



**CENTRE OF ADVANCED FACULTY TRAINING  
IN  
AGRICULTURAL ENTOMOLOGY  
DEPARTMENT OF AGRICULTURAL ENTOMOLOGY  
TAMIL NADU AGRICULTURAL UNIVERSITY  
COIMBATORE**

**Introduction :**

The seeds for the Department of Agricultural Entomology were sown in the year 1906 with the initiation of research on economic aspects of Agricultural Entomology in the then Madras Presidency. In 1912 an independent fledgling of the Entomology section was started and the first Government Entomologist, Dr. T. B. Fletcher, carried forward the activities at Coimbatore. Another milestone was achieved in the year 1920 with the start of undergraduate degree programme. The graduate students were offered courses on Agricultural Entomology viz., fundamentals and economic entomology, principles of pest control and management of field and horticultural crop pests. Dr. T. V. Ramakrishna Iyer, eminent entomologist laid the foundation for graduate teaching. In the year 1959, the Department started the M.Sc. (Ag.) programme in Agricultural Entomology. To further the education endeavour, Ph.D courses are being offered since 1961. The department was headed by eminent entomologists including two Vice Chancellors of the University. The department has now specialty areas viz., Acarology, Apiculture, Biological Pest Suppression, Host Plant Resistance, Integrated Pest Management, Pesticide toxicology and residue analysis, Insect chemical ecology and Storage entomology. In addition to the above activities, Centre of Advanced Faculty Training sponsored by ICAR is in operation since 1995.

**Objective of CAFT:**

- To develop human resources through imparting scientific training in advanced field of Entomology
- To improve teaching and research of the department of providing infrastructure facilities
- To develop instruction manuals and library
- To bring out research publications from the research projects funded by CAFT.

**Faculty (as on 30. 09. 2011)**

<b>S. No.</b>	<b>Name</b>	<b>Designation</b>	<b>Area of specialization</b>
1	Dr. E. I. Jonathan	Director, CPPS	Plant Nematology
2	Dr. P. Karuppuchamy	Professor & Head Director (CAFT)	Biological Control
3	Dr. P. Sivasubramanian	Director, ABD	Host Plant Resistance
4	Dr. S. Kuttalam	Professor	Toxicology
5	Dr. N. Dhandapani	Professor	Pest Management
6	Dr. B. Rajasekaran	Professor	Pest Management
7	Dr. K. Ramaraju	Professor	Acarology
8	Dr. S. Mohan	Professor	Storage Entomology
9	Dr. R. Philip Sridhar	Professor	Climate Change & Pest Management
10	Dr. N. Natarajan	Professor	Vegetable Pest management
11	Dr. S. Suresh	Professor	Taxonomy & Rice Entomology
12	Dr. M. Ganesh Kumar	Professor	Taxonomy
13	Dr. T. Manoharan	Professor	Insect Resistance Management
14	Dr. M. Muthuraman	Professor	Apiculture
15	Dr. K. Samiayyan	Professor	Pest Management
16	Dr. S. Chandrasekaran	Professor	Toxicology
17	Dr. K. Gunasekaran	Professor	Nanotechnology
18	Dr. S. Jayakumar	Professor	Toxicology
19	Dr. C. Durairaj	Professor	Insect Chemical Ecology
20	Dr. S. Sridharan	Professor	Rice Pest Management
21	Dr. M. Kalyanasundaram	Professor	Biological Control
22	Dr. S. Raguraman	Professor	Botanical Insecticides
23	Dr. N. Ganapathy	Professor	Pulse Entomology
24	Dr. S.V. Krishnamoorthy	Professor	Toxicology
25	Dr. K.N. Ragumoothy	Professor	Integrated Pest Management
26	Dr. S. Mohan Kumar	Professor	Biotechnology & Pest Management
27	Dr. G. Umapathy	Professor	Pest Management & Apiculture
28	Dr. G. Asokan	Professor	Vegetable Entomology
29	Dr. J.S. Kennedy	Professor	Insect Pathogen
30	Dr. M. Muthusamy	Assoc. Professor	Storage Entomology
31	Dr. S. Jayarani	Assoc. Professor	Acarology & Insect Morphology

32	Dr. K.Bhuvaneswari	Assoc. Professor	Post Harvest Insect management
33	Dr. V. Balasubramanian	Assoc. Professor	Biotechnology & Pest Management
34	Dr. M. Murugan	Assoc. Professor	Biotechnology & Pest Management
35	Dr. M.R. Srinivasn	Assoc. Professor	Remote Sensing & Pest Management
36	Dr. N. Balakrishnan	Assist. Professor	Biotechnology & Pest Management
37	Dr. K. Senthil	Assist. Professor	Insecticide Formulations

### Human Resource Development:

Particulars of Short Courses / Training program for HRD conducted during XI plan period

S. No	Year	Title	Period and duration	Participants (No.)		
				Internal	External	Total
1	2007-08	Pesticide and Environment	Jan. 21 - Feb.10, 2008 (21 days)	3	13	16
2		Instrumentation in Entomological Research	Feb. 13 - March 4, 2008 ( 21 days)	4	14	18
3	2008-09	Recent Techniques in Entomological Research	Dec. 8 - 28, 2008 (21 days)	3	12	15
4		Modern Trends in Pest Management	Feb. 13 - Mar. 5 2009 (21 days)	2	12	14
5	2009-10	New Vistas in Pesticide Management	Mar. 5 - 25, 2010 (21 days)	2	8	10
6	2010-11	Biorational Insect Pest Management	Feb. 17 - Mar. 17 2011 (21 days)	2	18	20
7	2011-12	Precision Farming and Pest management	Feb. 8 - Feb. 28 2012 (21 days)	Training process started		

## **Infrastructure Development**

- Equipments like binocular stereo microscope, insect rearing cages for biocontrol laboratory and image acquisition system to display the specimen and to take photographs were purchased for both undergraduate and postgraduate students' study purpose.
- Automatic plain paper copier, thermal binding machine, comb binding machine and computers were purchased and utilized for preparation of reports related to teaching and research both by faculty members and students.
- Computers were purchased and those purchased in earlier years under CAS were upgraded with the latest configuration to serve the present day software systems.

## **Renovation of Lecture Room/Laboratories**

- An exclusive Students' Computer Room was allocated with two computers with internet facility. The students/staff use this facility for the following purposes:
  - Communication and correspondence on academic activities
  - Preparation of seminar and term papers mainly with PowerPoint presentations using LCD.
  - Statistical analyses of research data.
- Most of the class oriented lectures of CAS Training are being delivered through LCD projector. All the post graduate students present their Credit Seminars and Term Papers using the LCD facilities.
- Lecture hall is fully furnished with complete set of Public Address System, colour TV and VCD/DVD player to supplement and improving the quality of the teaching and training.
- Laboratories were equipped with complete scratch proof writing board, programme marker boards, exhibition / display boards and high definition projection screens for effective teaching and training.
- Insect Show Case for the display of pests of various crops, video cassettes, CD-ROMs, DVDs on Crop pests, plastic trays and boxes for display of

specimen, and wax plates for dissecting insects, were purchased /prepared and utilized for conduct of theory and practical classes both under- and Post-graduate students.

**Library upgraded:**

**List of Books purchased during 2007-2008**

<b>S. No</b>	<b>Name of the Book</b>	<b>Authors</b>	<b>Year of Publication</b>	<b>Publisher</b>
1.	Agricultural Acarology	B.S. Chhillar Rachna Gulati, Praduman Bhatnagar	2007	Daya Publishing House , New Delhi.
2.	Pesticides Residues in Food Commodities	A.Gupta	2006	Agrobios (India), New Delhi
3.	Nanotechnology Applications in Agriculture	C. R Chinnamuthu B. Chandrasekaran C. Ramasamy	2007	TNAU, Coimbatore
4.	Entomology	G.S. Gillott	2005	Springer, USA
5.	Principles of Pesticide Chemistry	S. K. Handa	1999	Agrobios (India) New Delhi
6.	Entomology Principles and Practices	D.H. Robinson	2006	Agrobios (India) New Delhi

**List of Books purchased during 2008-2009**

<b>S.No</b>	<b>Name of the Book</b>	<b>Authors</b>	<b>Year of Publication</b>	<b>Publisher</b>
1.	Fumigation for insect Control	K. R Nair	2007	Gene -Tech Books, New Delhi
2.	Fundamentals of Economic Entomology	H.M. Lefroy	2008	Asiatic publishing House, New Delhi

3.	Pest Management in store Grains	P. Narayanasamy, S. Mohan J. S. Awaknayar	2009	Satish Serial publishing House
4.	Pollen-Insect intractions	A.J. Solomon Raja	2008	Today and Tomorrow's Printer and Publishers New Delhi
5.	Insect Fact and Folklore	L. W. Clausen	1985	International Books & Periodicals Supply Service
6.	Occupational Hazards of pesticide exposure sampling monitoring measuring	J. Ecobichon	1999	Taylor & Francis, UK
7.	Insect Transformation	H. Carpenter	1985	International Books & Periodicals Supply Service
8.	The Insect Life: A guide to the collecting , Monitoring and Studying Them	W. P. Flint	2006	Asiatic Publishing House New Delhi
9.	Pests of forest importance and their management	B.K. Tyagi Vijayaveer, Shri Prakash	2008	Scientific Publishers (India)
10.	Medical Entomology A Hand book of Medical important Insects and other Arthropods	B. K. Tyagi	2003	Scientific Publishers
11.	Encyclopedia of Entomology Volume - 3	L. Capinera	2004	Kluwer Academic Publishers Amsterdam
12.	Ants, Bees, and Wasps	Lord Avebury	2003	Vinod Publ. & Distributors

				New Delhi
13.	Entomology Novel Approaches	P. C. Jain M.C Bhargava	2007	New India Publishing Agency, New Delhi
14.	Alternatives to Chemical pesticides in pest Management	H.C.L Gupta , Ashok Kumar O. P. Ameta Sudhir Jain	2008	ATPA, New Delhi

### List of Books purchased during 2009-2010

S. No	Name of the Book	Authors	Year of Publication	Publisher
1.	Botanical Pesticides for Pest management	D. A. Dodia I. S. Patel, G.M Patel	2008	Scientific Publishers(India)
2.	Butterflies of the Indian Region	M.A. Wenter Blyth.	2009	Today and Tomorrow's Printer and Publishers
3.	Ecological Engineering for Pest Management	Geaff M.Gurr Steve D. Wratten Maguel A. Altieri	2009	SBS Publishers and Distributors Pvt.Ltd
4.	Evaluation of Insecticide resistance Management Programme	Rajinder Peshin	2009	Daya Publishing House
5.	Organic Farming: Biocontrol and Biopesticide Technology	P. Bhattacharyya S. S. Purohit	2008	Agrobios (India)
6..	Biochemical sites of Insecticide Action and Resistance	Isaac Ishaaya	2001	Springer
7.	Agricultural Insect Pest and their Control	A.B. Awasthi	2007	Scientific Publishers(India)

8.	A Manual of Practical Entomology	M.M Trigunayat	2002	Scientific Publishers (India)
9.	Biological and Biotechnological Control of Insect Pests	Jackle E. Rechigl Nancy A. Rechcigl	1998	Lewis Publishers
10.	Beekeeping Industry in Rural Industrialization	M. Soundrapandi an	2009	Dominant Publishers and Distributors
11.	Beekeeping a Guide to the Better understanding of Bees: Their Diseases and the Chemistry of Beekeeping	A. Carter	2004	Biotech Books
12.	Fundamentals of Beekeeping	T.V. Sathe	2006	Daya Publishing House, New Delhi
13.	Insect Biodiversity	T.N. AnanthaKrish nan	2010	Scientific Publishers(India) New Delhi

### List of books purchased during 2010-11

S. No.	Name of the Book	Authors	Year of Publication	Publisher
1	Pests of Stored Grains and Management	Bhargava	2009	New Age Publisher, New Delhi
2	Application of Uncertainty Analysis to Ecological Risks of Pesticides	Warren-Hicks William	2010	CRC Press
3	Insect Pharmacology: Channels, Receptors, Toxins, and Enzymes	Gilbert Lawrence	2010	Academic Press
4	Insect Physiology and Biochemistry 2 <sup>nd</sup> Edition	James Nation	2008	CRC Press



5	Natural Products in Pest Management	Dubey NK	2010	CABI
6	Insect: An Outline of Entomology 4 <sup>th</sup> Edition	Gullan <i>J et al</i>	2010	Wiley-Blackwell
7	Aphids of Crop Pests	Emden Van	2007	CABI

### **Awards / Recognitions:**

#### **Patents**

#### **Dr. S.Mohan, Professor of Agri.Entomology**

- A device to remove insect eggs from stored pulse seeds (Indian patent no: 198434). The patent has been recently commercialized.

#### **Awards / Recognitions**

#### **Dr. P. Sivasubramanian, Director (Agri-Business Development)**

- The TNAU Best Teacher Award during 2007

#### **Dr. P. Karuppuchamy, Professor and Head (Entomology) & Director CAFT**

- Dr. G. Rangaswamy award for the outstanding research article in Madras Agricultural Journal.
- Platinum Jubilee Award for contributions to Rice Entomology, TRRI, Aduthurai

#### **Dr. S. Mohan, Professor (Entomology)**

- Honoured with a cash award of Rs. 5000/- by TNAU for obtaining an Indian Patent for a device to remove insect eggs from stored pulse seeds - 2006.
- Swamy Sahajanan Saraswati Extension Scientist/Workers ICAR Award for 2010

#### **Dr. S. Chandrasekaran, Professor (Entomology)**

- The TNAU Best Researcher Award during 2007

#### **Dr. M.Muthuran, Professor (Entomology)**

- QRT member, Apiculture

#### **Dr. K. Ramaraju, Professor (Entomology)**

- Best Researcher Award in Entomology for the year 2006 by TNAU.
- Vice President in Acarological Society of India
- Review Member in the Journal of Acarology and Systematic & Applied Acarology

#### **Dr. M. Kalyanasundaram, Professor (Entomology)**

- Best teacher Award of TNAU during 2006
- Best Book Award (in Tamil) by Govt. of Tamil Nadu during 2010-11.

#### **Dr. C. Durairaj, Professor (Entomology)**

- Recognition Award by Indian Society of Pulses Research and Development for the year 2007.
- Fulbright Senior Research Fellowship award (2008-09) by for the United States and India Education Foundation, New Delhi

**Dr. S. Raguraman, Professor (Entomology)**

- Shiksha Rattan Purashkar Award, 2008 for the Best Contributions in Agriculture.
- Chief Editor, Madras Agricultural Journal, Madras Agricultural Student Union, TNAU, Coimbatore (2009 – till date)
- Elected Fellow of Hind Agri -Horti Society, Mussafarnagar, Mathya Pradesh (2008).
- UNIDO travel fellowship for attending International Neem conference in China (2008) as Invited Speaker.
- Visiting Scientist at Washington State University (January to February 2009).
- Travel Fellowship by CICS, Chennai for attending

**Dr. K. Samiayyan, Professor (Entomology)**

- Best Teacher Award (2010) by TNAU, Coimbatore.

**Dr. S. Suresh, Professor (Entomology)**

- Best Teacher Award by TNAU, Coimbatore

**Dr. N. Ganapathy, Professor (Entomology)**

- Fellow of Indian Society of Pulses Research and Development, IIPR, Kanpur (2008)

**Dr. S. Jeyarani, Associate professor (Entomology)**

- Environmentalist of the Year-2006 by National Environmental Science Academy, New Delhi
- Dr. (Mrs.). Jagadiswari Rao Women Scientist Award-2007 by Applied Zoological Research Association, Calcutta.
- Best Teacher Award 2009, TNAU, Coimbatore

**Dr. M. Suganthy, Assistant Professor (Entomology)**

- Best paper presentation award in the National Seminar on “Current Scenario in Production, Processing and Export of Spices” at Horticultural Research Station, Tamil Nadu Agricultural University, Yercaud during 2008.
- Visiting Scientist in Florida University (2011) by ICARs-50 Crore project.

## Publications

### International

- Alagar, M. S.Suresh, R.Samiyappan and D.Saravanakumar, 2007 Reaction of resistant and susceptible rice genotypes against brown plant hopper (*Nilaparvata lugens*). **Phytoparasitica**. **35**(4): 346 -356.
- Anand, T., A. Chandrasekaran, S. Kuttalam, T. Raguchander, V. Prakasam and R. Samiyappan. 2007. Association of some plant defense enzyme activities with systemic resistance to early leaf blight and leaf spot induced in tomato plants by azoxystrobin and *Pseudomonas fluorescens*. **Journal of Plant Interactions**. **2**(4) : 233-244.
- Geethanjali, S., P. Kadirvel, K. Gunathilagaraj and M. Maheswaran. 2009. Detection of quantitative trait loci (QTL) associated with resistance to white backed planthopper (*Sogatella furcifera*) in rice (*Oryza sativa*). **Plant breeding** (published online on 10 February 2009).
- Husband, R. W. and K. Ramaraju. 2006. A New species of *Regenpolipus* (Acari: Podapolipidae) from *Anthia sexguttata* (Coleoptera: Carabidae) from southern India and A pictorial key to genera of world podapolipidae from carabidae. **Internat. J. Acarol.** **32**(2): 153-161.
- Husband, R.W. and K. Ramaraju, 2006. A new species of *Regenpolipus* (Acari: Podapolipidae) from *Anthia sexguttata* (Coleoptera: Carabidae) from Southern India and a pictorial key to genera of world Podapolipidae from Carabidae. **Internat. J. Acarol.**, **32** (2): 153 - 161.
- Indira Gandhi, P., K.Gunasekaran and Sa.Tongmin 2006. Neem oil as a potential seed dresser for managing homopterous sucking pests of Okra, *Abelmoschus esculentus*. **Journal of Pest Science**, **79**(2): 103-111.
- Jeyarani, S., N. Sathiah, and P. Karuppuchamy. 2005. Influence of *Pseudomonas fluorescens* and Nucleopolyhedrovirus in cotton bollworm *Helicoverpa armigera*. (Hubner). **Tropical Agricultural Research** **17**: 221 – 230.
- Jeyarani, S., Rabindra R. J., Sathiah, N., Karuppuchamy, P and Subramanian, S. 2007. Efficacy of spiracular infection of *Helicoverpa armigera* with its nucleopolyhedrovirus and its role in virus production. **J. Virol. Methods**, **142**: 213–217.
- Jeyarani,S., P. Karuppuchamy and N.Sathiah. 2011. Influence of *Pseudomonas fluorescens* induced plant defenses on the efficacy of nucleopolyhedrovirus of *Helicoverpa agrmigera* (Hubner) Investigations on the enhancing efficacy

- of granulovirus on nucleopolyhedrovirus of *Helicoverpa armigera* in Okra and Tomato. **International Journal of Vegetable Science** 17(3) 283 – 295.
- Jeyarani,S.,J.Gulsar Banu and K.Ramaraju.2011. First Record of Natural Occurrence of *Cladosporium cladosporioides* (Fresenius) de Vries and *Beauveria bassiana* (Bals.-Criv.) Vuill on Two Spotted Spider Mite,*Tetranychus urticae* Koch from India. **J. Entomol.**,2011.ISSN 1812-5670/DOI:10.3923/je.2011.
- Karthik,P., S. Douressamy, K.Ramaraju, K.Devarajan and C. Sivakumar. 2009. Investigation and monitoring of acaricide resistance to two spotted spider mite *Tetranychus urticae* Koch in bhendi. **Resistant pest management Newsletter**, 19 (1): 4-8.
- Kavitha, J., K. Ramaraju, V. Baskaran and P.Pretheep Kumar.2007. Bioecology and management of spider mites and broad mites occurring on *Jatropha curcas* L. in Tamil Nadu, India. **Systematic & Applied Acarology**.12:109-115.
- Mohan, S. Sivakumar, S.S, Venkatesh, S.R and G.S.V. Ragavan 2007. Penetration of Polyethylene sheets coated with protein – enriched Pea flour solution by two stored product insect. **Journal of Stored Product Research**. 43: 202-204.
- Mohan, S., S.S. Sivakumar, S.R. Venkatesh and G.S.V. Ragavan. 2006. Simple technique to increase the sensitivity of probe traps in detecting *Cryptolestes ferrugineus* in stored wheat. **Candian Entomologist**, 138 (5): 733-735.
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- Natarajan, N., A.Cork, N.Boomathi, R.Pandi, S.Velavan, G.Dhakshinamoorthy. 2006. Cold aqueous extracts of African Marigold, *Tagetes erecta* for control of tomato Meloidogyne incognita, **Crop Protection**, 25: 1210-1213.
- Pretheep Kumar, P. and S. Mohan. 2004. Reduced consumption of pea protein treated flour disks by stored product insects. **Phytoparasitica**, 32(3): 313-316.
- Pretheep Kumar, P., S. Mohan and K. Ramaraju. 2006. Long-term efficacy of Protein - enriched pea flour against *Tribolium castaneum* (Coleoptera:Tenebrionidae) in wheat flour. **Journal of Central European Agriculture**, 7(4): 779-784
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- Radhakrishanan,V. and K. Ramaraju. 2009. Development durations,colonization and insecticide efficacy of leaf mite, *Oligonychus oryzae* Hirst on rice. **Tropical Agricultural Research**, 21(1):30-38.

- Radhakrishnan, V., A. Zawal and K. Ramaraju. 2010. First record of parasitized *Trithemis pallidinervis* (KIRBY) from Tamil Nadu, India by Arrenurus larvae, with a description of larval morphology (Anisoptera: Libellulidae; Acari: Hydrachnida). **Odanatologia**, **39**(3): 243-252.
- Ramaraju, K., E.V. Bhaskaran, J. Kavitha, P. Predeep Kumar. 2007. Integrated management of coconut eriophyid mite (*Aceria guerreronis* Keifer) (Acari: Eriophyidae) **Cord** **23** (2), 58-66.
- Ramasubramanian, T. and A. Regupathy. 2004. Pattern of cross resistance in pyrethroid – selected populations of *Helicoverpa armigera* from India. **Journal of Applied Entomology**, **128**(9-10): 583-587.
- Ramasubramanian, T., S. Kuttalam, S. Chandrasekaran and K. Ramaraju. 2004. Occupational exposure to carbosulfan applied for the management of *Aceria guerreronis* Keifer in coconut ecosystem. **Food, Agriculture & Environment**, **2** (2): 285-287.
- Ranga Rao, G.V., V. Visalakshmi, M. Suganthi, P. Vasudeva Reddy, Y.V.R. Reddy and V. Rameshwar Rao. (2007). Relative toxicity of neem on natural enemies associated with chickpea ecosystem. **International Journal of Tropical Insect Science**. **27** (3-4): 229-235.
- Sathiyaprakash, J, K. Ramaraju, P. Meenakshisundaram and M. Maheswaran. 2007. Genetic diversity analysis of coconut eriophyid mite (*Aceria guerreronis* Keifer) (Acari: Eriophyidae) population based on inter simple sequence repeat (ISSR) markers. **Cord** **23** (1), 17 – 25.
- Senthil Kumar, C.M. and A. Regupathy, 2009. Gut content analysis of spiders in coffee ecosystem. **Current Science**, **96**(7): 892-873
- Senthil Kumar, C.M. R.J. Rabindra and N. Sathiah. 2006. Biological activity and characterization of nucleopolyhedrovirus isolates of *Spodoptera litura*. **Phytoparasitica** **34**(1): 92-101.
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- Srinivasan, R., S.Uthamasamy and N.S.Talekar. 2006. Characterization of oviposition attractants of *Helicoverpa armigera* in two solanaceous plants, *Solanum viarum* and *Lycopersicon esculentum*. **Current Science**, **90**(6) : 846-850.
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- Suganthi, A., K.Ramaraju, S. Kuttalam and S.Chandrasekaran. 2006. Bioefficacy of Spiromesifen (Oberon®) 240 SC against Coconut Eriophyid Mite *Aceria guerreronis* Keifer and determination of residues. **J. Entomol.**, **3** (4):325 – 330.
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- Vanitha. K., P. Karuppuchamy and P. Sivasubramanian. 2011. Pests of Vanilla (*Vanilla planifolia* Andrews) and their natural enemies in Tamil Nadu, India. **International Journal of Biodiversity and Conservation** **3**(4), pp. 116–120.

## National

- Amsalu Debebe, S. Mohan, S. Kuttalam and Raja Nagappan. 2008. Cross border technology transfer a case study with TNAU trapping technologies in Gondar, Ethiopia, Africa for the management of stored product insects. **Research and Reviews in Biosciences** 2(1): 48-50.
- Anand, T., A. Chandrasekaran, S. Kuttalam, G. Senthilraja, T. Raguchander, R. Samiyappan. 2008. Effectiveness of azoxystrobin in the control of *Erysiphe cichoracearum* and *Pseudoperonospora cubensis* on Cucumber. **Journal of Plant Protection Research**, 48(2): 147-159.
- Anand, T., A. Chandrasekaran, S. Kuttalam, T. Raguchander, V. Prakasam and R. Samiyappan. 2007. Association of some plant defense enzyme activities with systemic resistance to early leaf blight and leaf spot induced in tomato plants by azoxystrobin and *Pseudomonas fluorescens*. **Journal of Plant Interactions**, 2(4): 233-244.
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### Books, Manuals or other resource materials prepared/ published

S.No	Name of the Author(s)	Title	Year	Publisher/ Type
1.	Ragumoorthi, K. N., K. Samiayyan, M. Suganthi and P. Karuppuchamy	TAU 203. Pest and Disease Management in Bioproduction Systems (2+1) - (Practical Manual cum Record)	2009	Published from local printers inside TNAU.
2.	Samiayyan, K., S. Sridharan, K. Bhuvaneshwari, T. Elaiyabharathi and P. Karuppuchamy	AEN 301. Crop and Stored Pests Management	2009	Published from local printers inside TNAU
3	Ganesh Kumar, M., K. N. Ragumoorthi, K. Samiayyan, S. Subramanian, and P. Karuppuchamy	AEN 201. Fundamentals and Economic Entomology Practical Manual	2009	Published from local printers inside TNAU.
4	Ragumoorthi, K. N., K. Samiayyan, M. Suganthi and P. Karuppuchamy	TAU 203. Pest and Disease Management in Bioproduction Systems (2+1)	2009	Published from local printers inside TNAU.
5	Ragumoorthi, K. N., K. Samiayyan and P. Sivasubramanian	RAWE-2009. Functioning of ADA/ADH Offices- Practical Orientation to Students-Record cum Manual	2009	Published from local printers inside TNAU.
6	Samiayyan, K., N. Ganapthy, K. Bhuvaneshwari, S. Jaya Prabhavathi and P. Sivasubramanian	Modern Trends in Pest Management	2009	M/S Sowmiya Communications, 30, Gokulam Colony Main Rd, P. N. Pudur, Coimbatore- 41



7	Samiayyan, K. and P. Karuppuchamy	Bachelor of Farm Technology - Agril. Entomology Technologies - ODL Mode	2010	Published from local printers inside TNAU.
8	Samiayyan, K., M. Ganesh Kumar, S. Sridharan, M. Muthuswami and P. Karuppuchamy	AEN 301. Crop and Stored Pests Management (2+1) - Practical Manual cum Record	2010	Published from local printers inside TNAU.
9	Raguraman, S., K. Samiayyan and P. Karuppuchamy	TAU 203. Pest and Disease Management in Bioproduction Systems (2+1) - (Practical Manual cum Record	2010	Published from local printers inside TNAU.
10	Raguraman, S, K. Samiayyan and P. Karuppuchamy	RAWE-2010. Functioning of Agricultural Extension Centres-Practical Orientation to Students-Record cum Manual	2010	Published from local printers inside TNAU
11	Samiayyan, et al.	Study Tour Reports submitted to Dean (Agri) - 3 nos.	2010	Published from local printers inside TNAU
12	Samiayyan, K	Certain pesticides against DBM on cabbage	2010	Published from local printers inside TNAU
13.	K. Samiayyan P. Karuppuchamy	Bachelor of Farm Technology Agric. Entomology Technologies - Open & Distance Learning Mode	2010	Published by TNAU Campus Printers.
14.	M. Ganesh Kumar K. N. Ragumoorthi K. Samiayyan, S. Subramanian	AEN 201 Fundamentals and Economic Entomology Practical Manual	2010	Published by TNAU Campus Printers.

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15.	K. Samiayyan M. Ganesh Kumar S. Sridharan M. Muthuswami P. Karuppuchamy	AEN 301. Crop and Stored Pests Management (2+1) - Practical Manual cum Record	2010	Published by TNAU Campus Printers.
4.	S. Raguraman K. Samiayyan P. Karuppuchamy	TAU 203. Pest and Disease Management in Bioproduction Systems (2+1) - (Practical Manual cum Record)	2010	Published by TNAU Campus Printers.
5.	S. Raguraman K. Samiayyan P. Karuppuchamy	RAWE-2010 Functioning of Agricultural Extension Centres-Practical Orientation to Students - Record cum Manual	2010	Published by TNAU Campus Printers.
6.	P. Karuppuchamy S. Raguraman N. Ganapathy B. Rajasekaran C. Durairaj	Biorational Insect Pest Management	2011	In Press
7.	K. Samiayyan N. Ganapathy K. Bhuvaneshwari S. Jaya Prabhavathi P. Sivasubramanian	Modern Trends in Pest Management	2010	M/S Sowmiya Communications, 30, Gokulam Colony Main Rd, P. N. Pudur, Coimbatore-41
8.	P. Karuppuchamy S. Chandrasekaran R. Jayakumar S.V. Krishnamoorthy K. Bhuvaneshvari	New Vistas in Pesticide Management	2009	Published by TNAU Campus Printers.
9	P. Sivasubramanian G. Asokan S. Jeyarani M. Suganthi S. Suresh	Recent Techniques in Entomological Research	2009	Published by TNAU Campus Printers.

10.	S. Kuttalam M. Ganesh Kumar K. Ramaraju M. Kalyasundaram K. N. Ragumoorthy	Instrumentation in Entomological Research	2008	Published by TNAU Campus Printers.
11.		Pesticide and Environment	2008	Published by TNAU Campus Printers.
12.		Recent advances in IPM	2007	Published by TNAU Campus Printers.
13.		Recent advances in Host plant resistance to Insect of mites	2007	Published by TNAU Campus Printers.

**Financial statement:**

**Expenditure under CAFT during XI plan**

<b>Head</b>	<b>2007-08</b>	<b>2008-09</b>	<b>2009-10</b>	<b>2010-11</b>	<b>2011-12 (As on 30.9.2011)</b>
Cost of personnel	116404	159370	173880	214121	140837
Operating cost of Training	285606	353763	129577	364174	0
Recurring Contingency	199983	199926	142843	182625	32763
Non-Recurring contingency	0	0	0	0	0
T.A.	17071	35257	31924	12338	1703
Library	49432	50000	30000	29895	0
<b>TOTAL</b>	<b>668496</b>	<b>798316</b>	<b>508224</b>	<b>803153</b>	<b>175303</b>