

Name : **Dr. T. RAMESH M.Sc., M.Phil., Ph.D., B.Ed.,**

Position : Assistant Professor of Zoology

Faculty of : PG & Research Department of Zoology, Vivekananda College

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Date of Birth : 25.05.1983

Languages Proficiency

Read : Tamil and English

Write : Tamil and English

Speak : Tamil and English

1. ACADEMIC QUALIFICATION

Sl.No	Degree / Diploma / Certificate	Discipline	Name of the Institution	Year of Passing
1.	Ph.D.	Zoology	Loyola College, Chennai	2014
2.	M.Phil.	Zoology	Thiagarajar College, Madurai	2007
3.	M.Sc	Zoology	Thiagarajar College, Madurai	2005
4.	B.Sc	Zoology	Vivekananda College, Tiruvedakam	2003
5.	Diploma	Sericulture	Vivekananda College, Tiruvedakam	2002
6.	Certificate	MS office & Internet	Vivekananda College, Tiruvedakam	2001

2. TEACHING EXPERIENCE

Sl.No	Institution	From	To
1.	Vivekananda College, Tiruvedakam	2015	Till

3. POSITION HELD IN VIVEKANANDA COLLEGE

Sl.No	Name of the Position	Duration
1	Assistant Professor of Zoology	2016 August- Till
2	Assistant Professor of Zoology (FDP)	2015 July-August 2016

4. POSITION HELD OUTSIDE

Sl.No	Name of the Position	Institute	Duration
1.	Academic Counsellor	IGNOU	2019-Till
2.	Research Associate	DAE-IGCAR	2014-2015
3.	Junior Research Fellow	IGCAR-Loyola collaborated various projects	2008-2012

4.	Project Fellow	Thiagarajar College, Madurai	2006-2007
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5. AREA OF SPECIALIZATION

- Terrestrial Ecology
- Biodiversity and Conservation
- Hydrobiology
- Environmental Impact Assessment

6. ORIENTATION / REFRESHER / TRAINING PROGRAMMES / FDP ATTENDED

Sl.No	Programmes	Theme	Organized By	Duration
1.	Refresher Course	Biological Science	Kannur University, Kannur, Kerala	05.01.2021-18.01.2021
2.	Short Term Course	Outcome Based Education	UGC-HRDC, Bharathidasan University, Trichy	05.08.2020-07.08.2020
3.	103 rd Orientation Program	-	UGC-HRDC, Bharathidasan University, Trichy	18.05.2018-14.06.2018
4.	Short term course	Electrophoresis Techniques	Biotech, Yercaud, Salem	29.01.2007-03.02.2007
5.	Hands on Training	Mapping the Bio resources with FOSS GIS software	Jamal Mohamed College, Trichy	19-12.2014-20.12.2014

7. SWAYAM / NPTEL Online Courses

Completed NPTEL online courses on **Wildlife Ecology** on December 2020 coordinated by **Prof. Ankur Awadhiya**, IIT, Kanpur sponsored by Ministry of Human Resource Development (MHRD), India.

8. Academic Counsellor

Recognized as a academic counsellor for the courses of Organic Farming and Sericulture by Indira Gandhi National Open University (IGNOU).

9. Resource Person

Acted as resources person for skill development course on “*Drosophila melanogaster* as a model” organized by Skill Development Centre, Bharathiar University. Coimbatore on 26.01.2021.

10. NATIONAL / INTERNATIONAL SEMINARS, WORKSHOPS, CONFERENCES & SYMPOSIUMS

Sl.No	Programmes	Sponsored By	Organized By	Date	Participated / Presented	Title of the Paper
1	Conference	Indian Biodiversity Congress (IBC-2017)	Pondicherry University	10-12 March, 2017	Presented	Implications of Institutional Bio-Diversity Assessment, Documentation and Conservation of Terrestrial Fauna.
2	Workshop	-	VVV College for Women	16 Feb, 2017	Participated	Immunological techniques
3	Seminar	-	MKU	14 Sep, 2017	Participated	Scuba Diving
4	Conference	DBT	American College	07-08 Dec, 2015	Participated	Community microbial consortia and the human holobiont- Implications of yet-unculturable microorganisms in systemic health, Disease & Personalized Medicine
5	Conference	JSPS & AERB	IGCAR	07-08 Aug, 2014	Participated	Advancements in materials, health and safety towards sustainable energy and environment
6	Conference	UNESCO	Loyola College	10-12 Oct, 2012	Presented	Inventory of Industrial biodiversity: a case study of Atomic Energy Campus, Kalpakkam
7	Conference	-	Mizoram University	2011	Presented	Perturbations and Regime Shift in an Aquatic Ecosystem Along with Adaptation of Biota Due to Climatic Extremes
8	Workshop	ISEE	Pachiyappa's College	03-05 June, 2011	Participated	Research publication: Applied multivariate statistical analysis using SPSS and AMOS
9	Program	Ocean Conservancy	INDMARFCB	19 Sep, 2010	Participated	International Coastal Cleanup
10	Workshop	Eppendorf, Chennai	Loyola College	12-13 Feb, 2009	Participated	Real Time PCR
11	Workshop	LIFE, Loyola College	Loyola College	02-13 Feb, 2009	Participated	Assay in Toxicology (WAt 2009) Biomarkers in Toxicology and Disease
12	Program	Ocean Conservancy	Indian Maritime Foundation	19 Sep, 2009	Participated	International Coastal Cleanup
13	Conference	-	Banaras hindu university	2009	Presented	Inventory and Conservation of Industrial Biodiversity: A Case Study at Department of Atomic Energy Campus, Kalpakkam (Tamil Nadu, India)
14	Conference	-	Indore	2008	Presented	Species assemblages of wetland birds at three different water bodies of DAE campus, Kalpakkam
15	Conference	-	(NSE-16), Hisa	2008	Presented	Biodiversity Assessment at Department of Atomic Energy (DAE) Campus, Kalpakkam
16	Workshop	WEBOLIM	Thiagarajar College	27-29.Jan, 2006	Participated	Personality Development Camp
17	Seminar	-	Vivekananda College	30 Feb, 2003	Participated	Medical Biotechnology
18	Seminar	-	Vivekananda College	25 Jan, 2002	Participated	Water Shed Management
19	NSS Program	Madurai Kamaraj University	Vivekananda College	09-18 May 2002	Participated	Youth For Water Resources Development

11. ARTICLES PUBLISHED IN JOURNALS / BOOKS

Sl.No	Journal Name	Title of the Article	Year	Vol. No.	Issue. No	Page No.	ISSN	Publisher
1.	Asian Journal of Conservation Biology	Abundance, Assemblage, Habitat Characteristics and Seasonal Diversity of Waterbirds at Kalpakkam, South East Coast of India	2020	9	1	156-166	2278-7666	TCRP Foundation
2.	Herpetology notes	Community Composition and Distribution of Herpetofauna at Kalpakkam Nuclear campus, Southern India	2013	6	-	343-351	2071-5773	Societas Europaea Herpetologica
3.	Environmental Engineering Research	Perturbations and Regime Shift in an Aquatic Ecosystem along with Adaptation of Biota Due to Climatic Extremes	2012	17	S1	S33-S39	1226-1025	Korean Society of Environmental Engineers
4.	Research in Zoology	A Note on Annual Bidirectional Movement of Butterflies at South-Eastern Plains of India	2012	2	2	1-6	2325-0038	Scientific & Academic Publishing
5.	Zoo's print	A checklist of birds of Department of Atomic Energy Campus, Kalpakkam, Tamil Nadu	2011	26	7	13-20	0973-2543	Zoo Outreach Organization
6.	Current Science	Natural disaster compels biota to adapt	2011	100	9	1273-1274	0011-3891	Indian Academy of Sciences
7.	Journal of Threatened Taxa	Seasonal dynamics of butterfly population in DAE Campus, Kalpakkam, Tamil Nadu, India	2011	3	1	1401-1414	0974-7893	Zoo Outreach Organization
8.	World Journal of Zoology	Diversity, Distribution and Species Composition of Ants fauna at Department of Atomic Energy (DAE) Campus Kalpakkam, South India	2010	5	1	56-65	1817-3098	International Digital Organization for Scientific Information
9.	International Journal of Biodiversity and Conservation	Patterns of diversity, abundance and habitat associations of butterfly communities in heterogeneous landscapes of the Department of Atomic Energy (DAE) campus at Kalpakkam, South India.	2010	2	4	75-85	2141-243X	Academic journals
10.	Halters	Diversity of the ground inhabiting ant fauna at Department of Atomic Energy campus, Kalpakkam (Tamil Nadu).	2009	1	1	1-9	0973-1555	Dr. Himender Bharti, Punjab University

Note: Total Citations- 162 (since 2010), h-index- 6, i10-index-5 (as on 23.04.2021)

12. EDITED BOOKS

Sl.No	Book Name	Year	Publisher	ISBN
1.	Environmental Studies	2017	Centre for Environmental Studies, Vivekananda College	978-93-86712-00-4.
2.	Terrestrial Faunal diversity of Department of Atomic Energy Campus Kalpakkam- Environmentalists Delight	2010	Indira Gandhi Centre for Atomic Research, Kalpakkam	-
3.	Terrestrial faunal diversity assessment at Department of Atomic Energy (DAE) Campus, Kalpakkam.	2008	Indira Gandhi Centre for Atomic Research, Kalpakkam	-

13. BOOK CHAPTER

Sl.No	Title of the chapter	Book title	Year	Vol. No.	Page No.	Publisher
1.	Seasonal population dynamics and migration of butterflies in coastal plains of Kalpakkam, Southern India	Animal Diversity Natural History and Conservation	2013	3		Daya publishing House, New Delhi

14. ORGANIZED WEBINAR

S.No	Title of Webinars	Name of Resource Person & Address	Date of the Programme
1	National level webinar on “Open Educational Resources for Learning from Home”	Dr. S. SENTHILNATHAN, Director, UGC-HRDC, Bharathidasan University, Tiruchirappalli.	07.09.2020
2	International level webinar on “Modern Trends in Infectious Diseases and Antibiotics”	Dr. S. PALANISAMY, Research Professor, Gangneung-Wonju National University, Republic of Korea. & Dr. Kannappan Arunachalam, Postdoctoral Researcher, Shanghai Jiao Tong University, China.	12.09.2020
3	International level webinar on “Challenges in the Control of Covid-19 (A Molecular Biological Approach)”.	Dr. S. SUDHAKAR, Professor, Department of Biotechnology, Manonmaniam Sundaranar University, Tirunelveli.	20.09.2020
4	National level webinar on “Principles and Applications of Regulatory Ecotoxicology”.	Dr. S. ANBUMANI, Senior Scientist, Ecotoxicology Laboratory, CSIR-Indian Institute of Toxicology Research (IITR), Lucknow.	30.09.2020
5	National level webinar on “Wildlife Conservation: Issues and Challenges”.	Dr. S. JAYAKUMAR, Assistant Professor of Zoology, A.V.C. College (Autonomous), Mayiladuthurai.	07.10.2020
6	Treatment of COVID-19 –An Ethnobotanical Perspective	Dr. S. SENTHIL NATHAN, Professor, Sri Paramakalyani Centre for Excellence in Environmental Sciences, Manonmaniam Sundaranar University, Tirunelveli.	14.10.2020
7	National level webinar on “An Introduction to Animal Health Economics”.	Dr. R. JOHN CHRISTY, Associate Professor, Division of Animal Husbandry, Annamalai University.	22.10.2020
8	National level webinar on “Zebrafish as a Model System in Biology: Molecular & Nanomedical Approach”.	Dr. R. RAJESH KANNAN, Associate Professor (Research) and Head, Sathyabama Institute of Science and Technology (Deemed to be University), Chennai	29.10.2020
9	National level webinar on “Entrepreneurial opportunities for graduates: Recent Innovations & Development”.	Dr. S. ARAVIND, Managing Director & CEO, Elies Biotech. Erode	17.11.2020

15. CONSULTANCY

- Cultivation and conditioning of Oyster mushroom (Hands on training)
- Environmental Impact Assessment (faunal and floral basis)
- Creation of Butterfly gardening & Environmental awareness aids
- Vermicomposting and preparation of Vermi wash.

16. Any Other

RESEARCH TECHNIQUES AND SKILLS

Biodiversity studies and baseline data gathering:

Collection of field data on fauna and water quality parameters. Data analysis Ecological modelling and preparation of report. Sampling techniques for biodiversity assessment on Terrestrial and wetland ecosystem and Alpha and Beta biodiversity assessment through statistical tools like BiodiversityPro, EstimateS and PAST software package. Prioritization of site section for conservation through root weight analysis and familiar with IUCN strategies.

Area of expertise:

i. Terrestrial faunal diversity and their Ecology

- Quantification technique (ecological censusing methods) of different faunal groups such as ants, butterflies, amphibian, reptiles, birds and mammals, and their identification.
- Spatial and seasonal assemblages of terrestrial fauna and their ecology
- Interaction between habitat (biotic and abiotic) parameters with animal occurrence and their abundance

ii. Biodiversity of freshwater ecosystem

- Waterbird taxonomy and their ecology
- Freshwater fish taxonomy
- Quantification of other habitat variables

iii. Biodiversity of terrestrial flora

- Floral taxonomy

Taxonomic studies:

Training undergone at Asian Lepidoptera Symposium and training program at Coimbatore in identifying the groups of Butterflies and Moths. Also well trained in the

identification of Ants, Butterflies, Herpetofauna, Birds and Mammals at Indira Gandhi Centre for Atomic Research, Kalpakkam. In addition training undergone at mapping the biological resource with GIS and FOSS software at Jamal Mohamed College in Trichy.

Toxicological studies:

LC 50 and LD 50 evaluation of mosquitoes and identification of repellent activity of plants.

Microscope handling:

Confidence in handling dissection/phase contrast microscopes and general maintenance.

Biochemical studies:

- Electrophoresis (SDS & Agarose gel electrophoresis)
- Comet assay

Digital Photography:

Wildlife and Scientific Photography and digital enhancement through Adobe Photoshop.

Computer skills:

MS-office (Power point, MS-excel, MS-word), Ecological Modelling, Mapping the Biological resource with GIS, Google Map and FOSS software, Adobe Photoshop

SPECIAL REMARKS

- Awarded Assistant Professor of Zoology (FDP)
- Awarded Research Associateship by Indira Gandhi Centre for Atomic Research
- Junior Research fellowship from Loyola college funded by Indira Gandhi Centre for Atomic Research, Kalpakkam
- Published books on biodiversity & campus fauna of nuclear complex of Kalpakkam
- Coordinated various biodiversity projects at Kalpakkam funded by Indira Gandhi Centre for Atomic Research, Kalpakkam