

S.R.R. & C.V.R. Government Degree College (A)

An Autonomous & ISO 9001: 2015 Certified Institution:: Ranked by NIRF in 101-150 band at NIRF-2020 & 151-200 band in NIRF 2019 NAAC accredited Institution with grade B+ with C.G.P.A 2.6 during March, 2017

Machavaram, Vijayawada, Krishna District, AP-520 004

FOLDSCOPE ASSEMBLAGE NATIONAL WORKSHOP 4.10.2018



DEPARTMENT OF BOTANY

SRR & CVR Government Degree College

An Autonomous & ISO 9001: 2015 Certified Institution:: Ranked by NIRF in 101-150 band at NIRF-2020 & 151-200 band in NIRF 2019 NAAC accredited Institution with grade B+ with C.G.P.A 2.6 during March, 2017
Machavaram, Vijayawada, Krishna District, AP-520 004



DEPARTMENT OF BOTANY

Date of Activity	04.10.2018
Conducted through (DRC/JKC/ELF/NCC/NSS/ Departments etc.	Biological Sciences Departments
Nature of activity (seminar/Workshop/Extn. Lecture etc.	National Workshop
Title of the Activity	Foldscope Assemblage
Name of the Department/Committee	Department of Botany
Details of Resource Persons (Name , Designation etc.,)	Dr Tulasi Mastanamma Associate Professor GDC (W)(A) Guntur
No of students participated	62
Name of the Lecturers who planned & conducted the activity	D.Jyothi, In Charge Dept of Botany G.V. Vara Lakshmi, Lecturer in Botany V. Naga Lakshmi, Lecturer in Botany
Remarks	This Workshop was very informative and beneficial to the students .

Department of Biological Sciences SRR & CVR Govt Degree College Organized Workshop on 04.10.2018

Motive of this program:

Making the students aware about Learning about Foldscope and the process of its assemblage .

Report:

The Department of Botany organized the Guest Lecture by Dr N. Krishna garu on the Role of Molecular Markers in Plant Breeding and Applications of Markers.

The Introduction of the Resource person is given by Dr .Ch. Srinivasa Reddy , Lecturer in Botany.

Principal Dr K.Bhagya Lakshmi garu gave the opening remarks and advised the students to develop research zeal by improving knowledge and practical skills . Madam explained the positive outcomes of such Guest Lectures and how the students can benefit from such Lectures

A Foldscope is an optical Microscope that can be assembled from a sheet of paper and a lens which is developed by Manuprkash with low cost . This is an example of cheap and easy tools available for scientific use in the developing world. Mycologists developed this .

The magnification power is enough to enable the spotting of organisms such as Leishmania donovani and Escherichia coli like Micro Organisms A Foldscope can be printed on a standard A4 sheet of paper and assembled in seven minutes.

Foldscope combines low-cost materials with precision optics to create inexpensive microscopes that are affordable for communities worldwide. With a magnification of 140X, Foldscope can visualize tiny things like bacteria and microorganisms as well as larger samples like insects, plants, fabrics, and tissues.

Foldscope is made of a lens, magnets, and paper. The lens is a glass ball that magnifies things. The magnets align and place the lens, and help devices attach to the Foldscope. The remaining of the Foldscope is a waterproof paper.

- 1. To insert a sample, flip your Foldscope to the yellow side and open the back flap.**
- 2. Hold your slide so that the sample is facing down, towards the lens.**
- 3. Hold the slide vertically in the middle of the Foldscope and insert each end of the slide into the top and bottom slots on the slide stage.**

NATIONAL WORKSHOP ON FOLDSCOPE ASSEMBLAGE & USAGE.

4.10.18

Resource
Person : Tulasi Mastanamma,
Associate professor in
G.D.C women's, Guntur.



The Departments of Life sciences had organised a National workshop on Foldscope Assemblage and usage.

The workshop was conducted in college campus. Students from all branches of sciences - B.Z.C, M.B.C have participated in the programme.

Faculty members: D. Jyothi
G.v. Vasa Lakshmi
V. Nagalakshmi

Students are learning the assemblage of parts of foldscope. They are interacting and knowing the process of assemblage.



Students and faculty members are experiencing the foldscope instrument.



So far, DBT has supported 409 schools and colleges (92 schools and 317 colleges) across the country by training the teachers / faculty to use Foldscope and provided micro grant (Rs. 4 lakhs to each selected school and Rs. 8 lakhs to each selected colleges) to pursue their research activities using Foldscope. The use of Foldscope among young students has encouraged them towards science exploration and strengthening their scientific temperament. The school and colleges used foldscope for training students to visualize unicellular and multicellular cells like bacteria, fungus, protozoans, plant cells, animal cells, arthropods and exopolymeric substances.

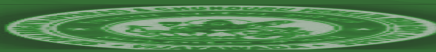
It aims to make reasonable and easy tools available for scientific use in the developing world. It is a portable, robust and versatile microscope made mostly out of paper (water-proof) that can magnify from 140x and has 1.9 μm resolution without the bulkiness and expense of a conventional research microscope.

Foldscope differs from the microscopes typically found in science labs because it's not only portable, but it also has the ability to project an image on any surface, allowing a larger group of people the ability to look at an image simultaneously.

This Workshop was very beneficial to all science students as this cost effective Microscope excites the students .

SRR & CVR Government Degree College

An Autonomous & Affiliated College of Arts, Science, Commerce, Engineering, Information Technology, Health Sciences, Veterinary and Life Sciences
Machilipatnam, Vijayawada, Krishna District, AP-520 004



DEPARTMENT OF BOTANY



STUDENT SIGNATURES AND FEEDBACK

S.No	Date	Class	Roll no/ Reg no	Signature	Remarks
1	4-10-18	II B2C	163174048	N. S. S. S. S.	useful
2	4-10-18	II B2C	163174049	P. Lakshmi	Beneficial
3	4/10/18	II B2C	163174033	K. Vennela	Good.
4	4/10/18	II B2C	163174034	S. S. S. S.	Beneficial
5	4-10-18	II B-2-C	163174037	L. Sujatha	Useful
6	4-10-18	II B2C	163174039	S. S. S. S.	Good
7	4-10-18	II B-2-C	163174049	L. S. S. S.	Good
8	4/10/18	II B2C	163174036	K. Pradeep	Useful
9	4/10/18	II B2C	163174037	K. S. S. S.	Satisfactory
10	4/10/18	II B2C	163174039	K. S. S. S.	Good.
11	4-10-18	II B-2-C	163174040	K. S. S. S.	Satisfied
12	4-10-18	II B2C	163174051	Gopi	Good
13	4-10-18	II B2C	163174052	P. Anil	useful
14	4-10-18	II B2C	163174053	P. Lakshmi	Beneficial
15	4/10/18	II B2C	163174044	M. Abhika	Good
16	4-10-18	II B-2-C	163174081	G. S. S. S.	Good

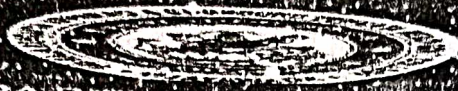




STUDENT SIGNATURES AND FEEDBACK

S.No	Date	Class	Roll no/ Reg no	Signature	Remarks
1.	4-10-18	II B EC	21317207	K. K. K. K.	Good
2.	4-10-18	II B EC	21317201	A. Prasanthi	Beneficial
3.	4-10-18	II B EC	21317209	T. Lavanya	useful.
4.	4-10-18	I B EC	21317205	K. Jagadeesh	Good
5.	4-10-18	II B EC	21317206	T. Myudula	Got awareness.
6.	4-10-18	II B EC	21317212	P. K. K.	Good.
7.	4-10-18	II B EC	21317204	Devi Naga ch	Got awareness
8.	4-10-18	III B-2	20311225	Mounika	Good
9.	4-10-18	III B-2	20311223	Shank. Baji	Useful
10.	4-10-18	III B-2	20311003	P. K. K.	Useful
11.	4-10-18	II B-2	20311216	P. K. K.	Good
12.	4-10-18	III B-2	20311213	G. K. K.	Good
13.	4-10-18	II B-2	20311227	G. K. K.	Good.
14.	4-10-18	III B-2	20311225	Devi Naga ch	Good
15.	4-10-18	I B-2	Y163174048	Narayanan	Good.
16.	4-10-18	I B-2	Y163174049	Jaya Lakshmi	Useful





STUDENT SIGNATURES AND FEEDBACK

S.No	Date	Class	Roll no/ Reg no	Signature	Remarks
17	4-10-18	BZC	Y163174050	P. Sudha Rani	Beneficial
18	4-10-18	BZC	Y163174051	P. Gopi	Good.
19	4-10-18	BZC	Y163174052	P. Anil	USEFUL
20	4-10-18	BZC	Y163174053	P. Prasanna	Good.
21	4-10-18	BZC	Y163174054	P. Renuka	Beneficial
22	4-10-18	BZC	Y163174048	Narayana	Good
23	4-10-18	BZC	Y163174049	Jaya Lakshi	useful
24	4-10-18	BZC	Y163174050	Sudha Rani	Good
25	4-10-18	BZC	Y163174051	P. Gopi	Good
26	4-10-18	BZC	Y163174052	P. Anil	useful
27	4-10-18	BZC	Y163174053	P. Prasanna	Beneficial
29	4-10-18	BZC	Y163174054	P. Renuka	Good
30	4-10-18	BZC	Y163174055	P. Rupa	Good
31	4-10-18	BZC	Y163174056	Raja R	useful
32	4-10-18	BZC	Y163174057	Mahesh Reddy	satisfactory
33	4-10-18	BZC	Y163174058	S. Barani	Good





STUDENT SIGNATURES AND FEEDBACK

S.No	Date	Class	Roll no/ Reg no	Signature	Remarks
1.	4-10-18	I BHC	21317207	K. Monila	Got awareness
2.	4/10/18	II BHC	21317201	A. Prasanthi	Use full
3.	4/10/18	II BHC	21317209	T. Lavanya	Beneficial
4.	4-10-18	II BHC	21317203	K. Jagadeesh	Beneficial
5.	4-10-18	II BHC	21317206	T. Myudula	Beneficial
6.	4/10/18	II BHC	21317212	P. Vite	Good
7.	4/10/18	II BHC	21317204	Devi Naga chi	Got awareness
8.	4-10-18	III BZC	20311205	M. Aishwarya	Good
9.	4-10-18	III BZC	20311223	Shank. Baji	Useful
10.	4-10-18	III BZC	20311203	P.	Good
11.	4-10-18	III BZC	20311216	P. Sai	awareness
12.	4-10-18	III BZC	20311213	M. Gayathri	Good
13.	4/10/18	III BZC	20311227	P.	Good.
14.	4/10/18	III BZC	20311225	Deveshi	Good

