

Department of Zoology

Workshops / Training Programmes

Zoology

Title	Date	Duration	No. of Participants
Workshop on “ <i>Drosophila</i> Culture Techniques”	3.7.2009	1 day	44
	15.7.2010	1 day	41
	22.7.2011	1 day	50
	22.7.2012	1 day	39
	25.07.2013	1 day	41
Workshop on “ Crocodile Biology ”	18.2.2010	1 day	51
Workshop on “ Herpetology ”	10.1.2011	1 day	42
	18.2.2013	1 day	31
	12.02.2014	1 day	50
Workshop on “ Vermiculture and Vermicomposting ”	Aug. 2012	1 day	31
	31.07.2013	1 day	50
Workshop on “ Low Cost Nutritious Food ”	29.01.2014	1 day	45

Guest Lectures

2009- 2010

Name of the External Expert	Title of the Lecture	Designation & Host Institute
Dr. Kalpana Gowrishanker	Genetic Counselling	Genetic Consultant, Child Trust hospital , Chennai
Ms. Megha Rajaram,	Cancer Biology	Research Scholar, Cold Spring Harbor lab,New York
Dr. V. Judia Harriet Sumathy	IPR & Patenting	Assistant Professor, P.G. Dept. of Biotechnology, Women's Christian College, Chennai
Dr. Vetri Selvi	DNA Sequencing	Lecturer, Dept. of Human Genetics, Sri Ramachandra University, Porur, Chennai
Mr. Preston Ahimaz	Adyar Poonga Project	Head, Environmental Education, Pitchandikulam Forest Consultants, Adyar Poonga
Dr. Supraja Dharini	Conservation of Turtles	Chairperson, TREE Foundation

2010-11

Name of the External Expert	Title of the Lecture	Designation & Host Institute
Dr. Kalpana Gowrishankar	“Birth Defects & Genetic Counselling”	Genetics Consultant, Child Trust Hospital, Chennai.
Ms Krithika Rao	“Scope of Cell and Molecular Biology”	Research Scholar, University of Vermont, USA
Dr. P. Gandheeswari	Biomedical Instrumentation	Head, Dept. of Biomedical Instrumentation, Loyola College
Dr. Kadharbatcha S	Saleem NeuroScience research in Primates	Scientist, National Institute of Mental Health (NIMH/NIH) Lab
Dr. Sathyanarayana	Animal Protection Acts & Methods to study Animal Behavior	Head of the Wild Life Biology Department, AVC College, Mayiladathadurai
Dr. T.V. Sairam	Music and Behaviour	Chairman and CEO, Nada Institute of Music therapy
Dr. Arivudai Nambi	Impact of Climate change and lessons for the future	Project Director, M.S. Swaminathan Research Foundation, Chennai
Dr. K. Venkataraman	Biodiversity in India	Additional Director,Marine Biology Research Center, Zoological Survey of India

2011-2012

Name of the External Expert	Title of the Lecture	Designation & Host Institute
Mr. Colin Stevenson	How to save a Dragon: Conserving our Crocodiles	Director, Madras Crocodile Bank Trust
Dr. H. Devaraj	Recent trends in Biotechnology and Career Prospects	Professor, Dept. of Zoology, University of Madras
Dr. Kalpana Gowrishankar	Pedigree Analysis and its applications	Genetic Consultant, Child Trust Hospital
Ms. Gayatri	Molecular Evolution and Phylogenetic Trees	Volunteer at the Madras Crocodile Bank and Alumnus of Stella Maris College
Ms. Anusha Shankar	“Importance of Conservation Biology”.	Research Scholar, Bangalore
Dr. Sathya Radhakrishnan	Role of Animal Welfare Organizations	Blue Cross, Chennai

2012-2013

Name of the External Expert	Title of the lecture	Designation & Host Institute
Dr. Radha Venkatesan	Huntington’s Disease	Senior Scientist, M.V Diabetic Clinic
Dr. Vijayalakshmi,	DNA Sequencing and its Applications	Assistant Professor, Dept. of Preventive Oncology, Cancer Institute, Adyar
Dr. Kalpana Gowrishankar,	Hereditary Diseases and Genetic Counselling Pedigree Analysis and its application	Genetic Consultant at Kanchi Kamakoti Child Trust Hospital, Nungambakkam
Dr. V. Shantha MD,DGO	Perspectives on Cancer	Chairperson,Cancer Institute Adyar
Dr. Mercy Valarmathi Kothandam,	Patenting and IPR	Academic Visiting Scientist, University of Reading, UK
Ms. Gayathri	Ecological Modelling	Crocodile Bank, Mamallapuram
Ms. Geema,	Bioinformatics – Proteomics and Genomics	Research Scholar, University of Portugal

2013-2014

Name of the External Expert	Title of the lecture	Designation & Host Institute
Dr. Maheshwari	Washing and Storage Area in a Tissue Culture Lab	Faculty, Department of Biotechnology, SMC, Chennai
Dr.Sathish Kumar, Asso. Director & Dr. L. Ramakrishnan, Country Director	Socio-economic dimensions of HIV/AIDS	SAATHI
Dr. Priya Selvaraj	Procreation and Contraception	Assistant Director, GG Hospital
Ms. Meenakshi Narayanan	Assisted Reproductive Techniques	General Manager, Product Formulation, CavinKare India Ltd.
Dr. V. Aravindan	Human Cloning and Human Embryo Research	Scientist, Laboratory of Molecular Immunology, AU KBC Research Center, MIT Campus, Anna University
Dr. Rajkumar	“Fat to fit: Obesity, a Global Scenario”	Chairman of the Lifeline Group of Hospitals
Dr. Tanya Pereira	Basics of Bioinformatics – Proteomics and Genomics	Assistant Professor, Department of Biotechnology, Stella Maris College
Dr Ravi	Stem Cell Culture and its Applications	Assistant Professor Department of Human Genetics, Ramachandra University
Dr. Satyanarayana	Methodology in Animal Behaviour Studies	Retired Professor, Department of Zoology and Wildlife Biology, A.V.C College, Mayiladuturai - 609305
Mr. Dawn Williams	Animal Protection Laws and Compassion to Animals	Blue Cross, Chennai
Ms.Megha Rajaram	Research in Genomics	Research Scholar, Laboratory of Cellular Oncology, Center for Cancer Research, National Cancer Institute, Bethesda, MD 20892, USA
Dr.Meena	Biofuels	Associate Prof., Dept. Of Zoology, Presidency College

EXHIBITION

2009-2010

Department	Details
Zoology	An exhibition titled ' EXZOOBITION ' on various facets of zoology was organised involving I, II & III year students on 22 nd February 2010.

2010-11

Department	Details
Zoology	' EXZOOBITION ' - Exhibition on various facets of Zoology was organized by students of I, II & III B.Sc. Zoology on February 11, 2011. This event is an experiential learning process and the thrust areas were Chordata, Applied Zoology, Microbiology, Environmental Biotechnology, Physiology, and Environment related issues.

2011 – 12

Department	Details
Zoology	<ul style="list-style-type: none">• Feb. 14, 2012 - 'EXZOOBITION' - Exhibition on various facets of Zoology was organized by students of I, II & III B.Sc. Zoology. This event is an experiential learning process and the thrust areas were Chordata, Applied Zoology, Microbiology, Environmental Biotechnology, Physiology, and Environment related issues.• Aug. 26, 2011 - Exhibition to create awareness on Anemia, healthy diet to prevent anemia, diet for Anemic patients and anemia screening.

2012-13

Department	Details
Zoology	<ul style="list-style-type: none">• EXZOOBITION' - Exhibition on various facets of Zoology was organized by I, II & III year students on Feb. 6, 2013. This event is an experiential learning process and the thrust areas were Chordata, Applied Zoology, Microbiology, Environmental Biotechnology, Physiology, and Environment related issues.• Wildlife Conservation and Waste Management (Vermicompost)

2013-2014

Department	Details
Zoology	Exzoobition -Exhibition on various facets of Zoology was organized by students of I, II and III B.Sc Zoology on 19 th February 2014. This event is an experiential learning process and the thrust areas were Chordata, Applied Zoology, Microbiology, Environmental Biotechnology,

	Physiology and Environment related issues.
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Seminars / Conferences

2009-2013

Dept.	Title	Duration	No. of Participants
Zoology	A Workshop on “Immunological techniques” for faculty of city colleges on 18 th and 19 th September 2009 in collaboration with Department of Zoology, University of Madras.	2 days	18
Zoology	National Workshop on “Development of an Alternative Laboratory curriculum in Zoology to Replace Animal Dissections and Experiments with Humane Techniques” on Nov.25 and 26, 2011.	2 days	60

Department	Details
Zoology	<ul style="list-style-type: none"> Two day National Conference on “Perspectives in Ethology” from November 30 to December 1, 2012.

Industrial / Laboratory / Exposure Visits

2009 – 2010

Department	Particulars
Zoology	<ul style="list-style-type: none"> ❖ The First year students visited Siva Food Drinks, Poonamallee High Road, Chennai on 15th Jan. 2009. They gained experiential knowledge about Food Microbiology, Food Packaging and Sensory Evaluation of the Food Juices manufactured at the centre. ❖ The III year B.Sc. students undertook a Study trip to Sri Ramachandra University Porur, Chennai The laboratory visit included the following: <ul style="list-style-type: none"> • Dept. of Human Genetics, Molecular Genetics Laboratory, Tissue Culture Room, Dosimetry Laboratory, Drosophila Laboratory, Central Research Facility. These visits have been an enriching learning experience for our students enhancing their practical knowledge and their awareness on advanced instrumentation techniques used in research. ❖ The I year students visited the Livestock Research Station,

	Kattupakkam (TANUVAS) on 18th January 2010. The students were exposed to various practices relating to Poultry farming, Dairy Farming, breeding of rabbits, rearing of different varieties of sheep and goat. Ostrich Farming is the special feature of this farm as it is the only farm in India where Ostrich rearing is done.
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2010 – 2011

Department	Particulars
Zoology	<ul style="list-style-type: none"> ❖ Field trip to Indian Institute of Packaging, Perungudi for the II Yr. Vocational (Food Science) students on Feb. 7th, 2011. There was a Lecture cum demonstration on Quality Testing of Packaging Materials. ❖ ‘Nature Walk’ for the I B.Sc. Zoology students at the Guindy National Park on Sep. 4th, 2010. This National Park is home to the Black buck an endangered species, and also boasts several rare species of flora. Therefore the trip was an eye opener to the students to understand the Principles of Conservation. ❖ Visit to Central Leather Research Institute (CLRI) on Feb. 21, 2011 for the I Year Major Elective – Applied Zoology students. They gained knowledge on the various machinery used in the processing of leather. They visited the microbiology lab and the Environmental Engineering Department to know about the treatment of tannery effluents. This visit and the observations made enriched their knowledge on leather technology and waste water management. ❖ Laboratory Visit on Sep. 6th, 2010 for III years to Sri Ramachandra University, Chennai to learn the latest techniques in Genetic Engineering, Genetics, Cell Biology & Medical Lab technology. ❖ The III year General Elective students visited the Museum and Aquarium in the Zoological Survey of India on July 21, 2010

2011-2012

Department	Particulars
Zoology	<ul style="list-style-type: none"> ❖ The I B.Sc students visited the Zoological Survey of India on August 2, 2011 as part of their Invertebrata curriculum to observe the specimens in the museum and learn about Systematics. ❖ The II B.Sc students visited the Genetics, Bioinstrumentation and Biotechnology Laboratories at Sri Ramachandra University, Chennai in order to familiarize themselves with instruments, karyotyping and techniques of clinical importance on Aug. 13,

	<p>2011.</p> <ul style="list-style-type: none"> ❖ The III B.Sc students visited the Veterinary College, Vepery and familiarized themselves with the working of different types of including Electron Microscope and Bioinstruments on Sep. 13, 2011. ❖ The III B.Sc students undertook a one day field trip to a Govt. Sericulture Farm at Yelagiri hills on September 30, 2011 ❖ On December 17, 2011 the I Year students went on a Nature Walk at Guindy National Park to understand the Biodiversity. ❖ The II year GE Aquaculture students visited the Zoological Survey of India on January 31, 2012 to observe the various specimens in the museum and in the aquarium. ❖ Turtle Walk – Students of all three years participated in a turtle walk organized in coordination with the Students’ Sea Turtle Conservation Network on February 18, 2012. Mr.Arun, of the Sea Turtle Conservation Network, highlighted the causes for the dwindling numbers of the Oliver ridley turtles to the students. The turtle walk gave the students an opportunity to be a part of the conservation efforts.
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2012-2013

Department	Particulars
Zoology	<ul style="list-style-type: none"> ❖ I year students visited the Zoological Survey of India on August 6, 2012 as part of their Invertebrata curriculum to observe the specimens in the Museum and learn about Systematics. ❖ Students of the General Elective “Pet Care” visited the Blue Cross & ZSI. ❖ III year students visited the Genetics, Microbiology, Bioinstrumentation, Immunology and Biotechnology laboratories at Tamil Nadu Veterinary and Animal Sciences University, Chennai in order to acquaint themselves with current trends and sophisticated instruments used in these laboratories on Aug. 30, 2012. ❖ II year students visited the Sri Ramachandra University, familiarized themselves with the working of instruments, karyotyping and advanced microscopes on September 6, 2012. ❖ III year Major Elective Bioinstrumentation students visited Scansworld to get an idea about the construction and working of Bioinstruments used for diagnostic and research purposes on September 12, 2012. ❖ On a Nature Trail - Nature Walk - I Year students participated on a

Department	Particulars
	nature walk at the Guindy national park on January 22, 2013. The walk enabled students to appreciate the richness of our local biodiversity.

2013-2014

Department	Particulars
Zoology	<ul style="list-style-type: none"> ❖ The I year students visited the Zoological Survey of India on Aug. 8, 2013 as part of their curriculum. They visited the marine aquarium and museum there and learnt about some rare and wonderful aquatic forms. Dr. Bindu and Dr.Sivaleela, both scientists working in the ZSI, spoke to them about their research on Protozoans and Poriferans and made the students aware of species newly discovered by the ZSI and the vast expanse of organisms yet to be discovered. The students also viewed a film on marine biodiversity. ❖ The students of the General Elective “Pet Care” visited the BLUE CROSS on September 21, 2013. ❖ The III year students visited the biotechnology laboratory - MEDICLONE in order to acquaint themselves with current trends and sophisticated instruments used in these laboratories. This trip was made on September 20th, 2013. ❖ The II year students visited the Molecular Biology, Genetics and Biotechnology laboratories and the Central Instrumentation facility at Sri Ramachandra University, Porur on 7th October, 2013. They learnt the procedure for karyotyping, working of bioinstruments and also research facilities available at the University. ❖ The I year students participated in a Nature Walk in GUINDY NATIONAL PARK on January 25, 2014. The park zoologist Mr. Kamaraj spoke to the students about the differences between national parks and wildlife sanctuaries, the formation of the Guindy National Park, its management, and about the different plant and animal species that are its inhabitants. ❖ The II year students visited the Tamil Nadu Veterinary and Animal Science University (TANUVAS) Vepery, Chennai on January 28, 2014. They were taken to Microbiology lab, Genetics and Animal Breeding Laboratory and the Molecular Biology Lab where they were shown some of the instruments and techniques used. The students were also shown the scanning electron microscope and were given a lecture on the artificial insemination technique used to improve animal breeds and procure healthy animals. They were

	<p>also taken to a dairy unit where they were able to see equipment related to pasteurization of milk.</p> <ul style="list-style-type: none"> ❖ The G.E students studying about the “Concepts in Animal Welfare” were taken for a field visit to the BLUE CROSS on February 17, 2014. ❖ A few students from the Department of Zoology and the Enviro Club participated in a TURTLE WALK organized by the Students Sea Turtle Conservation Network (SSTCN) on February 22nd, 2014. The walk started after an introductory talk on turtle conservation by Mr. Arun of the SSTCN. The students were able to observe a nesting turtle and were able to participate in saving more than 300 eggs. It was an eye opener to many of the students on the need for conservation of biodiversity.
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Manuals

- ❖ Workshop manual on “Drosophila Culture Techniques” (2009-10)
 - ❖ Workshop manual on “Immunological Techniques” (2009-10)
 - ❖ Laboratory manual on “Microbiology” (2009-10)
 - ❖ Laboratory manual on “Medical Laboratory Technology and Immunology” (2010-11)
 - ❖ Laboratory manual on “Cell and Molecular Biology, Genetics and Genetic Engineering” (2011-12)
- ❖ **Intercollegiate Competitions organised** – Several competitions were organized by the Science departments to make the students experience fun filled learning in their own disciplines. This event provided an opportunity for the students to meet one another, exchange ideas and views, and showcase their talents and organizational ability. The various events included Adzap, Dumbcharades, Junk Art, Debate, Creative Writing, Photography, Paper and Poster Presentations, Collage, Crossword, Myriad, JAM and Quiz. Students from 10 to 15 neighboring Colleges participated in this event.

Department	Year	Date
Zoology - Synapse	2009-10	December 15, 2009
	2010-11	September 7, 2010
	2011-12	September 8, 2011
	2012-13	September 11, 2012