

PROFILE



Name : **Dr. M.R. DELPHINEROSE**
Designation : Associate Professor
Department : P. G. & Research centre of Zoology
Date of Birth : 30-06-1966
Date of Appointment : 20-06-2001

Address : **Mathar Manzil,
Mahatma Gandhiji Road,
Thamaraikulam, Periyakulam – 625 601.
Theni District, Tamilnadu, India.**

Area of specialization : **Immunology**

Academic Qualifications	University /Year of passing	Class / Merit obtained
SSLC	Board of Secondary Education / 1981	I
HSC	Board of Higher Secondary Education / 1983	I
B.Sc - Zoology	Madurai Kamaraj University / 1986	I
M.Sc	Madurai Kamaraj University / 1988	I
M.Phil	Bharadhidasan University / 1989	I
M.Ed	Annamalai University / 1992	I
CYP/ HRD Diploma in Youth in Development Work	Annamalai University / 2007	I
Ph.D	M.S. University, Tirunelveli / 2008	-

M.Phil Project : Bio-chemical studies on the effect of insulin on the muscle, liver tissues of *Oreochromis mossambicus*.

Title of Ph.D Thesis : Isolation and purification of lectin from a pill millipede, *Arthrospira radisticta*.

I. TEACHING & CONTRIBUTION TO PROFESSION RELATED ACTIVITIES

I(A).TEACHING

Classes taught

Class	Periods			
	Assigned per week		Taught in the year	
	Lecture	Tutorial/ Practical	Lecture	Tutorial/ Practical
UG	3	3	90	90
PG	7	3	210	90

- Weekly one hour each is allotted and conducted as Seminar hour for IIM.Sc, I M.Sc and III B.Sc to enhance the ability of the students on preparation of a particular topic and presentation to the audience.
- Attending Orientation and Refresher Courses, National and State level Seminars/Conferences, Discussion with Subject experts during Board of Studies meeting and Preparation of Question papers for other colleges facilitates to update the knowledge on recent topics and research activities.

Teaching methods followed

Apart from the regular Lecture method, the following teaching methods were adopted.

- Interactiveteaching
- Groupdiscussion
- Problemsolving
- GeneralAssignments
- GeneralViva
- Seminar
- Demonstration ofconcepts
- Viva in practical class before doing theexperiment

Contribution to Curriculum Development

- In 2004 -'05, when the college became autonomous, syllabus was framed for 4 fullpapers and partly for 3papers.

- During revision of syllabus in 2007-'08, syllabus is framed for 2 full papers and revised for 3papers.
- In 2008-'09, when the papers were prepared according to the norms of the State Government, syllabus is framed partly for 2papers.
- During revision of syllabus in 2011-,,12, syllabus is framed for 1 full paper and revised for 3papers.

Evaluation methods adopted

- CIA is evaluated according the presentation ofcontents.
- Assignments are evaluated based on the contents relevant to the topic given andneatness.
- Seminar is evaluated based on the preparation, presentation and the ability to answer questions on the topicpresented.
- UnannouncedQuiz
- Regular ClassTests
- ProblemTests
- Semester exams are evaluated according to the scheme of valuation given by the external question papersetter.

Remedial Teaching methods

As a regular practice of the College, for Remedial Coaching, students are allotted for each Staff member.

- Weak students are given coaching to get pass mark in all subjects and get the degree. They are asked to refer previous year question papers and prepare answers forthem.
- Bright students are given special coaching to score more marks to get Ranks. They are informed about the competitive exams and the ways to prepare for those exams, so that they get placement immediately after getting thedegree.

I (B). PROFESSION RELATED ACTIVITIES

Positions held in the College

Position	Committee	Year
Member	Discipline Committee	2001 – 2006
Member	Physical Education	2006-2007
Staff Advisor	Fine Arts Committee	2007 – 2009
Programme Officer	NSS – Programme Officer	2009 – 2011
Staff Advisor	Extension Service	2011 – 2012
Staff Advisor	Fine Arts	2012-2013
Programme Officer	NSS Programme Officer	2013-2014
Co-ordinator, Member	Minority, Hope club	2014 – 2015
Coordinator, Member	Minority, IQAC	2015-2016
Coordinator, Member	Minority, IQAC	2016-2017
Coordinator, Member	Minority, IQAC	2017-2018
Member	IQAC	2018-2019
Coordinator, Member	Eco Club, IQAC	2019-2020
Coordinator	Eco Club, Environmental Studies	2020 -2021
Coordinator	Eco Club, Environmental Studies	2021-2022

Membership of Professional Bodies

- Member of the Board of Studies in Zoology of JayarajAnnapackiam College for Women (Autonomous), Periyakulam since 2004-2005.

Question Paper Setting/Valuation

Year	Institution	Setting / Valuation
8 th , 9 th & 10 th December 2010	Mother Teresa Women's University	Central Valuation

II. RESEARCH AND DEVELOPMENT RELATED ACTIVITIES

II (A). Research Publication (IN JOURNALS)

1. "Biochemical studies of insulin effect on fresh water fish, *Oreochromis mossambicus* on muscle tissue", J. Curr. Sci. 7(2): 505 - 508(2005).

2. "Biochemical studies of insulin effect on fresh water fish, *Oreochromis mossambicus* on liver tissue", J. Curr. Sci. 7(2): 499 - 503 (2005).
3. Critical analysis of ground water quality of Nilakkottai Taluk of Tamil Nadu, India. J. Curr. Sci. 9(2): 931 - 934(2006).
4. Physico-Chemical status of ground water in Dindigul District, Tamil Nadu. Aquacult. Vol 8(1): 133 - 137(2007).
5. Drinking Water Quality Analysis of some Bore-well water of Theni District, Tamil Nadu. Environment & Ecology 25(1): 212 - 215(2007).
6. Influence of medicinal plant products on the bio-energetic parameters of *Oreochromis mossambicus* as a function of feeding frequency. J. Aqua. Biol. Vol 22 (2): 167 - 172 (2007).
7. Biomass and density effects on the haematological changes of freshwater fish, *Cyprinus carpio*. J. Aqua. Biol. Vol. 22(1): 169 - 172(2007).
8. Characteristics of ground water quality of selected areas of Dindigul District. Tamil Nadu. J. Aqua. Biol. Vol. 23(2): 40 - 43(2008).
9. Drinking water quality of schools in Theni District. Environment & Ecology, 27(4): 1503 - 1506(2009).
10. Water quality assessment in Theni District, Tamil Nadu, India. J. Aqua. Biol. 25(1): 66 - 68 (2010).
11. Effect of different animal diets on energy budget of fresh water fingerlings *Catla catla* and *Cirrhinus mrigala*. Res. Environ. Life Sci. 4(2): 75 - 78(2011).
12. Physico Chemical study of ground water of selected areas in Theni Dist, TamilNadu. J.ofCurr. Sci – Vol (16) 2:2011.
13. Evaluation of physical and chemical characteristics of water at Sothuparai reservoir, Theni Dist, Tamil Nadu, India. International Research Journal of Environment Sciences, Vol.3(8), 36-39 ; ISSN 2319-1414, August, 2014
14. Diversity and distribution of aquatic insects in Sothuparai reservoir, At Periyakulam, Theni District Tamilnadu, India. International Journal of Current Research and Review, Vol.7: Issue (9): 10 – 15. May, 2015
15. Feeding guild and diversity of avifauna at Sothuparai reservoir, Periyakulam, Theni district, Tamilnadu, India. International Journal of Recent Scientific Research , vol.6, Issue, 12, pp. : 0976-3031, December, 2015
16. Invertebrate Lectins and their Biomedical Importance. Journal of the International Association of Advanced , Technology and Science, Vol.16, March, 2015, ISSN No: 4347-4482,
17. Diversity of Insects in Sugarcane Field at Chinnamanur, Theni District, Tamilnadu, International journal for innovative research in multidisciplinary field. Vol-2, Issue-10, Oct-2016.
18. Foraging Patterns of birds in resource partitioning in Tropical mixed dry Deciduous

Forest, India, Journal of Energy and Natural Resources, ISSN: 2330-7366, 2016, Volume 5 Issue 2 pp16-29

19. Eco-hydrobiology with Special Reference to Entamofauna and Avifaunal Diversity of Sothuparai Reservoir, Periyakulam, Theni District, Tamilnadu, India, Hydrology ISSN: 2330-7609, 2016, Vol.4(3), pp26-34.
20. Pollination by Insects in *Tagetes Erecta* Linn, JAC Journal of Science,(2016). Humanities and Management. ISSN: 2347-9868 3(2).104-113.
21. A Study on Aneamia in Relation to Age and Sex among the School Students T. Sindalaichery,Theni (Dt) JAC Journal of Science,(2017).ISSN: 2347-9868,Vol.5(1), 213-223.
22. Biodiversity of Insects in Paddy Field at Jeyamangalam, Theni District, India. International Journal of Current Trends in Science and Technology (2018) Print ISSN: 0976-9498 Pg: ZO20197-20202
23. Abundance and Diversity of Pests in Paddy Fields in Theni District, India. International Journal of All Research Education and Scientific Methods (IJARESM), ISSN: 2455-6211, Vol 9, Issue-1, January,2021, Impact factor:7.429.
24. Nirmala T, K. Jency Priya, and M. R. Delphine Rose 2021. Physico chemical analysis of coffee effluent before and after treatment with *Tridax procumbens* and its impact on the growth of tomato plant *Solanum lycopersicum*. Poll Res. 40 (2): 497-505.
25. Nirmala T, M. R. Delphine Rose,K. Jency Priya, and B. Vijayabharathi 2021.Physico-chemical analysis of contaminated soil and effluent collected from tannery industries in Dindigul, India. Poll Res. 40 (2): 423-428.
26. Nirmala. T, K. Jency Priya and M. R. Delphine Rose 2021. Physico-chemical and heavy metal analysis of contaminated soil near coffee industry in Jayamangalam, Theni district, T.N., India Eco.Env. & Cons. 27 (2):900-904.
27. 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. Poll Res. 40 (2): 485-492.

Major Project:

Co-investigator in the Major Research Project in Zoology entitled “Composition and Trophic Analysis of entamofauna and endemic avifauna with special reference to physico chemical analysis of water and soil at sothuparai reservoir, Theni District”.

II (B). RESEARCH GUIDANCE

M.Sc Project: Department of Zoology, JayarajAnnapackiam College for Women
(Autonomous)affiliatedtoMotherTeresaWomen’sUniversity, Kodaikanal)

Name of the student	Topic	Year of Submission
J. Angel Rani & T. Chitravalli	A study on the physico – chemical characteristics of ground water in Dindigul District.	2005 -2006
P. Mahalakshmi	A study on ground water quality in and around areas of Kallothee, Usilampatty Taluk, Madurai District.	2006 – 2007
T. Priya	Ground water quality assessment in villages around Usilampatty, Madurai District.	2006 – 2007
R. Kalaivani	Critical analysis of ground water quality of Aundipatti Taluk, Theni District.	2007 – 2008
I. Thahira	Drinking water quality analysis of some borewell water from Bodi Taluk, Theni District	2007 – 2008
N. Amutha&T. Maheswari	Foraging behaviour of insect visitors and pollination ecology of <i>Helianthus annus</i> .	2008 – 2009
S. YuvanaYubatta Mary & M. Elakkiya	Pollination by insects in <i>Lantana camera</i>	2008 – 2009
P.Murugeswari& R.Nathiya	Effect of <i>Azadirachtaindica</i> , <i>Pongamiapinnata</i> and <i>Madhucalongifolia</i> products on <i>Meloidogyne incognita</i> juveniles which affect tomato plants.	2009 – 2010
K. KalpanaThath& S. JarinaBanu	Pollination by insects in <i>Tagetes erecta</i> Linn.	2010 – 2011

S. Mumtaz	Abundance and Richness of insects in paddy field at Bodinayakanur, Theni District	2011-2012
G. ChellaPandi	Critical analysis of borewell water at Bodinayakanur Taluk, Theni District	2012-2013
R. Deepa	Pollination by insects in Lab Lab purpurens	2013-2014
G. Elekeya	Pollination by insects in Luffa acutangula	2013-2014
M. Dhanalakshmi	Abundance and Richness of insects in paddy field at Alagapuri, Viruthunagar District.	2014-2015
B. Sharmila	Abundance and Richness of insects in paddy field at Chettinayakanpatti, Dindigul District.	2014-2015
K. Vijayalakshmi	Pollination by insects in <i>Vigna mungo</i>	2015-2016
M. Muthu Divya	Pollination by insects in <i>Abelmoschus esculentus</i>	2015-2016
J. Gnanageetha I. Gowri	Abundance & Richness of insects in paddy field at tjeamangalam, Theni District	2016-2017
K. Nagajothi	Abundance & Richness of insects in paddy field at theppampatti, Theni District	2017-2018
P. Durgadevi M. Rajeshwari X. Vergin Mary	Pollination by insects in brinjal	2018-2019
S. Aruna Devi R. Glory	Critical Analysis of Borewell Water At Theni District	2019 -2020
M. Keerthika Devi (19JPZOR06) S. Preetha (19JPZOR10)	Abundance and richness of insects in paddy field at Batalagundu, Dindigul District.	2020-2021

P.hD Project:

Name of the student	Reg. No	Reg. Date	University/College
A. SHEELA	Ph.DZOO15P365	18.02.2015	M. T. University
SUBALAKSHMI	Ph.DZOO15P527	06.07.2017	M. T. University
A. ANITHA MARY	PHDZOO18P577	08.10.2018	M. T. University
S. JARINA BANU	Ph.DZOO19P588	22.02.2019	M. T. University

M. Phil Project:

Name of the Student	Topic	Year of Submission	University/College
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M. Ammu	Impact of Siddha Drugs enriched formulated feed and the feeding	2007 - 2008	J.A.College for Women, Periyakulam.
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	frequency on growth and biochemical studies in the common carp, <i>Cyprinus carpio</i> .		
R. Kalaiyarasi	Composition and tropic categorization of aquatic insects and biomonitoring of selected streams of southern western ghats.	2007 - 2008	J.A.College for Women, Periyakulam.
S.DevaShanthi	A Study of anemia in relation to age and sex among school children in Sindalaicherry, Theni Dt.	2009 - 2010	J.A.College for Women, Periyakulam.
StarlinPrabha	Comparative study of Physico-chemical parameters of coastal and inland water of Kanyakumari District.	2009 - 2010	M.S. University, Tirunelveli.
M. Rakkammal	Abundance Richness & population dynamics of insects in paddy field at Aundipatty Taluk, Theni District	2016-2017	J.A.College for Women, Periyakulam.
P. Vinnoli	Abundance Richness of insects paddy field at cumbum, Theni District.	2017-2018	J.A.College for Women, Periyakulam.

II (C). REFRESHER COURSE/CONFERENCE /SEMINAR/WORKSHOP PARTICIPATION & ORGANIZATION

Refresher Courses / Orientation Courses attended

Refresher/Orientation Course	University/College	Date
Orientation Programme	Madurai Kamaraj University	01-11-2006 to 28-11-2006
Refresher Course in Life Science	University of Kerala	15-06-2007 to 05-07-2007
Refresher Course in Life Science	University of Kerala	08.12.2009 to 29.12.2009
Refresher Course in Life Science	Madurai Kamaraj University	16-11-2012 to 06-12-2012

Seminars/Conferences/Workshops attended in India / Abroad

S.No	Date / Year	National / International Seminar attended	Place
1.	09-08-2002	State level Conference on “Water management : resources, pollution and effect on health”	St. John’s College, Palayamkottai.
2.	5 th - 7 th Feb 2003	National Level Conference on “25 years of Autonomy” – Vision,	Loyola, Chennai.

		Experience & future directions	
3.	10-10-2003	State level Conference on “Applied aspects of Industrial Bio-technology”	Holy Cross College, Nagercoil.
4.	20-01-2005	Inter National Workshop on “Bioethics Education”	J.A.College for Women, Periyakulam.
5.	24 th , 25 th Jan 2006	Workshop on “Bio Diversity Measures”	J.A.College for Women, Periyakulam.
6.	14 th – 20 th Jan 2006.	State Level Workshop on “Inculcating Principles for a value based living”	Womens Christian College, Nagercoil.
7.	7 th , 8 th Dec. 2006	National Seminar on “Environmental Biotechnology for human welfare”	J.A.College for Women, Periyakulam.
8.	11, 12-01-2007	National Conference on Recent Trends in Understanding and Applying the Theory and Practice of Values.	J.A.College for Women, Periyakulam.
9.	22, 23-02-2007	International Conference on “Opportunities & Challenges in Biotechnology and Environmental Sciences”	Vellalar College for Women, Erode.
10.	19, 20-12-2007	National Seminar on “Participative & Responsive Organizational Dynamics for Quality Improvement in Autonomous Colleges”.	J.A.College for Women, Periyakulam.
11.	10-03-2008	National Seminar on “Environment & Health”	Holy Cross College, Nagercoil.
12.	29.8.2008	State level Conference on “Christian values for wholesome life”	J.A.College for Women, Periyakulam
13.	27.1.2009	State Level Conference on “Modern Biological Sciences”	J.A.College for Women, Periyakulam
14.	23.2.2009	University Level workshop on “Application of Statistical Packages in Biology”	J.A.College for Women, Periyakulam
15.	02-03-2009 & 03-03-2009	National Conference on “Quality and Relevance in Higher Education-New Challenges”	J.A.College for Women, Periyakulam

16.	09-03-2009 & 10-03-2009	National Seminar on “Conserve the Mother Earth-Need of the Hour”	J.A.College for Women, Periyakulam
17.	14-12-2009 & 15-12-2009	State Level Workshop on “Modern Biotechnology in Indian Agriculture”	Priyadarshini Auditorium, Trivandrum.
18.	26-11-2010 & 27-11-2010	State Level Workshop on “Higher Education in a changing Environment”	J.A.College for Women, Periyakulam.
19.	06-12-2010 & 07-12-2010	National Conference on “Inoculation of Values Holistic life A midst Technological Scenario”	J.A.College for Women, Periyakulam.
20.	16-12-2010	State level Seminar on “Biodiversity-Measures for conservation and Management”	J.A.College for Women, Periyakulam.
21.	2 to 9-03-2011	National Seminar on “Value Education”	NBCLC, Bangalore.
22	12, 13-11-2011	Workshop on “Recent trends in science for talented rural students of Periyakulam Educational District	J.A.College for Women, Periyakulam.
23	14, 15-02-2012	Workshop on Hands on Training in Avian studies	J.A.College for Women, Periyakulam.
24	18,19-12-2012	National Seminars on “New Frontiers in Biology”	J.A.College for Women, Periyakulam.
25	11 to 15-02-2013	Statistical packages for the Social Sciences	J.A.College for Women, Periyakulam.
26	5 to 10-06-2013	Counsellor Training Course	J.A.College for Women, Periyakulam.
27	19-08-2013	International Seminar on Modern Trends in applied microbiology	J.A.College for Women, Periyakulam.

28	3 to 7-09-2013	Faculty Training programme in Entrepreneurship	J.A.College for Women, Periyakulam.
29	13-11-2013	Reforms in curriculum development and Examination System	J.A.College for Women, Periyakulam.

- Attended a State level seminar on “Statistical Packages for the Social Sciences” at J. A. College for Women, Periyakulam from 11th & 15th February, 2013.
- National workshop on E-content development from effective teaching and learning at J. A. College for Women, Periyakulam from 11th to 13th September 2014.
- National seminar on Interdisciplinary applications of biology at J. A. College for Women, Periyakulam from 28th January 2015 to 29th January 2015
- Attended sponsored National Seminar on Sustainable Development and the role of women in Nation building on Women and Health in UGC at J. A. College for Women, Periyakulam from 11th & 12th February 2015.
- One day workshop on Polymerase chain reaction Techniques by Eppendorf India Ltd., Chennai Organized by PG Department of Zoology on 02nd September, 2015.
- Ranking the research publication- citation analysis, citation database and antiplagiarism at J. A. College for Women, Periyakulam from 27th to 28th January 2016
- NAAC Sponsored National Conference on Quality Assurance and Quality Sustenance in Higher Educational Institutions: Challenges and Solutions Organized by Internal Quality Assurance Cell (IQAC) at J. A. College for Women, Periyakulam from 29th to 30th September, 2016
- International workshop on Statistics using excel and SPSS at Holy cross college, Nagercoil from 9th January 2017 to 10th January 2017.
- International conference on Genomics at Holy cross college, Nagercoil from 6th January 2018.
- Attended the one day national seminar on Emerging trends in Life Science at J.A. College for women, Periyakulam on 9th January 2018.
- Attended the two days Workshop on Women In Science and Research at J.A. College for women, Periyakulam on 19th and 20th February 2018.
- Attended the Workshop on Help at Hand Strengthening Faculty in Counselling Techniques to Facilitate Gen Z at Christopher College of Education Chennai, from 13th - 20th October 2018.
- Attended the two days national seminar on Emerging trends in Current environmental

issues at J.A. College for women, Periyakulam on 11th and 12th December 2019.

- Attended Online webinar on outcome based education at J.A. College for women, Periyakulam on 22.05.2020-29.05.2020
- Attended International webinar on Brief perspectives of nanotechnology-Biosynthesis and Bio-application of nano particles at J.A. College for women, Periyakulam on 27.05.2020-29.05.2020
- Attended International webinar on Recent Trends in Life Sciences at J.A. College for women, Periyakulam on 5th and 6th January 2021.
- Attended national webinar on outcome based education at J.A. College for women, Periyakulam from 22.05.2020-29.05.2020
- Attended International Brief perspectives of nanotechnology-Biosynthesis and Bio-application of nano particles at J.A. College for women, Periyakulam on 27.05.2020-29.05.2020.
- Attended national Webinar on Honey bees: Hope for life at J.A. College for women, Periyakulam on 27.08.2021.
- Attended International webinar on Recent Trends in Life Sciences-Phase II at J.A. College for women, Periyakulam on 01.09.2021.

Training Programmes attended

- International Awareness Workshop and Training Programme on Bioethics Education sponsored by Eubios Ethics Institute on 20th January, 2005, at JayarajAnnapackiam College for Women (Autonomous), Periyakulam – 625601.

Papers presented

S.No.	Date	Seminar	Title of the paper	Place and date
1.	22 nd , 23 rd February 2007	International Conference	Identification of Agglutinins in the Hemolymph of few millipedes	Vellalar College for Women, Erode.
2.	10 th Mar ch 2009	National Seminar	Critical analysis of total dissolved solids, total hardness and chloride characteristics ground water of selected areas at Aundipatti Taluk.	J.A.College for Women, Periyakulam
3	18 th & 19 th Dec 2012	National Seminar on New Frontiers in Biology	Abundance and richness of insects in paddy field at Bodinayakanur, TheniDistrict	J.A.College for Women, Periyakulam

Details of Seminars, Conferences, Symposia organized

- Organizing Secretary for the National Seminar on “Conserve the Mother Earth-Need of the

Hour” in 9th& 10th March2010.

- Organizing Secretary for the international workshop on “SPPS” on 5th& 6th September 2017 at JayarajAnnapackiamcollege for women, periyakulam.
- Organizing Secretary for the National seminar on “Emerging Trends in Current environmental issues” on 11th and 12th December 2019 at Jayaraj Annapackiam college for women , Periyakulam.
- Convener for International on webinar on Recent Trends in Life Sciences-Phase II at J.A. College for women, Periyakulam on 01.09.2021.

AWARD:

WOMEN RESEARCHER AWARD by International Scientist Awards on Engineering, Science and Medicine 04 & 05-Jun-2021 | Ooty, India.