



**ST. XAVIER'S COLLEGE FOR WOMEN, ALUVA**  
REACCREDITED BY NAAC WITH A GRADE (CGPA 3.33)  
ISO 9001-2015 CERTIFIED

**DEPARTMENT OF ZOOLOGY**  
**ANNUAL REPORT**  
**2020-2021**

## ACTIVITIES OF ZOOLOGY DEPARTMENT 2020 - 2021

### EXPERT TALKS

- **Webinar on First Aid for Life**

The department organized a training and awareness session on First Aid for faculty members of the college by Dr Aswathykutty Madhu, Sheffield Hospital, UK on 04.07.2020.



- **Career guidance talk**

Departments of Zoology and Botany jointly organized a talk on **“Is Life Science a Good Career Choice?”** for final year students by Dr. Divya V. Nair, Assistant Professor, School of Life Sciences, Central University of Himachal Pradesh on 18.08.2020.

- **How to Read Scientific Literature, Introduction to MANAV- Human Atlas Project**

Department of Zoology in association with Research Promotion Council and MANAV gave an online training to the participants to extract and collate information from published literature by Dr. Dhara Lakhkar, Domain Expert, Science Communication & Public Engagement MANAV at IISER, Pune on 15.08.2020.

- **ZALS- Zoology Alumna Lecture Series**

A talk on the topic **“Nutrition and Health”** was organised to inculcate an awareness on balanced diet in maintaining good health by Ms. Prijantha Amina, Nutrition Advisor, ABBOTT Nutrition on 11.09.2020.



- **Academic week observation**

As part of the college academic week 'Academia 2021- ORACLE' a talk was organized by the department on '**Emerging and Re-emerging Infectious Diseases – Role of Ecology and Technology**' by Dr. Mohammed Hatha, Professor, Department of Marine Biology, Microbiology and Biochemistry, School of Marine Sciences, CUSAT, Ernakulam on 14.01.2021.



- **Patent Procedures in India**

Webinar was conducted on **Patent Procedures in India** by Shri: Bilal A. Nazeer, Research Officer, Inter University Centre for IPR studies, Cochin University of Science & Technology, Kochi. This talk was organized in association with Research Promotion Council, IEDC and Institution's Innovation Council on 02.03.2021.

- **Introduction to Copyright**

An online session was conducted on **Introduction to Copyright** by **Dr. Vishnu Sankar P**, Research Officer, Inter University Centre for IPR studies, Cochin University of Science & Technology, Kochi. This talk was organized in association with Research Promotion Council, IEDC and Institution's Innovation Council on 09.03.2021.



- **EcoTaxon- Collaborative E-Workshop**

**EcoTaxon** an e-Workshop, aimed to impart basic knowledge of ecology and taxonomy of local fauna was conducted as a collaborative initiative with Nirmala College Muvattupuzha. During this academic year, five online sessions were conducted as part of this program funded under DBT STAR Scheme.

Mangrove diversity & Ecosystem Services- Dr. Preethy CM, 15.08.2020

Step by Step Guide to Ecology Projects- Part 1- Dr. Anu Anto, Asst. Prof. in Zoology, St.xavier's College for Women, Aluva. 22.08.2020

Animals around us- An Ethological Approach- Gigi K. Joseph, Asst. Prof. in Zoology, Nirmala College Muvattupuzha, 19.09.2020

An Introduction to the World of Bees & Butterflies- Dr. Jobi Raj T. Asst. Prof. in Zoology, Government College, Kodenchery, 07.11.2020.

Identification of important crop pests and their natural enemies- Dr. Linda Louis, Asst. Prof. in Biochemistry, St.xavier's College for Women, Aluva. 28.11.2020

Introduction to the World of Beetles- Dr. Vinod K.V. Asst. Prof. in Zoology, Nirmala College Muvattupuzha, 22.05.2021



- **Marine Plankton Identification Workshop**

Dr. Vineetha Gopinath, CMFRI, Kochi gave an extensive lecture on **‘Plankton- A birds' eye view on the sampling techniques, analysis and identification of Marine Planktons** through online mode on 21.01.2021. This program was funded by DBT STAR Scheme



### **COMPETITION ORGANIZED**

- Zoology department conducted an **Inter School & College Videography, baking and quiz competition** as part of Wildlife week 2020 on the Theme- Wild in the Backyard on the first week of October,2020
- **Reconnect 2021**  
An online Alumni meet of the department was conducted on 02.01.2021.
- **Academia 2020-21 – INTERACT**  
Sandra Sebastian – III BSc Zoology Model I delivered a lecture on **‘Environmental effects of COVID-19 and potential strategies for its sustainability’** and Varna Sreekumar – III BSc Zoology Model II on **‘Nuture our Nature’** on theme ‘Health@habitat’ as part of Academia 2021. Sandra Sebastian was judged as the best presenter for the power point competition.- Jan 2021
- **Induction Program for first year students**  
The department conducted a two-day Induction Program for first year B.Sc. Zoology Model 1 and 2 students to inculcate a holistic understanding of the B.Sc. Zoology program of the college on 12<sup>th</sup> and 13<sup>th</sup> November 2020.
- **Campus Bird Count** was conducted in the college campus as part of Greater Backyard Bird Count from Feb 12-15, 2021. The data of bird counts were uploaded to e-bird a citizen-based bird observation network in the biological sciences.

## TRAINING SESSIONS

- **Bridge Course in Instrumentation & Lab Techniques in Zoology**

A 20-hour bridge course was provided for first year B.Sc. Zoology Model 1 and 2 students on basic Instrumentation and Field Techniques in Zoology, Laboratory safety rules, dissections and scientific drawings and Citizen Science Programme. Nov, 2020

- **Short term course in Bioinformatics**

A one-week course in Bioinformatics was organized by the Departments of Botany & Zoology for final year students under DBT STAR Scheme. Experts from U.C. College Aluva and CMS College Kottayam lead the sessions. 07.12.2020 to 13.12.2020

- **Online Internship in Basic Techniques in Molecular Biology Techniques**

A 15-day online internship program in theoretical and practical aspects of molecular biology was conducted for students of Zoology and Botany in association with MakeIntern team from 19.02.2021 to 05.03.2021. 39 students participated in the internship program funded by DBT STAR Scheme.

- **Virtual workshop**

Two-day virtual workshop on automated techniques in microbiology was conducted in association with Pushpagiri Institute of Medical Sciences, Thiruvalla on 21<sup>st</sup> and 22<sup>nd</sup> October 2020 funded under DBT STAR Scheme.

## EXTENSION ACTIVITIES

- **Xaverian Zoology Outreach Program**

Four online sessions were conducted for the public under the title **Arogya Jalakam** to create awareness on Water and food borne diseases and reemerging diseases and its prevention

Basic first aid measures- Dr. Seema K, 14-10-2020

Water Borne diseases and its prevention- Dr. Revathy S. 14.08.2020

Food Borne diseases and its prevention- Dr. Revathy S. 21.08.2020

Re-emerging diseases and its prevention- Dr. Revathy S. 18.09.2020

## PUBLICATIONS

- **Newsletter-** Department newsletter *Nisarga* titled **The new isolation** was released. It was based on the COVID 19 Pandemic. March 2021

## ACHIEVEMENTS

- **Meera Pradeep, Namitha N and Indraja Rajan** -bagged First, second and third Position with A+ for the M.G. University BSc Zoology Model II examination held in March 2020.
- **Karan S.,** III B.Sc. Zoology Model 2 received Kerala Biodiversity Board appreciation for her contribution towards Photo inventory campaign of homestead Biodiversity. June 2020
- **Akshara Madhu,** III B.Sc. Zoology Model 1 won Excelsior Award (First) & Best Presentation, National Online Research Project Presentation for the UG project entitled “Study on Biodiversity of Odonate species of Veliyathunadu, Aluva, organised by Kerala Sastra Parishad & St. Joseph College, Alappuzha. Aug 18-24,2021
- **Fathimathul Saffrin, Hamna Binith, Galdvina Joby, Fathima AS. and Dr. Revathy.S** (Mentor) won first prize for the UPCYCLE: Design Challenge Contest organized by Sambarak Mitra and Textile Value Chain. Jan, 2021
- **K.R. Meera Kum Kum and Megha Maria Lal** won first and third prize respectively in the Jumble in the Jungle competition conducted by Zoological Society of Kerala. Jan 26th , 2021
- **Megha Maria Lal** I B.Sc. Zoology Model 2 won first prize in the 3-minute presentation on the topic GIFT Tilapia organized by Association on fisheries graduates as part of Fisheries week celebration 2020.. 20th November 2020
- Sandra Sebastian- III B.sc. Zoology M1. Best Presenter award for her powerpoint presentation Environmental effects of COVID-19 and potential strategies for its sustainability’ conducted as part of INTERACT program of Academia 2020. March 2021.
- **Green Innovation Fund:** The idea **Eco-Innovation** under the theme Waste Management & Alternative materials submitted by Zoology Department was shortlisted for the Level 1 evaluation for the **Green Innovation Fund** by Kerala Startup Mission. Feb 2020
- **National Innovation Contest:** A scaly deal- An alternative to single use banned plastic from the Department of Zoology has been shortlisted for the second level for the National Innovation Contest by Ministry of Education's Innovation Cell. Feb 2020.

- **Dr. Revathy. S** won third prize for Essay and National Article Writing Competition 2020 organised by ENVIS, JNU, New Delhi and ENVIS RP, Amrita Viswa Vidyapeetham, Coimbatore and on the topic Biological Invasion in your locality. December 2020
- **Dr.Revathy.S**, won Indo Asian- Aristotle Distinguished Women Zoologist Award, REd Talks Daily International on the Eve of World Science Day 2020. November 2020.
- **Dr. Revathy.S** First prize & cash award for the Egg challenge: Egg Eased Demonstration Contest and third prize for research paper competition organized by Kerala Veterinary and Animal Sciences University, Mannuthy on World Egg Day Celebrations,2020. November 2020.
- **Dr. Anu Anto**, Best e-Poster under the theme Biodiversity and Climate Change presented at India International Science Festival 2020 Biodiversity Conclave organized by Ministry of Science and Technology, India on 23-24 December 2020.