



Name : Dr SASIKALA G
Designation : Assistant Professor
Department : Department of Zoology
Qualification : PhD
Experience : Teaching for 13 Years
Research : 18 Years
Area of Specialization(s) : Pollution biology,
 toxicity
Email (Official ID) :
 gsasikala@psgrkcw.ac.in

Academic Qualifications

Degree	Branch	Institution/University Name	Year of Graduation
Ph.D.	Zoology	Government Arts College (Autonomous), Coimbatore	2008
M.Phil.	Zoology	Government Arts College (Autonomous), Coimbatore	2002
M. Sc.	Zoology	Government Arts College (Autonomous), Coimbatore	1999
B.Sc.	Zoology	PSGR Krishnammal College for Women	1997

Additional Qualifications

Diploma/ Vocational/ Certification	Area of Specialization	Institution/University/Agency Name	Year
Post Graduate Diploma in Psychological Counselling	Psychological Counselling	Tamil Nadu Open University	2016

Research Publications (Indexed)

1. Alis Rega S and G. Sasikala (2024) A Study On The Pharmacological Effects Of A Flavonoid-Rich Costus Igneus And Trigonella Foenum-Graecum Foliage On A Diet-Induced Obese Zebrafish (*Danio rerio*). *Journal of Advanced Zoology*, 45(2), 514-522, <https://doi.org/10.53555/jaz.v45i2.3916>
2. V Veena, G Sasikala and Selvaraju Raja 2023. Occurrence of South American sucker armoured catfish (*Pterygoplichthys pardalis*) in the Gayatriputzha River, Palakkad, Kerala. *International Journal of Fisheries and Aquatic Studies*, 11(2), 08-17.
3. Rojmadhuvanthi, C. and Sasikala, G. 2019. Effect of Accumulation of Heavy Metals in the Biochemical Profile of Tuticorin Marine Fishes. *International Journal of Research and Analytical Reviews*, Volume 6, No: 2, 627-633.
http://www.ijrar.org/viewfull.php?&p_id=IJRAR19K6796
4. Palanisamy, P., Sasikala, G., Mallikaraj, D., Bhuvaneshwari, N., and Natarajan, G.M. Activity levels of phosphatases of the air-breathing catfish *Mystuscavasius* exposed to electroplating industrial effluent chromium. *Biol. Med.*, 4(2), 2012, 60 - 64.
http://www.biolmedonline.com/Articles/Vol4_2_2012/Vol4_2_60-64_AR73-BM11.pdf
5. Palanisamy, P., Sasikala, G., Mallikaraj, D., and Natarajan, G.M. Study of behavioural response of air-breathing catfish *Mystuscavasius* (Hamilton) exposed to electroplating industrial effluent chromium. *Int. J. Pharm. Sci. Res.*, 2011, 2, 1790 – 1792. (Impact factor: [Projected Impact Factor \(2012\): 1.89](#), ICV 2012: 5.50, 2011: 5.07, 2010: 4.57)
<http://ijpsr.com/bft-article/study-of-behavioural-response-of-air-breathing-catfish-mystus-cavasius-hamilton-exposed-to-electroplating-industrial-effluent-chromium/?view=fulltext>
6. Palanisamy, P., Sasikala, G., Mallikaraj, D., Bhuvaneshwari, N., and Natarajan, G.M. Stress induced non-specific immune response model in the exotic fish, *Osphronemus olfax*. *Int. J. Curr. Res.*, 2011, 3, 014 – 017. (Impact factor: Not available)
<http://journalcra.com/sites/default/files/issue-pdf/630.pdf>
7. Sasikala, G., Palanisamy, P., Mallikaraj, D., Bhuvaneshwari, N., and Natarajan, G.M. Metasystox induced haematological modulation in the South Indian Snakeheaded *Channa striata*. *Int. J. Pharm. Biol. Arch.*, 2011, 2(2), 775 – 777. (Impact factor: 0.67, **ICV Value is 4.63**)
<https://www.ijpba.info/ijpba/index.php/ijpba/article/view/252>
8. Sasikala, G., Palanisamy, P., Mallikaraj, D., Bhuvaneshwari, N., and Natarajan, G.M. Biochemical modulations induced by metasystox in fresh water snakeheaded fish *Channa striata* blood. *Int. J. Pharm. Biol. Arch.*, 2011, 2(2), 772 – 774. (Impact factor: 0.67, **ICV Value is 4.63**)
<http://www.ijpba.info/ijpba/index.php/ijpba/article/view/251/183>
9. Palanisamy, P., Sasikala, G., Mallikaraj, D., Bhuvaneshwari, N., and Natarajan, G.M. Haematological changes of fresh water food fish, *Channa striata* on exposure to *Cleistanthus collinus* suicidal plant extract. *Res. J. Pharm. Biol. Chem. Sci.*, 2011, 2(2), 812 – 816. (Impact factor: 0.35, **ICV Value is 4.62**)
[https://www.rjpbcs.com/pdf/2011_2\(2\)/100.pdf](https://www.rjpbcs.com/pdf/2011_2(2)/100.pdf)
10. Palanisamy, P., Sasikala, G., Mallikaraj, D., Bhuvaneshwari, N., and Natarajan, G.M. Changes in protein content in the muscle of *Mystuscavasius* (Ham.) exposed to electroplating industrial effluent chromium. *Int. J. Pharm. Biol. Arch.*, 2011, 2(2), 669 – 672. (Impact factor: 0.67, **ICV Value is 4.63**)
<http://www.ijpba.info/ijpba/index.php/ijpba/article/view/225/159>
11. Palanisamy, P., Mallikaraj, D., Sasikala, G., Bhuvaneshwari, N., and Natarajan, G.M. Effect of electroplating industrial effluent chromium on bimodal respiratory rhythm of the air-breathing cat fish *Mystuscavasius* (Ham.). *Int. J. Pharm. Biol. Arch.*, 2011, 2(2), 664 – 668. (Impact factor: 0.67, **ICV Value is 4.63**)
<http://www.ijpba.info/ijpba/index.php/ijpba/article/view/224/158>

12. Palanisamy, P., Mallikaraj, D., Sasikala, G., and Natarajan, G.M. Acetylcholine esterase, acetylcholine, succinic dehydrogenase and lactic dehydrogenase changes in the fresh water food fish *Channa striata* after exposure to *Cleistanthus collinus* suicidal plant extract. *Int. J. Pharm. Sci. Rev. Res.*, 2011, 9(1), 100 - 103. (Impact factor: 1.704)
<http://globalresearchonline.net/journalcontents/volume9issue1/Article-017.pdf>
13. Palanisamy, P., Mallikaraj, D., Sasikala, G., and Natarajan, G.M. Electroplating industry effluent induced modulation of aminotransferase activity in the freshwater teleost fish *Mystus cavasius*. *Int. J. Pharm. Biol. Arch.*, 2011, 2, 702 – 704. (Impact factor: 0.67, **ICV Value is 4.63**)
<http://www.ijpba.info/ijpba/index.php/ijpba/article/view/230/164>
14. Palanisamy, P., Sasikala, G., Mallikaraj, D., Bhuvaneshwari, N., and Natarajan, G.M. Electroplating industrial effluent chromium induced changes in carbohydrate metabolism in an air-breathing cat fish *Mystus cavasius*. *Asian J. Exp. Biol. Sci.*, 2011, 2(3), 521 - 524. (Impact factor: Not available)
<https://www.ajebs.com/vol7.html>
15. Palanisamy, P., Sasikala, G., Mallikaraj, D., Bhuvaneshwari, N., and Natarajan, G.M. Histopathological lesions in gill of air-breathing cat fish *Mystus cavasius* exposed to electroplating industrial effluent nickel. *Int. J. Appl. Biol. Pharm. Technol.*, 2011, 2(2), 150 - 155. (Impact factor: Global Impact Factor: 0.502 (2012)). [http://www.ijabpt.com/pdf/24023-Palanisamy\[1\].pdf](http://www.ijabpt.com/pdf/24023-Palanisamy[1].pdf)
16. Mallikaraj, D.; Palanisamy, P.; Sasikala, G.; Natarajan, G.M. The survival out of water and evaporative water loss in *Anguilla bengalensis* related to relative humidity. *Int. J. Pharm. Biol. Arch.*, 2011, 2, 805 - 807. (Impact factor: 0.67, **ICV Value is 4.63**)
<http://www.ijpba.info/ijpba/index.php/ijpba/article/view/256/187>
17. Natarajan, G.M., Kalavathi, D., Esther Joice, P., Palanisamy, P., Sasikala, G., Bhuvaneshwari, N., and Binukumari, S. Studies on pesticide disrupted ovarian physiology and biochemistry of *Channa striata*. *Indian. J. Environ. & Ecoplan.* 2005, 10, 93 – 96. (Impact factor: Not available)
18. Natarajan, G.M., Devika, R., Esther Joice, P., Palanisamy, P., Bhuvaneshwari, N., Sasikala, G., and Binukumari, S. Environment induced changes in the bimodal gas exchange and haematology of facultative air-breathing fish, *Mystus punctatus* (Jerdon). *Indian. J. Environ. & Ecoplan.* 2005, 10 (1), 191 – 194. (Impact factor: Not available)
19. Esther Joice, P., Natarajan, G.M., Palanisamy, P., Sasikala, G., Bhuvaneshwari, N., Mallikaraj, D., and Jacintha, S. Brain ascorbic acid changes in *Clarias gariepinus* during air-exposure and submergence stresses. *Proc. Natl. Seminar. Rural Biotech Sust. Develop.*, Gandhigram Rural University, Dindigul, 2005, 146 – 148. (Impact factor: Not available)
20. Esther Joice, P., Natarajan, G.M., Palanisamy, P., Sasikala, G., Bhuvaneshwari, N., Mallikaraj, D., and Jacintha, S. *Clarias gariepinus* culture – An Environmental Threat to our indigenous species. *Proc. Natl. Seminar. Rural Biotech Sust. Develop.*, Gandhigram Rural University, Dindigul, 2005, 152 – 154. (Impact factor: Not available)
21. Sasikala, G., Natarajan, G.M., Esther Joice, P., Bhuvaneshwari, N., Jacintha, S., Palanisamy, P., and Binukumari, S. Raw sewage induced biochemical changes in the liver of edible fish, *Channa striata*. *Proc. Natl. Seminar Rural Biotech Sust. Develop.*, Gandhigram Rural University, Dindigul, 2005. 155 – 157. (Impact factor: Not available)
22. Esther Joice, P., Mallikaraj, D., Parthi, N., Natarajan, G.M., Sasikala, G., Tamilselvi, G., and Kasthuri, M. The effects of hypoxic stress on the bimodal respiration of *Macropodus cupanus*. *J. Ecol. Res. Biocon.* 2001, 2, 76 - 80. (Impact factor: Not available)
23. Mallikaraj, D., Esther Joice, P., Parthi, N., Natarajan, G.M., Sasikala, G., Tamilselvi, G., and Kasthuri, M. On the aestivation of *Macropodus cupanus*. *J. Ecol. Res. Biocon.* 2002, 3, 32 – 33. (Impact factor: Not available)

NATIONAL SEMINARS AND SYMPOSIA ABSTRACTS

- I. *Current Trends in Biological Sciences organized by the Department of Biochemistry and Biotechnology, Avinashilingam Deemed University, Coimbatore – 641 043. 12th and 13th December, 2002.*
1. Vijayalakshmi, P., Parthi, N., Natarajan, G.M., Mallikaraj, D., Esther Joice, P., Jacintha, S., Bhuvaneshwari, N., Sasikala, G., and Palanisamy, P. Nitrogen excretion in the featherback, *Notopterus notopterus* (Pallas). AS – 4, 2002, p 38.
 2. Natarajan, G.M., Parthi, N., Esther Joice, P., Mallikaraj, D., Jacintha, S., Bhuvaneshwari, N., Sasikala, G., and Palanisamy, P. On the function of labyrinthine organ of *Macropodus cupanus*. AS – 5, 2002, p 38.
 3. Natarajan, G.M., Parthi, N., Santhi, P., Krishna Kumar, N., Palanisamy, P., Bhuvaneshwari, N., Sasikala, G., Rajamamannan, M.A., and Parimala, K. First report on the environmental reconstruction of Devonian period Coimbatore city as revealed by the first plant fossil finding. ES – 3, 2002, p 67.
- II. *National Seminar on Pollution Management strategies and Environment Protection organized by the Department of Chemistry, Nirmala College for Women, Coimbatore – 641 018. 10th October, 2003.*
4. Santhi, P., Bhuvaneshwari, N., Mallikaraj, D., Krishna Kumar, N., Palanisamy, P., Natarajan, G.M., and Sasikala, G. Environmental Impact Assessment – the role of perilous exotic weed, *Prosopis julifera* on the flora and fauna of Coimbatore district. 2003, p 24 – 25.
- III. *National Symposium on Molecular Genetics organized by the Department of Biotechnology, P.S.G. College of Technology, Coimbatore – 641 004. 15th - 16th February, 2004.*
5. Devika, R., Natarajan, G.M., Parthi, N., Esther Joice, P., Jacintha, S., Parimala, K., and Sasikala, G. Environment induced changes in the bimodal gas exchange and haematology of facultative air-breathing fish, *Mystus punctatus*. Abs. 2002, p.14.
 6. Sasikala, G., Natarajan, G.M., Parthi, N., Esther Joice, P., Jacintha, S., and Tamilselvi, G. Metasystox induced molecular immunological modulations in the South-Indian edible fish, *Channa striata*. Abs. 2002, p. 25.
 7. Jacintha, S., Natarajan, G.M., Esther Joice, P., Parthi, N., Sasikala, G., and Tamilselvi, G. Design of an air-exposure and submergence stress non-specific immune response model in the exotic fish, *Osphronemus olfax*. Abs. 2002, p. 25.
 8. Esther Joice, P., Jacintha, S., Parthi, N., Sasikala, G., Tamilselvi, G., and Natarajan, G.M. Molecular defense strategies in *Clarias* during air-exposure and submergence stress. Abs. 2002, p 26.
 9. Natarajan, G.M., Kalavathi, D., Parthi, N., Esther Joice, P., Jacintha, S., Sasikala, G., Parimala, P., and Mamannan, M.A.R. Pesticide disrupted ovarian physiology and biochemistry of *Channa striata*. Abs. 2002, p 28.

10. Parthi, N., Sasikala, G., and Natarajan, G.M. Stress induced molecular and biochemical mechanisms in the air-breathing eel and their potential use for live fish storage and transportation. Abs. 2002, p 28.

IV. *National Seminar on Rural Biotechnology and Sustainable Development organized by the Department of Biology, Gandhigram Rural University, Dindigul. 19th - 20th February, 2004.*

11. Natarajan, G.M., Bhuvaneshwari, N., Palanisamy, P., Esther Joice, P., Sasikala, G., and Mallikaraj, D. Fish mucus – an ideal adhesive for building construction. O2 – 51, 2004, p 38 – 39.

12. Bhuvaneshwari, N., Natarajan, G.M., Palanisamy, P., Sasikala, G., and Mallikaraj, D. Biodiversity of Western Ghats of Velliangiri hills – Survey of tribal medicinal plants. O2 – 61, 2004, p 45 – 46.

13. Natarajan, G.M., Palanisamy, P., Bhuvaneshwari, N., Esther Joice, P., Mallikaraj, D., Jacintha, S., Sasikala, G., Krishna Kumar, N., and Santhi, P. Biopharmacological effects of leaf extracts of some commonly available Indian plants. O2-772004, p 55.

14. Sasikala, G., Natarajan, G.M., Esther Joice, P., Bhuvaneshwari, N., Jacintha, S., Palanisamy, P., Krishna Kumar, N., and Santhi, P. Raw sewage induced biochemical changes in the liver of edible fish, *Channa striata*. O3 -103, 2004, p 70.

15. Esther Joice, P., Jacintha, S., Bhuvaneshwari, N., Palanisamy, P., Sasikala, G., Mallikaraj, D., and Natarajan, G.M. Brain ascorbic acid changes in *Clarias gariepinus* during air-exposure and submergence stresses. O3- 110, 2004, p 74.

16. Natarajan, G.M., Palanisamy, P., Bhuvaneshwari, N., Jacintha, S., Esther Joice, P., Sasikala, G., and Mallikaraj, D. Environmental Impact Assessment – the depletion of eco-friendly donkeys in Coimbatore district. O3 – 112, 2004, p 75 – 76.

17. Esther Joice, P., Natarajan, G.M., Jacintha, S., Bhuvaneshwari, N., Palanisamy, P., Mallikaraj, D., and Sasikala, G. Induction of hepatic microsomal 7-ethoxy resorufin O-diethylase (EROD) during lignan lactone cleistanthin administration in *Clarias gariepinus*. O4 – 123, 2004, p 84.

18. Jacintha, S., Sasikala, G., Esther Joice, P., Mallikaraj, D., Palanisamy, P., Bhuvaneshwari, N., and Natarajan, G.M. Brain inhibition of serotonin (5-Ht) content in *Trichogaster pectoralis* following steel factory effluent exposure. O4 – 136, 2004, p 91 – 92.

19. Bhuvaneshwari, N., Esther Joice, P., Jacintha, S., Palanisamy, P., Mallikaraj, D., Sasikala, G., and Natarajan, G.M. Impact of cement factory effluent on the acetylcholinesterase and acetylcholine content of vital organs of *Channa striata*. O4 – 138, 2004, p 93.

20. Palanisamy, P., Bhuvaneshwari, N., Sasikala, G., Jacintha, S., Esther Joice, P., Mallikaraj, D., and Natarajan, G. M. Electroplating industry waste water induced modulation of aminotransferase activity in the freshwater teleost, *Channa punctata*. O4 – 145, 2004, p 98.

International conference on Environment and Ecology held at Bharathiar University, Coimbatore, between 7-9 March, 2016

1. Sasikala, G., Palanisamy, P., and Alis Rega. Sewage induced changes in the respiratory physiology of fish, *Pangasius pangasius*. Oral presentation at International conference on Environment and Ecology held at Bharathiar University, Coimbatore, between 7-9 March, 2016.

2. Sasikala, G., Radha, R., and Alis Rega. Studies on the relationship between the water quality parameters and fish production in selected lakes of Coimbatore. Oral presentation at International conference on Environment and Ecology held at Bharathiar University, Coimbatore, between 7-9 March, 2016.

V. *Ministry of Environment, Forest and Climate change sponsored and organized by Freshwater Biology Regional Centre, Zoological Survey of India, Hyderabad-National conference on Current Status of Freshwater Faunal Diversity in India held on 26th and 27th May, 2017.*

21. Sasikala, G., AlisRega, S., Palanisamy, P. Effect of water pollution on biochemical parameters of *Oreochromismossambicus* of Singanallur and Ukkadam lakes of Coimbatore district, a part of southern Western Ghats region, Tamil Nadu, South India, a Poster presentation at *National conference on Current Status of Freshwater Faunal Diversity in India held at Freshwater Biology Regional Centre, Zoological Survey of India, Hyderabad-500048, 26th and 27th May, 2017.*

VI. *Ministry of Environment, Forest and Climate change, DST-SERB, NBA sponsored International Conference.*

22. Sasikala, G., Sreesha. G., Veena, V., Sreyasa, R., Mahaalakshmi, A., Diviya, V.T., Indhu, N., Keerthika, A., Nivetha, B., and Subheeksha, G. "Reuse of fish scales into products", a oral presentation at Recent Innovations in Biosustainability and Environmental Research-2019 (DST-SERB, MoEF& CC, NBA SPONSORED International Conference) at Department of Zoology, Annamalai University, Tamil Nadu, India from 20th to 22nd of February 2019.

VII *10th Student Conference on Conservation Science, Indian Institute of Science, Bengaluru.*

23. G. Sreesha, V.K. Anoop, G. Sasikala and Rajeev Raghavan. Fishes of Vayal Nadu: Ichthyodiversity and conservation challenges in a poorly known region of the Western Ghats. A poster presentation at 10th Student Conference on Conservation Science (SCCS) – Bengaluru from 15th to 18th of October 2019.

VIII *International Conference on Aquatic resources and Blue Economy-2019, Kerala University of Fisheries and Ocean Studies, Kochi.*

24. G. Sreesha, V. K. Anoop, Rajeev Raghavan, G. Sasikala. Why do you neglect, if you truly know the beauty? A oral presentation at International Conference on Aquatic resources and Blue Economy-2019, Kerala University of Fisheries and Ocean Studies, Kochi from 28th to 30th of November 2019.

IX *International Conference on Recent Biotechnological Innovation in Aquaculture (RBIA) (LIVE AQUA 2020), Unit of Aquatic Biotechnology and Live feed Culture, Department of Zoology, School of Life Sciences, Bharathiar University, Coimbatore.*

25. G. Sreesha, V.K. Anoop, Rajeev Raghavan, Neelesh Dahanukar and G. Sasikala. Identity and distribution of *Aplocheilichthys parvus*, a poorly-known fish from Southern India. An oral presentation at International Conference on Recent Biotechnological Innovation in Aquaculture (RBIA) (LIVE AQUA 2020), Unit of Aquatic Biotechnology and Live feed

Culture, Department of Zoology, School of Life Sciences, Bharathiar University, Coimbatore from 27th to 28th of February 2020.

- X *International Conference on Recent Trends in Aquaculture (ICRTA-2022), Department of Zoology, St. Xavier's College (Autonomous), Palayamkottai, Tamil Nadu, India.*
26. V. Veena, G. Sasikala and Selvaraju Raja. Occurrence of the Amazon Sailfin Catfish *Pterygoplichthys Pardalis* (Siluriformes: Loricariidae), an Alien Aquarium Fish Invasion in Kerala Waters - A Case Study. An oral presentation at International Conference on Recent Trends in Aquaculture (ICRTA-2022), Department of Zoology, St. Xavier's College (Autonomous), Palayamkottai on 25th March, 2022.
- XI *National Conference on Recent Progress in Bioprospecting – Derived Therapeutic products, Department of Zoology, St. Xavier's College (Autonomous), Palayamkottai, Tamil Nadu, India.*
26. G. Sasikala and S. Alis Rega. A Study on The Diabetes Induced Modulations in Zebrafish (*Danio rerio*), an Antidiabetic Vertebrate Model. An oral presentation at National Conference on Recent Progress in Bioprospecting – Derived Therapeutic products, Department of Zoology, St. Xavier's College (Autonomous), Palayamkottai on 12 and 13 January, 2023
- XII *National conference on interdisciplinary academical translational research and innovation, M.E.S. Asmabi College, Kerala, India.*
27. V. Veena, G. Sasikala and Selvaraju Raja. Freshwater Fish Diversity in Bharathapuzha River, Kerala. An oral presentation at National conference on interdisciplinary academical translational research and innovation, M.E.S. Asmabi College, Kerala, India on 07 and 08 February, 2023
- XIII *International conference on future perspectives of Bioresources and nanosciences (FPBN - 2023), Department of Botany, School of Life Sciences, Periyar University, Salem, Tamil Nadu, India.*
28. G. Sasikala and S. Alis Rega. Zebrafish (*Danio rerio*), an Antidiabetic vertebrate model for Metabolic Syndrome - Obesity and Diabetes. An oral presentation at International conference on future perspectives of Bioresources and nanosciences (FPBN - 2023), Department of Botany, School of Life Sciences, Periyar University, Salem, Tamil Nadu, India on 16 and 17 February, 2023

Articles/Books Published /Chapters contributed

1. A hand book for Research Project Proposals published by PSGR Krishnammal College for Women, Coimbatore – 641 004.
2. There's somethin'fishy' about this jewellery in the Indian express on 26.08.2019 <http://epaper.newindianexpress.com/m5/2300087/EDEX/26-08-2019#DUAL/10/1>
3. Sericulture II practical course laboratory manual book (2019) is published with the ISBN 978-81-942940-9-2, Blue Hill Publishers.
4. Standard Operating Procedures for Biology Experiments (2021) is published with the ISBN 9-788195-368105, Blue Hill Publishers.

Short Term Course

1. Diploma in office Tools and Internet Usage, Software Solutions India, Coimbatore – 641 018, held from 1st of January and 30th of June, 1999.

2. Two days Research Methods using SPSS organized by Centre for Training and Developments, Faculty Development Programme, PSGIM, Coimbatore – 641 004, held from 5th and 6th of October, 2007.
3. *UGC-Human Resource Development* Centre (UGC-HRDC) sponsored 105th Orientation programme held from 06.11.2014 – 03.12.2014 organized by UGC Academic Staff College, Bharathiar University, Coimbatore – 641 046
4. One day Hands-on training on Analysis of Water quality parameters – 15.02.2014 (2013-2014), Jointly organized by the Departments of Chemistry and Botany, PSGR Krishnammal College for Women in collaboration with Seeds Enviro Labs, Coimbatore – 641 004 DBT star College sponsored
5. Internal ISO Auditor Training Programme at PSGR Krishnammal College for Women, Coimbatore – 641 004 on 10.04.2015 and 11.04.2015
6. Attended hands-on training programme in Biozone technologies pvt Ltd., Poes Rd, Poes Garden, Teynampet, Chennai, Tamil Nadu – 600018 (2015-2016) on 13.08.2015-14.08.2015
7. Attended and gained knowledge on Microbiology Laboratory Techniques at the Dr. NGP Arts & Science College, Kalapatti, Coimbatore – (2015-2016) on 03.10.2016-04.10.2016
8. Completed Post Graduate Diploma in Psychological Counseling held from 01.06.2015 – 30.6.2016 conducted by Tamilnadu Open University, Chennai – 600 005 at Vazhikatti Mental Health Centre & Research Institute, Coimbatore.
9. *UGC-Human Resource Development* Centre (UGC-HRDC) sponsored Refresher course Batch –VIII Winter School - Refresher Course on Nano Sciences - (Chemical Sciences/Physical Sciences/Life Sciences/Agricultural Sciences/Medical and Veterinary Sciences) held from 08.11.2016 – 28.11.2016 organized by UGC Human Resource Development Centre - Academic Staff College, University of Madras, Chennai – 600 005.
10. Attended one day workshop on Life Style and Stress Management for Women in Higher Education on 23. 12. 2016 organized by Centre for Women's Studies, PSGR Krishnammal College for Women, Coimbatore – 641 004
11. Internal ISO (European Standard ISO 9001:2015) Auditor Training Programme at PSGR Krishnammal College for Women, Coimbatore – 641 004 on 10.03.2017.
12. Selected as a Senior Research Fellow (SRF) for summer research fellowship 2017 sponsored by Indian Academy of Sciences, Bengaluru, Indian National Science Academy, New Delhi, The National Academy of Sciences, India, Allahabad Science Academies' Summer Research Fellowship Programme for Teachers 2017 at University of Hyderabad (not attended).
13. Attended one day Faculty Development Programme on Cloud Computing on 01. 03. 2018 organized by Department of BCA, PSGR Krishnammal College for Women, Coimbatore – 641 004.
14. *UGC-Human Resource Development* Centre (UGC-HRDC) sponsored Refresher course in Environmental studies (ID) - held from 04.07.2018 – 24.07.2018 organized by UGC Human Resource Development Centre - Academic Staff College, Bharathiar University, Coimbatore.
15. *Attended Six days programme Wisdom Tools of Born to Win on leadership and mentoring Programme organized by IQAC*, PSGR Krishnammal College for Women, Coimbatore – 641 004 during September, October 2018.
16. Completed Post Graduate Diploma in Psychological Counseling, June, 2018.
17. *Attended One day workshop on Intellectual Property Rights and Innovations organized by* PSGR Krishnammal College for Women, Coimbatore under DBT Star College Scheme on 27 October 2018.

18. Attended twoday Faculty Development Programme on New Revised Accreditation Framework on 05. 06. 2019 and 06. 06. 2019 organized by IQAC, PSGR Krishnammal College for Women, Coimbatore – 641 004.
19. *UGC-Human Resource Development* Centre (UGC-HRDC) sponsored One week Workshop on MOOCs, E-content Development and Open Educational Resources held from 04.12.2019–10.12.2019 organized by UGC Academic Staff College, Bharathiar University, Coimbatore – 641 046
20. Attended one day online International Faculty Development Programme on How to write effective case study on 02. 05. 2020 organized by Atmiya University, Rajkot.
21. *Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT)*-Two Week FDP on Managing Online Classes and Co-Creating MOOCs from 20th April, 2020 to 6th May, 2020 organized by Teaching Learning Centre, Ramanujan College, University of Delhi, Delhi.
22. *Attended five day* online FDP on Moodle Learning Management System E-Learning Process sponsored by **The National Mission on Education through Information and Communication Technology (ICT)** held from 25.04.2020 to 29.04.2020 organized by Spoken Tutorial IIT Bombay organized by Sri Ramakrishna Arts and Science College, Coimbatore.
23. *Attended one day* Online FDP on Writing Quality Publication with Quantitative Metrics held on 29.06.2020.
24. Attended one day online webinar titled "UNIQUE ADAPTATIONS OF MARINE MOLLUSCS" organized by Post Graduate & Research Department of Zoology, Ethiraj College for Women (Autonomous) Chennai on 30.06.2020.
25. Attended one day online National Webinar on "what is required for a successful research?" organized by Department of Chemistry, School of Sciences, P. P. Savani University, Surat-394125 on 02.05.2020.
26. Completed on an online training on Creative Writing from 1st June, 2020 to 13th July, 2020 (for six weeks) conducted by Internshala Trainings.
27. *Attended five day* online FDP on Environmental Impact Assessment sponsored and organized by National Institute of Technical Teachers' Training and Research, Chennai held from 27.07.2020 to 31.07.2020.
28. *Attended five day* online FDP on Skill based teaching and learning sponsored and organized by National Institute of Technical Teachers' Training and Research, Bhopal held from 03.08.2020 to 07.08.2020.
29. Completed Five day National level hands-on E-workshop on Use of animation in creating virtual lab for Bioscience from 25th August, 2020 to 29th August, 2020 (for five days) conducted by Department of Biotechnology and Microbiology, Faculty of Science Atmiya University, Rajkot.
30. Completed Five day National level hands-on E-workshop on Five day online FDP on Film making as a Tool for Science Communication sponsored by NCSTC from 14.08.2020 to 18.08.2020 conducted by Indian Institute of Science Education and Research, Pune.
31. *UGC-Human Resource Development* Centre (UGC-HRDC) sponsored Refresher Course in Zoology, Batch - IX held from 18.11.2020 to 01.12.2020 organized by UGC Human Resource Development Centre - Academic Staff College, University of Madras, Chennai – 600 005.
32. *Attended five day* online FDP on Blended and Flipped Mode of Teaching sponsored and organized by National Institutes of Technical Teachers' Training and Research, Chennai held from 01.03.2021 to 05.03.2021.
33. *Attended twenty one day* National Training on Virtual Internship Programme on Sustainable Development Goals and Community Engagement" organized by Regional Coordinating Institute, UBA, The Gandhigram Rural Institute (Deemed to be University), Gandhigram, Dindigul, Tamil

Nadu in collaboration with National Coordinating Institute, UBA, IIT, Delhi from 02.08.2021 to 25.08.2021

34. *Attended seven day* online National Training on “Lab Animals in Bio-Medical Research” organized by Department of Animal Genetics and Breeding, College of Veterinary and Animal Sciences, MAFSU, Parbhani during 21st to 27th September 2021.
35. Completed seven day online Design Thinking Course conducted by Turnip Innovations Private Limited, Kolkata, during 6th to 12th April 2022.
36. Completed Design Thinking Course conducted by School of Innovation and Leadership (SOIL), Hyderabad, India during 25th March to 29th April 2022.
37. *Attended two day* in-service teachers training program organized by Tamil Nadu State Council for Higher Education during 05th to 6th May 2022 at Government Arts College, Udhagamandalam.
38. *Attended seven day* online PDP for University and College Teachers on Implementation of NEP-2020 sponsored and organized by UGC IGNOU under *Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT)*, New Delhi held from 21.09.2022 to 29.09.2022.
39. A seven day Faculty Development Programme on **Stress Management** *organized by IQAC*, PSGR Krishnammal College for Women, Coimbatore – 641 004 during **10.10.2022 - 18.10.2022**
40. *UGC-Human Resource Development* Centre (UGC-HRDC) sponsored Refresher Course in Life Sciences (ID) (Online), held from 10.01.2023 to 23.01.2023 organized by UGC Human Resource Development Centre - Academic Staff College, Goa University, Goa.
41. 7 Day National Level Online Faculty Development Program on Outcome Based Education (OBE) organised by Nirmala College, Muvattupuzha in association with The Kerala State Higher Education Council from 10 May to 17 May 2023. 7 Day
42. Faculty Enhancement Program on E-content developments organised by TLC - KCW, Coimbatore from 29 May to 03 June 2023

Reviewer in journal

- Editorial Board member-Advances in Applied Research, since 2007-2013
- Reviewer-Environmental Research, Elsevier Editorial System (EES) Publications since 2015
- Reviewer-Water Research, Elsevier Editorial System (EES) Publications since 2015
- Reviewer-Journal of Environmental Management since 2015
- Reviewer-Integrative Zoology, Wiley Blackwell Publications since 2015
- Reviewer, Current Zoology, Scholar One Manuscripts since 2015
- Reviewer-Records of the Zoological Survey of India since 2019

Paper Presentations in Conference

1. UGC sponsored National Seminar on Recent Trends in Biotechnology and its impact on the socio-economic improvement of the scheduled castes and tribes organized by the Department of Biotechnology, Dr. G.R. Damodaran College of Science, Coimbatore, 6th and 7th June, 2000.
2. UGC sponsored National Seminar on Bioinformatics organized by the Department of Zoology, Government Arts College (Autonomous), Coimbatore – 641 018, 19th October, 2004.
3. 2nd International conference on Environment and Ecology, Bharathiar University, Coimbatore, Tamil Nadu on 7-8-9 March 2016.
4. Two day Symposium on Current Trends in Fundamental Biochemical Research: diverse applications from agriculture to human health during 13.12.2016 and 14.12.2016 sponsored by DST-SERB and ICMR organized by the PSG Institute of Advanced Studies, Coimbatore – 641004.

5. Ministry of Environment, Forest and Climate change sponsored and organized by Freshwater Biology Regional Centre, Zoological Survey of India, Hyderabad-National conference on Current Status of Freshwater Faunal Diversity in India held on 26th and 27th May, 2017.
6. Three Day Faculty Development program organized by Biology Olympiad Teachers Exposure Camp between 15.11.2017 and 17.11.2017.
6. UGC sponsored One day International Conference organized by Vellalar College for Women, Erode- Frontiers in life and chemical sciences held on 19thSeptember, 2018.
7. TNSCST sponsored National level One day Workshop on Advanced Research studies in Life Sciences – Gaps and Scope organized by Government Arts College, Coimbatore held on 25th January, 2019.
8. DBT Star College Scheme sponsored Two day National Symposium on Graduate Research – 19 organized by Dr. NGP Arts and Science College, Coimbatore held on 26th February and 27th February, 2019.
9. One day Faculty Development Programme on “New Framework of NAAC Accreditation” organized by PSGR Krishnammal College for Women, Coimbatore – 641 004 on 05.09.2019
- ICSSR - IMPRESS sponsored Two Day National Workshop on “Academic Identity, Enhancing Research Visibility and Improving Citations” organized by PSG College of Arts and Science, Coimbatore held on September 26 & 27, 2019.
10. Quality research enhancement initiative of PSGR Krishnammal College for Women - One Day Research Workshop on “The art of defining research problem/questions and awareness on Intellectual Properties rights” organized by PSGR Krishnammal College for Women, Coimbatore – 641 004 on 24.10.2019
11. One day online National Webinar on "what is required for a successful research?" organized by Department of Chemistry, School of Sciences, P. P. Savani University, Surat-394125 on 02.05.2020
12. Two Day Virtual National Seminar on "Recent Trends in Fish Nutritional Research" organized by Institute of Fisheries Post Graduate Studies, Tamil Nadu Dr. J. Jayalaitaa Fisheries University, Chennai, Tamil Nadu on 03.07.2020 and 04.07.2020
13. One Day online webinar on “Web of Science: Discovery starts here!” organized by PSGR Krishnammal College for Women, Quality research enhancement initiative on 03.07.2020.
14. Three Day virtual National seminar "Current Trends in Fish Biotechnological Research" (CTFBR 2020) organized by Institute of Fisheries Post Graduate Studies, Tamil Nadu Dr. J. Jayalaitaa Fisheries University, Chennai, Tamil Nadu on 09.07.2020 to 11.07.2020.

Participation in Conference

Total number -14

Participation in Seminars

Total Number - 14

Participation in Workshop

Total Number -5