

Annual Report 2023-24



**DEPARTMENT OF ZOOLOGY,
KKTU GOVT. COLLEGE, PULLUT**



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LIST OF ACADEMIC ACTIVITIES ORGANIZED BY DEPARTMENT
OF ZOOLOGY IN THE ACADEMIC YEAR 2023-24

SL. NO.	DATE	VENUE	ACTIVITY	NO. OF PARTICIPANTS	BENEFICIARIES
1	05-06-2023	Auditorium	World Environment Day Celebrations	132	School students from VKRM GHSS ecoclub and KKTMGHSS NSS unit, Kodungallur , BSc Zoology students of KKTU Govt. College and members from general public
2	03-07-2023	Audio Visual Hall	Seminar on 'Amazing World of Proteins'	78	Bsc Zoology students of KKTU Govt. College
3	31-07-2023	Open programme	International Tiger Day Observance	>100	Staff and students of KKTU Govt. College
4	16-09-2023	Online	Pencil Drawing Competition - World Ozone Day Celebrations 2023	12	High School Students
5	25-09-2023	KKTU Government Girls' Higher	Ozone Day Observance 2023- 'Shield'- Extension	51	High school students

		Secondary School, Kodungallur	Programme		
6	05-10-2023	Zoology laboratory	Ozone Day Celebrations - Lecture	55	Students of KKTU Govt. College
7	22-11-2023 & 23-11-2023	Muziris Convention Centre	Two-Day International Seminar	120	Students and faculty of various colleges
8	28-11-2023	Audiovisual room	Research Orientation Talk- 'Beyond the Lab: How Researchers Impact Social Good'	102	Faculty members, students, and research scholars of KKTU Govt. College
9	01-12-2023	Open programme	Observance Of World Aids Day 2023-24	>100	General Public
10	13-12-2023	Audiovisual room	Talk on Application of Entomology in Forensic Science - Zoology Association Inauguration	80	Bsc Zoology students of KKTU Govt. College

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11	08-01-2024	Zoology laboratory	Hands-on training programme on rooftop farming	40	Students of KKTU Govt. College
12	01-03-2024	College seminar hall	National Science Day Celebrations, 2024	60	Students of various colleges
13	04-12-2023 to 06-12-2023	Eravikulam, Marayoor, Kanthallur, Kodaikkanal	Study tour	23	III BSc Zoology Students
14	09-02-2024	Chappara mangrove, Pullut	Field visits	23	III BSc Zoology Students

ACADEMIC ACTIVITIES

❖ WORLD ENVIRONMENT DAY CELEBRATIONS 2023, ON 05-06-2023

The programme was jointly organized by KKTU SEEDS, Department of Zoology and Bhoomitrasena of KKTU Government College in association with VKRM GHSS ecoclub and KKTMGHSS NSS unit, Kodungallur. The president of KKTU seeds, Smt. Arya Ramachandran welcomed the audience. The chief guest of the programme Dr. V.S. Vijayan, Chairman, Salim Ali foundation inaugurated the function. The programme was presided over by Dr. Shaji E. M., Principal, KKTU Government College. In his inaugural address, Dr. Shaji elaborated on the motto of World Environmental Day 2023 “Beat Plastic Pollution” and the ways to conserve and protect biodiversity. Solar light was gifted to the college by KKTU SEEDS. Environmentalists and farmers who are also members of KKTU alumni were honoured in the function. The inaugural session was followed by the talk delivered by Dr. V. S Vijayan. The talk was titled “ Need for Biodiversity Conservation”. Various aspects of ecosystem pollution, service and need for ecosystem conservation were discussed. 25 students from KKTU GGHSS Kodungallur, 21 students from VKRM GHSS, 84 students from KKTU Government College, 17 members from general public and 10 faculties of KKTU government college participated in the function. Vote of thanks was delivered by Smt. Soumya K C., Assistant Professor and Coordinator of Bhoomitrasena, KKTU Government College, Pullut.

❖ SEMINAR ON ‘AMAZING WORLD OF PROTEINS’ ON 03-07-2023

The seminar was organized by the Department of Zoology and IQAC, KKTU Government College, Sri. N. K Prasad, Head of the Department of Zoology welcomed the audience. The programme was presided over by Dr. Shaji E. M, Principal, KKTU Government College. The programme was officially inaugurated by Dr. Mathews Irinpen, Lead Scientist, Stanford University, California. Dr. P K Sujathan, IQAC coordinator felicitated over the function. After the inaugural session, DR. Irinpen delivered the lecture on ‘Amazing world of Proteins’. He started his talk by explaining the various roles proteins play in the body. Later he deep dived into the structure and functions of various proteins and

their importance as drug targets. Dr. Irinpen also shared his experiences of COVID-19 research. Students interacted with Dr. Irinpen after the talk and asked various questions. Smt. Soumya K. C., Assistant Professor of Zoology delivered the vote of thanks.

❖ **INTERNATIONAL TIGER DAY OBSERVANCE ON 31-07-2023**

The Dept. of Zoology observed the international Tiger Day, coordinated by Mr. Prasad N.K., Assistant Professor of Zoology. To commemorate International Tiger Day, the department organized an engaging real-time quiz on tiger conservation. Students actively participated in the quiz as they roamed across the campus, showcasing their knowledge and enthusiasm for tiger preservation. To further spread awareness, the department distributed informative pamphlets among both staff and students. These pamphlets highlighted the urgent need for tiger conservation and provided insights into the current challenges faced by these majestic creatures in the wild.

❖ **PENCIL DRAWING COMPETITION FOR HIGH SCHOOL STUDENTS - WORLD OZONE DAY CELEBRATIONS 2023, ON 16-09-2023**

Bhoomitrasena and the Department of Zoology organized a pencil drawing competition for high school students. The theme of the competition, "Ozone for a Better Earth," aimed to raise awareness about the importance of the ozone layer and its role in protecting life on Earth. The primary objectives of the competition were, educate students about the significance of the ozone layer, encourage artistic expression and creativity in depicting environmental themes and foster a sense of responsibility towards environmental conservation among young people. A total of 12 entries were received from high school students across various schools. The entries were evaluated based on creativity and originality, artistic skills and technique and overall impact. After careful consideration, Veena Vinod N of BVHSS Nayarambalam was declared the winner. Cash prize of ₹500 was awarded to her. Veena Vinod N.'s drawing stood out for its creative depiction of the ozone layer's protective role and its aesthetic appeal.

❖ **OZONE DAY OBSERVANCE 2023- 'SHIELD'- EXTENSION PROGRAMME ON 25-09-2023**

The Department of Zoology, KKTU Govt. College, Pullut, in association with Bhoomitrasena and IQAC organised the extension programme 'Shield', for the high school students of KKTU Government Girls' Higher Secondary School, Kodungallur, Thrissur from 1:30 to 3:30 pm. The programme targeted to generate awareness among an enthusiastic cluster of high school students about the importance of this day, based on the focal theme "Montreal Protocol: fixing the ozone layer and reducing climate change". In the first session of the programme, students from V Sem BSc Zoology of KKTU Govt. College gave away awareness lectures to the audience. Aparna R talked on 'Ozone layer and its properties', Parvathi Sreelan on 'depletion of ozone layer' and Akash Chandran R on 'steps to minimise ozone depletion'. A quiz competition pertaining to various aspects of ozone layer, its properties, hazards of depletion etc. was conducted by Dr. Seema Menon, Assistant Professor, Dept. of Zoology. V Sem BSc Zoology of KKTU Govt. College, Minha Nourin and Devika A C conducted a poster display and description to educate, raise awareness and inspire action regarding the importance of the ozone layer and the efforts needed to protect it. Dr. Seema Menon, Programme Co-Ordinator, Dr. Shaji E M, Associate Professor and Head, Dept. of Zoology and Ms. Soumya K C, Co-organiser (Co-Ordinator of Bhoomitrasena) also briefly interacted with the audience.

❖ **OZONE DAY CELEBRATIONS ON 05-10-2023**

The Department of Zoology and Bhoomitrasena, in association with the Internal Quality Assurance Cell (IQAC) of KKTU Government College, Pullut, organized a lecture as part of the Ozone Day Celebrations. The event, held at the Zoology laboratory, aimed to raise awareness about the critical issues related to ozone depletion, climate change, and their impact on the Arctic environment. Dr. Shaji E. M., Associate Professor and Head of the Department of Zoology at KKTU Government College, delivered the welcome speech. The inaugural address was given by Dr. Bindu Sharmila T. K., Principal of KKTU Government College. Dr. Lovely George, Head of the Physics Department and IQAC Coordinator at KKTU Government College, offered felicitations. The highlight of the event was a talk by the resource person, Mr. Akhil Prakash E., Senior Research Fellow at the School of Marine Sciences, Cochin University of Science and Technology (CUSAT). Mr. Prakash's lecture, titled "Arctic Impact:

Ozone Depletion, Climate Change and the Fragile Arctic Environment," provided an in-depth analysis of the interconnectedness of ozone depletion and climate change, with a focus on the Arctic region. 55 students from various departments of the college were the participants. The event concluded with a vote of thanks delivered by Soumya K. C., Assistant Professor of Zoology and Coordinator of Bhoomitrasena.

❖ **TWO-DAY INTERNATIONAL SEMINAR ON 22-11-2023 AND 23-11-2023**

The Department of Zoology, in association with IQAC conducted a two-day International Seminar on 'Advanced Techniques in Biological Research' (ATBR-2023), with financial aid from the Directorate of Collegiate Education, Government of Kerala. The seminar brought together renowned scientists, researchers, and experts from around the world to discuss and exchange insights on the latest advancements in the field of biological research. The event aimed to foster collaboration, share cutting-edge techniques, and promote a deeper understanding of key challenges and opportunities in contemporary biological research.

In the inaugural session on Day 1, Smt. Soumya K. C., the Coordinator, extended a warm welcome to the attendees. Dr. Shaji E. M., Head of the Department of Zoology, delivered the Presidential Address, highlighting the significance of advancing biological research. The formal inauguration was carried out by Dr. Bindu Sharmila T. K., Principal, with felicitations from Dr. G Ushakumari, Vice Principal, and Dr. Lovely George, IQAC Coordinator. The Vote of Thanks was expressed by Dr. Seema Menon, Assistant Professor, Zoology, expressing gratitude for the collaborative efforts. Dr. Finosh G. Thankam, Assistant Professor from the Department of Translational Research, Western University of Health Sciences, California, delivered the Keynote Address on "Regenerative Cardiology: Stories from Epicardial and Myocardial Stromal Cells". Dr. Dileep Vijayan, Scientist D & NRI/PIO/OCI Fellow at the Laboratory of Computational and Structural Biology, Jubilee Centre for Medical Research, presented on "Decoding the Tacrine: Acetylcholinesterase Interaction Through Computational and Structural Biology". Dr. Sandeep Das, SERB National Post Doc. Fellow from the Department of

Zoology, University of Calicut, explored "Recent Trends in Amphibian Research and Conservation in the Western Ghats". Dr. R. S. Jayasree, Scientist G from the Division of Biophotonics and Imaging, SCTIMST, gave an exemplary lecture on the application of spectroscopy in the diagnosis of cancer progression. The day concluded with 22 oral presentations, providing a platform for researchers to share their findings and engage in discussions.

On day 2, Dr. R. S. Jayasree, Scientist G from the Division of Biophotonics and Imaging, SCTIMST, Trivandrum, delivered a comprehensive presentation on "Nano Photonics for Brain Imaging and Therapy of Neuro-Degenerative Disease". Dr. Alex George, Scientist D at the Jubilee Centre for Medical Research, Thrissur, Kerala, presented on the "Dual Role of Extracellular Vesicles in Genome Instability and Integrity Maintenance". Dr. Finosh G. Thankam returned for a session on "Translational Avenues in Cardiac Tissue Engineering". 23 Researchers continued to share their work through oral presentations, contributing to the diversity of topics covered during the seminar.

❖ RESEARCH ORIENTATION TALK - 'BEYOND THE LAB: HOW RESEARCHERS IMPACT SOCIAL GOOD' ON 28-11-2023

A one-day seminar on Research Methodology was jointly organized by the Department of Zoology, Research Committee and IQAC at KKTU Govt. College, Pullut in the audiovisual room of the college. The seminar was inaugurated by the Principal, Dr. Bindu Sharmila T. K. The event was presided over by Dr. Shaji E. M., Head of the Department of Zoology. In her welcome address, Dr. Seema Menon, Zoology faculty member and Research Committee Coordinator, greeted the attendees. The seminar saw felicitations from Dr. G. Ushakumary, Vice Principal, and Dr. Lovely George, IQAC Coordinator, who extended their best wishes for the event. Dr. Aneesh E. M., faculty member of the Zoology Department, University of Calicut, Thenhipalam and Coordinator of the Research Methodology Training Center, conducted an insightful session on the topic "Research Beyond Laboratories for Human Welfare." Drawing from his years of dedication and numerous contributions to the field, Dr. Aneesh emphasized the significance of curiosity, persistence, and critical thinking in

successful research endeavors. Dr. Sabna K. S., Assistant professor of Mathematics and Research Committee member, expressed gratitude to all participants.

❖ **OBSERVANCE OF WORLD AIDS DAY 2023-24 on 01-12-2023**

In conjunction with World AIDS Day, the Zoology Department and the College Internal Quality Assurance Cell (IQAC) hosted an impactful AIDS awareness programme. The program commenced with an inaugural address by Principal Dr. TK Bindu Sharmila, who emphasized the importance of spreading awareness about HIV/AIDS. She highlighted the role of education in combating stigma and promoting prevention strategies. Throughout the day, students actively participated in distributing informational leaflets to households and shops in Pullut and surrounding areas. These leaflets contained vital information about HIV/AIDS prevention, transmission, and treatment options. Additionally, students engaged in one-on-one interactions with community members, delivering key messages about safe sex practices, regular testing, and destigmatizing HIV/AIDS. The event garnered significant attention from both the college community and the local population, contributing to increased awareness and understanding of HIV/AIDS.

❖ **TALK ON APPLICATION OF ENTOMOLOGY IN FORENSIC SCIENCE ON 13-12-2023- AS PART OF ZOOLOGY ASSOCIATION INAUGURATION**

The meeting commenced with the welcome note by Dr. Seema Menon, Assistant professor of the department followed by the presidential address by Dr. Shaji E. M., Head of the Zoology Department. The official inauguration of the association was done by Dr. Bindu Sharmila T.K., Principal of the college. Following the inauguration, Afrin Sona A. S., Assistant Professor from the Department of Forensic Science at the University of Calicut, delivered an insightful talk on the application of entomology in forensic science. Afrin Sona A. S. emphasized the critical role of entomology in forensic investigations. She discussed how insects can be pivotal in solving criminal cases, particularly in determining the time of death through the study of insect life cycles on decomposing bodies. The program was further enriched by the felicitations from Dr. Lovely George, IQAC Coordinator, and

Dr. G. Ushakumari, Vice Principal. Mr. Prasad N. K., Assistant Professor of the department, delivered the vote of thanks.

❖ **HANDS-ON TRAINING PROGRAMME ON ROOF TOP FARMING FOR COLLEGE STUDENTS ON 08-01-2024**

The Department of Zoology and Bhoomitrasena organized a hands-on training programme on rooftop farming for college students. The initiative aimed to educate and empower students with practical knowledge and skills for sustainable urban agriculture practices, particularly rooftop farming, which is gaining popularity as an innovative solution to urban food security and environmental sustainability. The event commenced with a welcome speech by Shri Prasad N. K., Assistant professor of Zoology, who emphasized the importance of adopting sustainable agricultural practices in urban settings. Dr. Shaji E. M., Associate Professor & Head of the Department of Zoology, KKTU Government College, delivered the presidential address. Dr. Shaji elaborated on the college's commitment to promoting sustainable practices and the role of education in fostering a culture of environmental stewardship among students. The inaugural address was delivered by Dr. Bindu Sharmila T. K., Principal of KKTU Government College. Dr. Bindu Sharmila officially inaugurated the programme, stressing the importance of practical training in complementing theoretical knowledge. Dr. Seema Menon, Assistant professor of Zoology, felicitated over the function. The core of the programme was the hands-on training session conducted by Mr. Cijin J. Das, a research scholar from Kerala Agricultural University, Mannuthy. Mr. Das began with an introductory lecture on the basics of roof top farming, covering essential topics such as suitable crops, soil preparation, irrigation techniques, pest management, and the benefits of urban farming. The practical segment of the training involved a step-by-step demonstration of setting up a roof top garden. The interactive session allowed students to ask questions and engage directly with the resource person, enhancing their understanding and practical skills. The event concluded with a vote of thanks by Soumya K. C., Assistant Professor of Zoology and Coordinator of Bhoomitrasena.

❖ **NATIONAL SCIENCE DAY CELEBRATIONS, 2024 ON 01-03-2024**

The Department of Zoology, Botany, and Chemistry of KKTU Government College, Pullut, Thrissur, in collaboration with the Kerala Academy of Sciences, organized the National Science Day Celebrations to promote scientific temper among students and the community. The event commenced with a welcome address by Dr. Shaji E. M., Associate Professor, and Head of the Department of Zoology. Dr. Bindu Sharmila T. K., Principal delivered the Presidential Address. The inauguration was graced by Dr. Reghu K. G., Chief Scientist (Retd.) from CSIR-NIIST, Trivandrum, and Vice-President of the Kerala Academy of Sciences. Dr. G. Ushakumari, the Vice Principal, Dr. Lovely George, IQAC Coordinator, and Head of the Department of Physics, and Shri. Benoy Thomas M. P., Head of the Department of Botany, felicitated over the function. The first invited talk was delivered by Dr. Muhammed Yoosuf, Assistant Professor from the Department of Chemistry, Farook College, Calicut. He spoke on Dye Sensitized Solar Cells for Ambient Light Harvesting Applications; enlightening the audience on innovative methods of harnessing solar energy. Following that, Dr. Arathi Dharmarathnam, Research Associate at NBFGR, Cochin, and the recipient of the Indian Virological Society-Young Scientist Award 2023, delivered a talk on Finfish Viral Diseases; her presentation shed light on the challenges and advancements in combating viral diseases in aquatic ecosystems. The final invited talk was presented by Dr. Jomon Sebastian, Assistant Professor from the Department of Biotechnology, CUSAT. He discussed Targeted Therapy for Effective Cancer Treatment providing insights into cutting-edge approaches in oncology research. The National Science Day Celebrations at KKTU Government College served as a platform for knowledge dissemination and academic exchange. Around 60 students benefitted from the event. The event concluded with a vote of thanks delivered by Smt. Soumya K. C., Assistant Professor, and Coordinator of the Department of Zoology, expressing gratitude to all participants and collaborators for their valuable contributions.

❖ **STUDY TOUR AND FIELD VISITS**

The VI semester B.Sc. Zoology study tour for the academic year 2023-24, organized by KKTU Govt. College, Pullut, aimed to provide students with hands-on exposure to diverse ecosystems, wildlife sanctuaries, and natural landmarks. The tour, led by Dr. Shaji E M, Associate Professor of Zoology,

and Dr. Seema Menon, Assistant Professor of Zoology, was designed to enrich students' understanding of zoology and biodiversity. On Day 1 (04-12-2023), the team departed from KKTU Govt. College, Pullut at 6 am, heading towards the enchanting Munnar, where the students arrived at 12 pm. The day's activities included exploring the rich biodiversity of Eravikulam National Park and witnessing the majestic Lakkam Waterfall. On Day 2 (05-12-2023), students engaged in an immersive experience, exploring the Sandal Forest, Bhramaram Shooting Point, Tree House, Fruits Garden, Sharggara Factory, Erachilppara Waterfall, and Muniyarappara Off-road Trekking. The day concluded with a departure from Marayoor at 5.30 pm, heading towards the picturesque Kodaikanal and reaching the destination at 9.30 pm. On Day 3 (06-12-2023), a series of enriching activities such as Cocker's Walk, Kodai Lake Boating, Pealar Point, Guna Cave, Pine Forest, and Pillar Rock were conducted. The tour concluded with a return journey from Kodaikanal at 1.00 pm, arriving back at KKTU Govt. College, Pullut at 9.30 pm.

On 09-02-2024, a study trip was organized to explore the mangrove swamps at Chappara, near Pullut. We started our journey in the afternoon around 1 PM. 23 students of the Department of Zoology and 3 faculty members were there in the team. The mangrove swamp has an impressive array of plant species adapted to the challenging conditions of saline water and muddy substrates. The expedition to the mangrove forest had been a journey of discovery and enlightenment, reaffirming the importance of preserving Earth's natural wonders for generations to come.

❖ VALUATION CAMPS

Dr. Shaji E. M., Associate Professor of this department conducted the following Centralized Valuation Camps of the University of Calicut at this college during this academic year.

Sl. No.	Name of the Camp	Period
1	III Sem. CBCSS UG Zoology, Aquaculture and Human Physiology Examinations, November 2022	09.08.2023 to 11.08.2023
2	IV Sem. CBCSS UG Zoology, Aquaculture and Human	06.11.2023 to 10.11.2023

	Physiology Examinations, April 2023	
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❖ **FACULTY DEVELOPMENT PROGRAMME**

The following faculties completed Faculty Development Programme during this academic year

Sl. No.	Name of the teacher	Course	Agency	Period	Result
1	Dr. Shaji E. M.	Human Physiology	NPTEL-AICTE	Jan - Apr 2024	Qualified
2	Dr. Seema Menon	Human Physiology	NPTEL-AICTE	Jan - Apr 2024	Qualified

LIST OF EXTRA CURRICULAR ACTIVITIES ORGANIZED BY
DEPARTMENT OF ZOOLOGY IN THE ACADEMIC YEAR 2023-24

SL. NO.	DATE	VENUE	ACTIVITY	BENEFICIARIES
1	12-10-2023	Muziris Convention Centre	Alumni meet- "Smrithi 2023" for the 1973-76 batch	Alumni, I, II & III B.Sc. Zoology
2	24.08.2023	Department of Zoology	Onam celebration	I, II & III B.Sc. Zoology
3	13.12.2023	Zoology Laboratory	Freshers day	I, II & III B.Sc. Zoology
4	21.12.2023	Department of Zoology	Christmas Celebration	I, II & III B.Sc. Zoology
5	26.02.2024	Zoology Laboratory	Farewell party to the Final year students	I, II & III B.Sc. Zoology
6	A periodic event	KKTU Govt.College Campus	Maintenance of Butterfly garden	I, II & III B.Sc. Zoology

EXTRA-CURRICULAR ACTIVITIES

❖ ALUMNI MEET- “SMRITHI 2023”: ALUMNI MEET OF 1973-76 ZOOLOGY BATCH ON 12-10-2023

The Department of Zoology hosted an alumni meet titled "Smrithi 2023" for the 1973-76 batch. The event was held at the Muziris Convention Centre, within the college premises, and served as a warm reunion for former students and faculty. Ms. Soumya K. C., Assistant Professor and Coordinator, welcomed the gathering, highlighting the importance of such reunions in strengthening the bonds within the alumni network and between the alumni and the current students and staff. Following the welcome address, Dr. Shaji E. M., the Head of the Department of Zoology, delivered the presidential address. Dr. Shaji reminisced about the college's journey and achievements over the years and acknowledged the contributions of the alumni in enhancing the department's reputation. The formal inauguration was conducted by the Principal of KKTU Govt. College, Dr. Bindu Sharmila T. K. The chief guest of the event, Dr. Rajeevan Therpurakkal, a renowned scientist from UKD, Germany, delivered an inspiring speech. He shared insights from his professional journey and encouraged the current students to pursue their academic and career goals with determination and curiosity. A significant highlight of the event was the honoring of Dr. Shaji E. M. by the alumni members, recognizing his dedicated service and leadership in the department. The alumni presented a portrait of Dr. Devakinandan to the Zoology Department, commemorating his enduring legacy. In a heartwarming moment, the Dr. Devaki Nandan Memorial cash award was presented to Ms. Ansiya M. S., acknowledging her academic excellence and inspiring future scholars. Dr. Sumathy Achuthan, an esteemed alumnus, donated a Smart Television to the Zoology Department, reflecting the alumni's commitment to enhancing the department's resources and facilities. Tokens of love were distributed to the alumni members, signifying the college's appreciation for their continued involvement and support. Felicitation speeches were delivered by Dr. G. Ushakumari, Vice Principal, Dr. Remani K. K., Secretary of the Parent-Teacher Association, and Dr. Lovely George, Coordinator of the Internal Quality Assurance Cell. The alumni then took the stage to share their reflections, recounting fond

memories and expressing their gratitude for the formative years spent at KKTU Govt. College. Dr. Seema Menon, Assistant Professor, delivered the vote of thanks.

❖ **ONAM CELEBRATIONS ON 24-08-2023**

The Onam celebration was a grand and joyous affair, filled with colorful festivities and cultural revelry. The classrooms were adorned with beautiful floral rangolis, and students donned traditional attire as they participated in various events and activities. Sumptuous feasts featuring delicious Onam delicacies like sadya (a traditional meal served on a banana leaf) were shared among the department members. Folk dances, music performances, and games added to the exuberant atmosphere, creating a sense of unity and joy in the department.

❖ **FRESHERS DAY PROGRAMME ON 13-12-2023**

Freshers' Day was intended to warmly welcome the new batch of I.BSc. students. The event was filled with excitement and anticipation as the freshmen were introduced to their college environment, faculty, and fellow students. Various engaging activities, games, and cultural performances were organized to foster a sense of camaraderie and encourage the newcomers to embrace their academic journey ahead.

❖ **CHRISTMAS CELEBRATION ON 21-12-2023**

The Christmas celebration was a joyous and festive event. The entire community came together to embrace the holiday spirit, spreading warmth and cheer. Colorful lights adorned the department and classrooms, which were beautifully decorated with twinkling ornaments and Christmas trees. The faculty and students gathered to exchange gifts and share delicious meals, creating precious memories that would be cherished for years to come. The sound of carolers singing filled the air, and everyone participated in various holiday-themed activities. The students of BSc Zoology won prizes for crib-making.

❖ **FAREWELL PARTY FOR THE FINAL B.Sc. STUDENTS ON 26-02-2024**

A heartfelt Farewell Programme was organized to bid adieu to the final year B.Sc. students as they reached the culmination of their college journey. The atmosphere was a mix of nostalgia and celebration as the departing students reminisced about their experiences and shared fond memories with their friends and teachers. Heartfelt speeches and emotional expressions marked the event, making it a memorable and touching farewell for the outgoing batch.

❖ **MAINTENANCE AND PROTECTION OF BUTTERFLY GARDEN IN THE CAMPUS**

KTM Government College Zoology Department successfully maintained and protected the Butterfly Garden established by the department utilizing the financial aid from the Govt. of Kerala and in collaboration with KKTU SEEDS, an Alumni Group of the college. The project involved the active participation of students from the department and members of the KKTU Seeds. The KTM Alumni generously provided financial support and supplied saplings for the garden. During the project, students received expert guidance from the KKTU Seeds members, who helped them with the maintenance tasks. The students worked diligently to water, weed, and prune the garden, ensuring a suitable habitat for butterflies.

The Butterfly Garden became a delightful attraction for students, faculty members, and visitors. Its vibrant colours and the graceful presence of butterflies brought joy and wonder to everyone who visited. The project received positive feedback from all those who experienced the garden. Many expressed their appreciation for the efforts of students, alumni and the faculty and recognized the garden as a valuable asset to the college community. The maintenance and protection of the Butterfly Garden at the KTM Government College Zoology Department was a successful endeavor. The collaborative efforts of the students, KKTU Seeds members, and the support from the KTM Alumni contributed to its success. The Butterfly Garden stands as a beautiful reminder of the importance of conserving nature and its diverse species.

PUBLICATIONS BY FACULTY- RESEARCH PAPERS

Title of paper	Name of the author/s	Name of journal	Year of publication	ISSN number	Is it listed in UGC Care list
Protective effect of <i>Annona muricata</i> Linn fruit pulp. Lyophilized powder against paracetamol-induced redox imbalance and hepatotoxicity in rats.	Seema Menon , Rasha A .Al-Eisa, Hamida Hamdi, Lincy Lawrence, P S Syamilly, Vipin P.Sivaram, Jose Padikkala, Shaji E Mathew and Arunaksharan Narayanakutty	Processes	2023	ISSN: 2227-9717 https://doi.org/10.3390/pr11010276	Scopus indexed; Impact factor 3.5
<i>Oroxylum indicum</i> Vent Root Bark Extract Inhibits the proliferation of Cancer Cells and Induce Apoptotic Cell Death	Seema Menon , Jawaher J. Albaqami, Hamida Hamdi, Lincy Lawrence, Jose Padikkala, Shaji E. Mathew and Arunaksharan Narayanankutty	Processes	2023	ISSN:0377-9335 2227-9717 https://doi.org/10.3390/pr11010188	Scopus indexed; Impact factor 3.5
A checklist of hover flies (Diptera, Syrphidae) of Kerala, India	C. Athul Sankar, C. Bijoy and E. M. Shaji	Entomon	2023	ISSN: 0377-9335 https://doi.org/10.33307.entomon.v49i1	Scopus indexed; Impact factor 0.4
Polysaccharide-PVA/PEG blended Crosslinked Hybrid Hydrogels for Cardiac Tissue Engineering	Joshi CO, and Soumya K. Chandrasekhar	Trends in Biomaterials and Artificial Organs	2023	ISSN: 0971-1198 https://www.biomaterials.org.in/tibao/index.php/tibao/article/view/3/2	Scopus indexed

PUBLICATIONS BY FACULTY- BOOKS/BOOK CHAPTERS

Title of the book/chapters published	Title of the paper	Name of the author/s	Name of the book/conference proceedings	ISSN number	Name of the publisher
Proceedings of the International conference: Advanced techniques in biological research-2023		Edited by Dr. Shaji E M, Soumya K C, Prasad N K, Dr. Seema Menon	International conference: Advanced techniques in biological research-2023	978-81-7255-1728	Sooryagatha Publishers, Kochi.
Proceedings of the International conference: Advanced techniques in biological research-2023	Study of seasonal variation in the occurrence of Jumping spiders (Salticidae) in selected riparian habitats of Bharatapuzha.	Shihabudeen A.S., Prasad N.K. , Dr. Sudhikumar A.S.	International conference: Advanced techniques in biological research-2023	978-81-7255-1728	Sooryagatha Publishers, Kochi.
Proceedings of the International conference: Advanced techniques in biological research-2023	Notes on the sleeping aggregation behaviour in Male <i>Austronomia</i> Michener, 1965 (Hymenoptera: Apoidea: Halictidae) from Kerala	Athul Sankar C., Bijoy C. and Shaji E. M.	International conference: Advanced techniques in biological research-2023	978-81-7255-1728	Sooryagatha Publishers, Kochi.

PAPER PRESENTATIONS BY FACULTY

Title of the paper	Name of the author/s	Name of the seminar/ conference	Organizer	Date
Radioprotective properties of <i>Oroxylum indicum</i> Vent.	Seema Menon and Jose Padikkala	International Seminar on 'Advanced Techniques in	Dept. of Zoology, KKTU	23-11-2023

		Biological Research’ (ATBR-2023)	Govt. College, Pullut	
Impact of agriculture practices on selected horticultural ecosystems in Thrissur district Kerala	Prasad N.K., Shihabudeen A.S. and Dr. Sudhikumar A V.	National seminar on “Biodiversity for sustainable future”.	Department of Zoology SNGS College, Pattambi	15/11/2024
Spider fauna of Narayanamangalam: A local exploration	Prasad N.K., Shihabudeen A.S. and Dr. Sudhikumar A V.	International Seminar on ‘Advanced Techniques in Biological Research’ (ATBR-2023)	Dept. of Zoology, KKTU Govt. College, Pullut.	23-11-2023
Immunocompatibility of Alginate-PEG-Starch inspired hydrogel templates for regenerative cardiology	Soumya K.C. and Dr. Joshy C.O.	National seminar on “Biodiversity for sustainable future”.	Department of Zoology SNGS College, Pattambi	15/11/2024
Gene expression studies on Alginate-PVA-CMC inspired hydrogel templates for regenerative cardiology	Soumya K C and Dr. Joshy C.O.	National seminar on Nanotechnology and phytochemistry: Exploring the interface of science and nature	Dept. of Botany and chemistry, GWC, Malappuram	07/12/2023

ACADEMIC RECOGNITIONS RECEIVED BY FACULTY

1. Soumya K C- Best paper award for paper presentation in one day National seminar on Nanotechnology and phytochemistry: Exploring the interface of science and nature organized by Govt. Womens College, Malappuram on 7-12-2023.

RESULTS

The final year BSc Zoology results of April 2023 at KKTMB Govt. College demonstrate a strong academic performance with a pass percentage of 70%. The upward trend in grades and the overall pass percentage reflect positively on the faculty and the students' dedication. Continued efforts in enhancing teaching methods and providing additional support can further improve the results in the coming years.

Smruthi-2023



Thrissur, Kerala, India
KTM GOVT COLLEGE PULLUT
Lat 10.239463°
Long 76.211926°
2/10/23 10:17 AM GMT +05:30







CULTURAL ACTIVITIES

Study tour 2023-24





World Tiger Day Observance



Your paragraph text

Talk on Research Methodology

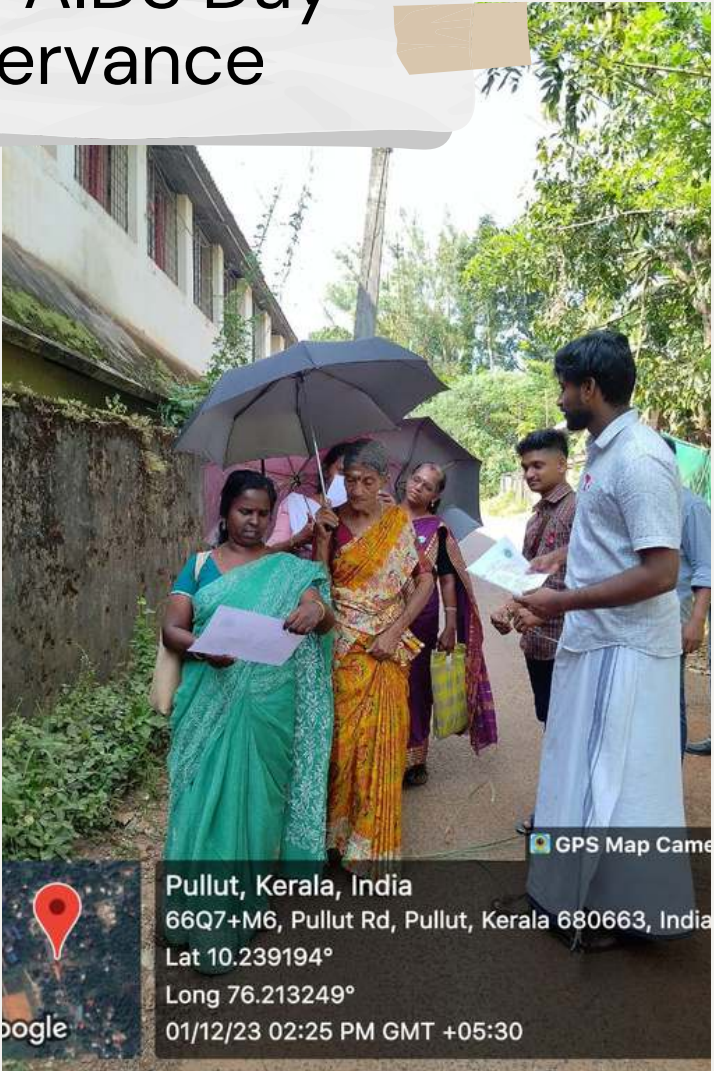




World AIDS Day
observance



Thrissur, Kerala, India
6R7+46H shivas, Kombathukadavu-Kodungall
80663, India
at 10.24029°
ong 76.213087°
1/12/23 02:31 PM GMT +05:30



Pullut, Kerala, India
66Q7+M6, Pullut Rd, Pullut, Kerala 680663, India
Lat 10.239194°
Long 76.213249°
01/12/23 02:25 PM GMT +05:30



Inter National Seminar ATBR-23



Talk on Amazing world of Proteins

