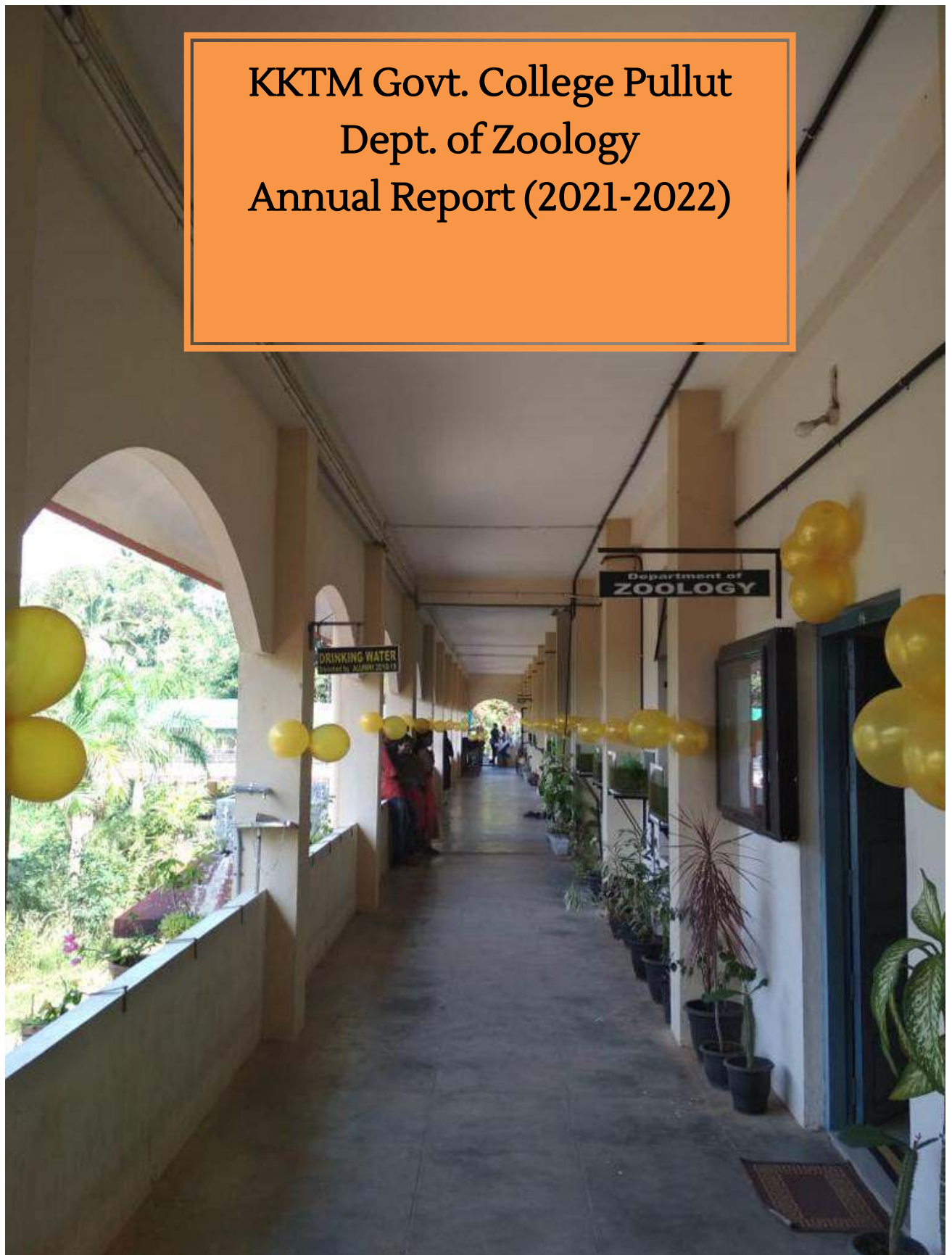


**KKTM Govt. College Pullut
Dept. of Zoology
Annual Report (2021-2022)**



DEPARTMENT OF ZOOLOGY
KKTM GOVERNMENT COLLEGE PULLUT
REPORT ON THE ACADEMIC YEAR 2021-2022

The COVID-19 pandemic which had its tight grip during the beginning of academic year 2021-22 had a significant impact on education worldwide, which forced us to continue online teaching in colleges and universities. As the pandemic spread and social distancing measures were implemented to curb the virus's transmission, educational institutions had to adapt quickly to ensure the safety of students, faculty, and staff. To continue delivering education while minimizing physical interactions, colleges and universities transitioned from traditional in-person classroom teaching to online teaching and distance learning. This shift involved using various digital platforms, video conferencing tools, learning management systems, and online resources to facilitate remote learning.

Online Environment day celebration

On June 5, 2021, the Department of Zoology, KKTM Govt. College, Pullut celebrated World Environment Day virtually due to the ongoing pandemic and the shift to online classes. The event aimed to raise awareness about environmental conservation and sustainability while fostering a sense of community among students and faculty members.

Participants:

Students and faculty members of the Department of Zoology

Event organizer: Dr. Shaji E.M., Associate Professor & HoD

Video editing: Midhun C. Vinod, Second B.Sc. Student

Event Details:

Participants engaged in a virtual tree planting activity, symbolizing their commitment to environmental protection. The event allowed individuals to plant trees in their own spaces, such as backyards or community gardens, reflecting a

shared effort towards a greener future. Video documentation captured the tree planting process and participants' messages about environmental conservation. The collected footage highlighted the unity and determination of the participants, despite physical distances. Students and faculty members recorded messages expressing their dedication to preserving the environment and their roles in addressing global environmental challenges. These messages showcased the diverse perspectives within the department's community. Midhun C. Vinod, a Second B.Sc. Student, contributed his video editing skills to create a coherent and impactful final video. His work harmoniously blended the different video clips, effectively conveying the essence of the event.

Event Impact:

The Department of Zoology's World Environment Day observance demonstrated the resilience of the academic community during the pandemic. The virtual event emphasized that environmental consciousness knows no boundaries and can thrive even amidst challenges. Participants' collective efforts, combined with Midhun C. Vinod's editing, enriched the event's impact. The event highlighted the participants' commitment to environmental awareness and conservation.

Acknowledgments:

The success of the event was attributed to the enthusiastic participation of students and faculty. Special recognition was given to Midhun C. Vinod for his diligent video editing, which elevated the event's visual representation. The event organizers and all participants were acknowledged for their dedication to environmental responsibility.

Induction Programme for first year students on September 28, 2021

Prior to the commencement of classes, first-year students are given an induction class on the relevance and scope of the subject. The classes were handled by the Staff, Department of Zoology. The students were also informed about the changes which are incorporated by the University in their Curriculum. 28 students who got

admitted to B.sc Zoology programme in 2021 participated in the online programme invited through Google meet platform.

Webinars

A series of webinars were conducted by the Dept. of Zoology, which were open to students and faculty from colleges, all across Kerala. Five webinars conducted were:

1. Webinar on “Interpretation of biological data with bioinformatics”

The Department organized a webinar on “Interpretation of biological data with bioinformatics Interpretation of biological data with bioinformatics’ on 22-09-2021, from 2.00 to 4.00 PM. The programme was inaugurated by Dr. Nesy E. A., Principal, KKTm Govt. College, Pullut. Dr. Seema Menon, Assistant Professor, Dept. of Zoology co-ordinated the programme. Dr. Shaji E M, Head and Assistant Professor of the department gave away the felicitations. Mrs. Prisho Mariam Paul, M.Phil. Bioinformatics, Assistant Professor, Department of Biotechnology, CMS College, Kottayam was the resource person. Her talk focused on the application of tools of computation and analysis to the capture and interpretation of biological data. Bioinformatics is essential for management of data in modern biology and medicine. She also described the main tools of the bioinformatician and discussed how they are being used to interpret biological data and to further understand diseases. The potential clinical applications of these data in drug discovery and development were also discussed. There were 177 delegates attending the webinar from various higher educational institutions of Kerala. Mrs. Soumya K C., Assistant Professor of the department, proposed the vote of thanks.

2. Wetland day Celebration 2021-22

The Department of Zoology at KKTm Govt. College Pullut organized a seminar on World Wetland Day on February 12, 2022, in collaboration with the Bhoomitra Club and the Department of Zoology. The event aimed to raise awareness about the

importance of wetland conservation. The program was initiated with a prayer led by Sandra Bose, a 3rd year B.Sc. Zoology student.

Dr. Shaji E M, the Head of the Department of Zoology, presided over the event, bringing an air of authority and expertise. The function was inaugurated by Dr. Nesy E A, the Principal of KKTU Govt. College, Pullut, who lent her support to the cause. Ms. Soumya K C, an Assistant Professor in the Zoology Department and the coordinator of the Bhoomitra Club, warmly welcomed all the attendees, setting a positive tone for the seminar.

A talk on the topic "The Need For Conservation Of Our Wetlands" was delivered by Ms. Ardra Appukuttan, a Research Scholar at CUSAT. Her informative and engaging presentation shed light on the significance of preserving wetlands and their ecological importance. Adding an academic touch to the event, Ms. Sathi P.H, the Head of the Department of Mathematics and the Coordinator of IQAC, felicitated the gathering. Her presence and acknowledgment underscored the interdisciplinary nature of environmental conservation.

The seminar saw the participation of a diverse group of 62 students from various schools across Kerala, signifying the interest and concern of the youth for environmental matters.

Concluding the event, Dr. Seema Menon, an Assistant Professor in the Zoology Department, extended her gratitude to all the participants and contributors. Her vote of thanks encapsulated the collaborative effort and the spirit of shared responsibility that the event aimed to promote.

The seminar on World Wetland Day 2022, organized by the Department of Zoology in partnership with the Bhoomitra Club and the Department of Zoology, was an informative and enlightening event. The gathering of students, faculty, and experts showcased a collective commitment to safeguarding our wetlands for a sustainable future.

Internal Examinations

Being an integral part of the evaluation of CUCBCSS, the department conducted centralized online internal examinations, ensuring enough coverage of the content, time, number of questions, and maximum marks as set by the University. An internal examination committee is already in operation; and the department strictly adheres to the directions of the committee. Internal marks are distributed to the learners as per their performance. All students of the department take the benefit of internal examinations.

Charitable activities

Faculty of the department cooperated in helping the COVID-19 students. Besides the faculty members contributed personally to charity activities like SOS - Delhi based Charity firm, helping to adopt and educate abandoned children. Assistance was also given to some local charity funds when the concerned persons approached the department.

Maintenance of aquarium

About 12 aquariums are maintained in the department and students are given training on setting up an aquarium. Through this, the department aims to open a platform for developing a vocation by acquainting them with various aspects of aquarium management. Since the students are maintaining the aquariums, it gives them an opportunity to get acquainted themselves with various techniques related to it for themselves. Every year nearly 30 students are trained in this way.

Tutorial programmes

Tutorial programmes are routinely carried out by the department. For these concerned tutors select the needy students from their classes and discuss selected topics and provide study materials including model questions, condensed notes, mnemonics for essay type questions, etc. The programme is usually charted to half an hour following the class hours. Supervised study and peer teaching are also

carried out to improve the efficacy of this programme. All students of the department received the benefit of this programme.

Class PTA meetings

A regular rapport is maintained with the parents through PTA meetings. Meetings were convened once in every semester, generally after internal examinations. Both academic matters and others related to general discipline and improvement of the students were discussed in detail and suggestions from parents were also sought. Many of the parents expressed their concern about the diminishing result percentage. The meetings were conducted online.

CMV & CV camps

Department of Zoology conducted Centrally Monitored Valuation camps of University of Calicut for B.Sc. Zoology, Aquaculture & Human physiology Core and Complementary papers during this academic year.

Study tour

During 2021-2022, a study tour was conducted for three days to an ecologically significant hill station Ramakkalmedu, Idukki district. The principal granted permission for this study tour as per Order no. A2781/2022/KKTM GC Kodungallur, Dated 22.03.202. All final year B. Sc. Students (27 girls and 3 Boys) participated in this programme and the students were accompanied by Dr. Shaji E. M. (Associate Professor, Dept. of Zoology) and Ms. Soumya K.C. (Assistant Professor, Dept. of Zoology).

The team started the journey by 1 pm on 23.03.2022 and reached Ramakkalmedu by 7 pm. The team stayed at Hill view hotel, Ramakkalmedu for the night. On 24.03.2022 after breakfast, the team visited different ecologically significant hill stations around Ramakkalmedu. Students got

an opportunity to study the flora and ecosystems associated with hilly regions of the area. The team members took rest in the same hotel on the night of that day. On the next day, the team started the return journey at 8 am and reached the college campus around 2 pm.

Inauguration of Butterfly Garden Project

KKTM Govt. College Pullut, known for its commitment to environmental initiatives, inaugurated the first phase of its Butterfly Garden Project called "Shalabhodyaanam" on April 6, 2022. The event was graced by the presence of Dr. E. A Nesy, Principal of KKTM Govt. College Pullut, who presided over the ceremony.

The esteemed President of KKTM SEEDS, Mr. U K Vishwanathan, played a vital role in the proceedings. The event commenced with a warm welcome by Adv. Ramla T S, Secretary of SEEDS, followed by felicitations from Dr. Shaji E.M., HOD of Zoology Department. Adding to the event's charm was the presence of a collection of rare and attractive plant species, that were meticulously gathered during the butterfly garden's establishment. These unique plants were selected to attract various species of butterflies, thus enriching the ecosystem.

Mr. Manoj Radhakrishnan, the renowned author of "Pala Kaalangalil Chila Manushyar" (Some Humans in Many Ages), presented a copy of his book to the college library. His gesture encapsulated the symbiotic relationship between literature and the environment. The enthusiastic support of SEEDS was further exemplified as Mr. Manoj Radhakrishnan extended his contribution by purchasing books from the college library, symbolizing SEEDS' appreciation for knowledge and learning. In recognition of SEEDS' contribution, Mr. Manoj Radhakrishnan was presented with a memento by the Principal, Dr. E. A. Nesy, representing the college's gratitude for their unwavering support.

Mr. Prasad N K, Ms. Soumya K C, Assistant Professors of the college, Ms. Unni Pattali, and Mr. Manoj Ettavankadu felicitated over the function. These esteemed

individuals, along with various SEEDS members, including Adv. Bhanuprakash, Mr. E K Taraanath, Mr. C D Bulhar, Mr. C S Sreenivas, Ms. Sunitha Haridas, Mr. K K Priyesh, Dr. Antony Dain, Dr. V K Subaidaa, Ms. Leena Prathapan, Mr. Vineeth Rajan, and Adv. Siju Parekkadan, significantly contributed to the success of the event.



Webinar on "Interpretation of Biological data with Bioinformatics" (2021-09-22 at 01:46 GMT-7)

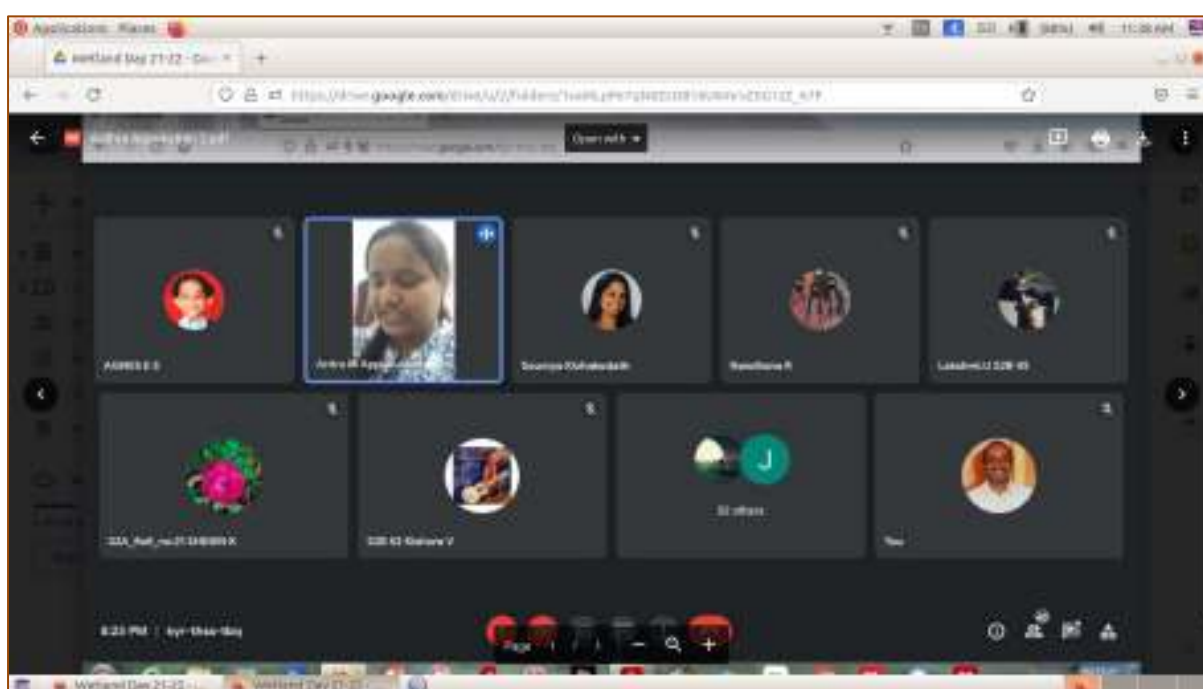
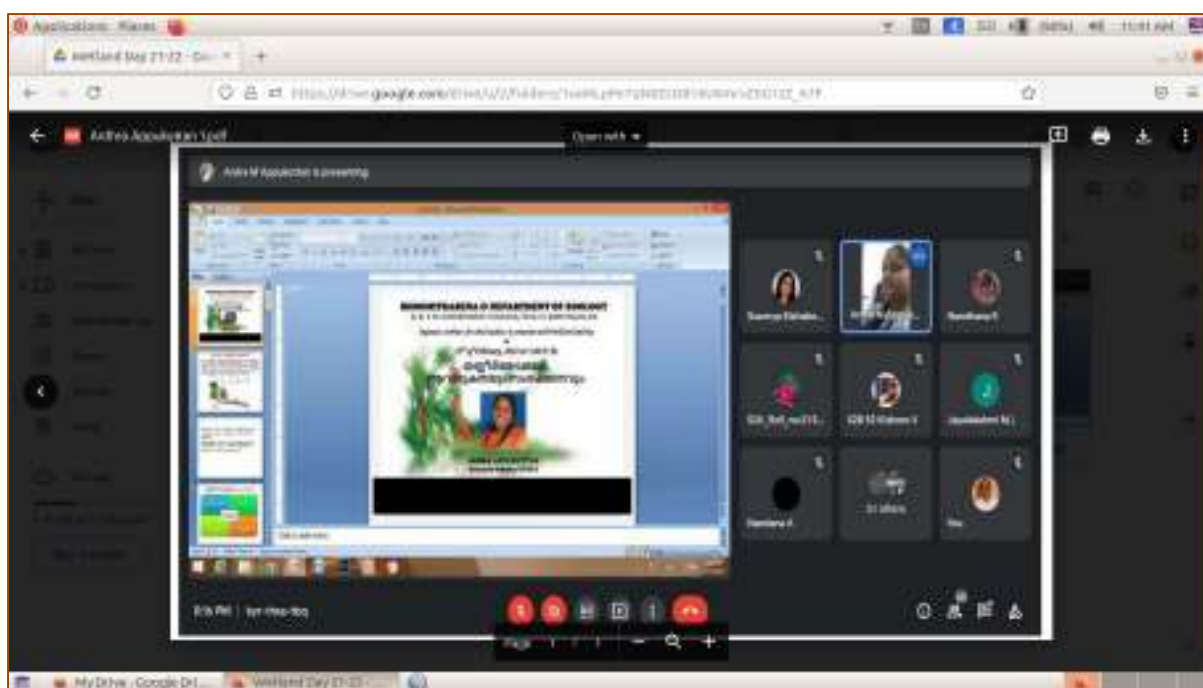
Phenetics Methods

- Distance based methods.
- It looks at the number changes between each pair in a group of sequences.
- Tree:- **Phenogram**
- Calculation of **distance matrix**.

	A	B	C	D	E
A	0	0.10	0.20	0.34	0.38
B	0.10	0	0.24	0.36	0.40
C	0.20	0.24	0	0.32	0.34
D	0.34	0.36	0.32	0	0.20
E	0.38	0.40	0.34	0.20	0

1:37:21

Video link to the Webinar: https://drive.google.com/file/d/1DZ-Az2W_9zfNjvh7hBrT6fCmlClyfSzJ/view?usp=sharing



Dept. of Zoology
Study Tour - 2021-2022



Inauguration of the Butterfly park