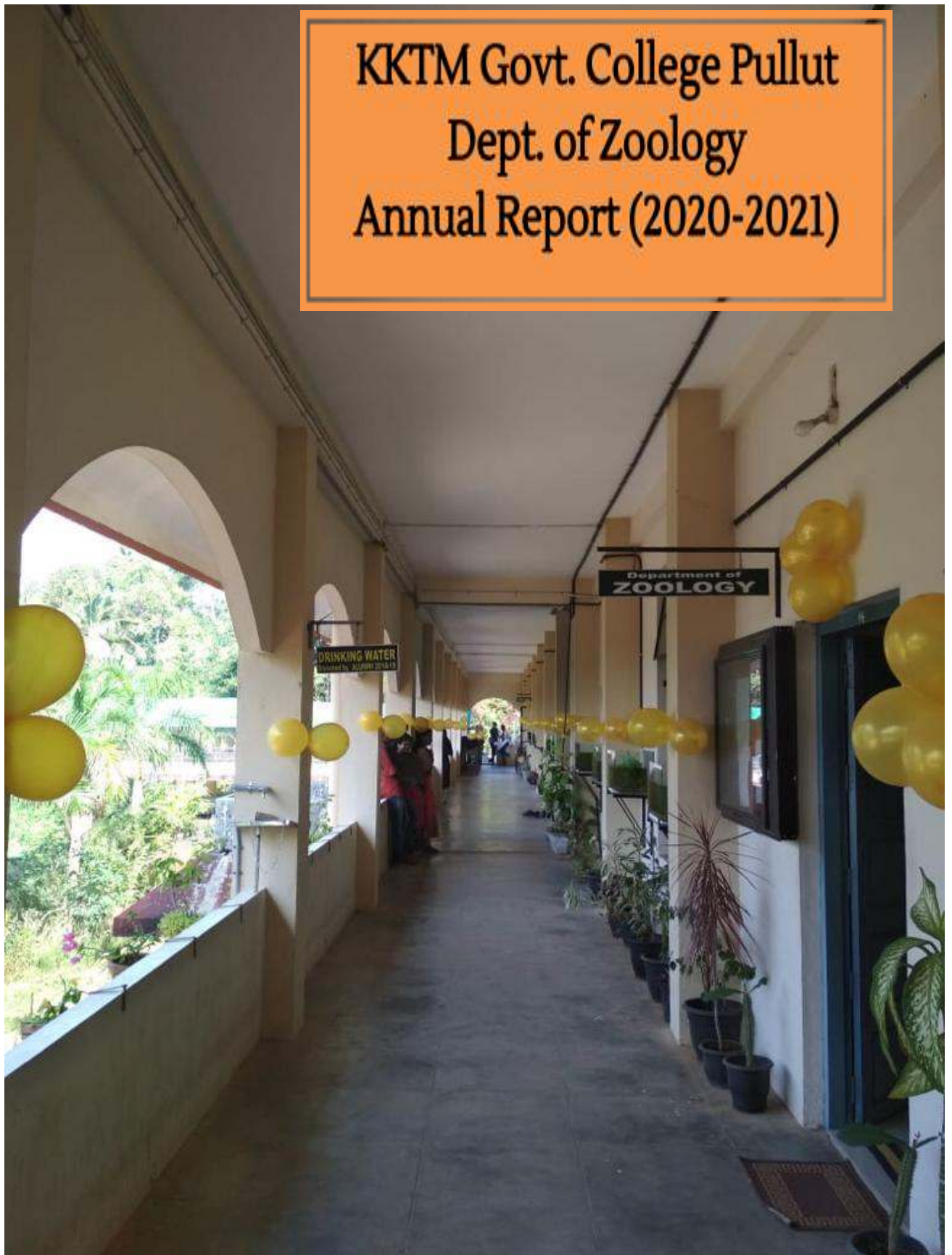


**KKTM Govt. College Pullut
Dept. of Zoology
Annual Report (2020-2021)**



DEPARTMENT OF ZOOLOGY
KKTM GOVERNMENT COLLEGE PULLUT
REPORT ON THE ACADEMIC YEAR 2020-2021

The COVID-19 pandemic which had its tight grip during the academic year 2020-21 had a significant impact on education worldwide, including the conversion of classroom teaching to 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.

Making use of the possibilities of online learning, the Dept. of Zoology managed to conduct a handful of Webinars, Online quizzes and awareness talks.

Induction Programme for first year students on October 30, 2020

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. 35 students who got admitted to B.sc Zoology programme in 2020 participated in the online programme invited through Google meet platform.

Jagratha- awareness quiz programme from 27-04-2020 to 28-06-2020

In order to make the students analyze their awareness about COVID-19, an online awareness quiz was conducted by the Department, using Google form, and the same was circulated among colleges across various parts of Kerala through

Whatsapp groups and email. The forms were in circulation from 27-04-2020 to 28-06-2020. A total of 551 participants responded to the programme. An E-certificate was issued to those who secured more than 50% of marks.

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 “The good/bad cholesterol and cardiovascular diseases”

The Department organized a webinar on “The good/bad cholesterol and cardiovascular diseases”, on the 26th of August, 2020, 2:00 pm. The programme was inaugurated by Dr. Nesy E. A., Principal, KKTU Govt. College, Pullut. Dr. Shaji E. M., HoD, Dept. of Zoology co-ordinated the programme. Mr. Prasad N. K., Assistant Professor of the department gave away the felicitations. Dr. Indu M S, Assistant Professor, Vimala College (Autonomous), Thrissur, was the resource person. Her talk focused on the different types of cholesterol and their physiological impacts in the human body, especially, the cardiovascular system. There were 177 delegates attending the webinar from various higher educational institutions of Kerala. Mr. Shihabudeen A. S., Assistant Professor of the department, proposed the vote of thanks.

2. Webinar on “ Young Women”- Agents of change for a healthy nation’

The Department Zoology, KKTU Govt. College, Pullut, Thrissur organised a webinar on ‘Young women- Agents of change for a healthy nation’ on 22nd of September 2020, 2.00 pm. The programme was inaugurated by Dr. Nesy. E. A, Principal. Dr. Shaji.E.M, HOD, Department of Zoology coordinated the programme. Mr. Prasad. N. K, Assistant Professor of the Department welcomed the gathering. Ms. Betty Thomas (Assistant professor of Vimala college Thrissur) was the resource person. She gave away a detailed description of how young women can contribute to a healthy nation. 88 members (including staff,

Students, research scholars from both inside the college and other institutions) attended. Mrs.Soumya. K. C, Assistant Professor of the department delivered the vote of thanks.

3. Webinar on "Cardinal techniques in drug research"

The Department of Zoology, KKTU Govt. College, Pullut, Thrissur organized a National webinar on "Cardinal Techniques in Drug Research" on 9th of October, 2020, 2pm. The programme was inaugurated by Dr. Nesy E.A. , Principal, KKTU Govt. College, Pullut. Mr. Shaji E.M. , HoD, Dept. of Zoology co-ordinated the programme. Mr. Prasad N.K., Assistant Professor of the department welcomed the gathering. Dr.Rajesh Ramachandran, Director ,Biogenix Research Centre, Trivandrum, was the resource person. He gave away a detailed description on the main objectives of cardinal tools of drug research and different aspects of it. 305 members (including students and research scholars from both inside the college and other institutions) attended the webinar. Dr. Seema Menon, Assistant Professor of the department proposed the vote of thanks.

4. Webinar on "Healthy food habits through Ayurveda"

The Department organized a webinar on "The good/bad cholesterol and cardiovascular diseases", on the 15th of October, 2020, 2:00 pm. The programme was inaugurated by Dr. Nesy E. A., Principal, KKTU 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. Dr. Rajmohan V, Assistant Professor in R and B, Govt. Ayurveda College, Kannur, and State Co-ordinator, State Ayurveda COVID-19 Response Cell, Department of Ayush, Government of Kerala was the resource person. His talk focused on choosing foods according to our constitution, paying attention to food and eating as per our capacity, which are some of the Ayurvedic practices that could bring about a great deal of change in our overall well-being.

5. Webinar on “Biodiversity conservation and role of local self governments”

The Department of Zoology, KKTU Govt. College, Pullut, Thrissur organized a webinar on “Biodiversity conservation and role of local self governments.”, on 28th November, 2020, 2:00 pm. The programme was inaugurated by Dr. Nesy E. A., Principal, KKTU Govt. College, Pullut. Dr. Seema Menon, Assistant professor, Dept. of Zoology co-ordinated the programme. Dr. Shaji E. M., Head of the Department of Zoology welcomed the gathering. Dr. Akhila S Nair, district coordinator (Trivandrum), Kerala State Biodiversity Board, was the resource person. He gave away a detailed description on the importance of biodiversity and measures to conserve it. 77 members (including students and research scholars from both inside the college and other institutions attended the webinar). N. K. Prasad, Assistant Professor of the Department, proposed the vote of thanks.

Path of Glory

“Path of Glory” was an online awareness programme organized by the Dept. of Zoology, KKTU Govt. College, Pullut, Thrissur conducted with the aim of introducing research avenues to students and inculcating research aptitude in them. The eminent resource persons handling the series were from recognised research institutes both inside and outside the country, the highlight being that they are alumni of the Department. The programme was conducted as a series comprising four talks.

Talk 1- By Nidish P.S., PhD student, Department of Molecular Sensory System, Centre of Advanced European Studies and Research, An associate of Max Planck Society, Bonn (Alumnus 2007-2010 BSc Zoology)

Talk 2- By Dr. Rajeevan Narayanan Therpurakkal, Marie-Curie Fellow, Dept. of Physiology, Anatomy and Genetics, University of Oxford, (Alumnus 1994-1997 BSc Zoology)

Talk 3- By Dr. E A Jayson, Dept. of Wildlife Biology, Kerala Forest Research Institute

Peechi, Thrissur, Kerala, (Alumnus 1975-1978 BSc Zoology)

Talk 4- By r. Achuthan C Raghavamenon, Dept. of Biochemistry, Amala Cancer Research Centre, Thrissur, Kerala, (Alumnus 1985-1988 BSc Zoology)

Corona Awareness Campaign

The Department of Zoology issued an e-pamphlet on 12th September 2020 create awareness on various aspects of COVID-19 covering the nature of virus, chances of infection, prophylactic measures etc.

Fresher's day celebration - (23.10.2020)

To welcome the newly joined members of the Zoology family, fresher's day was organized online. The programme was inaugurated by Mr. Shaji E. M. (HoD, Dept. of Zoology) and was felicitated over by Mr. Prasad N. K. Ms. Soumya K. C and Mrs. XSeema Menon. The events were planned and executed by Second and third year degree students. Renditions of songs and instrumental music were arranged for the newcomers and they cooperated with them wholeheartedly. The celebration witnessed the enthusiastic participation of 80 students of the Department of Zoology.

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.

Extension programmes

A faculty of the department, Dr. Seema Menon served as a Resource person in an online awareness talk conducted by GHSS, Peringome, Kannur. She delivered a talk on “An overview of the biological concepts behind COVID-19” for the Higher secondary students. A total number of 75 Higher secondary school students were benefited by the class.

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.

Bimonthly magazine – ‘Zoion’

The department released a bimonthly magazine ‘Zoion’ which includes articles written by students pertaining to various biological issues and topics and other activities organized by the Department. The beneficiaries of this initiative include the entire faculty and students of K K T M Government College.

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.

Participation of Faculties in Webinars

Faculty of this department took part in various online programmes to enrich themselves and to get exposed to the latest developments in the field.

Courses done by teachers

Teachers of this department have done various courses to refresh and improve their subject knowledge by participating in various courses, the details are listed below.

Dr. Shaji E. M.	Associate Professor	NPTEL-AICTE online FDP (12 weeks) on "Animal Physiology"	14-09-2020 to 04-12-2020
Dr. Shaji E. M.	Associate Professor	NPTEL-AICTE online FDP (12 weeks) on "Wildlife Ecology"	14-09-2020 to 04-12-2020

Prasad N. K.	Assistant Professor	NPTEL-AICTE online FDP (12 weeks) on "Animal Physiology"	14-09-2020 to 04-12-2020
Prasad N. K.	Assistant Professor	NPTEL-AICTE online FDP (12 weeks) on "Experimental Biotechnology"	14-09-2020 to 04-12-2020
Prasad N. K.	Assistant Professor	Swayam ARPIT Online course on Leadership and Governance in Higher Education. Level 2	01-12-2020 to 31-03-2021
Soumya K. C.	Assistant Professor	Online Induction Programme by HRDC, University of Calicut	06-10-2020 to 05-11-2020
Soumya K C	Assistant Professor	FDP on "Managing Online Classes and Co- Creating MOOCS"	18-05-2020 to 03-06-2020
Soumya K. C.	Assistant Professor	Orientation programme for faculty in Universities, Colleges/Institutions of Higher Education by MHRD, PMMMNMT, University of Delhi	04-06-2020 to 01-07-2020
Soumya K.C.	Assistant Professor	Refresher course in biotechnology by HRDC, University of Calicut	16-09-2021 to 29-09-2021
Dr. Seema Menon	Assistant Professor	NPTEL-AICTE online FDP (12 weeks) on "Animal Physiology"	14-09-2020 to 04-12-2020
Dr. Seema Menon	Assistant Professor	NPTEL-AICTE online FDP (12 weeks) on "Experimental	14-09-2020 to 04-12-2020

Biotechnology"

Dr. Seema Menon	Assistant Professor	Swayam ARPIT Online course on Leadership and Governance in Higher Education. Level 2	01-12-2020 to 31-03-2021
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Publications of teachers

Research papers

1. Ameliorative effect of Neera, non fermented coconut inflorescence sap, on cisplatin-induced renal toxicity by abating oxidative stress (2020). Prabha Silpa, Nair Meera, **Edappilly M. Shaji**, Muralidharan S. Indu, Balu T. Kuzhivelil and Thekkekara D. Babu. Journal of Basic and Clinical Physiology and Pharmacology. ISSN: 21910286, 07926855

Book chapters

1. Dr. Shaji E M and Mrs. Soumya K C - served as editors of Proceedings of the International Seminar (Rei-bio-19); 978-81-72551308
2. Mr. Shihabudeen A S - A chapter on "A comparative study of Spider diversity associated with Chittur Puzha (Sokanashini river) Chittur, Kerala, India before and after the deluge of August 2018" in the Proceedings of the International Seminar (Rei-bio-19); 978-81-72551308
3. Mr. Prasad N K - A chapter on "Assessment of Biocontrol Potential of Selected spiders" in the Proceedings of the International Seminar (Rei-bio-19); 978-81-72551308
4. Mrs. Soumya K C - A chapter on "Cardiac Tissue Engineering: Nex-Gen Care" in the proceedings of the national Seminar (Modern Trends in Biological Research) conducted by Vimala College (Autonomous), Thrissur, Kerala, India.

Scientific Meetings chaired by teachers

Dr. Shaji E M and Dr. Seema Menon chaired technical sessions in the National

Level Virtual Scientific Paper Presentation Competition 9th January 2021 organized by ZOOTOPIA - The Journal Club, Department of ZOOLOGY Vimala College (Autonomous), Thrissur.

ICT initiatives

1. Sri. Prasad N K, Asst. Professor, Dept. of Zoology published Content video for BSc Zoology students on "seminar video recording" through Youtube channel of Zoology Dept. The link is accessible to all students of the college from 24-01-2021. Link to the above: https://youtu.be/_ZBThNwHgPI