

Government Arts college (Autonomous), Coimbatore – 18
Performance - Teacher Appraisal Report

i) General Information

- a) Name: **Sheela Priyadarshinee**
- b) Address (Residential): “Amazing Grace” Mobile No.: 9787614187
 No. 39, MGR Nagar, Krishna Colony,
 Singanallur, Coimbatore – 641 005.
- c) Designation: Associate Professor & Head
- d) Department: PG & Research Department of Zoology,
 Government Arts College, Coimbatore.
- e) Date of Birth: 23.12.1973
- f) Area of Specialization: Ecotoxicology



A) Academic Qualifications

Exam Passed	Subjects	Board/ University	Year	Division/ Grade/ Merit, etc.
High School	English, Hindi, Maths, Science, History, Geography	Matriculation	1989	First Class
Higher Secondary or Pre-degree	English, Hindi, Physics, Chemistry, Botany, Zoology	HSE	1991	First Class
Bachelor's Degree	Zoology	Bharathiar University	1994	First Class
Master's Degree	Zoology	Bharathiar University	1996	First Class
Research Degree	M.Phil. Zoology	Bharathiar University	1997	Highly Commended
	Ph. D. Zoology	Bharathiar University	Submitted 10.07.2023	Awaiting Viva

Other Diploma/ Certificates etc.	SLET	Bharathidasan University	1997	Qualified

ii) Research Experience & Training

Research Stage	Title of work / Thesis	University where the work was carried out
M. Phil. or Equivalent	Effect of Diclofenac Sodium on the Histological Profiles of Pancreas, Adrenal and Thyroid and their Hormones in Male Albino Rats	Bharathiar University
Ph. D.	Emerging contaminants in water: a multi-biomarker approach to assess the toxicity of a non-steroidal anti-inflammatory drug (NSAID) naproxen in an Indian major carp (<i>Labeo rohita</i>)	Bharathiar University
Post-Doctoral		
Publications (give a list separately)		
Research Guidance (give names of students guided successfully)	List attached (Annexure I)	
Training (please specify)		

B) Research Projects carried out

S. No.	Title of the Project	Name of the Funding Agency	Duration	Remarks

C) Seminars, Conferences, Symposia Workshops etc. attended *(If necessary give a separate list)*

Name of the Seminars / Conferences / Symposia / Workshops etc	Name of the Sponsoring Agency	Place and Date
ANNEXURE III		

iii) Teaching Experience

	Courses Taught	Name of the college	Duration
(i)	UG (B.Sc. Zoology)	Govt. Arts College, Udhagamandalam.	21.10.98 – 04.07.2000
			05.07.2000 – 16.06.2003
		LRG Govt. Arts Colleage, Tirupur	17.06.2003 – till date
(ii)	PG (M.Sc. Zoology)	Govt. Arts College, Coimbatore	17.06.2003 – till date
(iii)	M.Phil	Govt. Arts College, Coimbatore	2004 – till date
(iv)	Any other	-	-

Total Teaching Experience (in years and months) :

a) Under-graduate (Pass) : 24 Years 10 Months

b) Under-graduate (Hons.) : NA

c) Post-graduate : 20 Years

viii) Innovations/ Contributions in Teaching *(If necessary give a separate list)*

a) Design of Curriculum :	Syllabus reconstruction with reference to the curriculum of leading Universities and colleges
b) Teaching methods :	Modified lecture method, Discussion, Seminar and

	Assignment method
c) Laboratory experiments :	Individual experiments
d) Evaluation methods :	Questioning, Probing, Conducting Tests, Seminars, Assignments
e) Preparation of resource material including books, reading materials, laboratory manuals etc.:	Material prepared for Tamil medium classes, Laboratory material prepared
f) Remedial Teaching / Student Counseling (academic) :	Slow learners – paid special attention, confidence building, counseling sessions part of Tutorial System
g) Any other :	

ix) Extension Work/ Community Service *(If necessary give a separate list)*

a) Please give a short account of your contribution to:

i) Community work such as values of National Integration, secularism, democracy, socialism, humanism, peace, scientific temper, flood or drought relief, small family norms etc.

ii) National Literacy Mission

b) Positions held / leadership role played in organizations linked with Extension Work National Service Scheme (NSS), or NCC or any other similar activity

D. Participation in Corporate Life

Please give a short account your contribution to:

a) College/ University / Institution	Part of the team that works for the academic and social growth of the students
b) Co-curricular Activities	
c) Enrichment of Campus Life (Hostels, sports, games, cultural activities)	Helped organize Wildlife Week in inter-departmental competitions
d) Students Welfare and Discipline	
e) Membership / Participation in Bodies / Committees on Education and National Development	Life member of the Indian Science Congress

f) Professional Organization of Teachers	
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E.

(a) Membership of Professional Bodies, Societies etc.

(b) Editorship of Journals

F. Any other information

SHEELA PRIYADARSHINEE

(Signature of the Teacher)

ANNEXURE I

LIST OF M.Phil. STUDENTS GUIDED

1. Sreenithya A.S. (Reg. No. 2004R189)

Effect of continuous light exposure without and with melatonin supplementation on the histological profile of ovary and the serum levels of LH, FSH, Estradiol and Progesterone during the various stages of estrous cycle in albino rats.

2. Dayana D. (Reg. No. 2005R080)

Evaluation of maternal and developmental toxicity in albino rats exposed to continuous light without and with melatonin supplementation during the gestation period.

3. Sumathi D. (Reg. No. 2006R303)

Clinical, Haematological, Biochemical and Cytogenetic characteristics of a select Type I Diabetes mellitus affected human population: A holistic approach.

4. Gayatri K. (Reg. No. 2006R302)

Type II Diabetes mellitus: Evaluation of Clinical, Haematological, Biochemical and Cytogenetic parameters in a select human population.

5. Shakila K. (Reg. No. 2008R348)

Association between XRCC1 gene polymorphisms and DNA damage in peripheral blood lymphocytes of PVC industry workers occupationally exposed to vinyl chloride monomer.

6. Senthilkumar R. (Reg. No. 2009R1284)

Association between XRCC1, Exon 10, Codon 399 gene polymorphisms and DNA damage in peripheral blood lymphocytes of cement factory workers.

7. Kalaivani K. (Reg. No. 2009R1281)

Association between XRCC1 gene polymorphisms and DNA damage in peripheral blood lymphocytes of asbestos industry workers occupationally exposed to asbestos fibres.

8. Vibin Kumar N. (Reg. No. 2010R)

Association between XRCC1 gene polymorphisms and DNA damage in peripheral blood lymphocytes of professional bus drivers occupationally exposed to vehicular exhaust.

9. Gayathri A. (Reg. No. 2011R444)

Prevalence of consanguineous marriages among the Irulas and its effect on pregnancy outcome, presence of congenital malformations and occurrence of chromosomal alterations.

10. Sasikala K.P. (Reg. No. 2013R334)

A study on the habitat characteristics that influence the abundance and diversity of land leeches in select tea plantation sites and tea plantation-forest ecotone sites at Gudalur (Nilgiri Hills) and Valparai (Anaimalai Hills).

11. Ponmani A. (Reg. No. 2015R379)

Biochemical alterations, histopathological changes and DNA damage as biomarkers of Monocrotophos and Chlorpyrifos toxicity in the earthworm- *Eudrilus eugeniae*

12. Shamili N. (Reg. No. 2016PR0148)

Effect of the dietary prebiotic (*Lactobacillus acidophilus*) and the peobiotic (β – Glucan) on Certain Growth, Haematological and Biochemical Parameters in the Fresh Water Fish (*Anabas testudineus*) Fingerlings

13. Sumitha K. (Reg. No. 2017PR0169)

Effect of the dietary probiotic (*Saccharomyces cerevisiae*) and the prebiotic (Mannan - oligosaccharide) on certain growth, haematological and biochemical parameters in the fresh water fish (*Anabas testudineus*) fingerlings.

14. J. Mercy (2019RO137)

Mefenamic acid-induced oxidative stress, biochemical changes and histological alterations in the gill and liver of *Anabas testudineus*.

ANNEXURE II

Publications

Priyadarshinee, Sheela & Umamaheswari, Sathisaran & Ramesh, Mathan. (2023). Non-steroidal Anti-inflammatory Drug (NSAID) Naproxen-Induced Hepatotoxicity in a Freshwater Fish *Labeo rohita*. *Water, Air, & Soil Pollution*. 234. doi:10.1007/s11270-022-06045-2.

Umamaheswari Sathisaran, Priyadarshinee Sheela, Bhattacharjee Monojit, Kadirvelu Krishna, Ramesh Mathan. Exposure to polystyrene microplastics induced gene modulated biological responses in zebrafish (*Danio rerio*). *Chemosphere*. 2021; 281:128592. doi:10.1016/j.chemosphere.2020.128592

Umamaheswari, Sathisaran & Priyadarshinee, Sheela & Kadirvelu, K. & Ramesh, Mathan. (2021). Polystyrene microplastics induce apoptosis via ROS-mediated p53 signaling pathway in zebrafish. *Chemico-Biological Interactions*. 345. 109550. doi :10.1016/j.cbi.2021.109550

Mohan, B.; Priyadarshinee, S.; Kalpana, R.; Bhavan, P.S.; Manickam, N.; Santhanam, P.; Prabha, D. Impact of seasonal changes in freshwater phytoplankton and zooplankton biodiversity at Valankulam lake, Coimbatore district, Tamil Nadu, India. *Journal of Applied Life Sciences and Environment* **2022**, 55 (3), 271-292. <https://doi.org/10.46909/alse-552063>

Mohan, Bala & Duraisamy, Prabha & Priyadarshinee, Sheela. (2023). New Record of Some Phacus Species (Euglenophyceae) from Ukkadam Lake, Coimbatore City, Tamil Nadu, India. *Biology Bulletin*. 49. S98-S103. doi:10.1134/S1062359022150158.

Bala Mohan and Sheela Priyadarshinee. A study on the diversity and community structure of freshwater zooplankton and Ichthyofaunal in Kumaraswamy Lake, Coimbatore district, Tamil Nadu, India. *Journal of Materials and Environmental Science* **2022**, 13(11). 1327-1338.

Mohan, Bala & Prabha, Duraiswamy & Priyadarshinee, Sheela. (2023). First identification of the microcystins – producing cyanobacterium *Microcystis flos-aquae* and *Microcystis wesenbergi* in Valankulam lake, Coimbatore district, Tamil Nadu, India. *Sustainability, Agri, Food and Environmental Research*. 11. doi:10.7770/safer-V13N1-art334.

Mohan, Bala & Priyadarshinee, Sheela. (2023). Phytoplankton as bio indicators of water quality in two perennial lakes of Coimbatore district, Tamil Nadu, India. *International Journal of Entomology Research*. 8. 10-17.

Mohan, B., Prabha, D. & Priyadarshinee, S. First Record of Freshwater *Plumatella emarginata* and *Plumatella geimermassardi* (Bryozoa: Plumatellidae) from Valankulam Lake, Coimbatore City, Tamil Nadu, India. *Inland Water Biol* **17**, 223–228 (2024). <https://doi.org/10.1134/S1995082924020111>

ANNEXURE III

Name of the Seminars / Conferences / Symposia / Workshop, etc	Name of the Sponsoring Agency	Place and Date
National Level Seminar on “Edge of existence and Human Wildlife Conflict”	Department of Zoology	Government Arts College, Coimbatore. 28.02.2023

PAPER PRESENTED

Presented a paper titled, “ “, at the DST-PURSE Satellite Symposium (Life Sciences), Bharathiar University. 13th- 15th September 2022.