclear Technique is an ecofriendly and economically viable approach for the Processing and Preservation of Agricultural Produce’ at National conference on Emerging Environmental Challenges and Sustainable Development 21st – 23rd March 2018. Organized by Society for Environment and Development (India), New Delhi– 110077 & Swami Shraddhanand College, University of Delhi, Delhi – 110036 by S. K. Sagar and Manas K. Dhal.

Work-shop/ Training

- National workshop for undergraduate biology teachers to interact with the experts on science and art of teaching-learning, from 11th to 14th January, 2012, PUNE. IISER & DST inspire, Govt. of India.
- National workshop for undergraduate Life Science teachers on “Bioinformatics” organized by Zakir Husain Delhi College, ILLD (DU) Delhi & Sponsored by DBT, Govt. of India from 16th to 20th January, 2012.
- Attended one-day workshop on “**IPR Patenting and Patentability Assessment**”, held on September 04, 2014 at the Cluster Innovation Centre, University of Delhi.
- Participated in the workshop-cum-training on “Animal Behavior” sponsored by the Department of Science and Technology, Govt. of India and organized by Department of Zoology, University of Delhi (North campus), Delhi-110007 during 19-25 August, 2015.
- Participated in the Short Term Training Course on “Molecular approaches for augmenting reproductive efficiency in cattle” sponsored by the Department of Biotechnology, Govt. of India during 8-21 December, 2015 at ICAR-Central Institute for Research on Cattle, Grass Farm Road, Meerut Cantt. 250 001 (UP).
- Attended & successfully completed the workshop-cum-training on “Bioinformatics Techniques for Agriculture Data Analysis” sponsored by the Department of Biotechnology, Govt. of India during 11-13 January, 2016 at Agricultural Knowledge Management Unit, ICAR-IARI, New Delhi-110 012.
- **STEM TEACHER TRAINING WORKSHOP (Sponsored by Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching, MHRD, Govt. India, DBT, British Council and IISER Pune)**

Participated workshop on Research-Based Pedagogical Tools (Level-1) held from 23rd September to 26th September, 2018 at Kolkata, West Bengal. Attended all sessions and actively participated in all activities, which also included a poster presentation of the work done during the workshop. It was conducted by a team of experts from the Sheffield Hallam University, UK.

Research Guidance (*Supervision of Doctoral Thesis/Dissertations*)

3 B. Sc. Zoology Hons. Students and 2 M. Sc. Dissertation

Awards and Distinctions

Memberships

Life Membership of ATBS(Number- LM/0286)
ASSOCIATION OF TEACHERS IN BIOLOGICAL SCIENCES (ATBS)
C/O Homi Bhabha Centre For Science Education,
Tata Institute of Fundamental Research, V.N. Purav Marg, Mankhurd, ,Mumbai- 400 088
E-mail : iatbsmum@gmail.com (Regd. : Maharashtra State, Mumbai, 2030 2010 (G.B.B.S.D.)

Other Academic Activities

1. Dr. (Mrs.) Pushpa Singh, Dr. Manas Kumar Dhal and Mr. Preetom Kumar Singh of Department of Zoology conducted an educational trip for enhancing hands on the skill of students of Zoology (Hons.) and Life Sciences on 'Sericulture' from 24th to 26th March, 2017 to Regional Sericulture Research Station, Sahaspur & Silkworm Seed Production Centre, Premnagar, Dehradun, Uttarakhand.
2. Educational visit to Institute of Pesticides Formulation Tecnology, Grurgram, Haryana :On 6th of April, 2017 Students of ALS 4th sem. for their SEC paper: Insect Toxicology under the Guidance of Teacher- Dr. Manas Kumar Dhal Educational Visit to FCI Mayapuri, New Delhi-64 nn 24th of April, 2017 Students of ALS 6th sem. for their Core paper-23: IPM Guidance of Teacher- Dr. Manas Kumar Dhal
3. An Educational visit to Haldwani, Nainital and Zim Carbet National Park from 8th October 2023 t0 12th October, 2023 as the part of the course curriculum of B. Sc. Life Sciences, B. Sc. (H) and B. Sc. ALS V semester students.

Cultural/Extracurricular Activities

Mess Secretary at Gwyer Hall Hostel (University of Delhi) in the year 2003 and after renovation of GH in the year 2007
Admin of Narela Satsang Upayujan Kendra (w.e.f. 2018)
President of Jai Jagannath Sewa Samiti (R) Narela, Delhi-110 040 (w.e.f. 2021)



Signature of Faculty Member