



ST. XAVIER'S COLLEGE FOR WOMEN, ALUVA
REACCREDITED BY NAAC WITH A GRADE (CGPA 3.33)

DEPARTMENT OF ZOOLOGY
ANNUAL REPORT
2018-2019

ACTIVITIES OF ZOOLOGY ASSOCIATION 2018-19

ZOOLOGY ASSOCIATION INAUGURATION

Zoology Association was inaugurated on 15.11.18 by Smt. Rema K Nair, Assistant Director of Agriculture, Aluva. She gave a talk on **Impact of flood on soil and agriculture**.



Zoology Association inauguration 2018-19 by Smt. Rema K Nair

NEWSLETTER

Department newsletter *Nisarga* on the theme *Microcosmia* was released during this academic year. It gives us a glimpse of the plethora of microorganisms and ways to explore them with foldscope, the paper microscope.



Foldscope



Newsletter- “Microcosmia” release

COLLABORATION

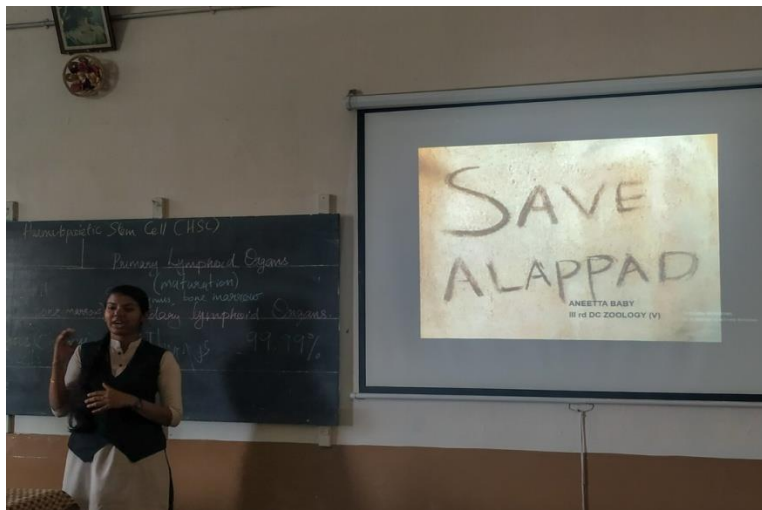
Institutional collaboration was initiated with **Department of Herbal Technology, ADP College, Nagaon, Assam**. This MoA (Institutional) was signed with Department of Biotechnology (DBT), New Delhi as a part of DBT Foldscope Project.

ACADEMIC WEEK OBSERVATION

As part of the college academic week ‘Academia 2019’ a talk was organized by the department on ‘Adolescent Health Issues’ by Dr. R.Santha Kumary, Assistant Director of Health (Rtd.) on 1st February 2019. Five students gave lectures during the Student Lecture Series. Exhibits on the theme ‘Wonders of the Animal World’ were displayed as a part of ‘Xav Exhibito’, 2019.



Xav- Exhibito wonders of animal world



Academia 2018-19 student lecture

FLOOD RELATED ACTIVITIES

RELIEF ACTIVITIES

32% of the students of the Department were severely hit by the recent floods. Students and faculty of the department extended humanitarian relief to the affected families. An amount of forty thousand rupees was collected from well wishers and handed over to severely affected students. Students contributed Rs. 6,200/- to the flood relief activities of M.G. University. Department also collected bedsheets, uniforms, notebooks, bags and other consumables from well wishers and alumni and distributed to the flood affected students.

FLOOD IMPACT ASSESSMENT

Two faculty members and five student volunteers of our department along with Biodiversity Committee members of Aluva Municipality took part in the **Rapid Assessment of Biodiversity**

loss due to floods. An assessment report was prepared highlighting the damage caused to the ecosystem during the recent floods. (22nd to 26th October, 2018). Report of the survey was handed over to Kerala Biodiversity Board.



Post Flood Rapid Biodiversity Assessment Survey



Post Flood Biodiversity Loss Assessment

INTERACTIVE SESSIONS

Workshop on Foldscope as an Educational Tool

Department organized a one-day workshop on “Foldscope as an Educational Tool” for nine schools in and around Aluva on 31.10.18. The objective of the workshop was to hone scientific temper of students and deliberate on how the foldscope can be used effectively as an educational tool. The workshop involved hands-on-training to school students and teachers in assembling and use of foldscope in observing various specimens. An orientation program on the use and assembling of foldscope was also conducted for the undergraduates of BSc. Zoology program on October 9th 2018.



Workshop on Foldscope for BSc Zoology Students



Participants of Workshop on Foldscope for School Students



Workshop on Foldscope for School Students

RESEARCH INSTITUTE VISIT

Ten students of the department visited CMFRI on its open day on 05th February, 2019. They visited various laboratories at the institute and interacted with scientists

EXPERT TALKS

Talk on ebird- Citizen Science Programme

Birding expert Mr. Premchand R gave a session on bird identification and also familiarized the students to identify birds by their calls on Jan 4th, 2019. Students were briefed on how to make effective use of citizen Science platform ebird.org.



Session on ebird by Premchand

Challenges and opportunities in Higher Education and Research

Department of Zoology along with Department of Biosciences coordinated the inauguration of activities of Research Promotion council for this academic year on June 8th,2019 by **Dr. Sangeetha Mohan**, Senior Scientist, Sci Genome Labs (Pvt. Ltd.) Kakkanad. She delivered a talk on “Challenges and opportunities in Higher Education and Research”.

World Environment day celebration 2018

An awareness talk was given to the students of the Zoology department on 18th June 2018. Dr. Seema K, Head of the Department spoke on the theme “Beat Plastic Pollution”. The presentation and movie clippings provided by WWF-India Kerala State Office were shown to students. The event was organized by the Zoology Club -Nisarga.



Talk on World Environment day 2018

Alumni Class

A session on “Balanced diet and meal plan” by Mrs. Nimja K J, nutritionist and an alumna of our college on 18th January 2019.



Alumni Talk by Mrs. Nimja K J

Career Guidance Class

Department organised a career guidance class for final year B Sc Zoology and Botany students on 19.09.18. **Sri. Ravi Kiran, Director, Research World, Thevara** was the resource person.



Career Guidance Class by Sri. Ravi Kiran, Director, Research World

TRAINING PROGRAMMES

Training Programme at Union Christian College, Aluva

A two-day training programme in Molecular Biology laboratory techniques was conducted at Molecular biology Laboratory, U.C. College, Aluva. Dr. Sareen Sarah John and Ms. Asha M P, briefed the students about DNA isolation, Gel electrophoresis and PCR technique.



Training Session on Molecular Biology

Meenachil Odonate Survey

Three of our students, participated in the Post flood **Meenachil Odonate Survey** organised by Tropical Institute of Ecological Sciences (TIES), Ecological Research Campus, Kottayam on 3rd and 4th November 2018.

Flood Risk Management Training

Four students participated in the flood risk Management Training conducted from Jan 4th- 6th, 2019 at Sree Sankara College, Kalady sponsored by KSCSTE.

CAMPUS BIRD COUNT

Campus Bird Count was conducted in the college campus as part of Greater Backyard Bird Count from Feb 15-18, 2019. The data of bird counts were uploaded to e-bird a citizen-based bird observation network in the biological sciences.

ADD ON COURSE

An Add on Course on “Nutrition” was started from this academic year. 14 students enrolled in the course.

BRIDGE COURSE

A twenty-hour Bridge Course on “Instrumentation and Field techniques in Zoology” was offered for First Year Model I and II students.

STUDY TOUR

Final Year B.Sc. Zoology Model 1 – 34 students accompanied by two Teachers participated in the Nature camp at Salim Ali Bird sanctuary, Thattekad, funded by Kerala forests and Wildlife Department, Kerala from 09.01.19 to 11.01.19. Students documented birds of the habitat with the help of expert guidance and checklist of the bird data was uploaded to citizen science website.



Nature Camp at Salim Ali Bird Sanctuary Thattekad

Final year B.Sc Zoology Model II- 24 Students and two Teachers of the department visited Mysore, Kudagu, Halibedu and Belur from 16.12.18 to 19.12.18. As part of community service initiative they contributed an amount of Rs.2000/- to the Welfare office of Tibetans during the study tour.



Study Tour to Mysore, Coorg, Belur

STUDENT ACHIEVEMENTS

Sreelakshmi K.B-bagged First Position with A+ for the MG University BSc Zoology Model II examination held in March 2018.



Swathy J – I B.Sc. Zoology Model I- One among the Five Golden girls in the college level competition sponsored by Malabar Gold and Times of India

Aswathy Anil, Neetha P. S, Aneetta Baby- III B.Sc. Zoology Model II-Qualified NPTEL Online Certificate Course on Biochemistry

Sruthy Vasu- III B.Sc. Zoology Model I- IIIrd Prize for UG project Millennium Zoology Award, 2018 instituted by St. Aloysius College, Thrissur.

Sandra M A- II BSc Zoology Model 1- 3rd Prize in painting competition conducted by Bharata Mata College, Thrikkakara in connection with World Environment Day 2018.

Sr. Liya Pereira-II BSc Zoology Model 1- Won 2nd Prize in poster designing competition conducted by Zoology Dept & Bhoomithrasena Club of SreeSankaraCollege, Kalady in connection with World Environment Day 2018.

Aamina Ismail-II B.Sc. Zoology Model I- First Prize (Just a minute spelling competition) in Zoofestorganised by Zoological society of Kerala on 9.8.2018 at St Peter's College, Kolenchery

Anina Vincent- II B.Sc. Zoology Model I - Third Prize (Best Word) in Zoofestorganised by Zoological society of Kerala on 9.8.2018 at St Peter's College, Kolenchery

Niranjana K S- III B.Sc. Zoology Model 1- 3rd Prize in recitation competition organised by College Library

Niranjana K S- III B.Sc. Zoology Model 1- 1st Prize in pencil drawing competition (Portrait) conducted by Mathematics department as a part of KSCSTE sponsored National Mathematics Day

Reshma Valsan and Meenu K M- III B.Sc. Zoology Model II- Third Prize for Powerpoint Presentation Competition held at Sacred Heart college, Thevara as part of GeneSys2K18-