

Department of Zoology

Event 1 - Inauguration Report

The Department Association was inaugurated on 17 July 2019 at Conference Hall in Kongunadu Arts and Science College, Coimbatore. Ms. Malavika II M.Sc., Zoology, President of the Association welcomed the gathering. Dr. M. Lekeshmanaswamy, Principal i/c., and Head, Department of Zoology addressed the Dynamics of the Association by highlighting the milestones of achievements of the Department and its role in the growth of the college. He also mentioned about various curricular and extracurricular activities in the college and encouraged students to be part of it. He encouraged the students to enroll in the diploma courses viz., Diploma in Ornamental Fish Culture and Trade and Diploma in Apiculture to enrich their knowledge and become entrepreneurs. Dr. S. Logaswamy, Controller of Examination and Associate Professor in Zoology delivered brief note on SWAYAM courses and its importance. In addition, he also explained about the examination pattern in our college. Dr. S. Binu kumari, HOD i/c introduced the chief guest. Dr. K. Paneer Selvam, Scientist D, Institute of Forest Genetics and Tree Breeding, He inaugurated the zoology association and delivered a lecture on "Traditional Knowledge for Wellness of the Health and Its Potentials for Bioprospecting". His lecture highlighted the importance of our traditional system. He also enlightened the students in various opportunities who take Zoology as their degree courses. He also gave traditional health tips to be healthy. Mr. S. Yaswanth Kumar (III B.Sc., Zoology), Secretary, Zoology Association proposed vote of thanks to the gathering. The

Zoology Association inauguration was organized by Dr. R. Venkitachalam and Dr. V. Meiyalagan, Assistant Professors, Department of Zoology.



Chief guest Dr. K. Paneer Selvam, Scientist D, Institute of Forest Genetics and Tree Breeding lightening the kuthuvilaku.



Dr. M. Lekshmanaswamy, Principal i/c., and Head, Department of Zoology highlighting the Dynamics of the Association.



Dr. K. Paneer Selvam, Scientist D, IFGTB, delivered a lecture on “Traditional Knowledge for Wellness of the Health and Its Potentials for Bioprospecting”.



Students in Zoology Association 2019-20

Gass Forest Museum, Institute of Forest Genetics & Tree Breeding Campus, Coimbatore.

Natural history museum: 22 students of I B.Sc. Zoology visited on 5th September 2019. The officials of the museum gave a power point presentation on history of museum and exhibits. The gallery showcased a large number of stuffed forest animals like Gaur, Chinkara, Peacock, several birds, seasoned specimen of neer kadambai, and seasoned trunk of a sandal wood tree. The gallery included information on diversity of insects, reptiles, birds, mammals, forest produce (wax, rubber, honey, oil, seeds, tusks, horns, bones), produce of animals, soils, rock, minerals), fossils of trees and animals, weapons used by tribes, model huts of tribes, ropes naturally from forest, resin, lac, natural varnish and timber. The gallery was very informative to students on wild life, diversity of animals in the forest ecosystem. The visit has induced and increased the awareness and importance of forests and also instilled in them the sense of tree plantation. On the whole the visit was an enriching learning experience for the students.



Students at Gass Forest Museum



Stuffed animal exhibits



Skin

timber



Weapons used by tribes



Seeds



Butterflies



Various birds and animals



Wildlife specimens

Beetles



Bones

birds

ONE DAY TRAINING ON BEEKEEPING AT PERIYATHOTTAM, VADAVALLI

Jointly Organized by

KHADI AND VILLAGE INDUSTRIES COMMISSION

STATE OFFICE, CHENNAI - 86

One day hands on training programme on beekeeping at periyathottam, Vadavalli, was organised by Department of Zoology, Kongunadu Arts and Science College (Autonomous), Coimbatore on 20.09.2019.

Background

Honeybees are an integral part of the human food chain as pollinators of crops. As pollinators they also have an essential role in maintaining mountain biodiversity and the mountain environment. Beekeeping has contributed to rural development through the centuries by supporting agricultural production and providing honey, wax, and other products for home use and sale. To take full advantage of bees, farmers need to take a modern approach to bee management using frame hives and focusing on production of quality colonies and quality honey. The manual covers the full range of basic topics related to beekeeping development, including the importance of beekeeping in modern agriculture and the use of bees for crop pollination; production of honey, wax and other hive products; honey quality standards; and using value chain and market management to increase the benefits accruing to beekeepers. The focus is on participatory hands-on training, with issues explained in simple language with many illustrations. We are confident that this manual, and the country-specific versions based on it, will be a source of support for beekeeping training across the region, and will help marginalized mountain farmers, women and men, to develop a sustainable livelihood from bees and beekeeping, while contributing to maintenance of a healthy environment.

APIARY UNIT, PERIYATHOTTAM - VADAVALLI

MORNING SESSION





Honey bee identification



Honey bee identification of Male, Female and Drone



Bee wax and Honey extraction

The role of bees and beekeeping

Honeybees play an essential role in rural mountain communities and the environment. Honeybee products, especially honey and beeswax, are important source of income, nutrition, and medicine. Bees play an equally or even more important role as pollinators for agriculture and natural ecosystems. As pollinators, they support agricultural production, forestry, and the maintenance of biodiversity. They also help to combat soil degradation by enhancing the replenishment cycle: more

pollination, more seed set, more plants, more biomass returned to the soil, leading to less soil erosion, less flooding, and a more conducive environment for sustainable living. Four groups of bees are playing a key role in pollination - bumble bees, stingless bees, solitary bees, and honeybees among these honeybees are the most important one. It is estimated that one third of the human diet comes from insect-pollinated plants, of which honeybees provide 80% of that pollination. Honeybees are the only bee that can be managed by farmers and are the focus of this manual. Traditionally, poor and landless farmers in periyathottam areas of the Vadavalli region have found bee colonies in the apiary unit, protected them, and harvested small amounts of honey. Local tradition allows farmers to claim 'ownership' of such colonies whilst leaving them at their original nesting site, thus acting as 'guardians of biodiversity'. In recent times, beekeeping has become a more professional activity. The advent of frame hives made it possible for bees to be managed, hives to be moved around to appropriate places and honey production to be increased to commercial levels. At the same time, a reduction in natural pollinators as a result of loss of natural habitats and increased use of insecticides has made it essential in many parts of the world to keep bees for the pollination of agricultural crops.



The morning session was taken by **Er. R. Winston** who have years of experience in bee keeping. In this session we mainly obtained knowledge about the various types of bees that are cultured in India. It gave good platform for the students. **Er. R. Winston** have cleared all our doubts and enriched our theoretical knowledge on beekeeping. During this session, he confidently says proves our clear aware that bees not only have economic value bay a major role in pollen distribution.

AFTERNOON SESSION(Gass Museum)



The Diploma Apiculture students also visited the **Gass Museum situated in the**

Institute Forest Genetics and Tree Breeding (IFGTB) campus. It was opened in 15th April 1902 by Baron Ampthill, by the Governor of Madras. Initially the museum curator briefed about the museum history and well explained about the lists of preservations in the museum. The Diploma in Apiculture students enjoyed the visit to this museum. In museum they preserved various insects, birds, animals and more endemic trees. Even they have teak wooden honey bee box and preserved various types of honey products. In one hall they displayed various weapons used for poaching and cutting forest trees in earlier days. They also have very good collection of indigenous people ornaments and their crafts. They have maximum collections of butterfly and moths. The museum was well maintained by the IFGTB. Our Diploma students from various scientific disciplines were enriched their knowledge on various animals, insects and bird species.

Discussion with Students





Feedback from students

The session enriched all with good knowledge certificates were issues to participants. This training session was interesting and discussion on all aspects in basic bee keeping. After the programme we enrich ourselves to establish research programme in beekeeping at our village and student got enthusiastic to become entrepreneurs in beekeeping.



One day Beekeeping Hands on Training programme Certificate issued

by Dr. M. Lekshmanaswamy,⁸ Principal, KASC

Report on National Seminar

29th July 2019

National Seminar on “Science and Technology for Insect Diversity Conservation and Agricultural Progressive”.

A National conference on “Science and Technology for Insect Diversity conservation and Agricultural progressive” was organized by the Department of Zoology, Kongunadu Arts and Science College on **29th July 2019**. The objective was to explore the best human talents by networking the faculty and students of different institutions leading to the exchange of views and ideas. At the outset **Dr. S.**



Binukumari, Head, Department of Zoology welcomed Secretary Madam, Chief Guest, Guests of Honour, Principal, Learned professors from various colleges and the participants. The Presidential address was delivered by **Dr. C. A. Vasuki, Secretary and Director, Kongunadu Arts and Science College**, who highlighted the importance of

Biodiversity and its conservation and emphasized the significance of the Tiger conservation.

Dr. M. Lekeshmanaswamy, Principal, KASC, has delivered the inaugural address with valuable inputs on present scenario of the Insect conservation and Organic agriculture.

The Chief Guest of the National Seminar **Dr. K. Murugan, Registrar i/c & Head, Department of Zoology, Bharathiar University** delivered the keynote address and briefed the Beauty of Nature and its conservation.

The Felicitation was given by **Dr. S. Paulsamy, Dean, R&D**, Kongunadu Arts and Science College, who narrated the Insect diversity and its agricultural impact. **Dr. K. Velmurugan, Assistant Professor, Dept. of Zoology** presented the dynamics of the seminar and highlighted the motto of the National Seminar. The Inauguration ended with vote of thanks by **Dr. S. Manivannan, Assistant Professor, Department of Zoology**.

The Guests of Honour of the Seminar **Dr. N. Murugesan**, Professor (Retd), Dept. of Agricultural Entomology, Tamilnadu Agriculture University (TNAU), Srivilliputtur presented an Special lecture on “Changing Scenario of Insect Pests in Cotton”, **Dr. K. Manimegalai**, Professor, Dept. of Zoology, Avinashilingam University, Coimbatore presented an Invited lecture on “Role of insects in agriculture”, **Dr. S. Ezhil Vendan**, Scientist, CSIR-Central Food Technology Research Institute, Mysuru, presented an Invited lecture on “Plant volatiles and non-volatiles: a view on food protection and biodiversity conservation” and **Dr. B. Kaleeswaran**, Assistant Professor, Dept. Zoology, AVVM Sri Pushpam College, Thanjavur, presented an Invited lecture on “Beauty of Nature with Reference to Ants”.

Followed by the impelling and insightful presentations by invited lectures, the recapping of the seminar was presented by **Dr. T. Sakthivel, Assistant Professor, Dept. of Zoology**.

In connection to this National Seminar, to create awareness and interest among the students we have conducted a contest on 24th July 2019 for our college students in the name of our College Founder & President Dr. M. Aruchami Sir.



The theme of the seminar is **“Insect Diversity and Conservation”**. 110 students from various departments of KASC have actively participated in the **Dr. M. Aruchami Zoo** **contest** and 9 students in Quiz, 3 students in the oration and 3 students in the drawing competition

won the prizes. Our principal honoured the Guests of honour of the National Seminar by presenting memento and presented the Prizes to the successful candidates at the time valediction.



Total 148 Participants were registered from across, of which **90 from other institutions**. Along with the students and staff of various Universities and colleges in Tamilnadu, the UG students of First, Second, Third year Zoology and students of First, Second year PG Zoology of KASC were also participated in this one day National Seminar.



Our National seminar participants

OUTCOME OF THE NATIONAL SEMINAR

- ✓ This National Seminar provided a great platform to the researchers, academicians, industry experts and students to share their expertise, discuss research findings and acquire the knowledge for practical applications.
- ✓ This Seminar highlighted the significance of insects and their beneficial role in ecosystem services especially in agriculture. Importantly discussed the measures for the conservation of insect diversity among academicians, scientists and students.
- ✓ The great insight from reputed keynote and invited lectures with extensive knowledge gives a high quality seminar experience.
- ✓ This Seminar was a very successful venture as a knowledge dissemination activity with the involvement of more than 250 participants from various

ALUMNI MEET- REPORT

Date: 05.10.2019

Venue: Room Number D19

An alumni meeting was conducted on 05.10.2019 in the UG lab of Zoology Department at 2.00pm. Dr.S.Binu kumari, Head *i/c*, Department of Zoology welcomed the gathering. 48 Alumni were participated in the meeting. They shared their memories and present position in various fields. Most of the



students are pursuing their Higher studies (Masters/Research). Some students took their job after completing the degree. Feedback on curriculum were also obtained from the students, they have suggested to include some of the practicals and conduct special classes for the

competitive exams, other than this they gave good feed back on curriculum and the teaching method followed at the Department of Zoology. Teaching and Non-teaching staff of Zoology Department were also participated in the meeting and shared their views and blessed the alumni for their bright future. Finally, Ms. Monika one of the alumni proposed the vote of thanks.





Kongunadu Arts and Science College

(Autonomous)

Re-Accredited by NAAC with A' Grade 3.64 CGPA Out of 4(3 rd cycle)

College of Excellence (UGC)

Coimbatore – 641 029, Tamil Nadu, India.

Data Analysis using EXCEL and SPSS for application of Biological Science Research - 2019

Organized by

Department of Zoology

Date: 18th and 19th December 2019

Workshop on DABSR – 2019 was conducted on 18th and 19th December 2019. The workshop was attended by nearly 50 participants from various national and regional academic and research institution. The principal of the college welcomed the gathering and Dr. C.A.Vasuki, Secretary and Director presided over the workshop. Dr. K. Marimuthu, Professor, Department of Biotechnology, AIMST University, Malaysia delivered the inaugural lecture. The hands on training session was conducted by Dr. K. Marimuthu on Excel and SPSS. All the participants enhanced their knowledge on the same and were very much appreciated the speakers. Dr. T. Muthukumar, Associate Professor in Botany, Bharathiar University and Dr. S. Gandhiya Vendhan, Assistant Professor in Statistice, Bharathiyar University, Coimbatore delivered the lecture on statistical tools. To conclude, Dr. M. Lekeshamanaswamy, Principal, KASC proposed vote of thanks.