

Student Workshop on

"Fold Scope Microscope"

Organized by: **Department of Zoology**

16th February, 2019



Dr. V. Subhashini, Head, Dept. of Zoology introducing the Resource Person



Dr. Ch. Tulasi Masthanamma, Head, Dept. of Zoology, Govt. College for Women explaining about the fold scope



Students listening the lecture



Demonstration of Fold Scope by Dr. Ch. Tualsi Masthanamma

REPORT

A Workshop was conducted on Fold Scope Microscope on 16th February, 2019. Dr. Ch. Tulasi Masthanamma is the Resource Person. She is an Associate Prof. in Zoology at Govt. College for Women, Guntur.

In the first session she explained about the inventor of Fold Scope Microscope, its cost with the help of a Power Point Presentation. A fold scope microscope that can be assembled from simple components like a sheet of paper (water proof) and a lens. It was developed by Dr. Manu Prakash, an Indian and his team working at Stanford University, US. The

cost is less than one US dollar and has a magnification of 140X2000X. It can be attached to a smart phone or a computer allowing the user to take pictures of the magnification. The fold scope microscope can survive harsh conditions, including being thrown in water or dropped from a five storied building.

In the second session from 11.00 AM to 1.00 PM she gave hands on training to students about the assemblage. The Department of Zoology has purchased 4 kits and the resource person brought 8 more kits. The students are made into groups and they are asked to assemble the fold scope.

In the third session from 2 to 5 pm she gave demonstration about observing various micro-organisms that are present in a small pool of water in the college campus. Similarly she made the students to examine various food items like pani puri water, dosa mix, ice cream and cool drinks.

In the pond water students observed vorticella and paramecium. They enjoyed by observing the live movements of paramecium as well as cyclosis movements. Similarly they observed Bacillus & Cocci bacteria in the food items.

At the end of the session the resource person Dr. Tulasi was felicitated by the students and staff of Zoology Department.