

## PROFILE



**Name** : Dr. V. JEMIMA FLORENCE BORGIA  
**Designation** : Associate Professor  
**Department** : PG and Research Centre of Zoology  
**Date of Birth** : 10.10.1969  
**Date of Appointment** : 03.10.2007  
**Area of Specialization** : Toxicology

| Academic Qualifications                             | University /Institution             | Year of passing |
|---|-------------------------------------|-----------------|
| SSLC  | Board of Secondary Education        | 1985            |
| HSC   | Board of Higher Secondary Education | 1987            |
| B.Sc – Zoology                                      | Madurai Kamaraj University          | 1990            |
| M.Sc  | Manonmanium Sundaranar University   | 1992            |
| B.Ed  | Annamalai University                | 1993            |
| M.Phil  | Bharadhidasan University            | 2006            |
| CYP/ HRD<br>Diploma in Youth in<br>Development Work | Annamalai University                | 2008            |
| Ph.D  | Manonmanium Sundaranar University   | 2018            |

8. Year of Experience : 16years
9. M.Phil Project : Effect of siddha drugs enriched formulated feed and feeding frequency on growth and histomorphology in the cichlid fish, *Oreochromis mossambicus*.
10. Title of Ph.D Thesis : Studies on the toxicity of effluent from electroplating industry to the freshwater fish, *Cyprinus carpio*.

### RESEARCH PUBLICATIONS DETAILS:

1. Shanthi. V., S. Muthumeena, A. Jeyasheeli and **V.J. Florence Borgia**, 2006. Physico

Chemical status of Varaga River. Journal of Aquatic Biology vol: 21(2):123 –127.

2. **V.J. Florence Borgia**, M. Narayanan, A. Jeyasheeli and V. Shanthi, 2007. Influence of medicinal plant products on the bioenergetic parameters of *Oreochromis mossambicus* as a function of feeding frequency. Journal of Aquatic Biology. 22 (2): 167-172
3. Shanthi. V., **V. Jemima Florence Borgia** and G. Priya, 2009. Effect of density and feeding frequency on the bioenergetics of *Cyprinus carpio*. Journal of Aquatic Biology 24 (1): 211 – 214.
4. Shanthi. V., **V. Jemima Florence Borgia**, N. Saranya and G. Logalakshmi, 2009. Effects of mercury on biochemical parameters of the freshwater teleost *Labeorohita* and *Catlacatla*. Journal of Aquatic Biology. 24 (1): 117 –120.
5. **Jemima Florence Borgia**, V., V. Shanthi and N. Pricilla, 2010. Efficacy of different densities with two kinds of animal diets on the growth of *Cyprinus carpio*. *J.Aqua.Biol.* 25 (1):177-180.
6. Merlin Dayana L., Delphine Rose M. R., Sr. Nirmala T. and **V. Jemima Florence Borgia**. 2011. Effect of different animal diets on energy budget of fresh water fingerlings *Catlacatla* and *Cirrhinus mrigala*. Res. Environ. Life Sci. 4(2):75-78.
7. Shanthi, V., **V. Jemima Florence Borgia**, S. Bhavani and M. Sathya, 2011. Inhibitory effects of *Lactobacillus* species against human pathogens. Research Journal of Pharmacognosy and Phytochemistry. 3(4):103-108.
8. Shanthi, V., V. Sivakumar, R.D. Thilaga and **V. Jemima Florence Borgia**, 2011. Bioactive Potential of *Tonna galea* (Linne.1758) from Gulf of Mannar. Global Journal of Pharmacology. 5(3):130-135.
9. Anita Kannagi, V. Santhi, **V. Jemima Florence Borgia**. 2013. Hymenopteran diversity in a deciduous forest from south India. International Journal of Biodiversity and conservation. 5(10): 666-670. ISSN No. 2141-243X©2013, 2.264(I.F).
10. V. Santhi, **V. Jemima Florence Borgia**. 2014. In vitro Antibacterial activity, phytochemical screening and FT-IR analysis of *Dodonaea viscosa* and *Adhatodavasisca*. Asian Journal of Biochemical and Pharmaceutical Research (24) 289-298; 2231-25602.56.

11. **V. J. Florence Borgia**, A. J. Thatheyus. 2015. Acute toxicity of effluent from electroplating industry to the common carp, *Cyprinus carpio* Linn. International Journal of Research Studies in Zoology. 1(1):10-14.
12. **V. J. Florence Borgia**, A. J. Thatheyus, A. G. Murugesan, S. Catherine P. Alexander, I. Geetha. 2018. Effects of effluent from electroplating industry on the immune response in the freshwater fish, *Cyprinus carpio*. Fish and Shellfish Immunology 79 Pg: 86-92.
13. **Victor Jemima Florence Borgia**, Antony Joseph Thatheyus and Arunachalam Ganesan Murugesan. 2018. Surface Morphological Changes Induced by Electroplating Industrial Effluent in the Intestine of *Cyprinus carpio*. Science International 6 (2):51-64. ISSN 2305-1884 DOI: 10.17311/sciintl.2018.51.64
14. **V. J. Florence Borgia**, A. Joseph Thatheyus, A. G. Murugesan. 2018. Effect of effluent from electroplating industry on the histology of gills of the freshwater fish, *Cyprinus carpio*. Roots International Journal of Multidisciplinary Researches. Vol. 4, pp. 27-33. ISSN: 2349-8684. Impact Factor: 3.487
15. **V. J. Florence Borgia**, A. J. Thatheyus and A. G. Murugesan, 2019. Impact of electroplating industry effluent on the electrophoretic protein pattern of serum in the freshwater fish *cyprinus carpio*. Indian Journal of Biochemistry & Biophysics Vol. 56, pp.460-465. ISSN: 0975-0959(online); 0301-1208(print), Impact Factor: 0.537, h-index 37.
16. T. Nirmala, Arockiam Thaddeus, Anita Kannagi, V. Santhi, S. Catherine P. Alexander, C. Sagaya Rani, M.R. Delphine Rose, **V. Jemima Florence Borgia**, S. Iruthaya Kalai Selvam, L. Merlin Dayana, A. Irudaya Lourdu Gladis, S. Devashanthi, P. Pushpa and R. Medona Mary, 2021. "Establishment of Water Quality Index in Different Waters of Theni and Dindigul Districts". International Journal of Poll Res. 40 (2): 485-492.
17. **Dr. V. Jemima Florence Borgia**, and Dr. V. Santhi, 2021 "Biodiversity of Insects Fauna Infesting Okra (*Abelmoschus esculentus*) Vegetable Crop Field at Boothipuram, Theni District". Journal of Science, Humanities and Management. Vol.8, No.2, pp.: 70 – 80. ISSN 2347-9868.
18. A. Irudaya Lourdu Gladis, **V. Jemima Florence Borgia**, R. Lakshmanan, S. Mariselvi,

and S. N. Suresh, 2023. Biosynthesis and characterization of silver nanoparticles using *Barleria cuspidate* leaves extract and mechanism of antimicrobial action of selected human pathogens. Uttar Pradesh Journal of Zoology, Volume 44, Issue 22, pp: 361 – 368. ISSN: 0256-971X (P).  
<https://doi.org/10.56557/upjoz/2023/v44i223753>.

#### **PAPERS PRESENTED:**

1. Presented a paper on “Effect of size, density and temperature on ammonia excretion in *Macropodus cupanus*” in the National Seminar on Technology and Management of Bio resources at St. Xavier’s college (Autonomous), Palayamkottai, Tirunelveli on 21<sup>st</sup> & 22<sup>nd</sup> March, 2005.
2. Presented a paper on “Effect of Siddha drugs enriched formulated feed and feeding frequency on growth in common carp *Catla catla*” in the National Seminar on Environmental Biotechnology for human welfare at J.A.College for Women (Autonomous), Periyakulam on 7<sup>th</sup> & 8<sup>th</sup> December, 2006.
3. Presented a paper on “Effect of goat liver on the growth of *Cyprinus carpio* as a function of density” in a National Seminar on Conserve the Mother Earth-Need of the Hour at J. A. College for Women (Autonomous), Periyakulam on 09.03.2009 and 10.03.2009.
4. Presented a paper on “Bio preservative Potential of different *Lactobacillus* Strains against Histamine producer Isolated from sea foods in a National seminar on “Ensuring the Sustainability of Coastal Environment” at St. Mary’s College (Autonomous) Thoothukudi on 15<sup>th</sup> & 16<sup>th</sup> December 2010.
5. Presented a paper on “Impact of Tannery effluent on the biochemical composition of fresh water fish *Oreochromis mossambicus*” in a National Conference on Environmental protection and Management at Loyola College, Chennai on 29<sup>th</sup> & 30<sup>th</sup> August 2011.
6. Presented a paper on “Toxicity of lead and copper and their effect on biochemical parameters in muscle and gills of freshwater fish *Labeo rohita*” in a National Seminar on Bio-Knowledge for better Environment at Syed Hameedha Arts and Science College, Kilakarai on 28<sup>th</sup> & 29<sup>th</sup> February 2012.

7. Presented a paper on “Studies on the quality of bore well water in Periyakulam and its surroundings areas a statistical analysis” in a National Seminar on New Frontiers in Biology at J. A. College, Periyakulam on 18<sup>th</sup>& 19<sup>th</sup>December, 2012.
8. Presented a paper on “Impact of Tannery effluent on the quality of ground water in Dindigul District” in a National Seminar on New Frontiers in Biology at J. A. College, Periyakulam on 18<sup>th</sup>& 19<sup>th</sup>December,2012.
9. Presented a paper on “Immunotoxicity of industrial effluents in fin fish: An alternative animal model for immunotoxicological studies” in an International Conference and Exhibition on Immunology at Crowne Plaza Houston River Oaks, Houston, TX, USA on 28<sup>th</sup> to 30<sup>th</sup> September2015.

**SEMINARS / CONFERENCES ATTENDED:**

1. Attended an International Awareness Workshop and Training Programme on “Bioethics Education” at J. A. College, Periyakulam on 20<sup>th</sup> January,2005.
2. Attended a Seminar on “Environmental Biotechnology” at Horticultural collegeand Research Extension centre, Periyakulam on 9<sup>th</sup> March,2005.
3. Attended a Workshop on “Office Automation” at J.A College, Periyakulam on 24<sup>th</sup>and 25<sup>th</sup> November,2006.
4. Attended National Seminar on “Environmental Biotechnology for Human Welfare”atJ.A College, Periyakulam on 7<sup>th</sup> and 8<sup>th</sup> December, 2006.
5. Attended National Conference on “Recent Trends in Understanding and Applying the Theory and Practice the Values” at J.A.College, Periyakulam on 11<sup>th</sup> and 12<sup>th</sup> January, 2007.
6. Attended a State level seminar on “Academic uses of Internet at J.A.college, Periyakulam on 26<sup>th</sup> February, 2007.
7. Attended National Seminar on “Participative and Responsive Organizational Dynamics for Quality Improvement in Autonomous Colleges” at J.A.College for Women (Autonomous), Periyakulam on 19<sup>th</sup> and 20<sup>th</sup> December, 2007.
8. Attended a State level Seminar on “Christian Values for Wholesome Life” at J.A.College for Women (Autonomous), Periyakulam on 29<sup>th</sup> August, 2008.
9. Attended a State level Seminar on “Modern Biological Sciences” at J.A.College for Women (Autonomous), Periyakulam on 27<sup>th</sup> January, 2009.

10. Attended a University level workshop on “Application of statistical packages in Biology” at J.A. College for Women (Autonomous), Periyakulam on 23<sup>rd</sup> February, 2009.
11. Attended National Conference on “Quality and Relevance in Higher Education-New Challenges” at J. A. College for Women (Autonomous), Periyakulam on 2<sup>nd</sup> & 3<sup>rd</sup> March, 2009.
12. Attended a National Seminar on “Conserve the Mother Earth-Need of the Hour” at J.A. College for Women (Autonomous), Periyakulam on 9<sup>th</sup> & 10<sup>th</sup> March, 2009.
13. Attended a National Workshop on “Effective Classroom Communication and Teaching Skills for College Teachers” at Christ University, Bangalore on 12<sup>th</sup> and 13<sup>th</sup> November, 2009.
14. Attended a National Seminar on “Value Education” at National Biblical Catechetical & Liturgical Centre, Bangalore on 4<sup>th</sup> to 9<sup>th</sup> May, 2010.
15. Attended a Workshop on Higher Education in a Changing Environment” at J. A. College for Women, Periyakulam on 26<sup>th</sup> and 27<sup>th</sup> November, 2010.
16. Attended a National Conference on “Inculcation of Values for Holistic Life Amidst Technological Scenario” at J. A. College for Women, Periyakulam on 6<sup>th</sup> and 7<sup>th</sup> December, 2010.
17. Attended a National Seminar on “Ensuring the Sustainability of Coastal Environment” at St. Mary’s College (Autonomous), Thoothukudi on 15<sup>th</sup> & 16<sup>th</sup> December, 2010.
18. Attended a State level Seminar on “Biodiversity- Measures for Conservation and Management” at J. A. College for Women, Periyakulam on 16<sup>th</sup> December, 2010.
19. Attended a National Conference on “Environmental Protection and Management” at Loyola College, Chennai on 29<sup>th</sup> and 30<sup>th</sup> August, 2011.
20. Attended a seminar on Moulding the Christian Youth in the Light of Christ” at J. A. College for Women, Periyakulam on 15<sup>th</sup> September, 2011.
21. Attended a Workshop on “Recent Trends in Science for Talented Rural School Students of Periyakulam Educational District” at J. A. College for Women, Periyakulam on 12<sup>th</sup> and 13<sup>th</sup> October, 2011.
22. Attended a National seminar on “New Frontiers in Biology” at J. A. College

- for Women (Autonomous), Periyakulam on 18<sup>th</sup> & 19<sup>th</sup> December, 2012.
23. Attended a State level seminar on “Statistical Packages for the Social Sciences” at J. A. College for Women, Periyakulam from 11<sup>th</sup> to 15<sup>th</sup> February, 2013.
  24. Attended a “Counselors Training Course” in accordance with the standards of Anugraha Institute of Counseling at J. A. College for Women, Periyakulam from 5<sup>th</sup> to 10<sup>th</sup>, June, 2013.
  25. Attended a “Faculty Training Programme in Entrepreneurship” organized by the Department of Economics, Mother Teresa Women’s University at J. A. College for Women, Periyakulam from 3<sup>rd</sup> to 7<sup>th</sup>, September, 2013.
  26. Attended a State level Workshop on “Reforms in Curriculum Development and Examination System” organized by Curriculum Development Cell at J. A. College for Women, Periyakulam on 13<sup>th</sup> November, 2013.
  27. Attended a “Faculty Development Programme” held at Stella Mary’s Training Centre, Kanyakumari on 17<sup>th</sup> to 19<sup>th</sup> September, 2014.
  28. Attended a “Leadership Training Programme for the Faculty Members of J. A. College for Women, Periyakulam” organized by the Centre for Education beyond Curriculum (CEDBEC), Christ University, Bengaluru on 29<sup>th</sup> and 30<sup>th</sup> June, 2015.
  29. Attended a State level Workshop on “Statistical Packages for the Social Sciences (SPSS)” at J. A. College for Women, Periyakulam from 24<sup>th</sup> to 28<sup>th</sup> August, 2015.
  30. Attended a National seminar on “Ranking the Research Publications: Citation Analysis, Citation Databases and Anti-Plagiarism” at J. A. College for Women, Periyakulam on 27<sup>th</sup> and 28<sup>th</sup> January, 2016.
  31. Attended a National Conference on “Quality Assurance and Quality Sustenance in Higher Educational Institutions: Challenges and Solutions” at J. A. College for Women, Periyakulam on 29<sup>th</sup> and 30<sup>th</sup> September, 2016.
  32. Attended a Workshop on “Virtual Dissection Lab in Zoology” at Department of Biotechnology, Mother Teresa Women’s University, Kodaikanal on 18<sup>th</sup> October, 2016.
  33. International Workshop on STATISTICS USING EXCEL AND SPSS J.A. College for women, Periyakulam 5<sup>th</sup> and 6<sup>th</sup> September 2017
  34. National Seminar on “Emerging Trends in Life Sciences” at J.A. College for women,

Periyakulam on 9<sup>th</sup> January 2018.

35. Workshop on Women in Science and Research J.A. College for women, Periyakulam 19<sup>th</sup> & 20<sup>th</sup> February, 2018.
36. Attended the two days national seminar on Emerging trends in Current environmental issues at J.A. College for women, Periyakulam on 11<sup>th</sup> and 12<sup>th</sup> December, 2019.
37. Attended On line quiz on Workplace Safety: Air Contaminants and Dust conducted by Smart Sign, 300 Cadman Plaza West, Suite 1303, Brooklyn, NY 11201 on 11.04.2020.
38. Attended Online quiz on Workplace Safety: First Aid conducted by Smart Sign, 300 Cadman Plaza West, Suite 1303, Brooklyn, NY 11201 on 11.04.2020.
39. Attended On line course on “Basic Principles of Spectroscopy” at Department of Chemistry, AVS College of Arts & Science, Salem from 17.04.2020 to 19.04.2020.
40. Attended On line course on “Household Electrical Devices & Appliances” at Department of Physics, AVS College of Arts & Science, Salem from 20.04.2020 to 21.04.2020.
41. Attended E-Quiz on Research conducted by the Department of Biotechnology & Research, SNMV College of Arts & Science Institute of Management, Coimbatore on 29.04.2020.
42. Attended Online Quiz on COVID-19 conducted by SIPNA College of Engineering & Technology, Amravati on 01.05.2020.
43. Attended COVID-19 General Awareness Quiz conducted by Institution Innovation Council Cell, St. Anne’s College of Engineering and Technology, Panruti on 04.05.2020.
44. Attended General Biology Quiz conducted by PG & Research Department of Advanced Zoology and Biotechnology, Guru Nanak College (Autonomous), Velachery, Chennai on 06.05.2020.
45. Attended COVID-19 Awareness Quiz conducted by PG & Research Department of Zoology, The American College, Madurai on 10.05.2020.
46. Attended National Level E-Quiz conducted by National Cadet Corps (Army Wing),

Jayaraj Annapackiam College for Women (Autonomous), Periyakulam.

47. Attended Online course on “Vermiculture and Vermicompost Technology” at Arulmigu Palani Andavar Arts College for Women, Palani in association with Dr.N.NT Research Foundation from 11.05.2020 to 13.05.2020.
48. Attended National Level Online Internship Training Programme on “Holistic Development” at Department of Physical Education, Arulmigu Palani Andavar Arts College for Women, Palani from 12.05.2020 to 16.05.2020.
49. Attended Online Workshop on “Mental Health and Psychosocial Consideration During Lockdown” at St.Mary’s College (Autonomous), Thoothukudi in association with Aadhi Foundation on 13.05.2020 & 14.05.2020.
50. Attended Online course on “Apiculture” at Department of Zoology, Ayya Nadar Janaki Ammal College, Sivakasi from 13.05.2020 to 15.05.2020.
51. Attended International Level Three Days Online Quiz on “Dare to Do” conducted by G.Venkataswamy Naidu College, Kovilpatti from 15.05.2020 to 17.05.2020.
52. Attended Webinar on “Online Teaching of Zoology using Digital Platforms” at Department of Zoology, Stella Maris College (Autonomous), Chennai on 15.05.2020.
53. Attended International Webinar on “Size Does Matter: Genes, Diet & Obesity” at P.G. Department of Biotechnology, SAS SNDP Yogam College, Konni, Kerala in collaboration with Xcellogen Biotech Pvt Ltd. on 18.05.2020.
54. Attended National Webinar on “History of Covid 19 Pandemic” at PG & Research Centre of History, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam on 22.05.2020.
55. Attended Zoology Quiz – 1 conducted by Department of Zoology, Holy Cross College (Autonomous), Nagercoil on 22.05.2020.
56. Attended International Webinar on “Biodiversity” at PG & Research Department of Zoology, The American College, Madurai on 22.05.2020.
57. Attended National Webinar on “Outcome Based Education” conducted by Internal Quality Assurance Cell, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam on 22.05.2020 to 29.05.2020.
58. Attended International Webinar on “Brief Perspectives of Nanotechnology – Biosynthesis and Bio-application of Nanoparticles” at PG and Research Centre of

Zoology, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam from 27.05.2020 to 29.05.2020.

59. Attended Webinar on “COVID-19 Reportage – Is the social media complementing the mainstream media? Department of Journalism and Mass Communication, Fatima College, Madurai. On 29.05.2020.
60. Attended National Webinar on “Impact of COVID-19 in Service Sector: Strategies to Overcome the Challenges” at PG and Research Centre of Commerce, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam in association with Department of Business Administration, Auxilium College (Autonomous), Vellore on 01.06.2020 & 02.06.2020.
61. Participated in the International Webinar on “Modern Enhancement in Life Science” organized by the Department of Zoology, Seethalakshmi Achi College for Women, Pallathur on 03.06.2020 and 04.06.2020.
62. Participated in the National Level Webinar on “Stem cell therapy (Past, Present, Future) organized by the Department of Biochemistry, SLS. MAVMM.AyiraVaisyar College, Madurai on 05.06.2020.
63. Participated in the National Webinar on “Traditional medicine – A boon for healthy living” organized by the Department of Biochemistry, Bharathi Women’s College (Autonomous), Chennai on 12.06.2020.
64. Participated in the National Webinar on “Sustainable solid waste management: What you & I can do” organized by the Vasundhara, Shree Damodar College of Commerce & Economics on 13.06.2020.
65. Participated in the National Webinar on “Women in Entrepreneurship” organized by the Entrepreneurship Cell, J. A. College for Women, Periyakulam on 15.06.2020.
66. Participated in the National Webinar on “Promotion of Health through Yoga” organized by Yoga club, Department of Zoology and Research Centre, Aditanar College of Arts and Sciences, Tiruchendur on 21.06.2020.
67. Participated in the National level A one day capacity Enhancement Programme on “Yoga Practices” organized by NCC (Army Wing) of J. A. College for Women, Periyakulam in association with ArulmiguPalaniandavar Arts College for Women Palani on 21.06.2020.

68. Participated in the International Webinar on “Global Pandemic Challenge: Mental health and future Education organized by the Department of Zoology, G.T.N Arts College (Autonomous), Dindigul on 19.06.2020 and 20.06.2020.
69. Participated in the International Webinar on “A path to wellness: Diabetes and Me” organized by the PG and Research Department of Zoology, St. Mary’s College, Thoothukudi on 26.06.2020.
70. Participated in the International Webinar on “Biodiversity and Climate Dynamic Relationship” organized by the PG Research Department of Botany, V.O.Chidambaram College on 24.06.2020.
71. Participated in the awareness programme on “Drug Abuse and Illicit Trafficking” organized by NSS, RRC, Sri Sarada College for Women, Salem on 26.06.2020.
72. Participated in the one day webinar on “Bone health for women” organized by NSS, RRC, Sri Sarada College for Women, Salem on 01.07.2020.
73. Participated in the webinar on “Molecular diagnostics of infectious diseases – An introduction” organized by Michael Job College of Arts and Science for Women, Coimbatore on 03.07.2020.
74. Participated in the National webinar on “ICT Tools for Teaching - Learning” organized by Internal Quality Assurance Cell, St. Xaviers College (Autonomous), Palayamkottai on 24.07.2020.
75. Participated in the 10day National Level online Multy Disciplinary ShortTerm Course on “MOOCs, Creation of E-Content Development and OERs” organized by IQAC, Government First Grade College, Bengaluru from 05.07.2020 to 14.07.2020.
76. Completed the online Quiz in Commemoration of 151<sup>st</sup> Birth Anniversary of Mahatma Gandhi on 31.10.2020.
77. Participated two days International Webinar on “Recent Trends in Life Sciences” organized by the PG and Research Department of Zoology, JayarajAnnapackiam College for Women, Periyakulam on 05.01.2021 and 06.01.2021.
78. Participated in the webinar on “Creation of Academic Accounts” organized by The Library, JayarajAnnapackiam College for Women, Periyakulam on 18.03.2021.
79. Participated National level Faculty Development Programme on “Quality Enhancement Initiative Through Innovative Practices” organized by Internal Quality

Assurance Cell, JayarajAnnapackiam College for Women, Periyakulam on 03.05.2021.

80. Participated National webinar on “Research Report Writing and Publication in Indexed Journals” organized by A.D.M. College for Women (Autonomous), Nagapattinam on 04.05.2021.
81. Participated in the International Webinar on “Role of Nanotechnology in Current Scenario” organised by the SLI International Webcasting Network, Dept. of Botany, Sri Venkateswara University, Tirupati, A.P., India on 27.05.2021 & 28.05.2021.
82. Participated Two Weeks Online Faculty Development Programme on “Pedagogy and Research Methods” organized by AMET, Human Resource Development Centre (HRDC) and Internal Quality Assurance Cell (IQAC) from 24.05.2021 to 06.06.2021.
83. Participated in the One Week Online Faculty Development Programme on “Yoga for well-being during covid period” organized by AMET, Human Resource Development Centre (HRDC) and Internal Quality Assurance Cell (IQAC) from 11.06.2021 to 17.06.2021.
84. Participated in the International Faculty Development Programme on “Communication Skills: Theory & Practices” organized by Department of Languages, Integral University, Lucknow, India, from 14.06.2021 to 25.06.2021.
85. Participated in One Week Faculty Development Programme on “Life Skills and Wellness during Pandemic” organized by Academy of Maritime Education and Training (AMET), AMET Business School from 05.07.2021 to 11.07.2021.
86. Participated in the Webinar on “Honey Bees: Hope for Life” on account of World Entrepreneur Day organized by PG and Research Centre of Zoology, Start UpProgramme – Apiculture, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam, on 27.08.2021.
87. Participated in the International webinar on “Recent Trends in Life Sciences -Phase II” organized by PG and Research Centre of Zoology, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam on 01.09.2021.
88. Participated in the UGC sponsored Webinar on “Yoga for Wellness” organized by UGC Human Resource Development Centre, Madurai Kamaraj University, Madurai on 04.09.2021.

89. Participated in the Webinar on “Fit India – 2021” organized by NSS, NCC & Physical Education, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam on 15.09.2021.
90. Participated in the Workshop on “Honey Bee Rearing” organized by the Department of Entomology, Agriculture College and Research Institute, Tamilnadu Agriculture University, Madurai on 16.09.2021.
91. Participated in the Webinar on “Development of e-Content” organized by UGC Human Resource Development Centre, Madurai Kamaraj University, Madurai on 18.09.2021.
92. Attended an one day Hands – on Training on ‘Mushroom Fortified Bakery Products Preparation’ organized by PG and Research Centre of Zoology, Start Up Programme – Mushroom Culture and Institutional Innovation Council (IIC), Jayaraj Annapackiam College for Women (Autonomous), Periyakulam on 15<sup>th</sup> December, 2021.
93. Attended an Awareness Programme entitled “Awareness on Intellectual Property Rights” organized by PG and Research Centre of Zoology, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam on 05<sup>th</sup> May, 2022.
94. Participated in IP Awareness/Training Program under National Intellectual Property Awareness Mission organized by PG and Research Centre of Zoology, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam in collaboration with St. Joseph’s College for Women, Alappuzha, Kerala and Inter University Centre for IPR Studies, CUSAT, Kochi, Kerala on 20<sup>th</sup> September, 2022.
95. Participated in an international conference on “Life Science Research and Intellectual Property Rights” organized by PG and Research Centre of Zoology, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam in collaboration with St. Joseph’s College for Women, Alappuzha, Kerala and Inter University Centre for IPR Studies, CUSAT, Kochi, Kerala on 19<sup>th</sup> & 20<sup>th</sup> September, 2022.
96. Participated in the two days “E-Leader” workshop organized by the Innovation & Entrepreneurship Development Programme (IEDP), Mother Teresa Women’s University, Kodaikannal on 17<sup>th</sup> and 18<sup>th</sup> October, 2022.
97. Participated in IP Awareness/ Training Program under National Intellectual Property Awareness Mission organized by Intellectual Property Office, India on 16<sup>th</sup> December, 2022.

98. Participated in the three day workshop on “Organic Farming and Bio Dynamic Composting” from 19<sup>th</sup> to 21<sup>st</sup> December, 2022 organized by PG and Research Centre of Zoology in collaboration with Eco club, Waste water management and Green Campus, Institution Innovation Council (IIC), Jayaraj Annapackiam College for Women (Autonomous), Periyakulam and Naandhi Foundation, Mahindra Institution, Guindy, Chennai.
99. Participated in the training programme on Bee keeping at Vibis natural honey bee farm, Madurai on 04.02.2023.
100. Participated in the National webinar on “Interdisciplinary approaches in Biology” organized by PG and Research Centre of Zoology, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam on 6<sup>th</sup> December, 2023.
101. Participated in Regional meet on Institutional Innovation Council and Moe’s Innovation Cell organized by Francis Xavier Engineering College, Tirunelveli on 24<sup>th</sup> January, 2024.
102. Participated in 7 Days online faculty development program on “Essential skills for professional development in higher education” organized by Star International Foundation for Research and Education on 01.07.2024 – 07.07.2024.

## RESEARCH GUIDANCE:

### M. Sc Project:

| S.No. | Name of the student           | Topic  | Year of submission |
|-------|-------------------------------|--|--------------------|
| 1     | G.Logalakshmi                 | Effects of mercury on biochemical content of muscle, liver and kidney in freshwater teleost <i>Labeorohita</i> .                             | 2006 - 2007        |
| 2     | N. Pricilla                   | Effect of liver and earthworm feeds on growth of <i>Cyprinus carpio</i> as a function of density.  | 2007 - 2008        |
| 3     | J. Christy & R. Lalitha       | Effect of 40% formulated protein diet on growth and body composition in <i>Catlacatla</i> , <i>Labeorohita</i> and <i>Cirrhinusmrigala</i> . | 2008 - 2009        |
| 4     | S. Margret & U. Murugeswari   | Biopreservative potential of different Lactobacillus strains against histamine producer isolated from seafoods.                              | 2009 - 2010        |
| 5     | S. Karthika & A. Selvalakshmi | Toxicity of lead and copper and their effect on biochemical parameters in muscle and gills of freshwater fish <i>Labeorohita</i> .           | 2010 - 2011        |
| 6     | S. Dharma Jothi               | Impact of tannery industrial effluent on the quality of groundwater in Dindigul District.  | 2011 - 2012        |
| 7     |                               | Assessment of ground water quality in Periyakulam (T.K.) Theni (Dt),   | 2012 - 2013        |

|    |                                       |   |             |
|----|---------------------------------------|---|-------------|
|    |                                       | TamilNadu.  |             |
| 8  | K. Elayavimala                        | Physico chemical analysis of freshwater at KullurSandhai Dam in Virudhunagar District, TamilNadu.                             | 2013 - 2014 |
| 9  | R. Niranjana Davi                     | Physico chemical analysis of ground water at Kottur in Theni District.  | 2014 - 2015 |
| 10 | V. Rajeshwari                         | Physico chemical analysis of Maruthanathi river in Dindigul District.   | 2014 - 2015 |
| 11 | B. Vijayabharathi                     | Antibacterial activity of the extract of traditional medicinal plants.  | 2015 - 2016 |
| 12 | V. Vinotha                            | Biodiversity of insect fauna in cotton ( <i>Gossypium hirsutum</i> ) field at Devadanapatti in Theni District.                | 2015 - 2016 |
| 13 | K. Renuga Devi                        | Antibacterial activity of some medicinal plants against Gram negative bacteria.   | 2016 - 2017 |
| 14 | K. Alagumeena                         | A study of Antibacterial activity of leaves from the selected medicinal plants on chosen microbes.                            | 2016 - 2017 |
| 15 | S. Arul Sheela                        | Antibacterial studies on flowers and leaves of <i>Clitoriaternatea</i> and <i>Musa pardisiaca</i> .                           | 2016 - 2017 |
| 16 | P. Jayabarathi                        | Biodiversity of insects associated with bean field ( <i>Lablab purpureus</i> ) at Auntipattyin Theni District.                | 2017 - 2018 |
| 17 | L. Athirshthalakshmi & G. Mahalakshmi | Biodiversity of insect fauna infesting Okra ( <i>Abelmoschus esculentus</i> ) vegetable crop at Boothipurum, Theni District.  | 2018-2019   |
| 18 | A. Banu & K. Samundeeswari            | Biodiversity of insect fauna infesting Lima bean ( <i>Phaseolus lunatus</i> ) crop at Silukkuvarpatti at Dindigul District.   | 2020 - 2021 |
| 19 | M. Janani                             | Biodiversity of insect in cabbage field in Chinnamanur in Theni District.   | 2021-2022   |
| 20 | M. Sowbakiavathy                      | Evaluation of phytochemical and antimicrobial activity of plant extracts <i>Vitex negundo</i> and <i>Calotropis procera</i> . | 2022-2023   |
| 21 | K. Sakthipriya                        | Evaluation of phytochemical and antimicrobial activity of <i>Abutilon indicum</i> and <i>Ocimum canum</i> .                   | 2023-2024   |

### SEMINARS / WORKSHOP ORGANIZED

- Organizing Secretary - UGC Sponsored National Seminar on “New Frontiers in Biology” on 18<sup>th</sup> & 19<sup>th</sup> December, 2012.
- Organizing Secretary - TNSCST Sponsored National Seminar on “Emerging Trends in Life Sciences” on 9<sup>th</sup> January, 2018.
- Convener - Webinar on “Honey Bees: Hope for Life” on account of World Entrepreneur Day on 27<sup>th</sup> August, 2021.
- Organizing Secretary - International Webinar on “Recent Trends in Life Sciences – Phase II “on 1<sup>st</sup> September, 2021.
- Organized guest lecture on “Impact and importance of Mushroom cultivation in current scenario” on 07<sup>th</sup> September, 2021.
- Organizing Secretary – One Day Hands on Training Programme on “Mushroom Fortified Bakery Products Preparation” on 15<sup>th</sup> December, 2021.
- Convener - International Conference on “Life Science Research and Intellectual Property Rights” on 19<sup>th</sup> and 20<sup>th</sup> September, 2022 through Google Meet in collaboration with IQAC & Department of Zoology, St. Joseph’s College for Women, Alappuzha, Kerala and Inter University Centre for IPR Studies, CUSAT, Kochi, Kerala.
- Convener – Guest lecture on “Zooterms” on 02.02.2023 through Google meet.

#### **REFRESHER COURSES / ORIENTATION COURSES ATTENDED**

| <b>Refresher/Orientation Course</b> | <b>University/College</b>            | <b>Date</b>                |
|-------------------------------------|--------------------------------------|----------------------------|
| Orientation Programme               | Madurai Kamaraj University           | 16.05.2012 -<br>12.06.2012 |
| Refresher Course                    | Madurai Kamaraj University, Madurai. | 09.03.2018 –<br>29.03.2018 |
| Refresher Course                    | Madurai Kamaraj University, Madurai. | 09.12.2020 –<br>22.12.2020 |

|  |   |  |
|--|---|--|
| Refresher Course on “Research Methodology”   | Teaching Learning Centre, Ramanujan College, University of Delhi under the aegis of Ministry of Education, Pandit Madan Mohan Malaviya National Mission. Teachers and Teaching from | 20.07.2021 to 03.08.2021.                                |
| SWAYAM Online Course on “Applied Entomology”   | Consortium for Educational Communication (CEC), New Delhi.  | August, 2021   |
| NPTEL-AICTE Faculty Development Programme on “Animal Physiology”                                     | NPTEL-AICTE, Funded by Ministry of HRD, Govt. of India. MOOCs mode.   | 26 <sup>th</sup> July to 24 <sup>th</sup> October, 2021. |
| UGC sponsored online Refresher Course in Zoology, Theme: “Recent Developments in Zoological Studies” | Madurai Kamaraj University, Madurai   | 02 <sup>nd</sup> to 15 <sup>th</sup> November, 2022.     |

### Course Materials Prepared

| Year      | Title              | Beneficiaries                     |
|-----------|--------------------|-----------------------------------|
| 2004-2005 | Food and Nutrition | II-year General Elective Students |
| 2008-2009 | Food and Nutrition | General Elective Students         |
| 2009-2010 | Food and Nutrition | General Elective Students         |
| 2012-2013 | Food and Nutrition | General Elective Students         |

### PROFESSION RELATED ACTIVITIES

#### Positions held in the College

| Position      | Committee           | Year        |
|---------------|---------------------|-------------|
| Member        | Fine Arts Committee | 2002 – 2004 |
| Staff Advisor | Adult Education     | 2004 – 2006 |

|                   |  |             |
|-------------------|--|-------------|
| Staff Advisor     | Fine Arts Committee  | 2006 - 2008 |
| Staff Advisor     | NSS  | 2008 -2009  |
| Programme Officer | NSS  | 2009 – 2010 |
| Staff Advisor     | NCC  | 2010 - 2011 |
| Programme Officer | NSS  | 2011 - 2013 |
| Staff Advisor     | JAC SAFA and Students service<br>leaque                    | 2013 - 2014 |
| Staff Advisor     | JAC SAFA, Students service<br>leaque&Entrepreneurship Cell | 2014 - 2017 |
| Staff Advisor     | JAC SAFA, Students service<br>leaque                       | 2017 - 2018 |
| Staff Advisor     | JAC SAFA, Students service<br>leaque,                      | 2018 - 2019 |
| Staff Advisor     | Avian club   |             |
| Staff Advisor     | JAC SAFA, Students service<br>leaque                       | 2019 - 2020 |
| Co-ordinator      | Avian club   |             |
| Co-ordinator      | Start Up Programme<br>Apiculture                           |             |
| Member            | IQAC   | 2020 - 2021 |
| Co-ordinator      | Start Up Programme<br>Apiculture                           |             |
| Member            | Consultancy Cell   |             |
| Member            | IQAC   | 2021 - 2022 |
| Co-ordinator      | Start Up Programme<br>Apiculture                           |             |
| Member            | Entrepreneurship Cell                                      |             |
| Member            | Consultancy Cell   |             |
| Member            | Institution Innovation Council                             |             |
| Member            | IQAC   | 2022 - 2023 |
| Co-ordinator      | Start Up Programme<br>Apiculture                           |             |
| Member            | Entrepreneurship Cell                                      |             |
| Member            | Consultancy Cell   |             |
| Member            | Institution Innovation Council                             |             |
| Co-ordinator      | Placement & Career Guidance<br>Cell                        | 2023 - 2024 |
| Member            | Entrepreneurship Cell                                      |             |
| Member            | Consultancy Cell   |             |

|              |                                  |             |
|--------------|----------------------------------|-------------|
| Member       | Institution Innovation Council   |             |
| Co-ordinator | Placement & Career Guidance Cell | 2024 - 2025 |
| Member       | Consultancy Cell                 |             |
|              |                                  |             |

### RESOURCE PERSONS

| S. NO | Seminar/Refresher Courses/Guest Lecture                                       | Title of Lecture                              | Place and Date  |
|-------|---|---|---|
| 1     | Workshop on Rural women towards Growth  | Natural Resources for Income                  | JayarajAnnapackiam College for Women(Autonomous) Periyakulam, 18 <sup>th</sup> March, 2010.   |
| 2     | NSS Camp  | Mushroom culture                              | Meenachipuram, 15 <sup>th</sup> November, 2010.   |
| 3     | NSS Camp  | Mushroom culture                              | Challipatti, 16 <sup>th</sup> November, 2010.   |
| 4     | Mushroom Culture Start Up Training Programme                                  | Mushroom Culture                              | PG and Research Centre of Zoology, JayarajAnnapackiam College for Women (Autonomous) Periyakulam. 19 <sup>th</sup> January, 2021.   |
| 5     | Apiculture Start Up Training Programme  | Handling bee colonies and extraction of honey | PG and Research Centre of Zoology, JayarajAnnapackiam College for Women (Autonomous) Periyakulam.23 <sup>rd</sup> January, 2021.  |
| 4     | Skill Enhancement Programme   | Honey Preparation                             | Foundation Course, JayarajAnnapackiam College for Women (Autonomous) Periyakulam. 12 <sup>th</sup> March, 2021.   |
| 5     | Hands on Training Programme   | Mushroom Cultivation                          | PG and Research Centre of Zoology, JayarajAnnapackiam College for Women (Autonomous), Periyakulam in collaboration with Tamil Nadu State Council for Science and Technology (TNSCST), on 24 <sup>th</sup> August, 2021. |
| 6     | Capacity Building, Skill Enhancement Programme organized by Foundation Course | "Honey Preparation"                           | Jayaraj Annapackiam College for Women (Autonomous), Periyakulam. 13 <sup>th</sup> April, 2022.  |
| 7     | NSS Camp, Arockiya Matha Nagar, Endapuli, Periyakulam Taluk                   | Bee Keeping                                   | Jayaraj Annapackiam College for Women (Autonomous), Periyakulam. 11 <sup>th</sup> December, 2022.   |

|    |   |  |  |
|----|---|--|--|
| 8  | Skill Development Programme on Women Empowerment  | “Mushroom Cultivation”                               | Dattopant Thengadi, National Board for Workers Education and Development (Ministry of Labour & Employment, Govt. of India), Regional Directorate, Madurai, and NSS, IIC, Jayaraj Annapackiam College for Women, Autonomous, Periyakulam. 18 <sup>th</sup> January, 2023. |
| 9  | JAC FEST – O-BEATS 2022-2023  | served as a Jury in the Fireless cooking competition | Jayaraj Annapackiam College for Women (Autonomous), Periyakulam. 11 <sup>th</sup> and 12 <sup>th</sup> January, 2023   |
| 10 | “Inservice training to science teachers” supported by Tamil Nadu State Council for Science and Technology” Chennai. | Hands on Training on Applied Science                 | PG and Research Centre of Zoology, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam. 04.01.2024 to 09.01.2024   |

#### EXAMINERS:

1. Acted as external examiner for M. Sc. Zoology practical examinations of Department of Zoology, Hajee Karutha Rowther Howdia College, Uthamapalayam on 27<sup>th</sup> May, 2022.

#### AWARDS RECEIVED:

1. “Golden Star Award” received on 18th July, 2021, Organized by Women’s Consumer Protection Association, Madurai.

#### MINOR PROJECT

|    |   |             |                |           |           |
|----|---|-------------|----------------|-----------|-----------|
| 1. | Immunotoxic effects of effluent from electroplating industry on the common carp, <i>Cyprinus carpio</i> . No: F. MRP-4198/12 (MRP/UGC-SERO) | UGC XI PLAN | Year 2013-2015 | 1, 75,000 | Completed |
|----|---|-------------|----------------|-----------|-----------|

|    |   |        |           |          |           |
|----|---|--------|-----------|----------|-----------|
| 2. | Rural-Urban connectivity centres for technology dissemination, Research and livelihood sustainability:<br>Mushroom cultivation and training.<br>Ref. No:<br>TNSCST/TDC/MOU/Grant/2019 | TNSCST | 16.9.2019 | 4,00,000 | Completed |
|----|---|--------|-----------|----------|-----------|