

**HANDS ON TRAINING ON MICROSCOPE –
ORGANISED BY: DEPARTMENT OF ZOOLOGY,
SACRED HEART COLLEGE, CHALAKUDY**

Report -

On 07th and 08th January, 2017, the Zoology Laboratory became a platform for gaining lab experience for school students. This programme was conducted in association with the Kerala Sasthra Sahithya Parishath which is a progressive outfit in the state of Kerala, India. It was conceived as a people's science movement. The main mission of this initiative is the challenge of arming people with the tools of science and technology so that they can reverse the process of monopolizing the benefits of science and technology by a privileged minority.

Around thirty students and teachers of nearby schools visited the Departmental laboratory to learn how to use a microscope. Ms. Jolly Thomas, the head of the department, led the workshop on “how to use microscopes” for higher secondary and high school students. About 11 students of the Department of Zoology volunteered to help conduct the event.

A microscope is an instrument that is used to magnify small objects. Some microscopes can even be used to observe an object at the cellular level, allowing scientists to see the shape of a cell, its nucleus, mitochondria, and other organelles. The major use of a microscope is to view objects which are so tiny that they are invisible to naked eye. There are various applications of this device depending on the fields it is used. It can be used to solve crimes, cure diseases, create new materials and even used for analysis of fossils which were part of history.

In the classroom, microscopes are used to teach students about the structure of things too small to be seen with the human eye alone. The individual cells of plants, animals, bacteria and yeast can all be seen using a

compound microscope which is the commonly available microscope in the laboratory.

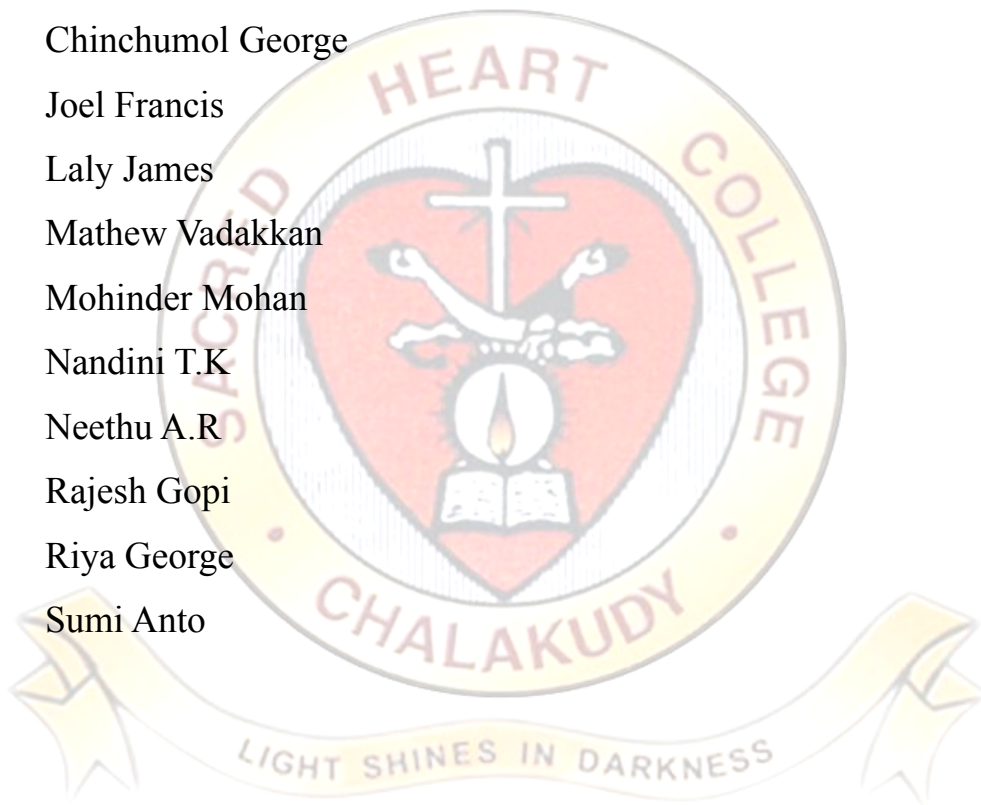
As microscopes are expensive, not every school has the financial capability to buy microscopes to teach students how to use them. Thus school students rarely get an opportunity to see a microscope let alone handle them. In order to bridge this gap in the learning experience, the department of Zoology conducted this event to help students learn how to use a microscope and to do it hands on. The students were divided into groups and each student was able to handle and adjust the microscope to view objects. After this session the students also visited the Zoology museum and got to see many specimens of animals which they have only seen in textbooks.

Though the event was conducted on Saturday and Sunday, the students of our department enthusiastically helped organise the program and also helped the school students when they were in doubt or when they encountered any problems.

List of school student participants:

- 1 Aaron Shaji
- 2 Aeden Jose
- 3 Amrutha T.S
- 4 Amulya John
- 5 Anandhu Menon
- 6 Angel therse John
- 7 Anita Francis
- 8 Anitha Nair
- 9 Anjaly A
- 10 Anjana M.S.
- 11 Anjela Thomas
- 12 Anumol K.J

- 13 Aparna T
- 14 Arathy gopi
- 15 ArjunGopal
- 16 Aromal Vijayan
- 17 Athulya Simon
- 18 Babitha Cinta Jose
- 19 Bijumon M.K
- 20 ChandiniT.K
- 21 Chinchumol George
- 22 Joel Francis
- 23 Laly James
- 24 Mathew Vadakkan
- 25 Mohinder Mohan
- 26 Nandini T.K
- 27 Neethu A.R
- 28 Rajesh Gopi
- 29 Riya George
- 30 Sumi Anto



Attendance of students participated from schools

	Name of participants.	07-01-2018	08-01-2018
1.	Anjana M.S.	<u>Anjana M.S</u>	<u>Anjana M.S.</u>
2.	Aparna T	<u>Aparna T</u>	<u>Aparna T</u>
3.	Anjaly A	<u>Anjaly</u>	<u>Anjaly</u>
4.	Babitha cinta Jose.	<u>B.c.Jo</u>	<u>B.c.Jo</u>
5.	Anamol K.J	<u>Ak.J</u>	<u>A-k.J.</u>
6.	chandini T.K.	<u>chandi</u>	<u>Chandi</u>
7.	Nandini T.K.	<u>Nandy</u>	<u>Nandy</u>
8.	Suni Anto	<u>Sunith</u>	<u>Sunith</u>
9.	Anitha Nair	<u>Anitha</u>	<u>Anitha</u>
10.	Arathy Copi	<u>Arathy Copi</u>	<u>Arathy Copi</u>
11.	chinchamol George	<u>Chinchu</u>	<u>Chinchu</u>
12.	Anita Francis	<u>Anita</u>	<u>Anita</u>
13.	Amrutha T.S.	<u>Amrutha</u>	<u>Amrutha</u>
14.	Laly Barnes	<u>L.J</u>	<u>L.J.</u>
15.	Angel thesee John	<u>A-John</u>	<u>A-John</u>

16.	Roya George	Riya George	Riya George
17.	Anjela Thomas	Anjela T.T	Anjela T.T
18.	Athulya Simon	Athulya	Athulya
19.	Amulya Siro John	Amulya John	Amulya John
20.	Neethu A.R.	Neethu A.R	Neethu A.R
21.	Anandhu Menon	Anandhulle	Anandhulle
22.	Aaron shaji	Aaron Shaji	Aaron Shaji
23.	Aromal Vijayan	Aromal Vij.	Aromal Vij.
24.	Aden Jose	Aden Jose	Aden Jose
25.	Matthew Vadakkan	Matthew	Matthew
26.	Bijuman M.K.	Bijus	Bijus
27.	Joel Francis	Joel	Joel
28.	Arjun Chopal	Arjun	Arjun
29.	Mohinder Mohan	M.M	M.M
30.	Rajesh Gopi	Rajesh	Rajesh

List of Volunteers –

1. Anisha Raveendran
2. Anupama V. Antony
3. Reshman N.S.
4. Rizwana Beegum
5. Sruthy K.C.

6. Thanseeha K. Jabeen
7. Vijithra A
8. Aleena Wilson
9. Jesny James
10. Megha T.K.
11. Aswathy V.S.

7/1/2017 – 8/1/2017 Hands on training – How to use a microscope, school students handling microscope



7/1/2017 – 8/1/2017 Hands on training – How to use a microscope, school students handling microscope



7/1/2017 – 8/1/2017 Hands on training – School students visiting the Zoology museum

