

ST. MARY'S COLLEGE (AUTONOMOUS)
(Re- accredited with 'A' grade by NAAC)
Thoothukudi - 628001, Tamilnadu



DEPARTMENT OF ZOOLOGY

News Letter (2018-2019)

EDITORIAL TEAM

Dr. R.D. Thilaga

Dr. A. Elezabeth Mary

Ms. S.Jesily

Dr. N.Arokiya Mary

Dr. HerminPasangha

Dr. P.J. Joslin

Dr. S. Mary Babtista Janet

Dr. Sr. C. Shibana

Dr. Jemma Hermelin Jesy Diaz

Dr. S.R.T. Sherly Cross

Ms. S. Selvi

Dr. P. Subavathy

NEWS LETTER

Message from Head of the Department

Dear Students, Faculty, and Alumni,
I am delighted to share with you the latest edition of our Zoology Department News letter. This newsletter is a reflection of the collective achievements, research advancements, and the vibrant community spirit that we cherish in our department. Our students and faculty have continued to excel in various academic and extra curricular activities, bringing pride and recognition to our department. From ground breaking research to community outreach programs, the enthusiasm and dedication of our team are truly commendable. I would like to extend my heartfelt thanks to everyone who has contributed to this edition. Your hard work, creativity, and commitment ensure that our department remains a beacon of excellence. As we move forward, I encourage all of you to stay curious, stay engaged, and continue to contribute to the field of Zoology with the same passion and dedication. Let us make the most of the opportunities that lie ahead and strive to push the boundaries of knowledge and discovery.

Happy reading!

Best Regards,

-Dr.R.D.Thilaga, Head of the Department of Zoology



Dr.R.D.Thilaga

ASSOCIATION MEETING

25.06.2018



The Department of Zoology, in collaboration with the Marian Research Forum, organized a meeting on 25.06.2018.

Dr. Antony Johnson, Scientist and Head of the Department of Habitat Ecology, Dehradun, Govt. of India, delivered a lecture on the topic "Wildlife Reserves and Conservation – Challenges."

21.08.2018

Rev. Fr. Rayappa. A. Kasi, an eminent ecotheologist spoke about "Adaptations of various organisms towards the environment and its effect on Evolution".



ASSOCIATION MEETING

30.08.2018



Dr.Insuwai, Radiotherapist Oncology spoke on different types of cancers, she focused mainly on the causes and cure of mammary and uterus cancers.

12.02.2019

"Wonderful world of oceans: Emerging Trends and Implications"

"Wonderful world of oceans: Emerging Trends and Implications" on 12.02.2019. Key speakers included K.Marimuthu, who highlighted the importance of biotechnology in aquaculture and fisheries, Professor N.Rajendran, who discussed life-saving drugs and natural products from the sea, Dr. L.Ranjith, who discussed indicators and indices for assessing reef ecosystem health, and Dr. Jawahar, who discussed effective ocean resource protection. Dr. D. Radhika, the Head and Associate Professor, VOC College, highlighted the role of youth in ocean resource protection.



BRIDGE COURSE

The Department of English conducted bridge courses for first-year B.Sc. Zoology students to enhance their speaking abilities and communication skills. The course started with foundational grammar and vocabulary, moving towards more advanced aspects like fluency, pronunciation and articulation. It emphasized group discussions, debates, and role-playing to help students practice real-life scenarios, thereby boosting their confidence in communicating with peers and teachers

LAB ACTIVITIES

The department has conducted 126 lab activities, offering students hands-on experience in experimental Zoology. These activities have not only sharpened their practical skills but also instilled in them a spirit of scientific inquiry and exploration.



MENTOR-MENTEE SYSTEM & CERTIFICATE COURSES

MENTOR-MENTEE SYSTEM

The Mentor-Mentee System has been a resounding success, with 42, 41, 43, 9 and 14 students of 1 B.Sc, 11 B.Sc, 111 B.Sc, 1 M.Sc and 11 M.Sc respectively benefiting from the guidance and support of experienced faculty members. This initiative has created a nurturing environment that brings up academic growth, creativity, and innovation..

CERTIFICATE COURSES

- Hospital Instrumentation and Management for 11-year students.*
- Career-oriented course on Tally for 111-year students*

The department has offered a certificate course on Hospital Instrumentation and Management for 11-year students and career-oriented course on Tally for 111-year students, with 44 and 42 students enrolled respectively. These courses have provided students with special knowledge and skills, thereby enhancing their academic and professional prospects.

BOARD OF STUDIES

The Board of Studies meeting, held on 16.02.2019, was attended by 4 external experts namely Dr. R.M. Murugappan, Dr. F. Brisca Renuga, Dr. H.Abdul Jaffar Ali and Dr. T.Jeyalalitha and the department has successfully implemented the Choice-Based Credit System (CBCS) and Outcome-Based Education (OBE) framework. This has ensured a student-centric approach, flexibility, and accountability in the academic programme.

PTA

The Parent-Teacher Association meeting, held on 06.10.2018 and 08.02.2019 for the students of 11 B.Sc. and 1 B.Sc. respectively has provided a platform for parents to engage with the department, share experiences, and forge meaningful connections.

ALUMNAE MEET

The Alumnae Meet, held on 11.04.2019 provided a platform for alumni to reconnect with the department, share their experiences, and forge meaningful connections with current students and faculty members.

DR. SR. C. SHIBANA



Antibacterial activity of Crab Portunus pelagicus from three stations of Gulf of Mannar coast. (Special Issue). IJRRA 732-726

DR. SR. C. SHIBANA &
DR. P. SUBAVATHY

Biochemical composition of the marine crab Portunus pelagicus from Gulf of Mannar. Vol. 7. (11): IJSRR 318-337

DR. P. SUBAVATHY



- *Analgesic, anti-pyretic and anti-inflammatory activities of marine gastropod Cypraea arabica (Linnaeus, 1758) Vol. 21.(2): JEZ1, 1033-1037*
- *Evaluation of wound healing activity of methanolic extract of Tonna dolium (L.1758), Vol. 8.(3): IOSR, 47-51*
- *Histological Investigation of the Digestive System and SEM study of Radula in Fusinus nicobaricus (Gastropoda: Fasciolaridae), Vol. 54.(2): IJAR 191-195*

DR.P.J. JOSLIN & MS. S. SELVI



- *Antibacterial and Antifungal analysis of crude extracts from the tissues of marine puffer fish Arothronstellatus, IJSRR,2018; Vol. 7 (9): 303-316*

DR. S.R.T. SHERLY
CROSS



*Studies on Plankton Diversity of Tuticorin
Mangrove Ecosystem – Vol.5. (4) :
SIJASH,2018:292-296*

DR. JEMMA HERMELIN JESY DIAZ & P.SUBAVATHY



*Biosynthesis of silver nanoparticles using tissue extracts of *Turbobrunneus* (R), *Cypraea annulus*, (L), *Babylonia spirata* (L) and their antibacterial potential, IJARBS, 2019, Vol- 6(6)121-129*

MS. S. SELVI AND DR.P.J. JOSLIN



- *Determination of antibacterial activity of marine puffer fish *Arothronimmaculatus* collected from Thoothukudi coast IJR*
- *Antibacterial and antifungal activities of marine puffer fish *Lagocephaluslunaris* collected from Thoothukudi coast IJSRR, 2018; Vol. 7 (8):493-502*

DR.R.D.THILAGA



- Chief Guest in Inauguration of Bioscience at Chandy College of Education, Thoothukudi on 22.01.2019
- Evaluator in Science Exhibition at V.O.C. College, Thoothukudi on 28.02.2019
- Valedictory Address in the International Conference on BioComm and Fest 2019 at Adithanar College of Arts and Science, Thoothukudi on 14.03.2019

MS. S. SELVI



- Chief Guest in Sports Day at R.C. Primary School, Thoothukudi on 26.02.2019
- Chief Guest in Women's Day celebration at T.M.S.S. Thoothukudi on 16.03.2019

MEMBERSHIP IN PROFESSIONAL BODIES & BOARD OF STUDIES

DR. S.MARY BAPTISTA JANET



- *Member of Board of Studies at Holy Cross College, Nagercoil during the academic year 2018 - 19*
- *Doctoral committee member for Ms. Jenivi*

DR. A.ELEZABETH MARY

- National Seminar on the topic “Fostering Transparency Routing out Plagiarism A to Z on 20.07.2018.
- International Conference on the topic “An approach to Applied Life Sciences “on 30.08.2018
- International Seminar on the topic Wonderful World of Oceans: Emerging Trends and Implications on 12.02.2019

MS. S. JESILY

- National Seminar on the topic “Fostering Transparency Routing out Plagiarism A to Z on 20.07.2018.
- International Conference on the topic “An approach to Applied Life Sciences “on 30.08.2018
- International Seminar on the topic Wonderful World of Oceans: Emerging Trends andmplications on 12.02.2019.

DR. N.AROKIYA MARY

- National Seminar on the topic “Fostering Transparency Routing out Plagiarism A to Z on 20.07.2018.
- International Conference on the topic “An approach to Applied Life Sciences “on 30.08.2018
- International Seminar on the topic Wonderful World of Oceans: Emerging Trends andmplications on 12.02.2019.

DR. HERMIN PASANGHA

- National Seminar on the topic “Fostering Transparency Routing out Plagiarism A to Z on 20.07.2018.
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DR. R. D. THILAGA

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DR. SR. C. SHIBANA

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- International Seminar on the topic Wonderful World of Oceans: Emerging Trends and Implications on 12.02.2019.

DR. JEMMA HERMELIN JESY DIAZ

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- International Conference on the topic “An approach to Applied Life Sciences “on 30.08.2018
- International Seminar on the topic Wonderful World of Oceans: Emerging Trends andmplications on 12.02.2019.

DR. P. SUBAVATHY

- National Seminar on the topic “Fostering Transparency Routing out Plagiarism A to Z on 20.07.2018.
- International Conference on the topic “An approach to Applied Life Sciences “on 30.08.2018
- National Seminar on the topic “ Biopolymers “ on 19.09.2018
- State Workshop on the topic “Spirulina Production Technology “ on 12.02.2019
- International Seminar on the topic Wonderful World of Oceans: Emerging Trends and Implications on 12.02.2019.
- National Seminar on the topic “Awareness on current scenario of Biodiversity and The Biodiversity Act,2002 “ on 27.02.2019.
- National Seminar on the topic “Bioprospecting of Bioresources from sea “ on 07.03.2019.
- International Conference on the topic “Bio-Commerce 2019 “ on 14.03.2019

PHD VIVA VOCE & PRE PHD E - CONTENT & NEW SCHOLARS

PHD VIVA VOCE

The department proudly announces the successful completion of doctoral research of Dr. Sr. C. Shibana guided by Dr.K.Diraviya Raj.

PRE PHD

The department proudly announces the successful completion of Pre Ph.D Viva of Ms. S. Selvi guided by Dr.P.J.Joslin

E - CONTENT

- Ms. S. Selvi - Chromosomes
- Dr. S.R.T. Sherly Cross – Structure of Heart

NEW SCHOLARS

Name of the Scholar	Name of the Guide
J. Esther Mereen	Dr. Jemma Hermelin Jesy Diaz
G. Monica	Dr. Jemma Hermelin Jesy Diaz
S.Motcha Arockia Vinista	Dr.Jemma Hermelin Jesy Diaz
A. Maria Selva Francis	Dr. Jemma Hermelin Jesy Diaz
Jenivi	Dr. R. D. Thilaga

RESEARCH CENTRE RENEWAL & DOCTORAL COMMITTEE MEETINGS

RESEARCH CENTRE RENEWAL

In recognition of its significant research output and academic excellence, the Department's Research Center received its renewal certification on February 15, 2019. This reaffirms its position as a center of excellence in different areas of research and enables continued research activities in various frontiers.

DOCTORAL COMMITTEE MEETINGS

The department proudly announces the successful completion of Doctoral Committee Meeting

Name of the Scholar	Name of the Guide	Date
A Maria Heartlina Adline Vaz	Dr.P.J.Joslin	19. 02. 2018
J.Esther Mereen	Dr.Jemma Hermelin Jesy Diaz	06.09.2019
G.Monica	Dr. Jemma Hermelin Jesy Diaz	08.01.2019
S.Motcha Arockia vinista	Dr. Jemma Hermelin Jesy Diaz	07.01.2019
A.Maria Selva Francis	Dr. Jemma Hermelin Jesy Diaz	07.01.2019
Jenivi	Dr.R. D. Thilaga	05.03.2019

As a part of extension activity, Department of Zoology has adopted an area Rajapandi Nagar in Thoothukudi district. It is located 5km from District headquarters Thoothukudi.

SOCIO-ECONOMIC SURVEY

On 21st July 2018 to the adopted area. The II B.Sc students accompanied by two staff members Mrs.S.Selvi and Dr.P.Subavathy. The survey revealed that the area is inhabited by 109 families. Open defecation is commonly prevailing. People are poorly educated reaching schooling at the maximum.



GANDHI JAYANTHI CELEBRATION

On September 29, 2018, II B.Sc. students by two staff members Mrs.S.Selvi and Dr.P.Subavathy celebrated Gandhi Jayanthi's 150th birthday by visiting the adopted area. They demonstrated Gandhi's values by teaching children computer education, art, and mehanthi.



Visit to Microbiological Laboratory and Fish Processing Unit at Britto Sea Food Exports Private Limited, SIPCOT

The microbiological laboratory at Britto Sea Foods Exports Private Limited in Thoothukudi, India, was visited by II M.Sc. Zoology students. They examined the water treatment facility and the microbiological load of seafood, which included *Vibrio cholera*, *E. coli*, and *Salmonella*. The company makes ready-to-eat seafood goods and exports a variety of seafood products, such as fish, prawns, lobsters, crabs, cuttlefish and oysters



Field Trip to Manapad for specimen collection

11.03.2019 On 11.03.2019, I B. Sc. Zoology students visited Manapad for an Ecological study. They explored the beach, which features small lagoons and marine organisms. The coast is made up of sandstone, shell, limestone, and clay beds. Students observed fish, crabs, sea urchins, and sea weeds. They also saw fishing boats with various species. The rocky shore was covered with marine algae and thorny plants



STUDENTS' ACHIEVEMENTS

- MS. J. Esther Mareen of II.M.Sc. Zoology stood III prize in the World Breast Feeding Awareness Week Quiz held on 3.8.2018.
- Ms.P. Kaviya Priya of II.M.Sc. Zoology was secured III prize in the World Breast Feeding Awareness Week Quiz held on 3.8.2018.
- Ms. M.Aarthi of II.M.Sc. Zoology bagged the first prize ZOOFEST – 2018-19 Feathers and Shell Collection held on 05-10-2018
- Sr. M.Velankanni of II.M.Sc. Zoology stood II prize ZOOFEST – 2018-19 Vegetable Carving held on 05-10-2018
- D. Nivetha of II.M.Sc. Zoology stood II prize ZOOFEST – 2018-19 Vegetable Carving held on 05-10-2018.
- Ms. A. Riya Michealin, R. Elakiya, R.Maria Sahaya Christika , A. Arockia Thersamani and J. Mary Vinosha Densiya of III.B.Sc., Zoology was secured I Prize in the inter department Choral Singing competition held on 28.02.2019.
- Ms. G. Santhiya Kumari of III.B.Sc., Zoology stood second prize in the Poster Painting held on 28.02.2019.

SPORTS

- Ms. K.Kiruba Thangam of I .B.Sc.,Zoology stood first prize in the inter university – Long Jump held on 18.06.2018.
- Ms. Ms. K.Kiruba Thangam of I .B.Sc.,Zoology as secured II prize in the inter university – Triple Jump held on 18.06.2018.
- Ms. T. Veera santhiya of I.B.Sc., Zoology bagged second prize in the inter university – Hand Ball held on 10.09.2018.
- Ms.K. Raj Priyadarshini. of I.B.Sc., Zoology stood Fourth prize in the inter university – Foot Ball held on 18.09.2018.
- Ms.T. Veera santhiya of I.B.Sc., Zoology stood First prize in the inter university – Vollyball held on 03.10.2018.

NCC

- Ms. E. Sobia of II.B.Sc., Zoology attended the CATC-cum-TSC(B)&(G) LAUNCH at NTA, Idayapatti, Madurai from 29-06- 2018 to 28-07-2018.
- Ms. E. Sobia of II.B.Sc., Zoology attended the CATC-cum-TSC (B)&(G) LAUNCH at NTA, Idayapatti, Madurai from 14-08-2018 to 23-08-2018.
- Ms. E. Sobia of II.B.Sc., Zoology attended the CATC-cum-TSC (B)&(G) LAUNCH at NTA, Idayapatti, Madurai from 15-09-2018 to 24-09-2018.
- Ms. E. Sobia of II.B.Sc., Zoology attended the CATC-cum-IGC RDC&(G) LAUNCH Camp at NTA, Idayapatti, Madurai from 28-09- 2018 to 07-10-2018.
- Ms. E. Sobia of II.B.Sc., Zoology attended the Inter Group Competition at KPR Institute of Technology, Coimbatore from 8- 10-2018 to 17 -10 – 2018

ACTIVITIES

SPOKEN ENGLISH VIVA

The Department of English conducted a Spoken English Viva-Voce examination for the first and second-year B.Sc.Zoology students on 27.03.2019 and 28.03.2019, to enhance their communication skills and English language proficiency

PROJECTS:

42 students from the III-year have completed 6 group projects, 13 students from II M.Sc have completed 13 individual projects and 2 scholars from M.Phil have completed 2 individual projects to demonstrating their research and problem-solving skills.

PASS PERCENTAGE

B.Sc – 100%
M.Sc – 90.91%
M.Phil – 100%

HIGHER EDUCATION

26 students have pursued higher education, reflecting the department's strong reputation, and commitment to student success.

PLACEMENT

4 students have been placed and working as PG Assistants, Assistant Professor, DTDC and Royal Enfield.