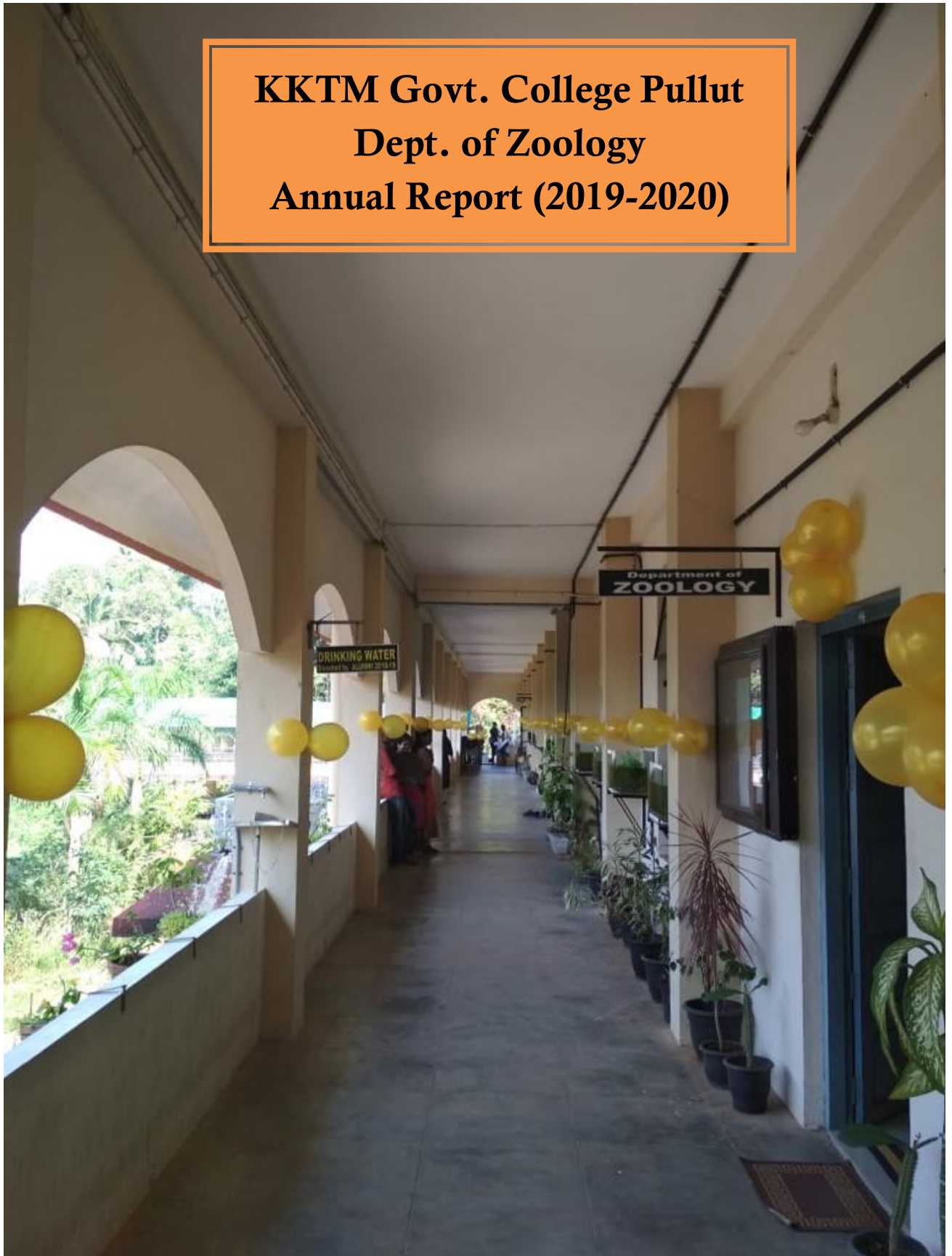


KKTM Govt. College Pullut
Dept. of Zoology
Annual Report (2019-2020)



DEPARTMENT OF ZOOLOGY
KKTM GOVERNMENT COLLEGE PULLUT
REPORT ON THE ACADEMIC YEAR 2019-2020

Department organized a multitude of activities that mainly stressed developing a positive attitude towards studies and helping the students to get acquainted with the latest developments in science and technology. Students being the stakeholders were given considerable participation right from the planning stage of these programmes. Main events organized and occurred in the department are given below:

➤ **Induction Programme for first year students on 10th July 2019**

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 Staff, Department of Zoology. The students were also informed by the changes which are incorporated by the University in their Curriculum. 32 students who got admitted to B.sc Zoology programme in 2019 participated in the programme.

➤ **Poshak Maah-Nutritional awareness for teenagers**

In order to make the students aware of the importance of nutrition and the need for maintaining a healthy diet, an awareness class was conducted in the department, in association with NSS on 26th September 2019. The programme was inaugurated by Dr. Nesy E. A., Vice-principal, K. K.T. M. Govt College, Pullut. Smt. K. K Remani, Shri Unnikrishnan G., Shri. N. K Prasad and Smt. Soumya K. C felicitated over the function. Shri. Shihabudeen A. S., HoD of Zoology delivered a class on the Adolescent Nutrition in the afternoon session.

110 students from various departments of K K T M Govt. College attended the session.

➤ **International Seminar on topic “Reiterating Biodiversity” on 30th October 2019**

One day programme which mainly emphasized on biodiversity conservation, documentation of biodiversity, less explored arenas of diversity and importance of diversity conservation was organized on 30.10.2019. Dr. Anitha I., respected principal of KKTM Govt. College inaugurated the function. The event consisted of invited talks on the diversity of subterranean fishes, led by Dr. Subhash Babu

(Assistant Professor, Dept. of Marine Biology and fisheries, Asmara, Eritrea) and on spider diversity by Dr. Sudhikumar (Assistant Professor, Dept. of Zoology, Christ College Irinjalakuda). The speakers unveiled the mysterious world of subterranean fishes and spiders and the listeners were astonished to observe the wonders of nature. To extract the potential of young researchers and students, a paper presentation session was also being organized as a part of the seminar. Thirty-four research papers were being presented by research scholars from different part of state and a cash award was distributed for the best paper. 20 faculties from various colleges, 21 research scholars, 49 PG students from various colleges and 85 undergraduate students of Zoology Department, K. K. T. M. Government College, participated in the Seminar.

➤ **Anti-malaria Awareness Programme**

In connection with the observation of the month of Anti-malaria, an awareness programme was conducted for college students. The programme was conducted on 13.11.2019 at Laboratory, Dept. of Zoology. The programme was conducted in connection with the District Medical Office (Health), Thrissur. The programme was inaugurated by Dr. Nesy E. A., Vice Principal, KKTm Govt. College, Pullut. Mr. Shihabudeen A. S., HoD, Dept. of Zoology has presided over the function. Ms. Sreeja Ajithan, Secretary, Zoology Association was felicitated over the meeting. Mr. K. T. Gilson, Filaria Inspector (Grade I), District Vector Control Unit, Thrissur was delivered a talk on “Malaria”. Ms. Soumya K.S., Assistant Professor, Dept. of Zoology, delivered the vote of thanks. 85 students of the department of Zoology participated in the programme.

➤ **Association Inauguration**

The Zoology association of the academic year 2019-2020 was inaugurated on 13.12.2019. Ms. Sreeja Ajithan (Secretary, Zoology Association) welcomed the gathering. Dr. Anitha I. Dr. Anitha I., (Principal) inaugurated the meeting. Mr. Shihabudeen A. S., (HoD, Dept. of Zoology) presided over the function. Mr. Shaji E. M. (Assistant Professor, Dept. of Zoology), Ms. Soumya K. S., (Assistant Professor, Dept. of Zoology) and Amal Azad (Chairman, College Union) were felicitated over the meeting. Mr. Gangadharan K., Director (Retd.), Dept. of Museum and Zoo, Thiruvananthapuram delivered a talk on the topic

“Animal diversity of Kerala” in the afternoon session. 85 undergraduate students of the Department could take benefit of the programme.

➤ **Study Tour (From 16/12/2019 to 19/12/2019)**

Field visits and study tours form an integral part of the B.Sc. Zoology Curriculum. A study tour of Four days duration was being organized for Final year B.Sc. Core students to various places of Zoological /ecological significance in Ooty, Masinagudi, and Coimbatore. The participants were highly benefitted from deriving the first-hand experience and observing many wild animals in their natural habitats. The last destination of the programme was Insect museum of Department of Entomology, Tamil Nadu Agricultural University, where they could learn the immense variety of insects classified in orders, insect pests of crops and livestock, insects beneficial and harmful to human beings, products and by-products of insects with commercial applications, etc. All 28 students of the department were participants of the study tour.

➤ **Fresher’s day celebration - (23.10.2019)**

To welcome the newly joined members of the Zoology family, fresher’s day was organized. The programme was inaugurated by Mr. Shaji E. M. (HoD, Dept. of Zoology) and was felicitated over by Mr. Prasad N. K. and Ms. Soumya K. C. The events were planned and executed by Second and third year degree students. Many entertaining cultural programmes were being organized for the newcomers and they cooperated with them wholeheartedly. The celebration witnessed the enthusiastic participation of 85 students of the Department of Zoology.

➤ **Internal Examinations**

Being an integral part of the evaluation of CUCBCSS, the department conducted centralized 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 led by Dr. Nesy E. A., Vice-principal; 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

➤ **Field visits**

To extend the study beyond the classrooms, students of 3rd year B.Sc. visited some zoologically important places; including Kombathukadavu Mangroves,

Aranyakam farm; a private integrated farm at Narayanamangalam following purely organic cultivation, Vermi-compost preparation and marketing, etc. on different days of this academic year. They also paid a visit to Prukruthi, Kottanellur to study the practices involved in vermin-composting, livestock management, etc. 28 students from final year B.Sc. Zoology actively participated in the field visits.

➤ **Class on PNDT Acts**

A class was conducted for students of this department on topic “Pre-Conception and Pre-Natal Diagnostic Techniques Act, 1994” on 18.12.2019. Mr. Shaji E.M., HoD, Department of Zoology welcomed the gathering. The programme was presided over by Dr. Nesy E. A., Vice-principal. Adv. Jisha Jobi (Irinjalakuda Munsiff court; one of our alumni members) delivered a talk on various legal aspects of PNDT Acts. Ms. Gopika Raj (I B.Sc. Zoology) delivered a vote of thanks. The committee members of Anti ragging cell (6 teachers from other department), and 90 students from the different departments of K K T M Government College participated in the programme.

➤ **Charitable activities**

Faculty of the department cooperated in helping the flood-affected students. Besides the faculty members contributed personally to charity activities like SOS - Delhi based Charity firm, helping to the adoption and educate abandoned children. Assistance was also given to some local charity funds when the concerned persons approached the department. A number of 15 people from the local area received financial benefit from the department during this period.

➤ **Extension programmes**

Two faculties of the department, Mr. Shaji E. M. & Mr. Shihabudeen A. S. cooperated with the ‘*Samadarshan*’ initiative of the general education department of Government of Kerala to improve the visibility and acceptability of Transgender people in community. They engaged technical sessions on 23.12.2019 in NSS camps conducted by Soccorso Convent Girls Higher Secondary School, Kottakkal, Mala and GHSS. Kattoor, respectively. A total number of 200 Higher secondary school students of said schools 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.

➤ **Obesity Clinic**

The Department in association with NSS conducted a survey on the body mass index of the students of the college. Students with overweight and underweight were given counseling on how to manage the conditions. Follow up is advised for them and the department facilitates free checking of BMI. 125 students from different departments and faculties of K K T M Government College benefitted from the program.

➤ **Orientation classes**

Final year degree students were given orientation on different courses they can opt for higher studies at different universities and higher education centers in India and abroad. Teachers of this department engaged various sessions of this programme. 28 students of final year B.Sc. Zoology participated in the programme

➤ **On line coaching for final year students to attend entrance examinations for higher education**

Online tests by using software like Testmoz, google forms etc. are given to final year students in every week during the last semester of their studies in order to equip them for various entrance examinations for higher studies. 28 students of final year B.Sc. Zoology were trained in this manner and were equipped to attend various admission tests for higher studies.

➤ **Bimonthly magazine – ‘Zoion’**

The department releases 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 entire faculty and students of K K T M Government College.

➤ **World Wetlands Day Celebrations**

In order to inculcate the values of wetlands among the students of this college, Dept. of Zoology conducted an awareness programme for them. The programme was conducted in cooperation with Bhoomithra Sena Club of this college. The programme was conducted on 05.02.2020 at Zoology Laboratory. Mr. Shihabudeen A. S. Convenor, Bhoomithra Sena Club has welcomed the gathering. The programme was inaugurated by Dr. Anitha I. (Principal) and presided over by Mr. Shaji E. M. HoD, Dept. of Zoology. Dr. Nesy E. A., (Vice Principal), Ms. Soumya K. C. (Asst. Professor, Dept. of Zoology) and Ms. Sreeja Ajithan (Secretary, Zoology Association) were felicitated over the function. Dr. Jayachandran P. R. (Post Doctoral Fellow, Dept. of Marine Biology, Microbiology & Biochemistry, CUSAT) delivered a talk on the topic “Wetlands Biodiversity: Why it matters?”. Mr. Prasad N. K. (Asst. Professor, Dept. of Zoology) delivered the vote of thanks. 80 Under Graduate students from the Department of Zoology attended the programme and could gain an insight into the importance of conserving wetland ecosystems.

➤ **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 (84) received the benefit of this programme.

➤ **WWS & SSP programmes**

Both SSP and WWS programmes are offered for selected students of each batch. Students are selected on both the basis of conditions set by the programme designers and to certain extent on readiness of the learner. During 2019 – 2020, the departmental coordinators for both these programmes were Mr. Prasad N K

and Mrs. Soumya K. C. They engaged the required number of sessions as set by the college level coordinators. External mentoring sessions of centralized nature were carried out by the college coordinators on Saturdays and public holidays. For internal mentoring sessions, sessions on self introduction, soft skills, mock interviews, public speaking, spoken English, positive gestures and body language, tips for making power point presentations more effective, etc. were chosen and implemented. A number of 20 students of this department received benefit of this programmes.

➤ **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. Parents were given formal invitation and were insisted to attend the same without fail. 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 on diminishing result percentage and problems related to indiscipline. They expressed their solidarity with the department in dealing with such situations. Parents of first year students were given an over view of internal assessment strategies and attendance constraints for appearing in University examinations.

➤ **CMV & CV camps**

Department of Zoology was conducted three Centrally Monitored Valuation camps of University of Calicut for B.Sc. Zoology, Aquaculture & Human physiology Core and Complementary papers during this academic year. Department also conducted a Centralized Valuation Camp for VIth Sem. B.Sc. Zoology & Aquaculture (Core) students during May 2019.

➤ **Participation of Faculties in Seminars/workshops and training programme**

Faculty of this department took part in various programmes to enrich themselves and to get exposed to the latest developments in the field. The summary is given below:

Sl. No.	Name of the faculty	Title of the programme	Details
1.	Shaji E M	1. International Seminar on “Reiterating Biodiversity”	30/10/2019, Dept. of Zoology, KKTMM Government College Pullut.
		2. National workshop on “Identification and monitoring of butterflies and moths”. (Chaired a session)	6 th & 7 th January 2020 Dept. of Zoology, Govt. College Kodenchery.
2.	Shihabudeen A S	1. International Seminar on “Reiterating Biodiversity”	30/10/2019, Dept. of Zoology, KKTMM Government College Pullut.
		2. National workshop on “Identification and monitoring of butterflies and moths”	6 th & 7 th January, Dept. of Zoology, Govt. College Kodencherry.
		3. National seminar on “Modern practices in Taxonomy”	25 th & 26 th November, Dept. of Zoology, Maharajas’ College, Ernakulam.
		4. National seminar on “Life science and Biodiversity: Prospects and challenges”	8 th November 2019, Dept. of Zoology, University College, Thiruvananthapuram.
		5. National seminar on “Thallophyta-Diversity, conservation & natural products”	12 th & 13 th November 2019. Dept. of Botany, KKTMM Government College Pullut.

3.	Prasad N.K.	1. International Seminar on "Reiterating Biodiversity"	30/10/2019, Dept. of Zoology, KKTMM Government College Pullut.
		2. National seminar on "Modern practices in Taxonomy".	25 th & 26 th November, Dept. of Zoology, Maharajas' College, Ernakulam. 8 th November 2019,
		3. National seminar on "Life science and Biodiversity: Prospects and challenges"	Dept. of Zoology, University College, Thiruvananthapuram
		4. National workshop on "Statistics for Biologists"	17 th December 2019, Dept. of Zoology, SNGS College Pattambi.
4.	Soumya K.C.	1. International Seminar on "Reiterating Biodiversity"	30/10/2019, Dept. of Zoology, KKTMM Government College Pullut
		2. National seminar on "Thallophyta-Diversity, conservation & natural products"	12 th & 13 th November 2019. Dept. of Botany, KKTMM Government College Pullut.

➤ Courses done by teachers

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

Sl. No.	Name of the faculty	Name of the programme	Period	Course conducted by
1	Shaji E. M.	Applied Entomology (Four Credit Course)	February 2019 to May 2019	University of Mysore (Swayam, MHRD)
		Skills for new Educational Architecture (ARPIT)	August 2019 to February 2020	Sant Gadge Baba Amaravati University, Amaravati (Swayam, MHRD)
2	Shihabudeen A. S.	Refresher Programme “Experimental techniques for Biological Sciences”	6/2/2020 to 19/2/2020	Academic Staff College, University of Calicut.
3	Prasad N. K.	Skills for new Educational Architecture (ARPIT)	August 2019 to February 2020	Sant Gadge Baba Amaravati University, Amaravati (Swayam, MHRD)
		A road map to core teaching competencies in academic landscape (Refresher Course)	14.02.2020 to 22.02.2020	Kerala Veterinary & Animal Sciences University, Mannuthy, Kerala.

➤ **Publications of teachers**

Sl. No.	Name of the Faculty	Title	Journal
1	Shaji E. M.	Preliminary assessment on phytochemical composition, cytotoxic and antitumor efficacy of <i>Simarouba glauca</i> DC. leaf methanolic extract	Annals of Phytomedicine 8(2): 121-126, 2019. ISSN: 2278-9839
2	Soumya K. C.	Book chapter “Interface biology of stem – cell driven tissue engineering: concepts, concerns, and approaches”	“Bio-integration of Medical Implant Materials” - ELSEVIER

➤ **Papers presented by teachers**

Sl. No.	Name of the Faculty	Event	Title
1.	Shihabudeen A S	International Seminar on “Reiterating Biodiversity. 30/10/2019, Dept. of Zoology, KKTM Government College Pullut.	A comparative study of Spider Diversity associated with Chittur Puzha (Sokanashini river) Chittur, Kerala, India before and after the deluge of August 2018.
		National seminar on “Modern practices in Taxonomy”. 25 th & 26 th November, Dept. of Zoology, Maharajas’ College, Ernakulam.	Diversity and seasonal fluctuation of Spiders along the banks of Kalpathipuzha, Palakkad, Kerala.
		National seminar on “Life science and Biodiversity: Prospects and challenges”. 8 th November 2019, Dept. of Zoology, University College, Thiruvananthapuram.	Study of the Diversity & abundance of Ground-dwelling Spiders along the banks of Gayathripuzha, Palakkad, Kerala, India
		National seminar on “Thallophyta-Diversity, conservation & natural	Influence of human intervention on the water quality of Cannoly

		products". 12 th & 13 th November 2019. Dept. of Botany, KKTM Government College Pullut.	canal.
2.	Prasad N.K.	International Seminar on "Reiterating Biodiversity. 30/10/2019, Dept. of Zoology, KKTM Government College Pullut.	Assessment of Bio-Control potential of selected spiders.
		National seminar on "Modern practices in Taxonomy". 25 th & 26 th November, Dept. of Zoology, Maharajas' College, Ernakulam.	Comparison of spider fauna in Banana croplands of Kadalayi & Nenmanikkara, Thrissur District, Kerala, India.
		National seminar on "Life science and Biodiversity: Prospects and challenges". 8 th November 2019, Dept. of Zoology, University College, Thiruvananthapuram.	Araneofauna associated with Banana Cropland at Narayanamangalam, Thrissur District, Kerala, India.
3.	Soumya K.C.	From health to well-being; An interdisciplinary Approach; St. Xaviers College, Mumbai	Polyol-polysaccharide interpenetrating network hydrogels for cardiac tissue engineering applications
		National seminar on "Thallophyta-Diversity, conservation & natural products". 12 th & 13 th November 2019., Dept. of Botany, KKTM Government College Pullut.	Efficacy of aqueous decoctions of selected spices against <i>Staphylococcus aureus</i> .

➤ **New initiatives**

Digital library development is in progress; as there is no provision of department library, we propose to make e-books in various fields of life sciences available to our students for reference and further reading. DVDs, e-books and study materials are assigned a separate section in the department and a desktop computer in the department is available for assisting the same. Students were also familiarized with online learning platforms, virtual labs, and open access journals and study materials related to life sciences.

Anti-malaria awareness programme



Zoology Association Inauguration



International seminar



International seminar



Field Trips



Field Trips



CMV camps



Onam & Christmas Celebrations



Class on PNDT Act



Participation in Fine arts



Study Tour



Samadharsan – Awareness programme



Zoion – Bimonthly Magazine



Fresher's Day



World Wetlands Day Celebrations



Pullut,
20.02.2020.

HoD,
Dept. of Zoology.