

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

i) General information :-

- a) Name : Dr.K.Sujatha
b) Address (Residential) : 28A, Gokulamcolony,
Street No:2
P.N.Pudur,
Coimbatore – 641 041.
Mobile No:9362853053
c) Designation : Assistant Professor
d) Department : Zoology
e) Date of Birth : 28.08.1968
f) Area of Specialization : ENTOMOLOGY



A)Academic Qualifications

Exam Passed	Board/University	Subjects	Year	Division/ Grade/Me rit etc.
High School	Board of secondary Education	Tamil, English, Maths, Science, History & Geography.	1982	I Class
Higher secondary or Pre-degree	Board of Higher Secondary Education	Physics, Chemistry, Botany, Zoology	1984	II Class
Bachelor's degree(s)	Bharathiar niversity, Coimbatore.	Zoology	1987	I Class
Master's degree(s)	Bharathiar University Coimbatore.	Zoology	1989	I Class
Research degree(s)	Ph.D., BharathiarUniversity, Coimbatore.	Zoology	1997	Commende d
Others (Degrees, Diplomas) Certificates etc.	B.Ed., Annamalai University Chidambaram.	Zoology	1992	I&II Class

ii) Research Experience & Training

Research Stage	Title of work/Thesis	University where the Work was carried out
M.Phil. or equivalent	-----	-----
Ph.D.	Bioecological and Biochemical studies on concomitant infection of Sugarcane roots(<i>cv.Saccharum</i> spp.) by Lesion nematode, <i>Pratylenchus zae</i> Graham,1951 and Root-Knot nematode, <i>Meloidogyne javanica</i> ,Chitwood,1949.	Bharathiar University, Coimbatore
Post-Doctoral	-----	----
Publications	Please Refer Appendix - A	----
Research Guidance		----
Training (please specify)		----

B) Research Projects carried out

Externally Funded Projects				
PI / Co-PI	Title	Year	Amount	Funding agency
PI	Z-27An efficacy of entomopathogenic nematodes the biopesticide isolated from different agro ecosystem against the pest <i>Spodoptera litura</i> and its molecular characterization.	2013 – 14	15,000	Tamilnadu State Council for Higher Education, Tamilnadu Government,Chennai.

C) Seminars, Conferences, Symposia Workshops etc. Attended

Name of the Seminar/ Conference/Symposia Workshop,etc.	Name of the Sponsoring Agency	Place and Date
Please Refer Appendix		

iii) Teaching Experience

Courses Taught	Name of University/ College/Institution	Duration
i) U.G. B.Sc.	1.Govt. Arts College, Coimbatore-18	26.12.2007 to till date
i. PG M.Sc.	Govt. Arts College, Coimbatore-18	26.12.2007 to till date
ii. M. Phil	1. Govt. Arts College, Coimbatore.	26.12.2007 to till date
iii. Ph.D.,	1. Government Arts College, Coimbatore .	26.12.2007 to till date
iv. Others (if any)	---	---

Total Teaching Experience

- a) Under-Graduate (Pass) : 11 Years and 5months
b) Under-Graduate (Hons) : ----
c) Post-Graduate : 11 Years and 5 monthsviii)

Innovations/Contributions in Teaching

- a) **Design of curriculum** : Designed syllabus for B.Sc., M.Sc.,
(Zoology)Courses.
- b) **Teaching methods** : Lecturing, , educational
Quiz, group discussions, seminars.
Teaching through A/V aids, Industrial
Visits and training.
- c) **Laboratory experiments** : Experiments based on problems solving
ability in accordance with the syllabus ,
Questionnaires and conducting viva-voce.
- d) **Evaluation methods** : Tests, seminars, problem solving
experiments, Paper presentation,
Attentiveness of the student is periodically watched,
Problem solving Exercises, Projects.
- e) **Preparation of resource
Material including books,
Reading materials, laboratory
Manuals etc.** : 1. Mainly prescribed text books
2. Consultation with senior professors
3. Journals and magazines
4. Internet, Magazines, News papers

f) **Remedial Teaching/Student Counseling (academic)** : Special coaching classes, Identifying students' problems, helping them in solving problems, parental counseling

Any other : Periodical counselling to students of the Department/college in the Guidance and Counselling center.

ix) Extension Work/Community Service

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

i) Community work such as values of National integration, secularism, Democracy, socialism, humanism, Peace, scientific temper, flood or Drought relief, small family norms community. Flood relief etc. : Creating awareness about the basic values, Interpersonal skills, social skills and prosocial behavior among students and members in the

ii) National Literacy Mission : Creating awareness about the Importance and value of literacy.

b) Positions held/Leadership role in organizations linked : Served as Additional Camp Officer for withplayed Central valuation of Bharathiar University December 2014

Extension Work and National Service Scheme (NSS) or (NCC) or any other similar activity.

D) Participation in Corporate Life:-

Please give a short account of your contribution to:

a) College/University/Institution : Helping the Principal, HOD in the Departmental activities, Maintaining Discipline in the campus, Motivating the Students to join the entire extra curricular Activities, Disciplinary Committee Member, SC & ST Scholarship signing for the College.

b) Co-curricular Activities College and other College : Taken classes for UGC-NET and SET in the

- c) Enrichment of Campus Life : Helping/assisting /guiding the Principal, HOD, Colleagues and students to enrich the campus life. Tree planting, looking after the Termite infected trees. (Hostels, sports, games, cultural activities)
- d) Students welfare and Discipline : Disciplinary committee member, Periodical counseling to the students their parents and family members in the Guidance and Counselling center.
- e) Membership/Participation in Bodies/ Committees on Education National Development : Member- Board of studies, Syllabus framing, External and Internal examiner and in Theory and Practicall Doctoral Committee
- Member for Research Works , External examiner for Ph. D Viva-Voce .
- Review committee member for +1 and +2Syllabi of **SCERT** (State Council for Education, Research and Training)
- f) Professional Organization of Teachers. : ----
- E.
- a) Members of professional bodies, societies etc : 1.Environmental Science Academy-Life member
- .. 2. The Indian Science Congress Association, (Life member) Kolkata
- b) Editorship of journals : ---
- F. **Any other information** : Authored 2 Book chapters & 2 Books

K. SUJATHA
(Signature of the teacher)

RESEARCH PUBLICATION:

I. Publications (International / National):

1. **K.Sujatha** and Usha.K.Mehta (1997). Relative Pathogenicity of nematodes *Pratylenchus zae* and *Meloidogyne javanica* on sugarcane crop. *International Jour.Nematol.*7 (2)221-224.
2. **K.Sujatha** and Usha.K.Mehta (1998). Changes in the activity of peroxidase and polyphenol oxidases in sugarcane roots after infection with *Pratylenchus zae* and *Meloidogyne javanica*. *International Jour.Nematol.*8 (1) 102-104.
3. **K.Sujatha** and Usha.K.Mehta (1998) Life cycle of *Pratylenchus zae* and *Meloidogyne javanica* alone and in combination in roots of Sugarcane. Paper presented at third International nematology symposium of the society, April 16-19, 1998. Coimbatore.
4. **K.Sujatha** and Usha K.Mehta (1998) studies on penetration of *Pratylenchus zae* and *Meloidogyne javanica* alone and in concomitance and the resulting histological changes. Paper presented at third International nematology symposium of the society, April 16-19, 1998. Coimbatore.
5. C. Vani, **K. Sujatha**, Usha K. Mehta and T. Kathiresan. 2005. Effect of temperature on the growth rate of *Photorhabdus* and *Xenorhabdus* symbiont of Entomopathogenic Nematodes. *Journal of Theoretical and Experimental Biology*, 2(1): 15-19.
6. R.Malathy, P.Dhevagi, **K.Sujatha** and Raji Sukumar, 2006. Protoplast fusion to improve *Bacillus* sp. *Journal of Theoretical and Experimental Biology*, 2(3and4):99-106.
7. M.Muthukumar, M.Rabeeth, RajeshPati, **K.Sujatha**, Navin Srivastava and MadhuKamle 2009.Isolation,Purification and Biochemical characterization of Lectin from Oyster Mushroom *Pleurotussajor-Caju*. *Plant Archives.*9 (1); pp 41-46.
8. M.Shakeerabanu, **K.Sujatha**, C.Praveen Rajneesh and A.Manimaran, 2011. The defensive effect of Quercetin on Indomethacin induced gastric damage in rats. *Advances in Biological Research* 5 (1): 64-70.
9. M.Shakeerabanu and **K.Sujatha**, 2012. Antimicrobial Screening of leaf extract of *Psidium guajava* and its isolated fraction against some pathogenic microorganisms. *Drug Invention Today*, 4(3), 348-350.
10. M.Shakeerabanu, **K.Sujatha**, W.Sherly Beena and N.Divya, 2012. Antihyperglycemic and Antioxidant potentials *Psidium guajava* leaf extract and its isolated fraction in alloxan-induced diabetic rats. *Research J. Pharm.and Tech.* 5 (4); 541-546.

12. Umadevi.M and **K.Sujatha**, 2013. Toxic effects of *Curcuma longa* different extracts on biochemical and enzymatic parameters of *Tribolium castaneum*. *International journal of Innovation Research*. 1(2); 36-39.
13. M.Umadevi and **K. Sujatha**, 2013. Evaluation of insecticidal activity and phytochemical analysis of five different plant crude extracts against *Tribolium castaneum* (Herbst.) *.International journal of Research in Pharmaceutical and Biomedical Sciences*, 4(2); 497-499.
14. Chitra P,Jayanthirani P, Aruna D, **K. Sujatha** , 2014. Influence of the earthworm *Eudriluseugeniae* (Kinberg) on the germination, growth and yield of *Dolichos lab lab* Pg:152-162 **In** :Proceedings of the National Symposium on Cultural landscapes, *Indigenous knowledge and Biotechnological tools for Biodiversity Conservation*. Departments of Botany, Zoology and Biotechnology , Kongunadu Arts and Science College, Coimbatore-641 029.
15. **Sujatha.K** and P.Chitra, 2014. Changes in protein content of *Spodoptera litura* larva infected with *Steinernema - Xenorhabdus* symbiont isolated from Marudhamalai region of Western Ghats. "*International journal of research in Science*". **1(1)**, pg. 30-33.
16. V.Senthilkumar ,**K.Sujatha** , S.Sivaramakrishnan , and M.Razia 2015 , "Assessment on heat and cold temperature on survival, pathogenicity, reproduction potential of entomopathogenic nematodes." *International journal of current microbiology and applied science*. 4(1) ; pp. xx-xx.
17. R. Saravanan and **K. Sujatha** 2016, "Purification of antimicrobial peptides from *paratelphusa jacquemontii* hemolymph in response to artificial bacterial infection." *International Journal of Advanced Multidisciplinary Research*. 3(11); pp. 93-98.
18. R. Saravanan and **K. Sujatha** 2016, "Immune responses of *Paratelphusa jacquemontii* (Rathbun) against artificial infection of *Staphylococcus aureus* and *Vibrio parahaemolyticus*." *International Journal of Advanced Research in Biological Sciences*. 3(11); pp. 186-192.
19. P. Chitra, A. Deepa and **K. Sujatha** 2016, "Lipase activity and protein profiling of *Helicoverpa armigera* (Cotton boll worm) and *Lucinodes orbonalis* (shoot borer) infected by *Steinernema* sp. and its symbiont *Xenorhabdus* sp. isolated from Western Ghats of Munnar." *International Journal of Current Research in Biology and Medicine*. 1(3); pp. 23-28.
20. P. Chitra, A. Deepa and **K. Sujatha** 2016, "The efficacy of *Xenorhabdus* sp. in the quantitative determination of protein, carbohydrates and lipids content in larvae of

Helicoverpa armigera (cotton boll worm) and *Lucinodes orbonalis* (shoot borer).” *International Journal of Advanced Research in Biological Sciences*. 3(7); pp.62-67.

21. Sajani Jose, **K. Sujatha** 2016, “Antibacterial property of methanolic extract *Gliricidia sepium* against some human pathogens.” *International Journal of Advanced Science and Research*. 9(1); pp. 16-18.
22. N Santhana Bharathi, **K Sujatha**, M Tamilselvi 2016, “Biopesticidal effect of *Steinernema* sp. on lepidopteran pest *Helicoverpa armigera* and biochemical parameter analysis.” *Internation Journal of Zoology and Applied sciences*. 1(6); pp. 257-260.
23. Sajani Jose, **K. Sujatha** 2017, “Phytochemical screening and antibacterial properties of *Adathoda vasica* against few human pathogens.” *Indo Americal Journal of Pharmaceutical Sciences*. 4(4); pp. 971-975.
24. Sajani Jose, **K. Sujatha** 2017, “Antifeedant activity of different solvent extracts of *Gliricidia sepium* against third instar larvae of *Helicoverpa armigera* (Hubner) (Lepidoptera: Noctuidae).” *International journal of Advanced Research in Biological Sciences*. 4(4); pp.201-204.
25. R.Saravanan and Dr.K.Sujatha 2018. Isolation and screening of gut microflora of a freshwater crab *Paratelphusa jacquemontii* (Rathbun) for amylase production. *Int. J. Curr. Res. Biol. Med* (2018). 3(3): 82-90.

Gene Patents

- 1) Chitra,P. and Sujatha,K. April, 2019.
SUB5522648 seq1 MK829043 *Xenorhabdus beddingii*, 16S rRNA gene, partial sequence.
- 2) Chitra,P. and Sujatha,K. April, 2019.
SUB5522648 seq2 MK829044 *Xenorhabdus bovienii*, 16S rRNA gene, partial sequence.
- 3) Chitra,P. and Sujatha,K. April, 2019.
SUB5522648 seq3 MK829045 *Xenorhabdus doucetiae* 16S rRNA gene, partial sequence.
- 4) Chitra,P. and Sujatha,K. April, 2019.
SUB5522648 seq3 MK829046 *Xenorhabdus griffinae* 16S rRNA gene, partial sequence.
- 5) Chitra,P. and Sujatha,K. April, 2019.
SUB5522648 seq3 MK829047 *Xenorhabdus indica* 16S rRNA gene, partial sequence.
- 6) Chitra,P. and Sujatha,K. April, 2019.
SUB5522648 seq3 MK829048 *Xenorhabdus innexi* 16S rRNA gene, partial sequence.
- 7) Chitra,P. and Sujatha,K. April, 2019.
SUB5522648 seq3 MK829049 *Xenorhabdus japonica* 16S rRNA gene, partial sequence.
- 8) Chitra,P. and Sujatha,K. April, 2019.
SUB5522648 seq3 MK829050 *Xenorhabdus indica* 16S rRNA gene, partial sequence.
- 9) Chitra,P. and Sujatha,K. April, 2019.
SUB5522648 seq3 MK829051 *Xenorhabdus romanii* 16S rRNA gene, partial sequence.

Books Chapter (ISBN) : 1

	Title	Author	ISBN No	Publisher	Year
1	Chapter 52: Environmental Issues and Solutions - Biological treatment of Azodyes Ed. Arvindkumar and Pashupati Kumar Roy,	Dhevagi.P. and K.Sujatha (302 - 318)	ISBN 81-7035 - 491-8.	New Delhi, Daya Publishing House	2008
2	Entomopathogenic nematode as Biocontrol agent in Integrated Pest Management. In Asim Biswas, Pawan Kumar and Avnish Chauhan	Krishnaswamy Sujatha, Periasamy Dhevagi and Palanisamy Sundararajan	ISBN 978-93-5056-794-4	Publishing House Pvt. Ltd., New Delhi, India	2016

i) Books (With ISBN) : 2

S.No	Title	Author	ISBN No	Publisher	Year
1	“ <i>Cajanuscajan</i> (L.)Mills.Sp <i>InVitro</i> regeneration and transformation of <i>Cajanuscajan</i> (L.)Mills.Sp through <i>Agrobacterium tumefaciens</i> ”.	M.Shakera Banu and K.Sujatha	ISBN No13:978-3-8454-0155-3.	LAMBERT Academic Publishing	2011-07-29
2	Hepatoprotective and Antioxidant potential of <i>Psidium guajava</i> Linn.	K.Sujatha and M.Shakera Banu	ISBN No13:978-3-659-40534-1	LAMBERT Academic Publishing	2013

Seminars, Conferences, Symposia Workshops etc. attended:

SEMINARS ATTENDED:

- Seminar on “Genetics, Health and Disease”, held at Bharathiar University, Coimbatore on 16th March, 2000.
- Seminar on Basics in Bioinformatics, at Coimbatore, Organised by Department of Microbiology, Dr.G.R. Damodaran College of Science, held on July 21, 2001.
- National seminar on Advances in biological Sciences Organised by Department of Biotechnology and Microbiology, Hindusthan College of Arts and Science, Coimbatore held on 13th August 2004.
- One-day seminar on Quality education held at Kongunadu arts and science college (Autonomous) Coimbatore-on 30.07.2005.
- Bio summit - 2005 National seminar on by Department of Biotetechnology and Microbiology Hindusthan college of Arts and Science Coimbatore, Emerging trends in biological sciences held on 18th 19th August 2005.
- State Level Seminar on Role of student community in Environmental Management seminar Organised by PG & Research Department of Zoology, Kongunadu Arts Science College in collaboration with Environmental cell Divison-WRO & green mother Trust on March 6th 2007.
- National Level seminar on issues and Challenges in Higher Education Sponsored by Bharathiar University., Organised by Kongunadu arts and science college (AUTONOMOUS) Coimbatore-7and 8th March 2007.
- UGC Sponsored National Level Seminar on Recent Advances in Animal Science RAAS 10 P.G and Research Department of Zoology ,Government Arts College (Autonomous),Coimbatore .on 24 and 25th February,2010.
- One day national level seminar on “Emerging Trends in Bioscience” organized by PG and Research Department of Zoology, Kongunadu Arts and Science College, Coimbatore, held on 8th December 2015 under UGC (CPE).
- National level seminar on “ Biodiversity a multifaceted component of Ecosystem organized by Indian Science congress Association, Coimbatore chapter and PG and Research Department of Zoology, Kongunadu Arts and Science College, Coimbatore, held on 29th December 2017 .

- National seminar on “Bioprospecting and Conservation of Bioresources” organized by Indian Science congress Association, Coimbatore chapter and PG and Research Department of Zoology, Kongunadu Arts and Science College, Coimbatore, held on 9th February 2018 .

SYMPOSIA AND CONFERENCE:

- National Symposium on Biological control of Insects in Agriculture, Forestry, Medicine and Veterinary Science Department of Zoology, held on January 21-22, 1999. Bharathiar University, Coimbatore.
- CSIR Sponsored State Level symposium on Commercial Exploitation of Economically Important Medicinal Plants , Organised by Department of Biochemistry, Kongunadu Arts and Science College (Autonomous) Coimbatore on August 24-25th ,2000.
- Symposium on Transgenesis organized by Society of Biological Chemist (India), Coimbatore branch and School of Biochemistry and Biotechnology, Avinashilingam Deemed University, Coimbatore on 12th February 2001.
- National symposium on Medicinal plant organized by Avinashilingam Deemed University, Coimbatore on November 2-3rd, 2001.
- National symposium, on Recent trends in restoration of aquatic environment & biodiversity of insects, Kongunadu arts & science college, February, 15th 16th, 2002 . Coimbatore.
- Bio revolutions '04. National symposium conducted by Department of Biotechnology, Kongunadu arts Arts & Science College, Coimbatore, Sept-13-14, 2004.
- UGC Sponsored National symposium on Rural and ethno medicinal plant Remedies-Conservation and Utilization (Ayush Remedies-2004), Organized by P.G and Research Department of Botany, Kongunadu Arts and Science College (Autonomous) Coimbatore. 23-25th September, 2004.
- UGC Sponsored National Conference on Environmental Status and Health of Workers involved in Textile Production, organized by Department of Zoology, Chikkanna Government Arts College, Tirupur 3-4th August 2009.
- 100th Indian Science Congress held at Calcutta University, Kolkata from January 3-7, 2013.

- Chitra P, Jayanthirani P, Sujatha K, Sheela Priyadhanshinee (2015). “Influence of Earthworm *Eudrilus eugeniae* physical, chemical and germination parameters of soil planted with *Polichos lab lab*- National Conference on “Vermitechnology in Human Welfare (Vermitec 2015)” held at Kongunadu college of Arts and Science, Coimbatore from 16th to 18th December, 2015.-Presented
- Chitra P, Sujatha K, Dhevagi P (2015). “The *Steinernema* sp. isolated from Western Ghats and its pathogenicity of *Spodoptera litura* Fabricius- MARINA’15, 8th National conference on Bioprospecting-Initiatives and Challenges organized by Department of Biochemistry, Dr. NGP Arts and Science College, Coimbatore, held on 28th and 29th December 2015- Presented.
- MARINA’17, 10th National conference on Bioprospecting-Indian perspectives Challenges and Opportunities organized by Department of Biotechnology, Dr. NGP Arts and Science College, Coimbatore, held on 28th December 2017.

INTERNATIONAL SYMPOSIA:

- Third International symposium of Afro-Asian society of Nematologists, organised by Sugarcane Breeding Institute (ICAR), Coimbatore during April 16-19, 1998.
- International Conference on Biotechnological Approaches in Bioresource Management, 23-25th January, 2007. Department of Biotechnology, Bharathidasan University, Tiruchirapalli-620024.Tamilnadu, India- Presented.
- International Symposium on Recent advances in Contemporary Biology, Environmental Issues and Sustainable development, Sept 29-30 th, 2007, Organised by S.K.M University, Dumka-814101, Jharkhand, India- Presented.
- International Conference on Climate change and Bioresource (ICCCB-2010).9 to 12th February, 2010. Department of Biotechnology, Bharathidasan University, Tiruchirapalli-620024.Tamilnadu, India.

Workshop Attended:

- Two- day state level workshop on “Latest Techniques in Molecular Biology and Immunology” organised by the Departments of Biochemistry and Biotechnology, Kongunadu Arts and Science College, Coimbatore- 29 on 12th 13th December 2002 in collaboration with Bangalore Genei Private Limited, Bangalore -58.
- TANSCHÉ sponsored Three - Day workshop on “Curriculum Development and Evaluation Techniques” jointly organized by the UGC-Academic Staff College, Bharathiar University, Coimbatore and Kongunadu Arts and Science College (Autonomous), Coimbatore from 22-9-2005 to 24-09-2005.
- Question Bank Workshop, organised by Department of Zoology, School of Life Sciences (Internal Quality Assurance Cell) Bharathiar University, Coimbatore from 27-28th February, 2009.
- Workshop on Role of Women in Environment Protection.Organised by Tamil Nadu State Commission for Women Chepauk,Chennai-600005, and Institute of Forest Genetics and Tree Breeding(ICFRE), Forest campus, R.S.Puram, Coimbatore, Conducted at the Institute of Forest Genetics and Tree Breeding on 24th July 2009.
- DST Sponsored workshop on Development of Science and Technology location specific Research and Demonstration projects, held at Kongunadu Arts and Science, Coimbatore on 17.03.2012.
- One day workshop on Advanced Techniques in Biotechnology organized by Biotechnology Division, School of Biological Science on 31st March 2015 .
- Science Academic Lecture workshop on “Prospects and Challenges in Animal Science” organized by Department of Zoology, NGM College, Pollachi, held during 7th and 8th September 2017.

COURSES ATTENDED:

1) Orientation Course –

- a. At Madurai Kamaraj University of Madras From (26/12/2007 to 24/01/2008)
conducted by Higher Education Department, Tamil Nadu – GOVERNMENT
ARTS COLLEGE TEACHERS PRE RECRUITMENT TRAINING
PROGRAMME

2) REFRESHER COURSE-

- 1) Attended Refresher course in Zoology from 9/11/2010 to 29/11/2010
conducted by UGC – ASC – BU Coimbatore
- 2) Attended Refresher course in Life Sciences from 5/07/2017 to 25/07/2017
conducted by UGC – HRDC – BU Coimbatore.