



POST GRADUATE & RESEARCH DEPARTMENT OF ZOOLOGY A PROFILE



YADAVA COLLEGE MADURAI











POST GRADUATE & RESEARCH DEPARTMENT OF ZOOLOGY YADAVA COLLEGE

MADURAI

A. PROGRAMMES (YEAR OF ESTABLISHMENT)

UNDERGRADUATE	1975
POST GRADUATE	1983
M.PHIL	2003
PH.D	2004

Vision

Promote the students to enrich their knowledge on zoological value of life and computational skills related to environmental and ethical issue

Mission

Imparts quality life science through zoological educational for the betterman of human life and environment

History of the Department

The Department of Zoology was established in the year 1975 headed by Dr.N.K. Ramaiah. Over 45 years, with the team of well qualified, experienced and energetic faculty provided the opportunity for the students to have a strong fundamental knowledge on the zoology. The miles stone of the department offered to M.Sc Zoology (1983), M.Phil (2003) and Ph.D (2004). Dynamic faculty members of our department produced about 20 Ph.D scholars and more than 50 M.Phil scholars. Department of Zoology produced more than 10 SET candidates in life science. In 2011, the Department will be the primary tool for carrying out the International Water Conference.

The flourished faculties of our Department Dr.P.S. Navaraj received the Best scholar award of Tamilnadu during the year 2007-2008 and Dr.P.Alagesan received the Best teacher and Researcher award during the year 2008-2009. The dynamic Principal Investigators of Dr.P.Alagesan received two Major Research Projects from funding of UGC and Dr.S.Dhanasekaran & Dr.P.S.Navaraj received one major research project respectively.

A sum 40 lakhs of grants received from funding agency of UGC for Major Research Project and 8.57 lakhs for Minor Research Project. Eminent faculties published more than 50 research papers in reputed international and national journals. Our zoology museum and an aquarium is yet another hallmark of the department with models of ecosystems and collection of several rare and unique specimens attracting a lot of visitors in and out of the college

B.FACULTY PROFILE

A. STRENGHT

TOTAL TEACHING STAFF - 09

SL.NO	NAME OF THE	QUALIFICATION	DESIGNATION
	FACULTY		
1	Dr.B.Mathialagan	M.Sc., M.Phil., Ph.D	Associate Professor
			& Head
2	Mr.G.Rajkumar	M.Sc., M.Phil., (Ph.D).,SET	Asst.Professor
3	Dr.A.Barathinivas	M.Sc., M.Phil., Ph.D., SET	Asst.Professor
4	Dr.B.Ramanathan	M.Sc., M.Phil., Ph.D., SET	Asst.Professor
5	Mrs.S.Suganya	M.Sc., M.Phil., B.Ed	Asst.Professor
6	Dr.R.Gnanamani	M.Sc., Ph.D., SET	Asst.Professor
7	Mrs.M.Suganya	M.Sc., M.Phil., (Ph.D)	Asst.Professor
8	Dr.S.Mariappan	M.Sc., M.Phil., Ph.D	Asst.Professor
9	Dr.G.Chandran	M.Sc., M.Phil., Ph.D	Asst.Professor

B. SPEACILIZATION

S.NO	NAME	EXPERT FIELD
1.	Dr.B.Mathialagan	Molecular Microbiology
2.	Mr.G.Rajkumar	Biodiversity
3.	Dr.A.Barathinivas	Aqua Toxicology
4.	Dr.B.Ramanathan	Biodiversity & Conservation
5.	Mrs.S.Suganya	Aquaculture
6.	Dr.R.Gnanamani	Agriculture Entomology
7.	Mrs.M.Suganya	Aquaculture
8.	Dr.S.Mariappan	Neurobiology
9.	Dr.G.Chandran	Environmental Toxicology &
		Malacology

Dr.B.MATHIALAGAN

Mobile: +91 9443161331

Email: drmathiyazhaganb@gmail.com



Educational Qualification	M. Sc., M.Phil., Ph. D.,
Designation	Associate Professor & Head in Zoology and
	Controller of Examination
Working Institution	Yadava College, Madurai
Teaching Experience	22years (2000-till date)
Project Guidance	M.Phil-3; PG-6; UG-4
Handle class	UG & PG Zoology Students
Area of Interest	Molecular Microbiology
Awards/Fellowship	Awarded Minor Research Project
	From 2008 -2010 - No 2665/08 - Funded
	by UGC -Rs 40,000/-
Guideship	Yes; Ph.D Guideship No : 1039
Books/Chapters	Books-1; Chapter-1
Paper Presentation	National-02
Research Publication	Published 1 Research Papers
Workshop/ Seminars Organized	International-1; National-10; State-2
Role in College Administration	Head of the Department of Zoology
	Controller of Examination
	President in Science Club
	Member in Advisory Committee
	Member in Admission committee

Mr.G.RAJKUMAR Mobile: +91 9488055256

Mobile: +91 9488055256 Email: rajrgkumar@gmail.Com



Educational Qualification	M. Sc., M.Phil., (Ph. D) SET.
Designation	Assistant Professor in Zoology
Working Institution	Yadava College, Madurai
Teaching Experience	15years (2006-till date)
PG Project Guidance	2- UG Students; 20- PG Students
Handle class	UG & PG Zoology Students
Area of Interest	Biodiversity
Awards/Fellowship	Secured 1st mark in B.Sc., Zoology
	Highest mark in Biochemistry during
	M.Sc., Zoology
Books/Chapters	Books-1; Chapter-1
Paper Participation	International-03
Research Publication	Published 2 Research Papers (2020-2022)
Workshop/ Seminars Organized	International-1; National-10; State-2
Role in College Administration	Deputy Warden (Boys Hostel)
	Member in IQAC, Criteria II
	Member in Alumni Committee
	Member in Anti-Narcotic club
	In charge for the Vermicompost Yard

Dr.A.BARATHINIVAS

Mobile: +91 99944241175 Email: <u>barathinivas@gmail.Com</u>



Educational Qualification	M. Sc., M.Phil., Ph. D., SET.
Designation	Assistant Professor in Zoology
Working Institution	Yadava College, Madurai
Teaching Experience	13years (2009-till date)
PG Project Guidance	2- UG Students; 18- PG Students
Handle class	UG & PG Zoology Students
Area of Interest	Aqua toxicology
Awards/Fellowship	Awarded in Pasumai Evon-2022 in Sakiya
	Academy
Books/Chapters	Books-1;
Paper Presentation	International-01; National-04
Research Publication	Published 4 Research Papers (2013-2022)
Workshop/ Seminars Organized	International-1; National-8; State-2
Role in College Administration	Member in IQAC team, working under
	Criteria –VI for NAAC work.
	Member in Pirantha Mann
	Member in Board of Studies (Botany)
	Co-ordinaor for Extension Activity
	(2020-2022)

Dr.B.RAMANATHAN,

Mobile: +91 7305044105 Email: <u>ram040784@gmail.Com</u>



Educational Qualification	M. Sc., M.Phil., Ph. D., SET.
Designation	Assistant Professor in Zoology
Working Institution	Yadava College, Madurai
Teaching Experience	9years (2013-till date)
PG Project Guidance	13 PG Students
Handle class	UG & PG Zoology Students
Area of Interest	Biodiversity
Awards/Fellowship	Awarded Project Fellow under UGC-Major
	Research Project from 2009-2012.
Books/Chapters	Books-2; Chapter-1
Paper Presentation	International-04; National-04
Research Publication	Published 12 Research Papers (2010-
	2022)
Workshop/ Seminars Organized	State level Seminar-2
Role in College Administration	Assistant to Dean of Academic Affair
	Member In Students Welfare
	Committee

Mrs.S.SUGANYA

Mobile: +91 9787936857

Email: shamsugan1990@gmail.Com



Educational Qualification	M. Sc., M.Phil., B.Ed
Designation	Assistant Professor in Zoology
Working Institution	Yadava College, Madurai
Teaching Experience	9years (2014-till date)
PG Project Guidance	5 PG Students
Handle class	UG & PG Zoology Students
Area of Interest	Aquaculture
Awards/Fellowship	Awarded Pasumai Evon-2022 in NGO
Paper Participation	National-2; Workshop-4
Workshop/ Seminars Organized	State level Seminar-2
Role in College Administration	Programme Officer in NSS (2015-
	2017)
	Member In Science Club

Dr.R.GNANAMANI,

Mobile: +91 9600654913

Email: gnanamani87@gmail.Com



Educational Qualification	M.Sc., Ph.D., SET	
Designation	Assistant Professor in Zoology	
Working Institution	Yadava College, Madurai	
Teaching Experience	6years	
PG Project Guidance	5 PG Students	
Handle class	UG & PG Zoology Students	
Area of Interest	Agriculture Entomology	
Awards/Fellowship	Awarded Project Fellow under UGC-Major	
	Research Project from 2010-2013.	
Books/Chapters	Chapter-1	
Paper Presentation	International-03; National-05	
Research Publication	Published 10 Research Papers (2011-	
	2022)	
Workshop/ Seminars Organized	State level Seminar-2	
Role in College Administration	Member in IQAC team, working under	
	Criteria –III for NAAC work.	
	Member in Eco-Green Club	

M.SUGANYA

Ph. No: 9843497701

Email: nithinsuganya. 14@gmail.com



Educational Qualification	M.Sc., M.Phil., (Ph.D).
Designation	Assistant Professor in Zoology
Working Institution	Yadava College, Madurai
Teaching Experience	6years (2017-till date)
PG Project Guidance	3 PG Students
Handle class	UG & PG Zoology Students
Area of Interest	Aquaculture
Paper Presentation	National-01
Workshop/ Seminars Organized	State level Seminar-2
Role in College Administration	Member In Debate Club

Dr.S.Mariappan

Mobile: +91 9944590854 Email: manimari14@gmail.Com



Educational Qualification	M.Sc., M.Phil., Ph.D.,
Designation	Assistant Professor in Zoology
Working Institution	Yadava College, Madurai
Teaching Experience	6years (2017-till date)
PG Project Guidance	5 PG Students
Handle class	UG & PG Zoology Students
Area of Interest	Behavioural Neurobiology
	Microbial Pathogenicity
Awards/Fellowship	Awarded Senior Project Fellow under CSIR
	Research Project from 2010-2013.
Paper Presentation	International-01; National-04
Research Publication	Published 05 Research Papers (2011-2022)
Workshop/ Seminars Organized	State level Seminar-2
Role in College Administration	Member In Disciplinary Committee
	Member in IQAC team, worked under
	Criteria –II for NAAC work from 2020-
	2021.

G.CHANDRAN

Mobile: +91 9789658778 Email: <u>chandranphd1983@gmail.Com</u>



Educational Qualification	M. Sc., M.Phil., Ph. D.,
Designation	Assistant Professor in Zoology
Working Institution	Yadava College, Madurai
Teaching Experience	4years (2018-till date)
	4years Experience in Madura College from
	2013-2018.
Project Guidance	M.Phil- 07; PG - 08; UG-12
Handle class	UG & PG Zoology Students
Area of Interest	Environmental Toxicology
	• Malacology
Books/Chapters	Books-2
Paper Presentation	International-06; National-11
Research Publication	Published 08 Research Papers (2009-
	2022)
Workshop/ Seminars Organized	State level seminar-1
Role in College Administration	Member in Disciplinary Committee

C. ACHIEVEMENTS AND AWARDS

Dr.P.S.Navaraj	Best Scholar	2007-2008	Govt of Tamilnadu
	Award		
Dr.P.Alagesan	Best Teacher	2008-2009	Govt of Tamilnadu
	Award		

D. DOCTORATE OBTAINED DURING THE YEAR 2015-2020

Dr.R.Gnananamani	2017
Dr.S.Mariappan	2018
Dr.A.Barathinivas	2021

E. STATE ELIGIBILITY TEST (SET) PASSED BY OUR FACULTY

Mr.G.Rajkumar	2016
Dr.A.Barathinivas	2016
Dr.B.Ramanathan	2016
Dr.R.Gnanamani	2017

F. KEY POSITION IN OUR COLLEGE

S.NO	NAME	KEY POSITION
1.	Dr.B.Mathialagan	Controller of Examination and
		Member in Research Committee
2.	Mr.G.Rajkumar	Deputy Warden And Member in
		Criteria II
3.	Dr.A.Barathinivas	Member in Criteria VI and Member
		In Pirantha Mann
4.	Dr.B.Ramanathan	DEO in Dean office and Member In
		Students Welfare Committee
5.	Mrs.S.Suganya	Member In Science Club
6.	Dr.R.Gnanamani	Member in Criteria III and Member
		In Eco-Green Club
7.	Mrs.M.Suganya	Member In Debate Club
8.	Dr.S.Mariappan	Member In Disciplinary Committee
9.	Dr.G.Chandran	Member In Disciplinary Committee

G. BOOKS PUBLISHED

- > LAB MANUAL OF MODERN TECHNIQUES IN BIOLOGY FOR HIGHER SECONDARY TEACHERS
- > ENVIRONMENTAL STUDIES FOR ALL UG STUDENTS
- > GENERAL STUDIES
- > DAIRY SCIENCE
- > INVEREBRATE AND CHORDATA
- > CHAPTER IN THE BOOK OF SUSTAINBALE DEVELOPMENT FOR FUTURE: INSIGHTS FROM AGRICULTURE, HEALTH, AQUACULTURE, ENERGY AND ENVIRONMENT
- > NEET BIOLOGY BOOK FOT TAMIL MEDIUM STUDENTS

STUDENTS PROFILE

STRENGTH:

Strength of Students									
Academic		B.Sc		M	M.Sc M.Phil		Total	Boys	Girls
Year	I	II	III	1	1 11		Total		
2015 – 2016	49(25+24)	50(27+23)	29(14+15)	15(04+11)	11(02+09)	Nil	154	72	82
2016 – 2017	46(20+26)	46(22+24)	50(30+20)	12(05+07)	15(04+11)	Nil	169	81	88
2017 – 2018	45(26+19)	40(18+22)	43(20+23)	11(05+06)	10(03+07)	Nil	149	72	77
2018 – 2019	47(11+36)	45(26+19)	40(18+22)	09(03+06)	11(05+06)	Nil	152	63	89
2019 – 2020	46(21+25)	47(11+36)	45(26+19)	05(01+04)	09(03+06)	Nil	152	62	90
2020 - 2021	41(25+16)	46(21+25)	47(11+36)	08(02+06)	05(01+04)	Nil	147	60	87
2021 - 2022	33(18+15)	41(25+16)	46(21+25)	09(03+06)	08(02+06)	Nil	137	69	68

STUDENT'S TEACHERS RATIO

	STUDENTS - TEACHERS RATIO								
			No. o	f Stud	ents		T-4-1	Charles	
Academic Year		B.Sc		M	I.Sc	M.Phil	Total No. of	Total No. of	Students – Teachers
	ı	II	III	ı	II		students	Teachers	Ratio
2015 – 2016	49	50	29	15	11	Nil	154	10	15 : 01
2016 – 2017	46	46	50	12	15	Nil	169	09	19 : 01
2017 – 2018	45	40	43	11	10	Nil	149	09	17 : 01
2018 – 2019	47	45	40	09	11	Nil	152	10	15 : 01
2019 – 2020	46	47	45	05	09	Nil	152	09	17 : 01
2020 – 2021	41	46	47	08	05	Nil	147	09	15:01
2021 – 2022	33	41	46	09	08	Nil	137	09	14:01

STUDENTS REPRESENTED FROM

REGION

URBAN	14%
RURAL	86%

ECONOMIC BACKGROUND

HIGH INCOME GROUP	0%
MEDIUM INCOME GROUP	12%
LOW INCOME GROUP	88%

EDUCATIONAL BACKGROUND-AT SCHOOL LEVEL

MATRIC SCHOOLS	5%
GOVERNMENT SCHOOLS	85%
PRIVATE SCHOOLS	10%

MEDIUM OF INSTRUCTION-AT SCHOOL LEVEL

ENGLISH	11%
TAMIL	89%

*AS PART TIME EMPLOYEES - 12 %

EDUCATIONAL BACKGROUND OF THE PARENTS

DEGREE	5%
UPTO – PLUS TWO /SSLC	20%
BELOW SSLC	60%
OTHERS	15%



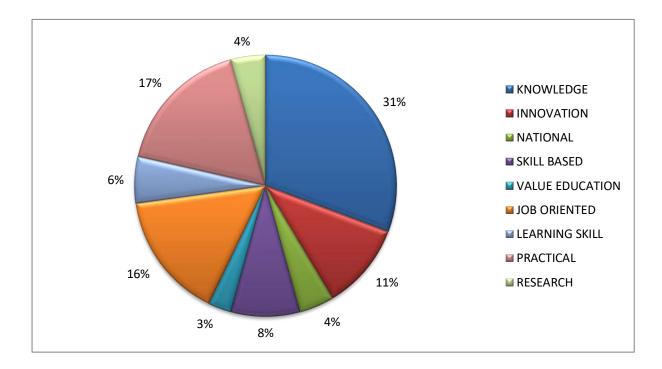
II.CURRICULUM

i. SKILL BASED ii. STUDENT FOCUSSED

iii. REGION BASED iv. NATIONAL GOAL ORIENTED

v. GLOBAL COMPETITIVE vi.ICT ENABLED

CREDIT WISE THRUST GIVEN IN CURRICULUM





III.TEACHING

- > GUEST LECTURES
- > E-TEACHING
- > WEB-TEACHING
- > INTERACTIVE TEACHING
- > REVIEW ARTICLES
- > DEMONSTRATION- HANDS ON EXPERIENCE
- > DISCUSSION FORUM

IV.LEARNING

- > E-LEARNING
- > PARTICIPATORY LEARNING
- > GROUP LEARNING
- > LEARNING BY DOING
- > LAB VISIT
- > INTERACTIVE LEARNING

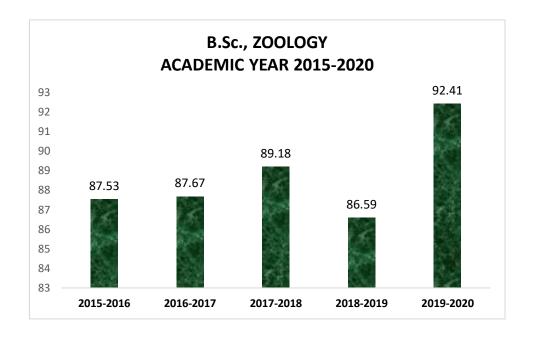
V. EVALUATION

- > ENTRY LEVEL TEST
- > CONTINUOUS ASSESSMENT
- > INTERNAL ASSESSMENT
- > PRACTICAL TEST
- > QUIZ PROGRAMME
- > VIVA-VOCE
- > SEMINAR

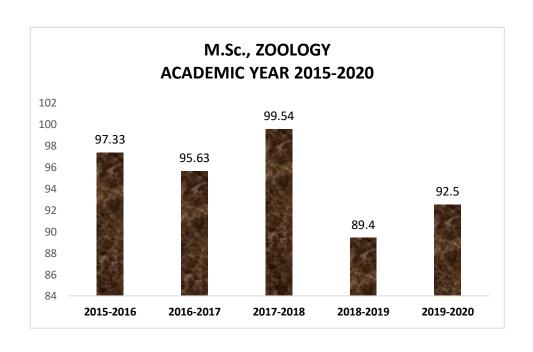


RESULT ANALYSIS FOR THE ACADEMIC YEAR 2015-2020

B.Sc., ZOOLOGY



M.Sc., ZOOLOGY



ONGOING M.SC., RESEARCH PROJECTS

S. NO	NAME OF THE GUIDE	NAME OF THE STUDENTS	Area of Interest
1.	Mr.G.Rajkumar	A.Raman	Biodiversity
2.	Dr.A.Barathinivas	N. Vimala Devi	Aquaculture
3.	Dr.B.Ramanathan	S. Gokula Priya	Biodiversity
4.	Dr.R.Gnanamani	G.Nageshwari	Agricultural Entomology
5.	Mrs.M.Suganya	R. Santhosh	Entomology
6.	Dr.S.Mariappan	R. Gokila	Molecular Biology & Toxicology
7.	Dr.G.Chandran	A.Hariharan	Molecular Studies



PG AND RESEARCH DEPARTMENT OF ZOOLOGY, YADAVA COLLEGE, MADURAI-14.

RESEARCH ACTIVITIES

National (N); International (IN); Journal (J); Seminar (S); Conference (C); Books (B).

s.n o	Faculty members	Register ed Ph.D Guide	Publicatio n		Paper Presentation		Book s	Research Projects Completed
			N J	INJ	INS/I NC	NS/N C		for Students
1	Dr. B.Mathialagan	YES	1	-	-	2	2	13
2	Mr.G.Rajkumar	-	-	2	-	-	2	22
3	Dr.A.Barathinivas	-	2	2	1	4	1	20
4	Dr.B.Ramanathan	-	1	11	4	4	3	12
5	Mrs.S.Suganya	-	-	-	-	-	-	5
6	Dr. R.Gnanamani	-	1	10	3	5	1	5
7	Mrs.M.Suganya	-	-	-	-	1	-	3
8	Dr.S.Mariappan	-	1	4	1	4	-	5
9	Dr.G.Chandran	-	6	2	6	11	2	3

CONSULTANCY SERVICES

NAME OF THE STAFF	CONSULTANCY OFFERED
Dr. B. MATHIALAGAN	Biocides
Mr. G. RAJKUMAR	Organic farming
Dr. A. BARATHINIVAS	Toxicology
Dr. B. RAMANATHAN	Biocompost
Mrs. S. SUGANYA	Aqua culture
Dr. R. GNANAMANI	Entomology
Mrs. M. SUGANYA	Aquaculture
Dr. S. MARIAPPAN	Animal Behaviour
Dr. G. CHANDRAN	Bioactive compounds

TARGET GROUP BENEFITED BY CONSULTANCY

- 1. RESEARCH SCHOLARS
- 2. FARMERS
- 3. INDUSTRIALIST
- 4. AQUACULTURIST
- 5. AGRICULTURALIST



STUDENTS SUPPORT PROGRAMME

- Students Participation in Academic Council
- ❖ FRS program- Fund for Student Research
- ❖ Alumni Sponsored Endowment Lecture to Biology/ Students

STUDENTS ACHIVEMENTS

Name	Paper/ Poster/ Quiz Programme	Prize	Institution	Year
R.Naveena	Poster	III	Madura College	2018-2019
K.Aarthy	Poster	III	Madura College	2018-2019
K.Gokula priya	Drawing	I	American college	2017-2018
G.Nageswari	Vegetable carving	I	Yadava College	2021-2022





INFRASTRUCTURE

HI-TECH INSTRUMENTS

- > PCR
- > GEL DOC
- > SPECTROPHOTOMETER
- > FLAMEPHOTOMETER
- > LAMINAR FLOWHOOD
- > REFRIGERATER CENTRIFUGE
- ***** COLORIMETER
- **❖** pH METER
- *** ULTRA CENTRIFUGE**
- * MONOPAN BALANCE

SOFTWARES

- BOOKS
- JOURNALS
- EDUCATIONAL CDS ON VARIOUS TOPIC
- E-BOOKS, E-LECTURE NOTES

OTHER FACILITIES

- > SMART CLASS ROOM (A/C)
- > LCD
- > INTERNET
- > INTRANET
- > COMPUTERS
- > LAPTOP
- > P.G.COMPUTER LAB
- > OHP





UNIQUE FEATURES

- * Recognized as the Research Centre by Madurai Kamaraj University
- ❖ All Faculty members are actively involved in Research
- ❖ High Tech Lab With Sophisticated Instruments
- ❖ A well equipped "Smart Class Room"
- ❖ Link with National and International Research Groups.
- ❖ Many research papers in National & International journals.
- ❖ Competition curriculum to compete the competitive environment
- Modern Teaching tools are adopted
- Well equipped Museum is an eye opener for the conservation of vulnerable and endangered species.
- ❖ Vermiculture centre to enlighten the organic farming
- ❖ Aquarium for mind relax and research
- ❖ Wet lab to encourage the research activities
- ❖ To enrich the world knowledge and to ignite the reading habit "news Corner"





HIGH LIGHTS OF DEPARTMENT

- ❖ Faculty are in expertise in diversified fields
- Collaboration with national and international agencies
- ❖ 88% of the students are first generation learners
- Competitive and flexible Curriculum
- Modern Teaching and Learning Exercise
- ❖ Periodical evaluation to enhance the academic enrichment of students
- ❖ Active Research is pursued in the Department
- ❖ Many Papers published in the National and International Journals
- ❖ Student support programme for active Research
- Capacity building Programme for students and staff
- ❖ Hi-tech Lab with Sophisticated Instruments
- ❖ Governance and Leadership training programme
- ❖ To make awareness towards understanding the diversified culture and ethnics we organized national & state level study tour regularly.
- ❖ To understand the Man-Animal conflict, every year we conduct the state level intercollegiate meet
- ❖ We count birds in our compus every year



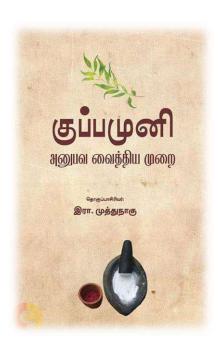
PROGRAMME ORGANISED

- State level intercollegiate seminar on Man- Animal Conflict-2018
- State level intercollegiate seminar on Man- Animal Conflict-2019

PROMINENT ALUMNI

- ❖ Dr.S. Mahalingam, Associate Professor in Biotechnology, IIT, Chennai.
- ❖ Dr. K. Kannan, Scientist, AVEO Pharmaceuticals, Inc (USA)
- ❖ Dr. S.Kalidass, Associate Professor, M.S. University, Tirunelveli.
- Mr. T.Jeyabalan, Commissioner, Department of Labour Welfare, Tamilnadu.
- * R.Muthunagu, Writer, Chennai





VOICE OF ALUMINI

Dr. Alaguchamy (1986-1988) Principal In Charge, RDM Government Arts College, Sivagangai



"It is a very good institution that shaped the lives of many students. I am very proud to say that I am one of them"



Dr. Uma Maheswari (1995-1997)
Associate Professor & Head,
PG Department of Zoology,
Arulmigu Palaniandavar College for Women,
Palani

"I did my Master's from 1995-1997 in Yadava college. I am proud to be a Alumini of My college"

Dr. C.Kandeepna (1986-1988)
Associate Professor & Head,
PG Department of Zoology,
Arulmigu Palaniandavar College of Arts and Culture,
Palani



"Esteemed Institution which mould me as an Good Academician"

Mr.Karuppaiah (2004-2007)
Ward Municipal Counsellor &
Secretory in Rameshwaram Advocate Association,
Rameshwaram Municipality
Rameshwaram



"I learned ethics and culture with Zoology through my eminent Professors. I uplift my successful life in Politics"



Mr.P.Vigneshwaran(2002-2005)
Director & Co- Founder,
Shenll Technology Soultion Pvt.ltd
Chennai

"Achievement of Zoology helping me to achieve great height in Entrepreneur Life"









MUSEUM



AQUARIUM



