EVALUATIVE REPORT OF THE DEPARTMENT

- Name of the Department & Zoology (PG and Research) –
 its year of establishment 1961-1962
- 2. Names of Programmes/Courses offered (UG, PG, M.Phil., Ph.D., Integrated

Masters; Integrated Ph.D., etc.)

Sl. No.	Name of Programme	Subject	Year of affiliation	No. of sections	Sanctioned strength	Total Students strength (2011- 2012)	Remarks
1.	B.Sc.	Zoology	1961				
2.	B.Sc.	Zoology with Biotechnology	2002	1	50	161	I, II & III Year
3.	M.Sc.	Zoology	1979	2	44	102	I & II year
4.	M.Sc.	Biotechnology	2005	2	50	55	I & II year
5.	M.Phil.	Zoology	1983	-	46	17	One Year
6.	Ph.D.	Zoology	1983	-	40	23	-
7.	P.G. Diploma	Aquaculture	1992	-	12	12	One Year
8.	Certificate Course	Aquaculture (Ornamental fish Culture)	2005	-	30	16	One Year

- 3. Interdisciplinary courses and departments involved
 - In UG level, in **Part IV** interdisciplinary Courses like **Skill Based Elective** are offered in all the six semesters and **Non-Major Elective** in the final year as mandatory to all the students.
 - In PG level, in the final year **Extra Disciplinary Courses** are offered mandatory to all the students.

Interd	lisciplinary courses	Departments involved	
		History, Tamil, English, Physics,	
	Skill Based Elective	Chemistry, Botany, Computer	
UG Level		Science, Business Administration.	
UG Level		History, Tamil, English, Physics,	
	Non – Major Elective	Chemistry, Botany, Computer	
		Science, Business Administration	
PG Level Extra Disciplinary		Tamil, Physics, Chemistry, Botany,	
rg Level	Extra Disciplinary	Microbiology, Computer Science	

4. Annual/ Semester/Choice Based Credit System:

Semester with choice based credit system

- 5. Participation of the department in the courses offered by other departments
 - We offer Allied **Zoology for UG Chemistry & Botany.**
 - Our department participates in the courses offered by other departments by extending Skill Based Elective and Non-Major Elective at UG level and Extra Disciplinary Courses at PG level to all the students.



Skill Based Courses – UG Level

- **&** Basics of Clinical Lab Technology
- Haematology
- Clinical Microbiology
- Clinical analysis of Biological samples
- Diagnostic Equipments in Clinical Labs
- Techniques in Clinical Lab (Practical)

Non Major Elective courses - UG Level

- Aquaculture
- Vermiculture Technology

Extra disciplinary courses – PG Level

- Clinical Lab Technology
- Principles of Biotechnology

6. Number of teaching posts sanctioned and filled (Professors/Associate Professors/Asst. Professors)

AIDED SECTION

Post	Sanctioned	Filled	Vacant
Associate Professors	-	5 (promoted)	-
Asst. Professors	15	5	5

SELF-FINANCE SECTION

Post	Sanctioned	Filled	Vacant
Asst. Professors	12	17*	-

^{*} including 5 teachers appointed temporarily against permanent vacancies

7. Faculty profile with name, qualification, designation, specialisation (D.Sc./D.Litt./ Ph.D./M.Phil., etc.)

Sl. No.	Name	Qualifi cation	Designation	Specialization	No. of Years of Experience	No. of Ph.D. students guided in the last 4 years	Re marks
	Aided Section:						
1.	Dr.G.Ravikumar	Ph.D.	Associate Professor	Sericulture & Toxicology	32	1 +5	
2.	Dr.U.Bala subramanian	Ph.D.	Associate Professor	Sericulture & Toxicology	30	07	
3.	Dr.K.Rajendran	Ph.D.	Associate Professor	Aquaculture Biotechnology	29	09	
4.	Prof.A.Karthikeyan	M.Phil.	Associate Professor	Ornamental Fish culture	25		
5.	Prof.P.Natarajan	M.Phil.	Associate Professor	Fishery Biology	20		Doing Ph.D.
6.	Dr.R.Damodaran	Ph.D.	Associate Professor	Entomology	22	02	
7.	Dr.R.Rajakumar	Ph.D.	Assistant Professor	Fishery Biology & Aquatic Biotechnology	14	01	

Sl. No.	Name	Qualifi cation	Designation	Specialization	No. of Years of Experience	No. of Ph.D. students guided in the last 4 years	Re marks
8.	Prof.K.Asokan	M.Phil.	Assistant Professor	Molecular Phylogeny	13		Doing Ph.D.
9.	Prof.C.Murthy	M.Phil.	Assistant Professor	Marine Cyanobacteria	11		Doing Ph.D
10.	Dr.R.Pragashraj	Ph.D.	Assistant Professor	Aquaculture & Aquatic Microbiology	14		
	Self – Finance Section:						
1.	Dr.S.Vijayakumar	Ph.D.	Assistant Professor	Entomology	09	-	
2.	Prof.P.Nambirajan	M.Phil.	Assistant Professor	Aquaculture	09	-	Doing Ph.D.
3.	Dr.K.Jayaseelan	Ph.D.	Assistant Professor	Toxicology	5	-	
4.	Prof.P.Prabhu	M.Phil.	Assistant Professor	Microbiology	3	-	Doing Ph.D.
5.	Prof.G.Devendran	M.Phil.	Assistant Professor	Toxicology	3	-	Doing Ph.D.
6.	Prof.N.Markas	M.Phil.	Assistant Professor	Aquaculture	3	-	
7.	Dr.P.Kavitha	Ph.D.	Assistant Professor	Vermi technology	9	-	
8.	Dr.R.Jenni	Ph.D.	Assistant Professor	Toxicology	8	-	
9.	Prof.R.Priya dharsini	M.Phil.	Assistant Professor	Breeding biology of fishes	3	-	Doing Ph.D.
10.	Prof.S.Sangeetha	M.Phil.	Assistant Professor	Aquatic Biology	5	-	Doing Ph.D.
11.	Prof.K.Malathi	M.Phil.	Assistant Professor	Fishery Biology	4	-	Doing Ph.D.
12.	Prof R.Sripriya	M.Phil.	Assistant Professor	Aquaculture Toxicology	5	-	Doing Ph.D.
13.	Prof.B.Gohila	M.Phil.	Assistant Professor	Aquaculture	9	-	Doing Ph.D.
14.	Prof.M.Ramasamy	M.Phil.	Assistant Professor	Marine Aquaculture	6	-	Doing Ph.D.
15.	Prof.K.Arun	M.Phil.	Assistant Professor	Animal Science	5	-	Doing Ph.D.
16.	Prof.S.Suguna	M.Phil.	Assistant Professor	Microbiology	5	-	Doing Ph.D.
17.	Prof.K.Kumar	M.Phil.	Assistant Professor	Sericulture	2	-	Doing Ph.D.

8. Percentage of classes taken by temporary faculty – programme-wise information

Sl. No.	Programmes	Morning session	Evening session
1.	UG	62	100
2.	PG	28	84
3.	M.Phil.	12	

9. Programme-wise Student Teacher Ratio

Sl. No.	Name of the programme	Student teacher ratio
1	UG	14:1
2	PG	12:1
3	M.Phil.	10:1

10. Number of academic support staff (technical) and administrative staff: sanctioned and filled:

Sl. No.	Staff	Sanctioned	Filled
1.	Lab. Assistant	04	04
2.	Administrative	02	02

- 11. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Mention names of funding agencies and grants received project-wise. : Nil
- 12. Departmental projects funded by DST-FIST; DBT, ICSSR, etc.; total grants received: AppliedProposal sent to DBT Star College Sept. 2012

Dr.G.Swamidoss Daniel

 Fresh water Aquaculture with related discipline for viable farming system – UGC

Dr.M.Ayyavoo

• Characterization and Bio-mass production of marine microalgae as an alter native sources of

Aquafeed evolving low cost technology – UGC

13. Research facility / centre with

- State recognition
 - * Our department is the **Recognized Research Centre** affiliated to Bharathidasan University, Trichirappalli
 - * The Research Advisors are members of **Doctoral Committees** of other colleges and in the affiliated University.
 - * Guiding recognition is obtained from Annamalai University, Chidambaram, Periyar University, Salem & Alagappa University, Karaikudi.
- National and International recognition
 - * The staff members have presented Research **Papers** in National and International Scientific Forums and published **Research Articles** in National and International journals.



14. Publications:

* number of papers published in peer reviewed journals (national/international)

Sl. No.	Year of Publication	No. of papers Published		
SI. NO.	rear of Publication	National	International	
1.	2007 - 2008	03		
2.	2008 - 2009	08	02	
3.	2009 - 2010	04	11	
4.	2010 - 2011	18	15	
5.	2011 – 2012	20	09	

* Monographs : Nil * Chapter(s) in Books : 01

Sl. No.	Name of the faculty	Title	Publisher	Date
1.	Dr. K.Rajendran	Marketing Channels of shrimp and prawn sector in India	SELP Publication, Trichirappalli	2011

- * Editing Books
- * Books with ISBN numbers with details of publishers : ---
- * number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database International Social Sciences Directory, EBSCO host, etc.)
 - * Citation Index range / average : --
 * SNIP : --
 * SJR : ---
 - * Impact factor range : 0.258-10.959
 - * Impact factor average 2.00 * h-index : ---

15. Details of patents and income generated: ----

16. Areas of consultancy and income generated

Service oriented Consultancy for **Fresh water fish culture** is given in the College Campus Shrimp **Farm** given at our off-campus site at Eripurakkarai, Adirampattinam

17. Faculty recharging strategies:

Staff members have undergone **Orientation**, **Refresher Courses**, attended workshops, seminars and presented papers.

Orientation / Refresher Courses/workshops/Training Programmes

Sl.	Veen	Number of	staff attended	Workshops/Training
No.	Year	Orientation	Refresher	Programmes
1.	2008 - 2009	03	-	02
2.	2010 - 2011	-	04	
3.	2011 - 2012	02	1	02



Seminars attended and Papers presented

SI.	Voor	National		International	
No.	Year	Attended	Presented	Attended	Presented
1.	2007 - 2008	03	02	-	-
2.	2008 - 2009	04	06	-	-
3.	2009 – 2010	01	18	-	-
4.	2010 – 2011	01	23	-	04
5.	2011 - 2012	12	29	01	01

18. Student projects

- percentage of students who have done in-house projects including interdepartmental
- percentage of students doing projects in collaboration with industries / institutes
- In M. Sc. Bio Technology and M. Phil. Project Work is mandatory in the curriculum

Year	M.Sc. Bio	technology	M.Phil.		
	Campus	Industry	Campus	Industry	
2007 - 08	16%	84%	70%	30%	
2008 – 09	20%	80%	76%	24%	
2009 – 10	15%	85%	81%	19%	
2010 – 11	22%	78%	78%	22%	
2011 – 12	26%	74%	82%	18%	

- The following is the list of industries/institutes where Research Projects are undertaken:
- Cauvery distillaries Trichy.
- Tanneries Trichy
- Central Leather Research Institute(CLRI)- Chennai.
- State TB training and demonstration centre Pondicherry
- Indian Institute of crop processing Technology(IICPT)
- Vetrinary University Echankottai- Thanjavur.

19. Awards / recognitions received at the national and international level by

- Faculty:
 - Dr. M. Ayyavoo, who served as Co ordinator in our Department is now serves as Registrar of Periyar Maniyammai University, Thanjavur.
 - Dr.U.Balasubramanian, elevated as Dean of Sciences, A.V.V.M. Sri Pushpam College, Poondi.
 - Prof.P.Natarajan, District Organizer of Youth Red Cross is the recipient of the Best District Organizer Award.
- Doctoral / post doctoral fellows Nil



• Students:

Name of the student	Award	Date	Place
Mr.A.Kannathasan Best Presentation Award	Sept. 30, 2010	Pondicherry University	
	ŀ	Feb. 12, 2012	Bharathiyar University

20. Seminars/Conferences/Workshops organized and the source of funding (national/ international) with details of outstanding participants, if any:

CONFERENCE

• Aquaculture Biotechnology – UGC

21. Student profile course-wise:

UG Programmes

Year of	Applications	Sele	ected	Pass pe	rcentage
study	received	Male	Female	Male	Female
2007-08	89	36	27	60	100
2008-09	40	19	13	71	100
2009-10	60	32	23	71	95
2010-11	58	29	23	64	100
2011-12	80	29	25	68	95

PG Programmes (Zoology)

Year of	Applications	Sele	ected	Pass pe	rcentage
study	received	Male	Female	Male	Female
2007-08	49	19	22	85	100
2008-09	35	21	06	82	100
2009-10	44	19	21	95	100
2010-11	58	31	21	100	100
2011-12	77	25	25	89	94

PG Programmes (Bio–Technology)

Year of	Applications	Selected		Dogg waysantags
study	received	Male	Female	Pass percentage
2007-08	35	13	20	96
2008-09	28	12	13	100
2009-10	36	04	28	100
2010-11	40	05	30	100
2011-12	31	07	13	100

M.Phil. Programmes

Year of	Applications	Selected		Dogg novembers
study	received	Male	Female	Pass percentage
2007-08	25	05	14	100
2008-09	20	05	12	100
2009-10	24	09	10	89
2010-11	18	05	12	67
2011-12	20	10	07	88

Ph.D. Programmes

Do	ing		Awarded before the assessment period		during the nt period
Male	Female	Male	Female	Male	Female
15	08	08	05	05	00

PG Diploma in Aquaculture

Year of	Applications	Sele	cted	Pass percentag	
study	received	Male	Female	Male	Female
2007-08	18	11	-	100	-
2008-09	12	10	-	100	-
2009-10	17	11	-	100	-
2010-11	14	12	-	100	-
2011-12	12	12	-	100	-

Certificate Course

Year of study	Applications received	Selected	Pass percentage
2007-08	30	30	100
2008-09	28	28	100
2009-10	26	26	100
2010-11	30	30	100
2011-12	16	16	100

22. Diversity of students

Name of the Course (refer question no. 2)	% of students from the College	% of students from the State	% of students from other States	% of students from other countries
B.Sc.		100		
M.Sc.	85	15		
M.Phil.	55	45		
Ph.D.	80	20		
Certificate Courses		100	-	

23. How many students have cleared Civil Services, Defence Services, NET, SLET, GATE and any other competitive examinations? :

• Defence service – Mr.Karthikeyan

24. Student progression:

Student progression	Percentage against enrolled	
UG to PG	72	
PG to M.Phil.	71	
PG to Ph.D.	32	
Ph.D. to Post-Doctoral	05	
Employed		
 Campus selection 	-	
 Other than campus recruitment 	83	
Entrepreneurs	17	

25. Diversity of staff

Percentage of faculty who are graduates		
of the same parent university	82	
from other universities within the State	18	
from other universities from other States		

26. Number of faculty who were awarded Ph.D., D.Sc. and D.Litt. during the assessment period.

Sl. No.	Year of completion	No. of faculty awarded Ph.D.
1.	2007 – 2008	02
2.	2008 – 2009	01
3.	2009 – 2010	00
4.	2010 – 2011	01
5.	2011 – 2012	02

27. Present details about infrastructural facilities

* Library : General Library : 1,347

Department Library: 267

List of Journals

Indian Journal of Marine Science Indian Journal of Biotechnology

Indian Science Abstract

Marine Science Information Service

Indian Journal of Fisheries

Indian Journal of Biochemistry &

Biophysics

* Internet facilities for staff: Internet facility is available in the

and students

department for staff and students.

* Total number of classrooms : 08 * Classrooms with ICT : 02

facility

* Students' laboratories

* Zoology : 03

* Biotechnology 02

* Microbiology 01

* Research laboratories : 01

Instruments available PCR

SDS - PAGE Western Blotting Cooling Centrifuge UV Spectrophotometer

Deep Freezer

TLC



28. Number of students of the department getting financial assistance from College.

Year Ma		agement Financial Assistance		Government Financial Assistance		Assistance
	UG	PG	M.Phil	UG	PG	M.Phil
2007-08	12	10	2	160	70	9
2008-09	30	20	4	72	58	8
2009-10	26	8	2	128	60	14
2010-11	35	9	2	115	64	13
2011-12	22	10	3	180	80	18

29. Was any need assessment exercise undertaken before the development of new program(s)? If so, give the methodology.

Based on the relevance to society, need base, interaction with external experts, opinion from outgoing students and job opportunities in varied fields, new programmes are developed in addition to the conventional Zoology, Biotechnology Programme has been introduced.

30. Does the department obtain feedback from

- * Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize it?
 - i. Yes, feedback collected members of Board of studies about curriculum
 - ii. Semester wise results of the student's record are maintained in the Department
 - iii. Considering the feedback of board of study members the syllabus has been strengthened
 - iv. Introduction of innovative method of teaching was adopted by using OHP, LCD and Practical demonstrations.
- * Students on staff, curriculum as well as teaching-learningevaluation and what is the response of the department to the same?
 - i. Yes, feedback collected from students to evaluate the teachers performance in the class room.
 - ii. Based on the feedback from the students subject experts(Senior faculty) were allotted to handle the specific subjects.
- * Alumni and employers on the programmes and what is the response of the department to the same?
 - i. Yes, feedback obtained from the Alumni and employers
 - ii. According to Alumni and employers feedback the curriculum was useful for the students in succeeding the interviews and obtaining jobs especially in aquaculture farms.
 - iii. According to the employers feedback the practical oriented programmes was enriched in the curriculum



31. List the distinguished alumni of the department (maximum 10)

SL. No.	Name of the Alumni	Designation	Place
1.	Raghavan Ramamoorthy	Agricultural Consultant	107,Old Hope Road, Kingston 6,Jamaica,West Indies.
2.	M.R.K.Panneerselva m, Ex M.L.A	Former Minister For Health	Cuddalore
3.	R.Balasubramaniyan	Expert, Aqua Culture	Singapore
4.	S.Semmalai M.P.	Former Minister for Education	Chennai
5.	A.Navaneetha Krishnan	Advocate General – TN	Chennai
6.	Dr.G.Arjunan	Professor And Head	Dept. of Animal Science BARD, Trichirappalli
7.	Dr.S.Kandhan	Asst. Director	MPEDA, Than javur
8.	Dr.BalaKrishnan	Vector Control Board	Coonoor – Ooty
9.	Dr.A.L.Muthuraman	Director	MPEDA, Thanjavur

32. Give details of student enrichment programmes (Special Lectures/ Workshops / Seminar) with external experts.

Sl. No.	Seminar Date	Seminar Title	Invited Talk
1.	08.03.2007	Highlights of the Department of Zoology and Biotechnology – 2007 UG Entrepreneurship Programme	Dr.K.M.Subburathinam Head, Dept. of Biotechnology, J.J.College of Arts and Science, Pudukkottai.
2.	20.08.2009	A Seminar on Recent Trends in Animal Science	Dr.G.Swamidoss Daniel, Dean of Sciences, Prist University, Thanjvur
3.	14-09 -2010	A Seminar on Bio Diversity and Bio Resources	Dr.V.Aldous J Huxley, Asst. Prof. of Zoology, Thiru.Vi.Ka. Govt. College, Thiruvarur
4.	12.08.2011	Psychology and Biology	Dr.S.S.Rajendran, Associate Professor, HOD of Zoology, Raja Serfoji Govt. College, Thanjavur-5
5.	29.08.2011	Seminar On Recent Trends in Life Science	Dr.S.Kandan, Assistant Director, MPEDA, Thanjavur
6.	26-12-2011	Transgenic Techniques	Dr.M.Jayanthi, HOD of Zoology & Biotechnology, Seethalakshmi Ramasamy College, Trichy
7.	09.03.2012	Workshop on Sericulture	Mr.V.Panneerselvam, Assistant Director of Sericulture, Trichy, Govt. of Tamil Nadu

33. List the teaching methods adopted by the faculty for different programmes.

Sl. No.	Programme	Teaching Methods Adopted
		Chalk and Talk method, Teaching with models
1.	UG	and chart, Practical demonstrations . Field trip
		and specimen collection.
		Blackboard operation, Projection of OHP and
2.	PG	LCD, Online Test. Collection and Identification
	of Biological specimen	
2	M.Phil.	Teaching with LCD, Seminar, Group discussion.
3.		Introduced paper on teaching methodology

34. How does the department ensure that programme objectives are constantly met and learning outcomes monitored?

The Programme objectives and learning outcomes are monitored and constantly met

- * through CIA
- * Tutorial system
- * Feedback from students
- * Annual review by the Management
- * Feedback from Alumni and parents

35. Highlight the participation of students and faculty in extension activities.

Participation in Extension Activities is mandatory for all UG students as **Part–V** of studies. In Extension Activities we offer NSS, NCC and YRC, etc social work in adopted villages.

Participation of faculty in Extension Activities

Sl. No.	Name of the Faculty	Name of the Extension Activity
i.	P.Natarajan	Youth Red Cross
ii.	Dr.R. Pragashraj	NSS Programme Officer

36. Give details of "beyond syllabus scholarly activities" of the department.

- Conducted **YSSP** (Young Student Scientists Programme 2012) in May 2012.
- Farmers Training programmes on Fresh water fish culture
- Participation in **Science exhibition** in collaboration with Physics and Chemistry in our college for the benefit of school students in 2011.
- Honey bee Rearing Training Programme given to women Self Help group.



- 37. State whether the programme/ department is accredited/ graded by other agencies. Give details.: -----
- 38. Detail any five Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department

Strengths:

- i. Competent, dedicated and qualified faculty members to formulate any new socially important curriculum.
- ii. The well equipped laboratory with full fledged infrastructure facilities, even support other science departments.
- iii. Collection of rare specimen right from 1956 in our Museum
- iv. Our department having a shrimp farm for 6.5 Acres in Eripurakkarai at Adirampattinam to conduct aquaculture studies and also to educate rural shrimp culture farmers.
- v. A pond in the college premises is an added strength to cater the programme like aquaculture studies.

Weaknesses:

- i. The declining trend in using animals for dissection due to the policies of both State and Central Government.
- ii. Video clippings of dissection demonstration is not effective in learning the animal anatomy.
- iii. Most of our UG students coming from Tamil Medium schools find difficult to cope up the classes taught in English.
- iv. The maximum number of students are economically and socially disadvantaged ones.

Opportunities:

- i. The facility for a student joining UG course to pursue his studies upto Research level in Ph.D. gives him the opportunity for vertical mobility.
- ii. There is an opportunity to do Biotechnology from UG to PG level.
- iii. There are plenty of employment opportunities in government and private sectors such as fisheries department, fish farms, vector control board, zoological survey of India etc.
- iv. Opportunity for self-employment is also higher Fisheries, Sericulture, Apiculture, Poultry, Vermiculture etc.
- v. We can offer our valid consultation to the local villagers for Fish farming, Sericulture and Apiculture

Challenges:

- i. To motivate our students from rural environment to undertake self employment relevant to our subjects
- ii. To enhance the communication skills for our students.
- iii. To create Public awareness programme on health care, hygienic and immunization.



39. Future plans of the department.

- * To collaborate with fisheries, sericulture and animal husbandry department to enhance the course with job opportunities.
- * To offer training programme for the farmers.
- * To create a special laboratory for animal tissue culture.
- * To develop the advance technique on culture of single cell protein.
- * To develop the technique for biodegradation in collaboration with Department of Biotechnology (DBT).

Achievements of the Department

MAJOR SCIENTIFIC RESEARCH PROJECTS COMPLETED Dr. Abdul A Rahaman

• Sea Turtle Research & conservation (**DoEN**)

-1984 - 87 Rs.3,82,600

An environmental investigation of Muthupet Saline Swamp/UGC

– 1985- 87 Rs 2.25 lacs

• Survey and utilization of Natural resources/UGC

– 1993-96

Rs.1,14,918

• Environmental impact of effluent discharge from Aquaculture pond – **DoEN**

-1994-96

Rs.2,05,339

• A recovery plan for marine turtles *Olive ridley* on the East Coast of Tamil Nadu-ICAR

-1986-87

Rs.1,24,000

• Integration of Artemia in solar salt work – Benefits for salt production and production of valuable by- products Artemia cyst and Artemia Biomass: **DST**

-1995 - 97

Rs.1,30,000

Dr.M.Ayyavoo & Dr.K.Rajendran

• Utilization of parboiled rice bran and settlings of rice-bran oil as prawn and fish feed –

Ministry of food processing New Delhi.

- 1993 – 95 Rs.2,04,000

MINOR RESEARCH PROJECTS COMPLETED

Dr.G.Swamidoss Daniel

- Fresh water Aquaculture with related discipline for viable farming system **UGC**
- 2003 05 Rs.70,000

Dr.M.Ayyavoo

• Environmental factors and their role in reproductive cycle of a few crustaceans – **UGC**

-1984 - 85

Rs.9,000

• Characterization and Bio-mass production of marine microalgae as an alter native sources of Aquafeed evolving low cost technology – **UGC**

-2003-05

Rs.80,000



EXTENSION CENTRES OF THE DEPARTMENT

- Turtle pen Point Calimere (Kodiyakkarai)
- Shrimp Farm Eripurakkarai Adirampattinam

SEMINAR

- Sustainable development 1996
- Recent trends in Animal Sciences 2001

SYMPOSIA

- All India Symposium on Aquatic Organisms 1987
- International Symposium on Bio Industry 1989

WORKSHOP

- One Day Workshop on Coconut Pest Management 2005
- One Day Workshop on Ornamental Fish Culture 2005

CONFERENCE

• Aquaculture Biotechnology – **UGC** - 2005

FOREIGN VISITS

- Dr. Abdul A Rahaman Visited U.S.A 1990
 - Visited China 1992
- Dr.G.Ravikumar & Dr.U.Balasubramanian

Presented papers in Sericulture

Conference at

Bangkok, Thailand - 2002

