



1. GENERAL

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Date of Birth : 03 – 03 – 1950

Date of superannuation : 03 – 03 - 2015

Nationality : Indian

Husband : Rev (Dr) M.Daniel

Daughter : Ms.Sharon Daniel
Software Engineer, Singapore

Grand daughter : Baby, Jessica Paul.

2. EDUCATIONAL QUALIFICATIONS

Sl. No	Degree	Year of study	Institution/University where studied	Subject
1.	Ph.D.,	1992	Gandhigram Rural Institute, Deemed University	Biology (Zoology) (fish feed formulation) *
2.	M.Ed.,	1983	Annamalai University	Education
3.	B.Ed.,	1980	Annamalai University	Education
4.	M.Sc.,	1972	The American College, Madurai University	Zoology
5.	B.Sc.,	1970	Lady Doak College Madurai University	Zoology
6.	P.U.C.	1967	Holy Cross Collge Trichy, Madras University	Science group
7.	S.S.L.C.	1966	Orlinda Childs Pearce Memorial Girls High School, Madurai	General group

CERTIFICATE COURSES STUDIED

1.	Basic level Certificate	1984	Association of Indian Universities, New Delhi.	Evaluation, methodology & examinations
2.	Intermediate level certificate	1986	Association of Indian Universities, New Delhi.	Evaluation, methodology & examinations

* Title of Ph.D. thesis: Evaluation of certain wild seed kernels as protein supplement in the feed of Indian major carp, *Cirrhinus mrigala* (Hamilton).

3. POSITIONS HELD

Sl. No.	Positions	Department/ Faculty	Nature of Duties
1.	Professor and Head (21.7.1999 till 7.7.2009)	Department of Biology, GRU.	Teaching (PG & UG courses), Research, Extension work, Administration and guiding Ph.D. scholars.
2.	Dean, Student's Affairs (August 2005- August 2008)	Gandhigram Rural University	Student welfare Activities (Discipline, Scholarship, Transports, Purchase, Chief warden, Ragging control etc)
3.	Dean, FROS (6.4.96 to 5.4.99)	Faculty of Rural Oriented Sciences	Co-ordination of the academic activities of the seven Science Departments.
4	Reader and Head (9.7.1992 – 21.7.1999)	Department of Biology, GRI.	Teaching (P.G. & U.G. Courses), Research, Extension and Administration and Guiding Ph.D.scholars
5.	Senior Lecturer & HOD-in-charge (9.7.1987 - 8.7.1992) (with a break in 1988-89 in being the HOD)	Department of Biology, GRI	Teaching, Research, Extension & Administration.
6.	Lecturer and HOD-in- charge (9.7.1979 - 8.7.1987)	Department of Biology, GRI.	Teaching, Research, Extension & Administration.
7.	Senior Lab. Technician (Entomologist) (14.4.1974 -8.7.1979)	Faculty of Rural Health & Sanitation, GRI	Teaching and Extension

4. TEACHING EXPERIENCE

Total years of Teaching - 35 years (1974 - 2009)

4-1. P. G. Teaching - 30 years
U. G. Teaching - 35 years

4-2. Between 14.4.1974 and 8.7.1979 **Dr. Thilagavathy Daniel** had been working in the Faculty of Rural Health and Sanitation, GRI and during that period she had been offering courses on Medical Entomology and Parasitology for the Sanitary Inspectors Course, Advanced Course for Sanitary Inspectors, Post Graduate Diploma Course in Health Education, Lady Health Visitors Course and for Medical and Para-Medical personnel. She was also responsible for Organizing Field Visits and Extension Activities to the Trainees in the field of their study.

4-3. Between 1979- 2009 she developed the Department of Biology from an Ancillary level to the level of Post-Graduate Teaching, Research and Extension.

a) In 1993, a Post Graduate Programme, i.e. M.Sc., Applied Biology was started under the leadership of **Dr. Thilagavathy Daniel** and Thirteen batches have gone out. It is a four semester programme with 22 credits for each semester.

b) During 2002 another Post Graduate Programme i.e., M.Sc., Microbiology, a self-finance programme has been started. Village Placement Programmes, Seminar Sessions, Project work, Job oriented training and Extension activities are the special features of these programmes.

c) During 2007 M.Sc., Applied Biology was split into M.Sc Zoology and M.Sc., Botany thus making it a three post-graduate programme Department.

4-4. She offers courses to the Post graduate and undergraduate and M.phil., programmes in the area of Invertebrata, Chordata, Cell biology, Genetics, Biology for Rural Applications, Parasitology, Entomology and Environment and also offers Ph.D., programmes.

5. RESEARCH EXPERIENCE & INTEREST

RESEARCH EXPERIENCE

Dr. Thilagavathy Daniel has 30 years of research experience. She held three major projects and five minor projects.

She is responsible for developing the Research Laboratory of the Department of Biology.

One of her scholars Dr.N.Manivannan has deposited two organisms, a *Rhizobium* sp (GGNM66) and a *Bacillus* sp (GGTD67) in the GEN bank of National Centre For Biotechnological Information (NCBI), USA and European Molecular Biological Lab (EMBL) and DNA Data Bank of Japan (DDBJ)

Another scholar of her Dr. J.A.John paul has studied the municipal solid waste profile of Dindigul District and has designed a suitable model for solid waste disposal of this Class-I Town.

Yet another scholar Dr.N. Karmegam has identified an earthworm species new to India, *Perionyx ceylanensis* and has introduced it for vermicomposting technology.

Introduced Internship Training programme to all the students of the three Post graduate programmes W.e.f.2006.

RESEARCH INTEREST

Dr. Thilagavathy Daniel is interested in Research and Development work related to Rural Bio-technology covering eco-friendly methods of increasing the rate of production, sustainable agriculture, improving the capacity and standard of the Rural Poor, Conservation of the Bio-diversity and the Environment etc. all leading to Rural Development. Some of them are listed below:

- Vermicomposting for sustainable agriculture.
- Vector and pest control using phyto-toxins.
- Feed formulation using conventional and non-conventional protein sources.
- Enhancement of crop production using biofertilizer enriched vermicompost.

6. RESEARCH PUBLICATIONS

6- A. In referred journals

- 1) **Thilagavathy Daniel**, R. Kumuthakalavalli and Utharah Kesavan, 1990. Toxicity of tannery effluent upon the fresh water fish, *Tilapia mossambica* (Peters) *J. Aquor.*, 3(1): 23-28.
- 2) **Thilagavathy Daniel** and S. Sahayaraj, 1990. Evaluation of *Leucaena leucocephala* (Subabul) seed kernel as a protein supplement for *Sarotherodon mossambica* (Peters). *The Indian Zoologist*, 14(1&2): 155-157.
- 3) **Thilagavathy Daniel** and Utharah Kesavan, 1990. Toxic effect of the tannery effluent on the nymphs of *Brachythemis contaminata* (Fabricius) in a South Indian Township (Anisoptera, Libellulidae). *Indian Odonatology*, 3: 45-51.
- 4) **Thilagavathy Daniel**, A. Mathiazhagan and K. Boominathan, 1990. Evaluation of *Gliricidia maculata*, *Ipomea cornea* and paddy straw as alternate feedstock for the production of Biogas. *Journal of Ecobiology*, 2(2): 113-121.(International)
- 5) **Thilagavathy Daniel** and R. Kumuthakalavalli, 1991. The use of *Spirulina*, a blue green alga as a substitute for fish meal in diets for *Cirrhinus mrigala* fingerlings. *The Indian Zoologist*, 15 (1&2): 5-7.
- 6) **Thilagavathy Daniel** and S. Ravanappa, 1991. Inclusion of soy bean meal in the diet for *Cirrhinus mrigala* (Hamilton) fingerlings. *Trends in Life Sciences*, 6(1): 53-55.
- 7) **Thilagavathy Daniel** and R. Kumuthakalavalli, 1992. Use of *Eriodendron anfructuosum* seed kernel as a component in the pelleted feed of *Cyprinus carpio* var. *communis*. *Journal of Ecobiology*, 4(1): 15-18.(International)
- 8) **Thilagavathy Daniel** and D. Chandrasekaran, 1993. Preparation of feed for aquarium fish - A Technology for women. *Res. High. JADU*, 3: 111-113.
- 9) **Thilagavathy Daniel**, S. Umarani and M. Sakthivadivel, 1995. Insecticidal action of *Ervatamia divaricata*, L., and *Acalypha indica*, L., against *Culex quinquefasciatus* Say. *Geobios New Reports*, 14: 95-98.

- 10) Rajan, M.R., J.T. Begam and **Thilagavathy Daniel**, 1996. Feed utilization and growth of *Cyprinus carpio* var. *communis* in relation to different protein levels. *Environment & Ecology*, 14(1): 60-66.
- 11) Rajan, M.R., P. Neelaveni and **Thilagavathy Daniel**, 1996. Feed utilization and growth of ornamental fish Koi carp, *Cyprinus carpio* var. *koi* in relation to different protein levels. *Environment & Ecology*, 14(4): 876-882.(International)
- 12) Rajan, M.R., **Thilagavathy Daniel** and C. Jeyapushparani, 1996. The effect of sublethal concentrations of tannery effluent affected water on the survival and feeding energetics of *Cyprinus carpio* var. *communis*. *Journal of Ecology & Environmental Sciences*, 22: 297-302.(International)
- 13) Karmegam, N., M. Sakthivadivel, V. Anuradha and **Thilagavathy Daniel**, 1997. Indigenous plant extracts as larvicidal agents against *Culex quinquefasciatus* Say. *Bioresource Technology*, 59 (2&3): 137-140.(International)
- 14) Nagarajan, N.S., C.N. Manoj, R. Priya., M. Sakthivadivel and **Thilagavathy Daniel**, 1998. Effect of biochanin-A against filarial vector. *Ancient Science of Life* 18(1): 19-23.
- 15) Alagumalai, K., N. Karmegam and **Thilagavathy Daniel**, 1999. Synergetic action of Norflaxacine and glycine supplementation on the growth and productivity of *Bombyx mori* L. *Journal of Ecobiology*, 11(1): 19-22. (International)
- 16) Alagumalai, K., N. Karmegam and **Thilagavathy Daniel**, 1999. Effect of supplementation of mulberry leaves with *Phaseolus aureus* to the silkworm *Bombyx mori* L. *Environment & Ecology*, 17(1): 11-13.
- 17) Anuradha, V., T. Lakshmi, M. Sakthivadivel and **Thilagavathy Daniel** (1999). Effect of certain plant extracts against the larvae of filarial vector, *Culex quinquefasciatus* Say. *Journal of Ecobiology*, 12 (2): 93-98. (International)
- 18) **Thilagavathy Daniel**, N. Karmegam and K. Alagumalai, 1999. Vermiculture - An approach for sustainable agriculture. *Journal of Extension & Research*, 1(2): 16-23.
- 19) **Thilagavathy Daniel** and N. Karmegam, 1999. Bioconversion of selected leaf litters using an African epigeic earthworm, *Eudrilus eugeniae*. *Ecology, Environment & Conservation*, 5(3): 271-275.(International)

- 20) Karmegam, N. and **Thilagavathy Daniel**, 1999. Influence of leaf litter substrates on the growth and reproduction of the earthworm, *Eisenia fetida* (Oligochaeta). *Flora & Fauna*, 5(2): 97-98.
- 21) Karmegam, N. and **Thilagavathy Daniel**, 1999. Microflora in the casts of the earthworm, *Drawida chlorina* (Oligochaeta: Moniligastridae) and in circumfused soil. *Flora & Fauna*, 5(1): 51-52.
- 22) Karmegam, N., K. Alagumalai and **Thilagavathy Daniel**, 1999. Effect of vermicompost on the growth and yield of green gram *Phaseolus aureus* Roxb. *Tropical Agriculture*, 76(2): 143 – 146 .(International)
- 23) Daniel T., N. Karmegam and K. Alagumalai 1991. Vermiculture-an approach for sustainable agriculture. *Journal of extension and Research* 1(2): 16-23.
- 24) Karmegam, N. and **Thilagavathy Daniel**, 2000. Decomposition of leaf litters using the compost worm, *Eisenia fetida*. *Indian Journal of Environment & Ecoplanning*, 3(1): 111-116.
- 25) Karmegam, N. and **Thilagavathy Daniel**, 2000. Population dynamics of a peregrine earthworm, *Pontoscolex corethrurus* in an undisturbed soil in Sirumalai Hills of Tamil Nadu, South India. *Journal of Ecological Research & Bioconservation*, 1(1): 9-14.
- 26) Nagarathnam, B., N. Karmegam and **Thilagavathy Daniel**, 2000. Microbial changes in some organic materials subjected to earthworm action. *Journal of Ecobiology*, 12(1): 45 – 48 .(International)
- 27) Karmegam, N. and **Thilagavathy Daniel**, 2000. Growth and reproduction of an epigeic earthworm *Eudrilus eugeniae* Kinberg.(Oligochaeta: Eudrilidae) in leaf litter substrates. *Journal of Experimental Zoology, India*, 3(2): 223 – 226.
- 28) Karmegam, N. and **Thilagavathy Daniel**, 2000. Effect of biodigested slurry and vermicompost on the growth and yield of cow pea, *Vigna unguiculata* (L.) Walp. variety C1. *Environment & Ecology*, 18(2):367– 370.
- 29) Karmegam, N. and **Thilagavathy Daniel**, 2000. Utilization of some weeds as substrates for vermicompost preparation using an epigeic earthworm, *Eudrilus eugeniae*. *Asian Journal of Microbiology, Biotechnology & Environmental Sciences*, 2(1-2): 63 - 66 .(International)

- 30) Karmegam, N. and **Thilagavathy Daniel**, 2000. Effect of methyl parathion on hatching of the cocoons and hatchling survival of the earthworm, *Eisenia fetida*. *Environment & Ecology*, 18(4): 926 - 928.
- 31) Karmegam, N. and **Thilagavathy Daniel**, 2000. Selected physico-chemical characteristics and microbial populations of the casts of the earthworm, *Pontoscolex corethrurus* (Muller) and surrounding soil in an undisturbed forest floor in Sirumalai Hills, South India. *Asian Journal of Microbiology, Biotechnology & Environmental Sciences*, 2(3-4): 231 - 234. (International)
- 32) Karmegam, N. and **Thilagavathy Daniel**, 2000. Abundance and population density of three species of earthworms (Annelida: Oligochaeta) in foothills of Sirumalai (Eastern Ghats), South India. *Indian Journal of Environment & Ecoplanning*, 3(3): 461 - 466.
- 33) Karmegam, N. and **Thilagavathy Daniel**, 2001. Effect of tannery effluent on cocoon hatchability and hatchling survival of epigeic earthworms, *Eudrilus eugeniae* and *Eisenia fetida*. *Journal of Experimental Zoology, India*, 4(2): 233-238.
- 34) Karmegam, N. and **Thilagavathy Daniel**, 2001. A first report on the occurrence of a Megascolecid earthworm, *Lampito kumiliensis* (Annelida: Oligochaeta) in Sirumalai Hills of Tamil Nadu, South India. *Ecology, Environment & Conservation*, 7(1): 115-116. (International)
- 35) Karmegam, N. and **Thilagavathy Daniel**, 2001. Effect of methyl parathion on hatching of cocoons of the earthworms, *Eudrilus eugeniae* and *Perionyx excavatus*. *Uttar Pradesh Journal of Zoology*, 21(2): 103-108.
- 36) Sakthivadivel, M. and **Thilagavathy Daniel**, 2003. Larvicidal and chemosterilant activity of the acetone fraction of petroleum ether extract from *Argemone mexicana* L. seed. *Bioresource Technology*. 89: 213-216. (International)
- 37) John Paul, J.A., N. Karmegam and **Thilagavathy Daniel**, 2005. Effect of worm population on biomass of *Eudrilus eugeniae* in municipal solid waste and the status of microorganisms. *J. of Ecobiol.* 17 (6): 567-570. (International)
- 38) John Paul, J.A. and **Thilagavathy Daniel**, 2006. Bio-medical waste generation and impact on environment and health in small towns. *Indian J. Environ. And Ecoplan.* 12(1): 67-70.

- 39) John Paul, J.A. and **Thilagavathy Daniel**, 2006. Standardization of predecomposition days for vermicomposting of municipal solid waste. *Environment and Ecology*. 24(3): 575-577 .
- 40) John Paul, J.A. and **Thilagavathy Daniel**, 2006. Assessment of Aeromicrobial Load in Municipal Solid waste Dumpsite in Dindigul Township. *Indian Journal of Applied Microbiology*. 6(1):108-110.
- 41) John Paul, J.A. and **Thilagavathy Daniel**, 2007. Environmental Impact Assessment of Municipal Solid Waste Dumpsite Through Water Quality. *IJEP*. 27(7):617-619.
- 42) Natchimuthu Karmegam and **Thilagavathy Daniel**, 2007. Effect of Physicochemical parameters on earthworm abundance: A quantitative approach. *Journal of Applied Sciences Research*, 3(11): 1369-1376.
- 43) **Thilagavathy Daniel** and K.L.Vaiphei, 2007. Larvicidal and chemosterilant activity of the leaves of *Sapium indicum* wild against *Culex quinquefasciatus* say. *Asian journal of microbiol.Biotech.Env.Sc.* 9(1):201-203.(International)
- 44) Mahalingam, P.U and **Thilagavathy Daniel**, 2007. Isolation and partial characterization of lignin degrading microorganisms from termite gut. *Journal of Pure and Applied microbiology*. 1(2): 327-330 .(International)
- 45) John Paul, J.A. and **Thilagavathy Daniel**, 2007. Cellulolytic efficiency of fungal cultures isolated from municipal solid waste. *Asian Journal of Microbiolo.Biotech.Env.Sc.* 9(4): 929-932.
- 46) Manivannan, N. and **Thilagavathy Daniel**, 2007. Isolation and Mass Multiplication of *Rhizobium* sp. for Nitrogen Enrichment of Vermicompost. *Journal of Pure and Applied Microbiology*. 1(2):251-254. (International)
- 47) Thajuddin, N. **Thilagavathy Daniel**, Manivannan, N. Muralitharan, G.Muthukumar, C.2007. 16S rRNA sequence analysis of microorganism (*Rhizobium* sp GGNM 66) from root nodules of leguminous plant. (Deposited in GEN BANK on NCBI, EMBL and DDBJ) Accession number: EF420109.(International)
- 48) Thajuddin, N. **Thilagavathy Daniel**, Manivannan, N. Muralitharan, G.Muthukumar, C.2007. 16S rRNA sequence analysis of microorganism (*Bacillus* sp GGTD 67) from rhizosphere soil. (Deposited in GEN BANK on NCBI, EMBL and DDBJ) Accession number: EF601985. (International)
- 49) John Paul, J.A. and **Thilagavathy Daniel**, 2007. Standardization of sampling method for physical characterization of municipal solid

- waste. Asian Jr.of Water, Environment and Pollution
5(1): 95-98.(Netherland)
- 50) John Paul, J.A. and **Thilagavathy Daniel**, 2007 . Lignolytic and phosphate solubilizing efficiency of fungal species from municipal solid waste. Asian Jr.of.Microbiol. Biotech.& Env. Sc.9(4): 837-840.
- 51) John Paul, J.A. and **Thilagavathy Daniel**, 2007. Cellulolytic efficiency of fungal cultures isolated from municipal solid waste. Asian Jr.of Microbiol. Biotech. & Env.Sc. 9(4): 929-932.
- 52) Manivannan, N. and **Thilagavathy Daniel**, 2008. Organic waste recycling using *Eudrilus eugeniae*. Environment and Ecology. 26(2):557-559.(International)
- 53) Mahalingam, P.U. and **Thilagavathy Daniel**, 2008. A study on phosphate solubilizing microorganisms of an orchard ecosystem in Tamil Nadu. Journal of Pure and Applied Microbiology. 2(1):219-222.(International)
- 54) Mahalingam, P.U. and **Thilagavathy Daniel**, 2008. Gut microflora of the earthworm, *Eisenia fetida*. Environment and Ecology. 26(1A): 297-299.
- 55) Natchimuthu Karmegam and **Thilagavathy Daniel**, 2008. Investigating efficiency of *Lampito mauritii* (Kinberg) and *Perionyx ceylanensis* Michaelsen for vermicomposting of different types of organic substrates. Environmentalist. 14 pages DOI 10. 1007/s 10669-008-9195z. (Springer). (International)
- 56) Raja, D., B.Sivasankari and **Thilagavathy Daniel**, 2008. Bioefficacy Of Methylobacterium spp isolated from various leaf samples on the growth performance of black gram *Vigna unguiculata*.L.Walp J.Curr.Sci. 12(2):735-740.(International)
- 57) Hemala Devi, R., Sivasankari, B and **Thilagavathy Daniel**, 2008. Evaluation of antifungal activity of siderophore produced by fluorescent *Pseudomonas* sp.isolated from paddy rhizosphere . J. Pure & Applied Microbiology 2(2): 595-598. (International)
- 58) Karmegam, N. and **Thilagavathy Daniel**, 2008. Effect of vermicompost and chemical fertilizer on growth and yield of Hyacinth Bean, *Lablab purpureus* (L.) Sweet. Dynamic soil, Dynamic plant 2(2):77-81.(International)
- 59) Manivannan,N. and Thilagavathy Daniel, 2009. A case study on the leaf litter management through vermicomposting technology using the epigeic earthworm *Eudrilus eugeniae*. J.Sci.Trans. Environ. Technov. 2(4): 231-234. (International quarterly).

- 60) Manivannan, N. and Thilagavathy Daniel, 2009. Use of vermicompost as carrier material for microbial inoculants for enhanced crop production. *Journal of Pure and Applied Microbiology* 3(1): 255-260. (International)
- 61) Karmegam, N. and **Thilagavathy Daniel**, 2009. Growth, reproductive biology and life cycle of the vermicomposting earthworm, *Perionyx ceylanensis* Mich (Oligochaete: Megascolocidae) *Bioresource Technology* 100(20): 4790-4796. (International)
- 62) Thilagavathy Daniel, Balayogan Sivasankari and Malathy 2009. Microbial and nutrient enhancement of leaf litters using *Eisenia fetida* (Accepted for publication in *Global Sciences an International Journal*).

6-B. In seminar proceedings

- 1) **Thilagavathy Daniel**, R. Kumuthakalavalli and S. Shanmugam, 1991. Study of Oyster mushroom (*Pleurotus sajor-caju*) on various substrates. Proceedings of the National Symposium on mushrooms. Thiruvananthapuram, Kerala. pp.86-88.
- 2) Kumuthakalavalli, R. and **Thilagavathy Daniel**, 1991. Effect of germinated pulses on sporophore yield of Oyster mushroom (*Pleurotus sajor-caju*). Proceedings of the National Symposium on Mushrooms. Thiruvananthapuram, Kerala. pp. 115-116.
- 3) **Thilagavathy Daniel** and R. Kumuthakalavalli, 1991. Evaluation of the suitability of spirulina alga in the feed for silver carp, *Hyppophthalmichthys molitrix* (Valenciennes) fingerlings. Proceedings of *Spirulina* ETTA National Symposium, MCRC, Madras. C.V. Seshadri and N. Jeeji Bai (Eds).
- 4) Anuradha, V., M. Sakthivadivel, D. Raghunatha Rao and **Thilagavathy Daniel**, 1996. Larvicidal effect of leaf extracts of *Andrographis paniculata* (Brum. f.) and *Swietenia mahagoni* (L.) Jacq., on *Culex quinquefasciatus* Say (Diptera: Culicidae). Biological and cultural control of insect pests, an Indian Scinario. Dunston P. Ambrose (ed.) Adeline Publishers, Tirunelveli. pp.158-160.
- 5) Sakthivadivel, M., V. Anuradha, D. Raghunatha Rao and **Thilagavathy Daniel**, 1996. Larvicidal properties of *Melia azedarach* L., *Azadirachta indica* Adr. Juss., and *Pongamia glabra* (L.) Vent., seeds on *Culex quinquefasciatus* Say. Biological and cultural control of insect pests, an Indian Scinario. Dunston P. Ambrose (ed.) Adeline Publishers, Tirunelveli. pp.201-203.
- 6) Sakthivadivel M., N. Karmegam , V. Anuradha and **Thilagavathy Daniel** 1996. Mosquito larvicidal property of *Withania somnifera* Germ. Proceedings of the Fourth Tamil Nadu Science Congress, TNAU, Coimbatore. Science: Biology. Pp.16-18.
- 7) Karmegam, N., G.Ananth, K. Alagumalai and **Thilagavathy Daniel**, 1999. Utilization of organic substrates by vermiculture biotechnology for the growth of *Raphanus sativus* L. In: Sustainable Environment(Ed.N. Sukumaran). Sri Paramakalyani Centre for Environmental Sciences, M.S.University, Alwarkurichi, Tamil Nadu.Pp.294-300.
- 8) Karmegam, N. and **Thilagavathy Daniel**, 2001. Biodiversity of earthworm fauna in South India and their utilization in organic waste

management. *Proceedings of National Workshop on Environmental Issues*. (Ed.: M.A. Sudhir).

- 9) Karmegam, N. and **Thilagavathy Daniel**, 2003. Utilization of organic wastes by *Perionyx ceylanensis*- an earthworm species new to vermicomposting biotechnology. In: Recent Advances in Biotechnology (Ed.:S. Arunachalam). Pp.177-181.
- 10) Jeyalakshmi.G. and **Thilagavathy Daniel**, 2004. Assessment of protein requirement of freshwater prawn, *Macrobrachium malcolmsonii*. In: Proceedings of the National Seminar on Rural Biotechnology for Sustainable Development The Gandhigram Rural Institute, Gandhigram. 19th-20th Feb. 2004.Pp.240-246.
- 11) Jeyalakshmi,G. and **Thilagavathy Daniel**, 2004. Evaluation of Conventional and Non-conventional ingredients for feed formulation for *Macrobrachium malcolmsoni* In: Proceedings of the National Seminar on Rural Biotechnology for Sustainable Development The Gandhigram Rural Institute, Gandhigram. 19th-20th Feb. 2004.Pp.215-225.
- 12) **Thilagavathy Daniel** and K.Lamneithang Vaiphei, 2004. Biologically active plant extracts as larvicides against *Culex quinquefasciatus* Say. In: Proceedings of the National Seminar on Rural Biotechnology for Sustainable Development, The Gandhigram Rural Institute, Gandhigram. 19th-20th Feb.2004.Pp.203-206.
- 13) John Paul,J.A and **Thilagavathy Daniel**, 2004. Production of Extracellular Protein, Reducing sugar and Saccharification of Fungal isolates from Municipal Solid Wastes. In: Proceedings of the National Seminar on Rural Biotechnology for Sustainable Development, The Gandhigram Rural Institute, Gandhigram. 19-20 Feb 2004.Pp 192-198.
- 14) **Thilagavathy Daniel**, and J.A. John Paul, 2004. Characterization and estimation of nutrient content of the Municipal Solid Waste for resource recovery in Dindigul a Class-I Town. In: Proceedings of the National Seminar on Rural Biotechnology for Sustainable Development. The Gandhigram Rural Institute, Gandhigram. 19th-20th Feb.2004.Pp.175-182.
- 15) Saravanan,S. Rachel Pradeepa.J. and **Thilagavathy Daniel**, 2004. Bioefficacy of plant extract against common pathogenic bacteria. In: Proceedings of the National Seminar on Rural Biotechnology for Sustainable Development. The Gandhigram Rural Institute, Gandhigram. 19th-20th Feb. 2004. Pp 91-95.
- 16) Karmegam, N. and **Thilagavathy Daniel**, 2004. Vermicastings as carrier material for layering of an ornamental plant *Codiaeum variegatum*. In: Proceedings of the National Seminar on Rural Biotechnology for

Sustainable Development. The Gandhigram Rural Institute, Gandhigram. 19th-20th Feb. 2004. Pp.60-68.

- 17) Karmegam, N. and **Thilagavathy Daniel**, 2004. Biodegradation of organic wastes using earthworms: An eco-friendly approach. In: Proceedings of the National Conference on Environment Awareness and Pollution Impacts Centre for Energy and Environmental Science and Technology, NIT, Trichy, Tamil Nadu, India. pp.166-171.
- 18) **Thilagavathy Daniel** and J.A. John Paul, 2004. Solid waste management options for class-I Towns. In: Proceedings of the National Conference on Environment Awareness and Pollution Impacts, Centre for Energy and Environment Science and Technology, NIT, Trichy, Tamil Nadu. India. Pp. 157-165.
- 19) Mahalingam, P.U. and **Thilagavathy Daniel**, 2008. Microbial evaluation of agro waste composts. In: Proceedings of the National conference on Environmental pollution management and sustainable development. GRU, Gandhigram, held on 14-15 Dec 2006. pp 75-79.

6-C In Books

- 1) Karmegam, N., Thilagavathy **Daniel** and K. Alagumalai 1999. Vermiculture Bio-Industry for Sustainable Rural development. In: Rural Industries in India(Ed: M. Soundarapandian), Mohit Publications, New Delhi.Pp 128-131.
- 2) Alagumalai K., N.Karmegam and **Thilagavathy Daniel**, 1999. Sericulture a agro-based Industry for Sustainable Rural Development. Rural Industries in India(Ed: M. Soundarapandian), Mohit Publications, New delhi. p 132-138.
- 3) Karmegam, N., J.A. John Paul and **Thilagavathy Daniel**, (2000). Vermicomposting potential of some earthworm species of South India. *Environment & its Challenges*. (Ed.: Arvind Kumar). Pp 599-611.

7- BOOKS AND HAND BOOKS PUBLISHED

- 1) Chippi Kalan Valarppu, 1993.(A hand Book)
GRI Publication. Sponsored by CAPART, New Delhi.
(11 page material in Tamil).
- 2) Popular Lecture Notes on Selected Topics, 1996. (A hand Book)
GRI Publication. Sponsored by DBT, New Delhi
(22 page material in Tamil & English).
- 3) Pattupuzhu Valarppu, 1997. (A hand Book)
GRI Publication. Sponsored by DBT, New Delhi.
(38 page material in Tamil).
- 4) Abstract Proceedings of the Regional Seminar on Biology for Rural Applications, 1997.
GRI Publication. Sponsored by GRI, Gandhigram.
(28 page material containing 28 abstracts in English).
- 5) Manpuzhu Valarppu Matrum Manpuzhu Uram Thayarikkum Thozhil Nutpam, 1997. (A hand Book)
GRI Publication, Sponsored by DBT, New Delhi. (13 page material in Tamil).
- 6) Abstract proceedings of the National Seminar on rural Biotechnology for Sustainable Development, organized on 19-20 Feb 2004.
GRI publication, Gandhigram. 128 pages(183 abstracts in English).
- 7) Proceedings of the National Seminar on Rural Biotechnology for Sustainable Development. (A hand Book)
GRI publication. Ed:Thilagavathy Daniel.246 pages(43 articles in English).

8-1. LIST OF RESEARCH SCHOLARS

Sl. No.	Name	Sex	Year	Title of the Ph.D., thesis
1.	G. Jeyalakshmi (Full-time scholar)	F	1994-1999 (Degree awarded)	Feed formulation for the fresh water prawn, <i>Macrobrachium malcolmsonii</i> .
2.	V. Anuradha* (Part-time scholar)	F	1994-1999 (Degree awarded)	Feed formulation for fish and poultry using hide flesh from the tanneries.
3.	M. Sakthivadivel** (Full-time scholar)	M	1994-2001 (Degree awarded)	Evaluation of certain insecticidal plants for the control of vector mosquitoes.
4.	N. Karmegam (Full-time scholar)	M	1996-2002 (Degree awarded)	Studies on earthworm, vermiculture, vermicomposting and utilization of vermicompost for plant growth.
5.	K. Alagumalai (Full-time scholar changed to part time)	M	1996-2004 (Degree awarded)	Studies on the effect of nutritional supplementation on growth and productivity of mulberry silkworm <i>Bombyx mori</i> L.
6.	J. Arockia John Paul (Full-time scholar)	M	2001-2005 (Degree awarded)	Municipal solid waste generation, characterization, microbial activity, vermicomposting and management in Dindigul Town.
7.	K. Lamnei Thang Vaiphei (Full-time scholar)	M	2002-2006 (Degree awarded)	Studies on the control of mosquitoes using plant products.
8.	D. Jegannathan* (Part-time Scholar)	M	2002	Role of Panchayatiraj Institution in management of environmental issues
9.	N.Manivannan	M	2003-2008	Studies on use of Biofertilizer

(Part-time scholar)		(Degree awarded)	enriched vermicompost for enhanced crop production.
10. P.U.Mahalingam (Part-time scholar)	M	2004-2008 (Degree awarded)	Isolation, characterization and evaluation of composting microorganisms and their interaction with earthworm.
11. B.Sivasankari (Full-time scholar)	F	2008 (in the pipe line)	A study on earthworm micro flora and their impact on the growth performance of <i>Vigna unguiculata</i> L.walp.
12. Leishipem Ningshen (Full-time scholar)	F	2008 (in the pipe line)	Use of earthworm, <i>Eudrilus eugeniae</i> for organic waste recycling and crop production.
13. Ms.Leena Alexander (Part-time scholar)	F	2009 (in the pipe line)	A study on honey bees of Karnataka and anti- microbial activities of honey produced by <i>Apis cerana indica</i> Fabr. From different eco-habitats of the state.

* Supervised in the capacity as co-guide.

** Senior Research Fellow (SRF)

8-2 NUMBER OF Ph.D THESIS ADJUDICATED : Twenty (20)

Sl. No.	Name of the candidate	Guide name	Name of the Institute/ University and (Year)	Title of the Ph.D., thesis
1.	K.Frank Merin	Dr.B.Victor	M.S.University, Tirunelveli (2001).	Pathobiological and Carcinogenicity testing of selected chemical contaminants on chosen freshwater fishes.
2.	Reta Elizabeth S.Roy	DR.R.Selvaraj Pandian	Madurai Kamaraj University, Madurai (2001).	Bioecology of mosquitos of subarban areas in the peripheral regions of Madurai.
3.	V.Balmurugan	Dr.G.S.Vijayalakshmi	M.S.University, Tirunelveli (2002).	Physico-Chemical and Microbial perspectives of vermicompost produced by <i>Eisenia fetida</i> Savigny, <i>Eudrilus euginia</i> Kingberg with a note on their fecundity and growth studies in ten different organic wastes.
4.	V.Prabakaran	Dr.G.N.Subbiah	Madurai Kamaraj University, Madurai (2002).	Impact of microbial fauna and aquaphyte on the biodegradation and accumulation of pesticides in an agroecosystem.
5.	M.Arun Mani	Dr.S.K.Dwrakanth	Madurai Kamaraj University, Madurai (2002).	Biological studies of mosquito species in and around Madurai city.
6.	T.Suresh	Dr.P.Lakshmanaperu malsamy	Bharathiar University Coimbatore (2002).	<i>Salmonelle</i> contamination in broiler chickens and eggs with special reference to Salmonella enteritis-a study on the prevalence, cross contamination routes, antibiotic resistance and survival.

7.	M.Jhonson	Dr.Samual Paul Raj	M.S.University, Tirunelveli (2002).	Evaluation of seed cake of rubber plant <i>Hevea brasiliensis</i> as a protein source in the feed of freshwater carp <i>Cyprinus carpio</i> Var. Communis.
8.	K.Shanthi	Dr.P.Lakshmanaperu malsamy	Bharathiar University Coimbatore (2003).	Studies on nitrate reduction by heterotrophic bacteria isolated from singanallur Lake Coimbatore, South India.
9.	T.Shanthi Jebaraj	Dr.A.Jebanesan	Annamalai University, Annamalainagar (2004).	Studies on the effect of Chlopyripos on the biochemical, hematological and histological changes in selected tissues of the freshwater fish <i>Cyprinus Carpio</i> Communis (Linn.).
10.	P.Ramamoorthy	Dr.L.S.Ranganathan	Annamalai University, Annamalainagar (2004).	Standardization and nutrient analysis of vermicomposting sugarcane wastes, pressmud- Trash bagasse by <i>Eudrilus euginea</i> Kingberg and <i>Eisenia fetida</i> Savigny and the effect of vermicompost on soil fertility and crop productivity.
11.	J.John Prabakaran	Dr.A.J.A.Ranjith Singh	M.S.University, Tirunelveli (2004).	Isolation and Characterization of cyanide degrading microbes from Cassava factory effluent.

12.	S.Vasantha Kumari Devi	Dr.K.G.Narayana Pillai	University of Kerala, Thiruvananthapuram, Kerala (2004).	Studies on the bionomics of <i>Armigeres subalbatus</i> (Diptera: Culicidae).
13.	T.Dilipkumar	Dr.K.G.Narayana Pillai	Mahatma Gandhi University, Kottayam, Kerala (2006).	Studies on the mosquitoes of Thiruvananthapuram city with special reference to the bionomics of <i>Anopheles stephensi</i> .
14.	R.Senthil Kumar	Dr.R.Selvaraj Pandian	Madurai Kamaraj University, Madurai (2006).	Biodiversity and bioecology of mosquito fauna in Othakadau Panchayat union, Madurai District.
15.	C.Edsor	Dr. Samuel Paul Raj	Madurai Kamaraj University, Madurai (2006).	Performance of chosen earthworms in the vermicomposting of coir pith.
16.	M.Lakshmi Prabha	Dr.Indira A.Jebaraj	Bharathiar University Coimbatore (2008).	Vermitech- A potential technology for the conversion of wastes into biofertilizer.
17.	J.Ezhil	Dr.M.Narayanan	M.S.University, Tirunelveli (2007).	Ecophysiology and bioenergetics of a chosen Ornamental Cichlid, <i>Pseudotropheus lombardoi</i> .
18.	T.I.Gracy Kutty	Dr.Samual Paul Raj	Madurai Kamaraj University, Madurai (2008).	Studies on Anuran resources of Periyakulam Taluk, Theni District, India.
19.	R.Vinodhini	Dr.M.Narayanan	M.S.University, Tirunelveli (2009)	Cytoprotective effect of <i>Nelumbo nucifera</i> and <i>Agle marmelos</i> in heavy metals toxicity in common crops(<i>Cyprinus carpio</i> L.)

9. M. Phil DISSERTATIONS GUIDED

1. K. John Packiaselvam, 1996. A study on the awareness on environmental problems among the plus two students in Melur Educational District. Madurai Kamaraj University Madurai.
2. E.S. Latha Florence, 2001. A study on the availability of herbal medicinal plants and their commercial exploitation in and around Dindigul. GRI, Gandhigram.
3. P.Lathamani, September, 2003. Biodiversity spectrum (flora and fauna) of the Gandhigram Rural Institute Campus, Gandhigram Rural Institute-Deemed University, Gandhigram.
4. U.Ponmayil September, 2004. Socio-economic and health profile of the diabetics. Gandhigram Rural Institute- Deemed University, Gandhigram.
5. V. Vinoth Jiji, August, 2005. Solid waste management using microbial consortia. Bharathidasan University, Tiruchirappalli.
6. M.Senthamil Chelvi, August, 2005. Influence of vermiwash on growth and yield of *Vigna unguiculata*. Gandhigram Rural Institute- Deemed University, Gandhigram
7. S.Sudhakaran, August, 2006. A study on avian diversity and bird loving environment in Gandhigram Rural Institute campus. Gandhigram Rural Institute-Deemed University, Gandhigram.
8. A.Parameshwari, August, 2007. Biodegradation of solid waste using fungal biomass and earthworms. Bharathidasan University, Tiruchirappalli.
9. G.Megala, August, 2007. Microbial evaluation during composting of agroresidues. Bharathidasan University, Tiruchirappalli.
10. G.Anuchitra, June, 2007. Studies on cultivation of *Pleurotus sajor caju* and strain improvement using organic supplements. Mother Teresa Women's University, Kodaikanal.
11. S.Uma Maheswari, March, 2008. A study on the biodegradation of leaf litter using microbial consortium. Annamalai University, Annamalainagar.
12. M.Deepa, June, 2008. Evaluation of antibacterial activity of selected medicinal plants. Vinayaka Missions University, Selam.

13. R.Hemala Devi, June 2009. Biopotentials of Microorganisms isolated from Vermicompost.

10. M.Sc., DISSERTATIONS GUIDED:

- 1) V. Balamurugan, 1995. Studies on vermicomposting of different types of plant and animal wastes using *Lampito mauritii* and the application of the vermicompost an organic manure to a pulse crop and *Amaranthus sp.*,
- 2) S. Umarani, 1995. Evaluation of certain plant extracts for the larvicidal property against the larvae of *Culex quinquefasciatus* Say.
- 3) N. Karmegam, 1996. The effect of leaves of certain plant extracts on the larvae of filarial vector mosquito.
- 4) G. Joseph Irwin, 1996. Evaluation of three low cost feed in the cultivation of fresh water prawn, *Macrobrachium rosenbergii*.
- 5) G. Ananth, 1997. Biodegradation of organic wastes by vermiculture for cultivation of *Raphanus sativus*.
- 6) S. Senthil Kumar, 1998. Study on the effect of vitamin-antibiotic mixture on the growth performance of *Bombyx mori* L.
- 7) M. Kaleeswari, 1998. Efficiency and growth of African night crawler, *Eudrilus eugeniae* in selected leaf litter of deciduous trees.
- 8) B. Nagarathnam, 1999. Decomposition of selected plant materials using *Eudrilus eugeniae*, an epigeic earthworm.
- 9) R. Venkateswaran, 1999. Studies on the growth performance of the fifth instar larvae of *Bombyx mori* L. fed on supplementary feed mixture.
- 10) S. Bharathi, 2000. Evaluation of selected plant extracts for antibacterial activity.
- 11) V. Kavitha, 2000. Decomposition of selected plant material using *Eisenia foetida*, an epigeic earthworm.
- 12) N. Geetha, 2001. Evaluation of selected plant extracts against filarial vector mosquito.
- 13) S.Srisudha, 2001. Effect of fortification on the growth and reproduction of the earthworms, *Eudrilus eugeniae* and *Perionyx excavatus*.

- 14) L.Rajalakshmi, 2001. Formulation of mosquito repellent coil using plant products.
- 15) P.Mahendra Prasad, 2001, Survey of medicinal plants used by the villages of Kodaikanal Taluk in Western Ghats.
- 16) A.Reena, 2002. Some studies on a composting earthworm, *Perionyx ceylanensis*.
- 17) P. Raniammal, 2003, Species richness of class insecta in and around Gandhigram Campus.
- 18) M.PRajakumari, 2003, Profile of the microflora of the gut of selected earthworm species cultured in different organic solid wastes (Sri Sarada Niketan College of Science for Women, Karur.
- 19) Nimta George, 2004. A study on production of *Spirulina*, a blue green algae as a protein source for feed formulation.
- 20) Marimuthu, S. 2004. A study on the prevalence of diabetes mellitus among the urban and rural mass.
- 21) P.Raja, 2004. Monoculture and polyculture of earthworms for compost production using municipal solid waste.
- 22) J.Seethalakshmi, 2004. A study on the biodegradation of municipal solid waste using earthworms and fungal inoculum.
- 23) K.Sivaramakrishnan, 2004. Evaluation of aqueous extracts of certain plants for larvicidal property against the larvae of *Culex quinquefasciatus say*.
- 24) V.Vinodhiji, 2004 . A low cost technology for the production of *Spirulina platensis*, a blue green algae.
- 25) G.Megala, 2005. Microbial status of vermicompost, vermicasts and the gut of *perionyx ceylanensis*, A new native earthworm grown in organic waste mixture.
- 25) M.Umapathi, 2005. Enhancement of municipal solid waste biodegradation using crude enzymes of vermi-microflora.
- 26) M.Sumithra, 2005. Effect of the petroleum ether extract of the leaves of *Azadirachta indica* (at various stages) and other plants against the larvae of *Culex quinquefasciatus say*.
- 27) C.Savithaa, 2006. Smoking and related health and socio – economic

- problem among the post-graduate students residing in the hostels in Gandhigram campus.
- 28) R.Renuga, 2006. Smoking and related problems among the day scholar post-graduate students of Gandhigram Rural Institute.
 - 29) P.Selvi, 2006. A Study on alcoholism among the Post-graduate students residing in hostels in Gandhigram Rural Institute.
 - 30) P.Manohari, 2006. Alcohol abuse among the post-graduate day scholar students of Gandhigram Rural Institute.
 - 31) Leena Menon, 2007. Isolation and identification of phosphate solubilizing bacteria (PSB) from plant roots.
 - 32) P.Ranjitham, 2007. Isolation, identification and control of dandruff.
 - 33) K.Sasikala, 2007. Home remedy for dandruff.
 - 34) K.Anbarasan, 2007. A study on the control of dandruff using plant extracts.
 - 35) S.Amala, 2008. Synergistic efficacy of certain plant extracts for larvicidal activity against *Culex quinquefasciatus* Say.
 - 36) A.Jeyaraj, 2008. A study on the larvicidal efficacy of selected leaf extracts against field collected mosquito larvae.
 - 37) R.P.Maruthamalai Rasi, 2008. A study on the antibacterial activity of certain plant extracts.
 - 38) V.Pradeepa, 2009. A study on biopotential of PGR producing bacteria isolated from vermicompost prepared using *Eudrilus eugeniae*.
 - 39) W.Anitha Reji, 2009. Effect of application of vermicompost prepared from leaf litters on one week growth of *Vigna unguiculata* L.walp.
 - 40) M.Malathy, 2009. a study on isolation and enumeration of colony forming units from the vermicompost prepared using earthworm *Eisenia fetida*.
 - 41) R.Sathya Sri, 2009. a study on isolation and enumeration of colony forming units from the vermicasts of earthworm, *Eudrilus eugeniae*.

11. DISSERTATIONS GUIDED FOR THE POST GRADUATE DIPLOMA COURSE IN BIOGAS AND RENEWABLE ENERGY:

- 1) K. Boominathan, 1989. Anaerobic digestion of *Gliricidia maculata* for the production of biogas - a batch study.
- 2) M. Mathiazhagan, 1989. *Ipomea cornea*, an alternate feedstock for the production of biogas - a batch study.
- 3) A. Palanivelu, 1989. An approach to save trees through installation of biogas plants.
- 4) N. Seenivasagam, 1989. Domestic energy expenditure pattern of Chinnalapatty major panchayat.
- 5) A. Sahayaraj, 1990. Evaluation of *Leucaena leucocephala* (Subabul) seed kernel as a protein supplement for *Tilapia mossambica* (Peters) in promotion of village eco-system.
- 6) A. Rabi, 1990. Efficiency of silk cotton seed kernal as protein supplement in the pelleted feed for *Cyprinus carpio* var. *communis* biomass production.
- 7) M. Rajkumar, 1990. Evaluation of water hyacinth as an alternate feedstock for the production of biogas.
- 8) M.V. Rajan, 1991. Efficacy of biodigested slurry manure for fish culture with special reference to *Cirrhinus mrigala* (Hamilton) fingerlings fed on *Glycine max*.
- 9) Ranan Kamalan, 1991. Evaluation of roasted soybean meal on the growth performance of *Cirrhinus mrigala* fingerlings in ground water mixed with cowdung and biodigested slurry.
- 10) D. Chandrasekaran, 1992. Observations on the relative usefulness of cowdung and biodigested slurry as manure for aquaculture operations.
- 11) P. Sivaraman, 1992. Experimental studies on the efficiency of biodigested slurry as a manure for the cultivation of *Alternandra amoena*.
- 12) R. Sivakumari, 1994. A study on vermiculture in biodigested slurry and other animal wastes.

- 13) M. Sakila, 1994. A study on moriculture using biodigested slurry and other manures.

12. MEMBERSHIP IN PROFESSIONAL BODIES

1. Chairperson, Board of Studies in Biology, GRI.
2. Member, Academic Council, GRI.
3. Member, Doctoral Committee in Biology, GRI.
4. Member, Board of Studies in Zoology (PG & UG), Lady Doak College, Madurai Kamaraj University, Madurai. (1996-2002).
5. Member, Board of Studies in Zoology (M.Sc.) Thiagarajar College, Madurai Kamaraj University, Madurai. (2002- 2004).
6. Member, Board of Studies in Herbal Medicine, Mother Theresa University, Kodaikanal. (1998-2000).
7. Referee, Bio-technology Programme for SC/ST, Department of Bio-technology, New Delhi. (1998-2004).
8. Life Member, National Academy of Vector Borne Diseases, Bhubaneswar, Orissa.
9. Life Member, Indian Science Congress Association, Calcutta.
10. Life Member, Society of Environmental Sciences, Dumka, Bihar.
11. Member, Indian Society of Life Sciences, Kanpur.
12. Member, College Executive Council, Lady Doak College, Madurai Kamaraj University, Madurai. (1998-2002 & 2006-2008)
13. Member, Governing Council, Lady Doak College, Madurai Kamaraj University, Madurai. (2003-2005).
14. Member, Board of studies, Thaslim Beevi College for women, Keelakarai, Alagappa University (2006-2008).
15. Member, Board of studies, Department of Zoology, Avinachilingam, Home Science University, Coimbatore (2005-2007).
16. Member, Board of studies, P.G Department of Zoology M.S. University, Tirunelveli (2005-2008)
17. Member, Board of studies, Department of Zoology, Yadava College for Men, MKU, Madurai (2005-2008).
- 18) Member Inspection Commission to start M.Sc. Microbiology in Dr. Zakir

Hussain College, Ilayanguidi, Alajappa University, karaikudi. (2006)

19) Member Board of studies in Zoology, Yadhava College, Madurai 2006-08.

13. SEMINARS AND SYMPOSIA ATTENDED

1. Eighth Science Research Seminar in Tamil on Indigenous Technology for Rural Development, GRI, Gandhigram. 27 - 28 August 1988.
2. National Seminar on Pollution Control. Central University, Pondicherry. 16-17 October 1989.
3. National Symposium on Environment and its conservation, Melvisharam. 29-31 December 1989. National Seminar on Aquatic Environment and Organisms, Erode. 19-21 October 1989.
4. Third Indian Symposium of Odonatology, Erode. 29-31 January 1990.
5. Workshop on Environmental Awareness Raising, CPR foundation at GRI, Gandhigram. 9 May 1990.
6. Workshop on strategies for commercialization of Renewable Energy Technologies, Tiruchirapalli. 6 July 1990.
7. National Symposium on Mushrooms, Thiruvananthapuram, Kerala. 22-24 January 1991.
8. Tenth National Symposium on Life Sciences, Mysore, Karnataka. 26-28 September 1991.
9. *Spirulina* ETTA National Symposium, MCRC, Madras. 30 September - 2 October 1991.
10. Eleventh National Symposium on Life Science, Madras. 9-11 October 1992.
11. 80th Session of the Indian Science Congress Association, NIO, GOA. 3-8 January 1993.
12. Symposium on Current Status and Recent Development in Sericulture for the Future. Tiruvedakam. 10 December 1993.
13. National Symposium on Aquaculture for 2000 AD, MKU, Madurai. 26-27 November 1994.
14. Workshop on Shrimp Farming Techniques, Problems, and Solutions, MKU, Madurai. 28 November 1994.
15. Symposium on Biological and Cultural control of Agricultural and Medical Pests. Palayamkottai. 22- 24, February 1995.

16. Seminar on indicators of Rural Development GRI, Gandhigram. 9 - 10 March 1995.
17. Regional symposium on current trends in Heterocyclic Chemistry, GRI, Gandhigram. 26-28, February 1996.
18. Symposium on Hi-tech Interventions in Rural Context, I.I.T, Madras, April 1997.
19. National workshop on fish and prawn feeds. Central Institute of Fresh water Aquaculture, Kausalyaganga, Bhubaneswar, Orissa. 2-3, September, 1997.
20. Regional Seminar on Biology for Rural Applications. Gandhigram Rural Institute, Gandhigram. 20 September 1997.
21. National Seminar on Sustainable Environment, Sri Paramakalyani Centre for Environmental Sciences, MS University, Alwarkurichi. 4-6 November 1997.
22. National Seminar on Development of Rural Industries in Fifty years (1947-1997) GRI, Gandhigram. 25-26 March, 1998.
23. Seminar on Science for Quality Life, GRI, Gandhigram. 20th April 1998.
24. National seminar on corruption at the Grassroots SIRD, Chennai 3 - 4 December 1998.
25. National Seminar on Psycho-social characteristics, problems and strategies for the welfare of aged in rural India, GRI, Gandhigram. 11-13, March, 1998.
26. National Seminar on New Vistas in Bio-active agents, GRI, Gandhigram, 1999.
27. Annual conference of TNPHEA & Symposium on vector and vector borne diseases. The American College, Madurai, 1999.
28. XXII Indian Social Science Congress, GRI, Gandhigram. 13-18 March, 1999.
29. State level Seminar on Rural Industrialization in India: Problems and Prospects, GRI, Gandhigram. 21-22, April, 1999.
30. National Seminar on Eco-friendly environment for sustainability. Annamalai University, Chidambaram. 27-28, March, 2000.
31. National Seminar on Atomic Energy, Ecology and Environment, Jamal Mohamed College, Tiruchirappalli. 8-9, February, 2001.

32. National Seminar on Environmental ethics and sustainability. Lady Doak College, Madurai. March, 2001.
33. National Workshop on Environmental issues, GRI, Gandhigram. 27-28, April 2001.
34. National Seminar on Medicinal Plants. Sri Sankara Educational Trust, Trichy. 20-21 October 2001.
35. National Seminar on Water resources depletion. Madurai Kamaraj University, Madurai. 27 March 2002.
36. Seminar on Eco-consciousness and eco-friendliness, Fatima College, Madurai. 5 April 2002.
37. Regional Seminar on WTO and medicinal Biotechnology, Madurai Kamaraj University, Madurai. 30 September 2002.
38. Workshop on Waste Recycling, Utilization and Disposal. The Institution of Engineers India, Madurai Local Centre, Madurai. 19th January. 2002.
39. Workshop on Waste Management. Institution of Engineers (India), Madurai. 19 January 2002.
40. National Seminar on Status, Trends and supervision of research in rural development. GRI, Gandhigram. 12 April 2002.
41. One day seminar on, promotion of research and quality improvement in colleges, Arul Anandar College (Autonomous), Karumathur organized at Madurai on 9th October. 2004.
42. National Conference on environment awareness and pollution impacts, National Institute of technology, Trichy. 27 November 2004.
43. National Workshop on waste disposal through vermicomposting, K.K.T.M. Govt. College, Pullut, Kerala. 8-9, December 2004.
44. National conference on Environmental Pollution Management and Sustainable Development, Gandhigram Rural University, Gandhigram. 14th - 15th Dec 2006.

14. PAPERS PRESENTED IN CONFERENCES/SEMINARS/SYMPOSIA/WORKSHOPS

- 1) **Thilagavathy Daniel.**, S.D. Srinivas and S.K. Dwarakanath, 1990. Behavioural responses of the silk worm, *Bombyx mori* in relation to humidity. National Symposium on Behavioural Sciences and XIX Annual meetings of Ethiological society of India, Tamil Nadu.
- 2) Palanivelu, A., A. David Ravindran and **Thilagavathy Daniel**, 1990. An approach to save trees through the installation of Biogas plants – A survey. Sixth Annual convention, Bioenergy society of India, Madurai Kamaraj University, Madurai. Ab.p.41.
- 3) **Thilagavathy Daniel.**, 1992. Domestic preparation of feed for aquarium fish: a technology for women. National workshop on Social development, technology and empowerment of women. IIT, Kanpur. 24-25, April. Ab.p.157.
- 4) Kumuthakalavalli, R. and **Thilagavathy Daniel**, 1992. Cultivation of Oyster mushroom using crop residues, a technology for women. 11th National Symposium on Life Sciences, Madras. 9-11, October. Ab.p.11.
- 5) **Thilagavathy Daniel.**, and Samuel Paul Raj, 1992. Observations on the utilization of *Bauhinia purpurea* as alternate protein source in fish feed. 11th National Symposium on Life Sciences, Madras. 9-11, October. Ab.p. 29.
- 6) **Thilagavathy Daniel.**, D. Chandrasekaran and R.Kumuthakalavalli, 1992.Utilization of biodigested slurry as a manure for the production of *Sarotherodon mossambicus* fry. 11th National Symposium on Life Sciences, Madras. 9-11, October. Ab.p. 28.
- 7) **Thilagavathy Daniel.**, and R. Kumuthakalavalli and S. Ravannapa, 1993. Silk production in *Bombyx mori* L. fed on diet supplemented with processed legume. Symposium on current status and recent development in sericulture for the future. Vivekanand College, Tiruvedakam, 10th December. Ab.p.9.
- 8) **Thilagavathy Daniel.**, and Samuel Paul Raj, 1993. Nutritional value of *Alizzia lebbeck* (Leguminosae) seed kernel as a partial protein source in the feed for an Indian majorcarp, *Carrhinus mrigala*. 80th Indian Science Congress, Goa. Part III. Ab.p. 120.

- 9) **Thilagavathy Daniel.**, and Samuel Paul Raj , 1994. Effect of replacing groundnut oil cake protein by *Albizia lebbek* protein on growth and energy utilization in *Carrhinus mrigala*. National Symposium on aquaculture for 2000 AD, MKU, Madurai. 26-27, November.
- 10) Jeyalakshmi, G., **Thilagavathy Daniel**, R, Kumuthakalavalli and V. Anuradha, 1995. Growth performance of fresh water prawn fed on three types of compounded feed incorporated with *Spirulina* Algal powder. National Symposium on Algal potential and its exploitation, Madurai. 27-29, December. Ab.p. 20-21.
- 11) Jeyalakshmi, G., **Thilagavathy Daniel**, V. Anuradha, and R. Kumuthakalavalli 1995. Partial replacement of prawn meal with spirulina single cell protein in the diet for the post larvae of *Macrobrachium malcosonii* of 0.918 +_ 0.05 g size. National Symposium on Algal potential and its exploitation. Madurai. 27-29 December. Ab.p. 20.
- 12) Sakthivadivel, M., V. **Thilagavathy Daniel**, N, S, Nagarajan, M.G. Sethuraman, C.N. Manoj, KL.R. Priya, 1996. Larvicidal activity of biocyanin- A, on the bancrofti vector mosquito. Regional Symposium on current trends in Heterocyclic chemistry. February, 26-28. Ab.p. 36.
- 13) Kumuthakalavalli, R., **Thilagavathy Daniel**, and M. Sakthivadivel, 1996. The role of microorganism in the upgradation of the environment. Fourth and Tamil Nadu Science Congress, TNAU, Coimbatore. 17-18, May. Ab.p. 17-18.
- 14) M. Sakthivadivel, M., N. Karmegam, V. Anuradha and **Thilagavathy Daniel**, 1996. Mosquito larvicidal property of *Withaniasomnifera* gern. Fourth and Tamil Nadu Science Congress, TNAU, Coimbatore. 16-18, May. Ab.p. 16-18.
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Biodiversity conservation on sustainable Development Erode Arts College, Erode 26-27, March 1999.

- 41) **Thilagavathy Daniel** and N. Karmegam, 2000, Efficiency of different organic manures on the growth and yield of cowpea, *Vigna unguiculata* Walp. Abstract proceedings of National seminar on Eco-friendly Environment for sustainability organized by Annamalai University, Chidambaram during 27th to 28th March 2000.
- 42) **Thilagavathy Daniel.**, P.U. Mahalingam, J.A. John Paul and N.Karmegam 2002 Recent Trends in bioscience research for rural development. National seminar on Status, Trends and Supervision of Research in Rural Development, Gandhigram Rural Institute, Gandhigram. 12th April.2002.
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- 45) Karmegam, N., and **Thilagavathy Daniel**, 2003, *Rottboellia exaltata*, a common weedy plant as a resource for vermicomposting technology. Regional Seminar on people, Plants and future. Gandhigram Rural Institute, Gandhigram. 21st -22nd February, Ab.no PPF 21.
- 46) Anuradha, V., **Thilagavathy Daniel**, and Samuel Paulraj, 2003, Utilization of hide fleshings of the tanneries in the preparation of feed for poultry. International Seminar on Recent Advances in Biotechnology, Ponnaiah Ramajayam College, Tanjore, 24th, 25th February Pp. 130.
- 47) John Paul, J.A., N. Karmegam and **Thilagavathy Daniel**, 2003, Municipal Solid wastes of Dindigul Town (Tamil Nadu) and possible ways of utilization. International Seminar on Recent **Daniel**

Advances in Biotechnology, Ponnaiah Ramajayam College, Tanjore, 24th, 25th February Ab.p.97.

- 48) **Thilagavathy Daniel**, Mahalingam, P.U.Anandakumar, S. and Tamilselvi, P, 2003. Isolation of pesticide degrading microflora from agriculture soil. Abstract proceeding of the National Seminar on Current Environmental Issues, held at Bharathiar University, Coimbatore, during 5 March 2003.Pp.52.
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- 53) Karmegam, N and **Thilagavathy Daniel** 2004 Biodegradation of *Polyalthea longifolia* leaf litter using native earthworm species, *Perionyx ceylanesis*. National Seminar on Biodegradation and Bioremediation, Sourashtra College, Madurai. 17th -19th Sep. 2004.Ab.p.80
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- 60) Bharathi, S and **Thilagavathy Daniel** 2004 Evaluation of selected plant extracts for antibacterial activity. National seminar on Rural Biotechnology for sustainable Development. The Gandhigram Rural Institute, Gandhigram. 19th-20th Feb. 2004. Ab. p. 121.
- 61) Jejalaskshmi, G., and **Thilagavathy Daniel** 2004 Assessment of protein requirement of freshwater prawn, *Macrobrachium malcolmsonii*. National seminar on Rural Biotechnology for sustainable Development. The Gandhigram Rural Institute, Gandhigram. 19th-20th Feb. 2004. Ab. p. 119.
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- 70) Karmegam, N. and **Thilagavathy Daniel**, 2004. Comparative analysis of the life cycle of two native earthworm species for mass production. National Seminar on “Rural Biotechnology for Sustainable Development” Gandhigram Rural Institute, Gandhigram. 19th -20th Feb, 2004. Ab.p.43.

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72) Karmegam, N. and **Thilagavathy Daniel**, 2004. Vermicastings as carrier material for layering of an ornamental plant *Codiaeum variegatum*. National Seminar on "Rural Biotechnology for Sustainable Development", Gandhigram Rural Institute, Gandhigram. 19th -20th Feb, 2004. Ab.p. 1.

73) **Thilagavathy Daniel** and J.A. John Paul 2004. Solid waste management options for Class-I Towns. National conference on Environment Awareness and Pollution Impacts" organized by Centre for Energy and Environmental science and Technology, NIT, Trichy, Tamil Nadu. 27th Nov 2004. Pp.157-165.

74) John Paul, J.A. and **Thilagavathy Daniel**, 2005. Impact of bio-medical wastes on environment and health in small towns. National conference on Advances in solid waste management", Gandhigram Rural Institute, Gandhigram. 23rd Feb 2005. Ab.p.74.

75) Anuradha., V., **Thilagavathy Daniel** and Samuel Paul Raj 2005. Utilization of hide fleshing as animal protein source in the feed of broilers-*Diaccus domesticus minota*. National conference on Advances in solid waste management", Gandhigram Rural Institute, Gandhigram. 23rd Feb 2005. Ab.p.30.

76) **Thilagavathy Daniel** and A.Nirmala, 2006. Antibiotics effect of *Bacillus rubra*. 4th International Seminar on Biocontrol and Biotechnology, Lady Doak College, Madurai. 27-29 Nov 2006. Ab.p.134.

77) Karmegam, N. and **Thilagavathy Daniel**, 2006. Influence of selected environmental factors on the abundance of earthworm population. National Conference on Environmental Pollution Management and Sustainable Development" Gandhigram Rural University, Gandhigram. 14th -15th Dec 2006. Ab.p.64.

78) John Paul, J.A. and **Thilagavathy Daniel**, 2006. Environmental impact assessment of municipal solid waste dump site through air and water quality. National Conference on Environmental Pollution Management and Sustainable Development" Gandhigram Rural University, Gandhigram. 14th -15th Dec 2006. Ab.p.53.

79).Mahalingam, P.U. and **Thilagavathy Daniel**, 2006. Microbiological evaluation of agro waste composts. National Conference on Environmental Pollution Management and Sustainable Development” Gandhigram Rural University, Gandhigram. 14th -15th Dec 2006. Ab.p.22.

80)Manivannan, N. and **Thilagavathy Daniel**, 2006. Isolation and mass multiplication of *Rhizobium* sp. For nitrogen enrichment in vermicompost. National Conference on Environmental Pollution Management and Sustainable Development” Gandhigram Rural University, Gandhigram. 14th -15th Dec 2006. Ab.p.19.

81)Manivannan, N. and **Thilagavathy Daniel**, 2006. Leaf litter management through vermicomposting technologies using *Eudrilus eugeniae*. National Conference on Environmental Pollution Management and Sustainable Development” Gandhigram Rural University, Gandhigram. 14th -15th Dec 2006. Ab.p.18.

82)John Paul, J.A. and **Thilagavathy Daniel**, 2007. Biodegradative potential of fungal species isolated from organic wastes. National Conference on Ensuring Environmental Sustainability, Bishop Heber College, Trichirappalli, India.7th -8th March 2007.Ab.p.V/4.

83)John Paul, J.A. and **Thilagavathy Daniel**, 2008. Energy options for municipal solid waste management in Class-I Towns. National Seminar on The Present Scenario in Biodiversity, Biotechnology and Environmental Management, J.J.College of Arts and science, Pudukkottai.6th -7th March 2008.Ab.p.47.

84)**Thilagavathy Daniel**, S.Uma Maheswari and B.Sivasankari, 2008. Enhancement of leaf litter biodegradation using microorganisms for compost preparation. National Conference on Environment Science and Technology. Bharathidasan University Tiruchirappalli.28th and 29th November 2008. Ab.p.47.

85)**Thilagavathy Daniel**, K.Anbarasan, P.Ranjitham and B.Sivasankari, 2008. A study on the efficacy of plant extracts against dandruff causing fungi. National Conference on Environment Science and Technology. Bharathidasan University Tiruchirappalli.28th and 29th November 2008. Ab.p.48

86).Mahalingam, P.U and **Thilagavathy Daniel**,2008. Isolation and Characterization of cellulolytic bacteria from natural sources of decayed organic wastes and the gut of earthworm *Eisenia fetida* Savingy for solid waste management. National Conference on Environment Science and Technology. Bharathidasan University Tiruchirappalli.28th and 29th November 2008. Ab.p.57.

87) Mahalingam, P.U and **Thilagavathy Daniel, 2008**. Recycling of agro-residues using microbial consortium and earthworm *Eisenia fetida* Saviny. National Conference on Environment Science and Technology. Bharathidasan University Tiruchirappalli. 28th and 29th November 2008. Ab.p.84.

88) Manivannan, N. and **Thilagavathy Daniel, 2008**. Use of vermicompost as carrier material for microbial inoculants for enhanced crop production. National Conference on Environment Science and Technology. Bharathidasan University Tiruchirappalli. 28th and 29th November 2008. Ab.p.58.

89) Manivannan, N. and **Thilagavathy Daniel, 2008**. Evaluation of *Gliricidia sepium* Jacq. And *Tephrosia purpurea* pers. Litter vermicompost. National Conference on Environment Science and Technology. Bharathidasan University Tiruchirappalli. 28th and 29th November 2008. Ab.p.84.

90) N.Karmegam, C.K.Hindumathy and Thilagavathy Daniel, 2009. Vermitechnology- A suitable technique to challenge organic waste management. National Conference on Challenges in biotechnology-biolooms 09. 28 March 2009. Ab.p.84.

15. KEYNOTE ADDRESSES & LECTURES DELIVERED

Dr. Thilagavathy Daniel was invited to offer special lectures and keynote addresses in seminars and special programmes. A few of them are listed below:

1.	Feed for Aquaculture	Vivekananda College, Thiruvudakam	1996
2.	Environmental Awareness	Palani Andavar College for Women, Palani.	1997
3.	Status of Indian Environment	Gandhigram Rural Institute, Gandhigram.	1997
4.	Organic Waste Recycling	J.A. College for Women, Periyakulam.	1998
5.	Environmental Awareness	Lady Doak College, Madurai.	1998
6.	Application of biological techniques for Rural Development	The American College, Madurai.	1998
7.	Vermiculture Biotechnology	Thiagaraja College, Madurai.	1998
8.	Eco-conservation	Lady Doak College, Madurai	1999
9.	Water Borne Diseases And Control	Gandhigram Rural Institute, Gandhigram.	1999
10	Use of Medicinal Plant products	Mother Theresa University, Kodaikanal	1999
11	Waste recycling	Association of Engineers, Madurai	2000
12	Vermiculture technology	Lady Doak College, Madurai	2001
13	Earthworms & their utility	Palani Andavar College, Palani	2002
14	Waste utilization	VVV College, Virudhunagar	2002

15	Control of waterborne diseases	Madurai Kamaraj University, Madurai	2002
16	Role of women in environmental conservation	Bharathiar University, Coimbatore	2002
17	Solid waste management using indigenous earthworms.	Kodungallur Kerala	2004
18	Environmental concerns and issues.	GRU, Gandhigram	2005
19	Waste managemet through vermicomposting.	GRU, Gandhigram	2005
20	Solid waste management	Bharathiar University, Coimbatore	2005
21	Birds and Gandhigram	GRU, Gandhigram	2006
22	Fish feed formulation and evaluation	GRU, Gandhigram	2008
23	Indian Environment- challenges & solutions	GRU, Gandhigram (to Japanese students)	2009

16. EXAMINERSHIP IN UNIVERSITIES

1. Environmental Science
(Masters Degree, M.Phil., & Ph.D.) Bharathiar University, Coimbatore.
2. Zoology
(Masters Degree, M.Phil., & Ph.D.) Bharathidasan University, Trichy.
3. Zoology & Entomology
(Masters Degree & M.Phil.,) Central University, Pondicherry.
4. Environmental Science
(Masters Degree & Ph.D.,) Manonmaniam Sundaranar University, Tirunelveli.
5. Zoology (Ph.D., Degree) Manonmaniam Sundaranar University, Tirunelveli.
6. Environmental Biotechnology
(Masters Degree & Ph.D) Manonmaniam Sundaranar University, Tirunelveli
7. Environmental Science
(M.Phil., & Ph.D.) Madurai Kamaraj University, Madurai.
8. Zoology
(Masters Degree & Ph.D.,) Madurai Kamaraj University, Madurai.
9. Applied Biology
(Masters Degree) Gandhigram Rural Institute, Gandhigram.
10. Zoology
(Masters Degree & Ph.D) Gandhigram Rural University, Gandhigram.
11. Herbal Medicine
(P.G. Diploma) Mother Theresa University, Kodaikanal.
12. Zoology
(Masters Degree, M.Phil., & Ph.D) Annamalai University, Chidambaram.
13. Environmental Biotechnology
(M.Sc). Annamalai University, Chidambaram.

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|--------------------------------------------------------------|----------------------------------------------------|
| 14. Environmental Biotechnology
(Masters Degree & Ph.D.,) | Manonmaniam Sundaranar
University, Tirunelveli. |
| 15. Zoology and Environmental
Science (Ph.D) | Mahatma Gandhi
University, Kottayam. |
| 16. Zoology (Ph.D) | Kerala University
Thiruvananthapuram. |
| 17. Environmental Science (M.Phil) | Periyar University, Salem. |
| 18. Microbiology (M.Phil) | Sri Vinayaga. Missions
University, Salem. |

17. SEMINARS, REFRESHER COURSES AND OTHER PROGRAMMES ORGANISED

1. Popular Lecture Series in Biotechnology. 1995-1996
Three popular lectures were organized in GRI in which more than 200 students and staff members of GTN Arts College, Dindigul, M.V.M. College, Dindigul, Vivekananda College, Thiruvudagam, Lakshmi College of Education, Gandhigram and GRI, Gandhigram participated (The programme was sponsored by DBT, New Delhi). (Rs 21000/-)
2. One week Refresher Course for Middle School Science Teachers of Dindigul Anna District was organized in which 63 Science Teachers were refreshed on the subjects. They were also trained to use local resources to conduct demonstrations while teaching science subjects. (The programme was sponsored by Tamil Nadu State Council for Science and Technology) (Rs 32867/-)
3. One week Refresher Course for Middle School Science Teachers of Dindigul District was held in GRI in which 60 Science teachers were trained. (This programme was also sponsored by Tamil Nadu State Council for Science and Technology) 1996-1997
4. A One Day Interactive Meeting of the Department of Biotechnology, New Delhi and NGOs/Voluntary Organizations/R & D Institutions was organized in GRI in which 21 participants presented project proposals in the field of Biotechnology.(Rs 73,256/-) 18th September 1997.
5. Regional Seminar on “Biology for Rural Applications” was held in KVK, GRI, Gandhigram and 28 papers in the field of Aquaculture, Pest control, Waste recycling, Mushroom culture and Sericulture were presented. (Rs 15000/-) 20th September 1997.
6. A One Day Seminar on “Science for Quality Life was 20th April 1998.

organized in KVK, GRI, Gandhigram and papers from various disciplines were presented in the seminar.

7. A four day National Seminar on Towards creating an agenda for India was organized jointly by Indian Institute of Advanced Studies, Simla and Gandhigram and **Dr. Thilagavathy Daniel** was one of the members of the organizing committee. 4-7 January 1999.
8. Co-president of the Section on Ecology and Environmental Sciences of the XXII Indian Social Science Congress organized in GRI in which 25 papers were presented in the subject. 13-18 March 1999.
9. A one day Bio-fest programme, an intercollegiate event in which eight colleges participated 2000
10. A one day Bio-fest programme an inter collegiate event for students of Biology discipline. March 2001
11. Two days National Seminar on Rural Biotechnology for Sustainable Development, in which 250 members participated (Sponsored by UGC, ICSSR, CSIR & TNSCHE). (Rs 1, 30,000/-). 19-20, Feb.2004
12. One day Regional Seminar on Pandemic Diseases and management. 23 Feb 2006

18. REFRESHER COURSES ORGANISED (UGC SPONSORED)

(For College and University Teachers)

1. First 21 day Refresher Course on Biology Extension was conducted in the Department of Biology in which 20 number of University and college teachers from various parts of Tamil Nadu participated (The course was sponsored by UGC, New Delhi). (Rs 59,684/-) 31st March to 20th April 1997.
2. Second 21 days Refresher Course for College and University Teachers on “Recent Trends in Biological Techniques for Rural Development” was organized in the Department of Biology. 26 Teachers from different districts of Tamil Nadu attended the program.(Rs 1,15,575/-) 25th November to 15th December 1998.
3. Third 21 days Refresher Course for college and University teachers on “Recent trends in Biological Research and Extension for the Development of Rural Women” in which 23 teachers participated from seven universities.(Rs 1,13,960/-) 5-25 September 2001
4. Fourth 21 days Refresher Course for college and University teachers on the topic “Recent advances in biological techniques” in which 28 participants participated from Tamil Nadu and Kerala.(Rs 1,69,095/-) 13 November to 3 December 2002

19. PROJECTS HANDLED/IN PROGRESS

19.1.	Major Projects	-	3 (three)
	Minor Projects	-	5 (five)

19.2.1 Technology Training Programme for Rural Women on Cultivating Mushrooms from Locally Available Sources and Prevention of Pollution of the Sources. 1991-1995. Co-Principal Investigator of the 5.4 lakh Project funded by CAPART, New Delhi (more than 300 people including village women, un-employed youth, NGOs and students were trained on Oyster Mushroom Cultivation, Spawn Production and Waste Utilization). (Major) (Rs 5.4 lk)

19.2.2 Transfer of Technology on Sustainable Agriculture to the Weaker Section and SC/ST Youth in Dindigul Anna Distract. 1996-1999. Principal Investigator of the 7.25 lakh Project funded by the Department of Biotechnology, New Delhi (Twenty batches of trainees i.e., 15 beneficiaries/batch, have each undergone 21 days training on Sericulture and Vermiculture. Vermiculture demonstrations were carried out in a number of villages, to NGO groups, to students and other staff of various other Educational Institutions. Research activities related to increasing the silk yield through supplementary feeding and utilization of agricultural residues, leaf litters, weeds and animal wastes for vermiculture and the earthworm survey) (Major).(Rs 7.25 Lk)

19.2.3 Technology transfer for SC/ST youth on recycling of agro-residues for income generation and production of organic manure through mushroom cultivation (1999-2002) Co-Principal Investigator of the 3.91 lake Project funded by DBT, New Delhi. To train 100 SC/ST youth (from different blokes of Dindigul district) on oyster mushroom production and bio-remediation of lignocelluloses wastes into organic manure (Major) (Rs 3.91 lk).

19.2.4 Evaluation of Non-Conventional Protein Feed for Prawn, a minor project funded by GRI was carried out during 1994-1996. UGC unassigned grant (The work included the cultivation of *Spirulina*, compounding of feed, feed analysis and feeding trials) (Minor). (Rs.10,000/-) .

19.2.5 Evaluation of three low cost feed for the cultivation of freshwater prawn, *Macrobrachium rosenbergii*, a minor project funded by Tamil Nadu State Council for Science and Technology was completed in 1995-1996. (Protein was separated from three leaf materials i.e. *Clitoria ternatea*,

Cajanus cajan and *Sesbania grandiflora* and incorporated in the feed of *M. rosenbergii* and evaluated for growth performance) (Minor). (Rs 4000/-)

- 19.2.6 A study on the Practice, Distribution and Conservation of Medicinal Herbs of the Tribes of the Western Ghats, a minor project sanctioned by GRI from the UGC un-assigned grant for 1999 - 2001. (The objective of the work include Survey of the tribal herbal medicinal practices, Survey of the distribution of such medicinal plants and Raising of a mini herbal garden) (Minor). (Rs 20,000/-)
- 19.2.7 Formulation of mosquito repellent coil using plant products (2000-2001), funded by Tamil Nadu State Council for Science and Technology (Minor).(Rs 5000/-)
- 19.2.8 A study on production of *Spirulina*, a blue green alga as a protein source for feed formulation. (2003-04) Sponsored by TNSCST,Chennai (Minor project). (Rs 4000/-).

20. EXTENSION WORK EXPERIENCE

Extension, one of the three dimensions of Educational Principles of GRI and a major contribution to the success of the Institute was carried out by **Dr. Thilagavathy Daniel** ever since she joined the Institute in April 1974.

She was one of the members of the team which sent the trainees of the Sanitary Inspectors Course to Maharashtra when there was an epidemic of Small Pox in 1974 to help WHO and Indian government to eradicate the disease.

During 1975 and 1976 she was one of the members of the team responsible for the District Development and Demonstration Programme to help in the over-all development of the people through Registration of Mathar Sangam and Youth Club, training of the Village leaders, organizing developmental programmes and implementation of multipurpose health activities.

In 1977, when there was a flood in Dindigul District, again a mammoth contribution was made by a team of staff and the trainees of the para-medical programme in helping the victims, in controlling cholera and in the rehabilitation work in which **Dr. Thilagavathy Daniel took active role.**

During 1974-79, she accompanied the trainees of various para-medical programmes and trained them in the collection, identification and control of various vectors responsible for the spread of different diseases. She also conducted mass survey of intestinal parasites among the school children and villages in different parts of the District and promoted mass-deworming programme and construction of sanitary latrines and soak pits.

During 1980-85, she created awareness among the students on environmental issues and surveyed the effect of pollution around Dindigul and served as resource person for several NGOs in bringing about awareness among the public on the ill-effects of tannery pollution.

Between 1986 and 1993, more extension activities were carried out in the field of non-renewable energy sources. Tree plantations were carried out in GRI campus and in the villages to increase the tree biomass. Several bio-gas plants were installed. Though the community bio-gas plant proved a failure, the individual plants were very successful. Method of incorporation of available weed sources for the production of biogas was also taught to the villagers.

Through organizing National Science Day celebrations and Biology Association Activities she brought awareness among the students of GRI on the important role of Scientists to the public.

Dr. Thilagavathy Daniel always served as a field guide for over-all Rural Development. She presented special lectures on the role of biologists and others for Rural Development among students, NGOs, staff and trainees of other institutions, and also in the villages covering subjects like Waste recycling, Nutrition, Maternal and Child Health, Sanitation, Income Generation Activities, Renewable Energy and Environmental Awareness.

In 1997-99, when Special Tuition programmes for the Village School Children around GRI was started, **Dr. Thilagavathy Daniel** regularly deputed the students and staff to teach Biology to the village children and supervised the programme.

She is responsible for introducing a “2 Credit” course on “Field Visits” to the students of M.Sc., Applied Biology Programme and effectively implemented Village Placement Programme - VPP, a unique activity of GRI, in needy villages. The students were well prepared to meet the challenges in the field to suggest solutions for their problems through Participatory Rural Appraisal - PRA, Counseling, Self-help and Services.

Dr. Thilagavathy Daniel is a member of the Empowered Committee on Reproductive and Child Health Projects of Rural Education and Development Society, Sivagangai, a mother NGO. She extends consultancy to NGOs to promote Integrated Rural Development (2000-2002).

Through the 21 days Refresher Courses sponsored by UGC, she was able to reach other College and University Teachers of different parts of Tamil Nadu and Kerala in creating awareness among them on the need of Extension and Rural Development.

21. ADMINISTRATIVE CAPABILITIES AND INTERACTION WITH OTHER PEER INSTITUTIONS

From 1979 till 2009, **Dr. Thilagavathy Daniel** served as HOD-in-charge and as Head of the Department of Biology and managed the programmes of the Department like preparation of Curriculum, Introduction of Courses, Preparation of Budget, Establishment of Research Lab., Student Management etc. with a short break of two years, 1988-1989.

The other administrative activities carried out by **Dr. Thilagavathy Daniel** are as follows:

Sl. No.	Duties	Period
1	Academic Council Member of GRI.	1992 - till date
2	Chairperson, Board of Studies in Biology, GRI.	1992 - 2009
3	Doctoral Committee Member in Biology, GRI.	1993 - till date
4	Chief Superintendent of Examinations, GRI.	Dec. 1994
5	Coordinator for Biology for Coaching Centre for Professional Courses Entrance Examination – CCPCEE	1994 - 2006
6	Chairperson, Election of office bearers for Biology Association	1995-2009
7	Member, Sports Committee, GRI.	1996 – 1999
8	Member, Disciplinary Committee, GRI.	1996 – 1999
9	Member, Institute Fellowship and Stipend Awards Committee, GRI	1996 – 1999

10	Dean of the Faculty of Rural Oriented Sciences	1996 – 1999
11	Member, Senate of GRI	1996 – 1999
12	Syndicate Member of GRI	1996 – 1999
13	Finance Committee Member of GRI	1996 – 1999
14	Library Committee Member, GRI	1996 – 1998
15	Member, Library Book Purchase Committee, GRI	1996 – 1997
16	Member, Library Furniture Purchase Committee, GRI	1996 – 1997
17	Member, Standing Committee for course recognition, GRI	1996 – 1997
18	Member, Interim Administrative Committee, GRI	1996 – 1997
19	Member Admission Criteria Committee, GRI	1997 – 1999
20	Chairperson, Annual Report Committee, GRI	1997 – 1999
21	Chairperson for Departmental Committee of Chemistry, English, Mathematics and Home Science (each for an year), GRI	1997 – 2004
22	Member, Steering Committee for Hunger Free area Programme	1998 – 2000
23	Member, Fees Structure Committee, GRI	1998 – 1999
24	Member, Prospectus Committee, GRI	1998 – 1999
25	Member, Standing Committee for SC/ST, GRI.	1998 – 2001
26	Co-ordinated Biology Association activities	1998-2008

27	Chairperson, Question paper Scrutiny Board, Dept. of Biology, and GRU.	1998-2009.
28	Member, Disciplinary Committee for Women Employees, The Gandhigram Rural Institute.	1999 – 2002
29	Member, Research Advisory Committee, GRI	2001 – 2003
30	Member, Silver Jubilee Celebration Committee, GRI	2001 – 2002
31	Member, Selection Board, GRI	2001 – 2002
32	Co-ordinated Bio-fest programme (intercollegiate)	2001-2008
33	Co-ordinator, Simulated interview for outgoing students	2001-2007
34	Co-ordinator for biology, Young Students scientist Programme (YSSP) of Dindigul and Theni District	2002-2006
35	Project Co-ordinator, GRI	2002 – 2004
36	Chairperson Departmental committee for English, M.B.A programmes and Applied Research	2002-2007
37	Member, NET coaching for SC/ST in Biology Association	2002-2007
38	Chairperson staff enquiry committee	2002-2008
39	Member Committee for redressal of harassment of women in work place.	2002-2008
40	Member Co-ordination Committee for National Science Day Celebrations	2002-2009
41	Chairperson, Committee for preparation of Best practices on Curricular aspect of GRI.	2005

42	Member, Organizing Committee of National Commomaratative Conference on Tsunami, MKU, Madurai	2005
44	Member, XI plan Parchase Committee	2005-2006
45	Member, National advisory Committee, Fourth International Symposium on Biocontrol and Biotechnology	2007
46	Member, Gurukula Planning Committee	2005-2006
47	Member Board of studies in zoology, Yadhava college, Madurai	2006-2008
48	Member, Interview Committee for staff selection in Education Dept.	2005-2007.
49	Dean, Students Affairs.	2005 – 2008
50	Chairperson Disciplinary committee for Examination mal practice	2005-2008
51	Chief warden	2005-2008
52	Member Fee Structure committee	2005-2008
53	Coordinator of orientation programmes for New-entrants	2005-2008
54	Chairperson Institute fellowship and stipend awards committee	2005-2008
55	Member calendar committee	2005-2008
56	Chairperson anti-ragging committee	2005-2008
57	Member Building Committee	2005-2008
58	Member Students Health Insurance Committee	2005-2008
59	Students Enquiry Committee member	2005-2008
60	Women representative for selection committee of teaching positions	2005-2008
61	Member, Magazine Committee	2005-2008.

62	Member, Prospectus and fee structure committee	2005-2008.
63	Officer in charge, Election of student Senator	2005-2008
64	Member Inspection Commission to start M.Sc., Microbiology in Dr. Zakir Hussain College, Ilayangudi, Alagappa University,	2006
65	Member, Board of studies in Microbiology Thassim Beevi Abdul Kadar College, Alagappa University, Koraikudi,	2006-08
66	Member, Consolidation Committee for IX Plan Proposals, GRU	2007
67	Member, Selection Committee for awards of L- Ram fellowship	2007
68	Chairperson , Review committee for duty leave to project Co-ordinators	2008
69	Chairperson, Extracurricular activity evaluation committee of the Academic council.	2008
70	Team Leader for selection of candidates from Sri Lanka	2006-2007
71	Team Leader for refresher course in Srilanka	2007-2008
72	Chairperson Furniture purchase committee	2007-2008
73	Technical Committee member for purchase of equipments, Madurai Kamaraj University	2008
74	Member X Plan Purchase Committee, MKU, Madurai	2005
75	Member, National Advisory Committee, Fourth International Symposium on Biocontrol & Biotechnology, Lady Doak College, Madurai .	2005-2006
76	Member Board of studies in Zoology, Yadhava College, Madurai	

22. INTERNATIONAL ASSIGNMENTS AND VISITS

- 1) Singapore: On a short term visit for research in the field of fish feed formulation using non-conventional protein sources through the Fellowship Awarded by the Association of Commonwealth Universities, London National University of Singapore. 5.12.1996 to 2.3.1997

- 2) Malaysia - Visits to Fish farms and National Reserves. -January1997

- 3) SRILANKA- Served as Team leader for selection of candidates for studies From Srilanka (15.2.2007 to 21.2.2007).

- 4) SRILANKA- Team leader and Resource person to conduct Refresher course to Teachers of Up-country,Hatton, srilanka in Science and English. (20.8.2007 to 1.9.2007).

- 5) SINGAPORE- Established rapport with the Department of Biotechnology, Singapore Plytechnic and served as Co-ordinator for the two weeks village Stay and training programmes in Vermitechnology, Green house construction, Mushroom technology, Composting, Biotechnology and Medicinal plant Cultivation (20.2.2008 to 4.2.2008) for the 24 members team.

23. NAAC EXPERIENCE

Dr. Thilagavathy Daniel was actively involved in the preparation of reports of activities of the Department of Biology, GRI, Gandhigram and presentation to the NAAC Steam which awarded a **Five Star** status to GRI.