

Dr. APJ ABDUL KALAM GOVT. COLLEGE

Estd. - 2011

(Affiliated with Gujarat University, Ahmedabad)

Beneficiary college under RUSA, MHRD, Registered on AISHE MHRD portal

Dadra and Nagar Haveli Ucchha Shikshya Samiti, Silvassa-396230

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REPORT ON STUDENT WORKSHOP

WORKSHOP TITLE: "Foldscope Assembly and Its Applications"

ORGANISED BY FACULTY OF SCIENCE

27TH OCTOBER-2019

An Inter-collegiate student workshop on "Foldscope Assembly and Its Applications" was organized by Science Faculty at Dr. APJ Abdul Kalam Govt. College, Dokmardi, Silvassa, on 27th July 2019. The workshop was organized under able guidance and cooperation of Patron, Smt. Saloni Rai, Director (Higher Education), DD and DNH and Convener, Dr. Bhagwanjee Jha, Principal, Dr. APJ Abdul Kalam Govt. College. Dr. Prakash R. Patel (Asst. Professor (Botany)) was Coordinator of the workshop, coordinated the event in association with Mrs. Aparna J. Tailor, as Organizing Secretary along with Organizing Committee members, including Dr. Chirantan M. Rawal, Dr. Sureshkumar L. Chavda, Dr. Himanshu D. Patel, Dr. Himanshu V. Chapani and Dr. Mukesh G. Nayak.

The workshop was successful due to kind cooperation extended by Gujarat Vidyapith members, Prof. Mayurkumar Shah, Dr. Prateek Shilpkar and their team and student participants. India's Department of Biotechnology (DBT, Govt. of India) is partnering with Prakash Lab at Stanford University to widely use the Foldscope across India. The Foldscope has been developed by Manu Prakash, an

Indian-origin Assistant Professor at Stanford University. The Foldscope is an origami-based print-and-fold optical microscope that can be assembled from a flat sheet of paper. It costs less than a dollar in parts and can provide over 2,000 times magnification at a sub-micron resolution (800nm).

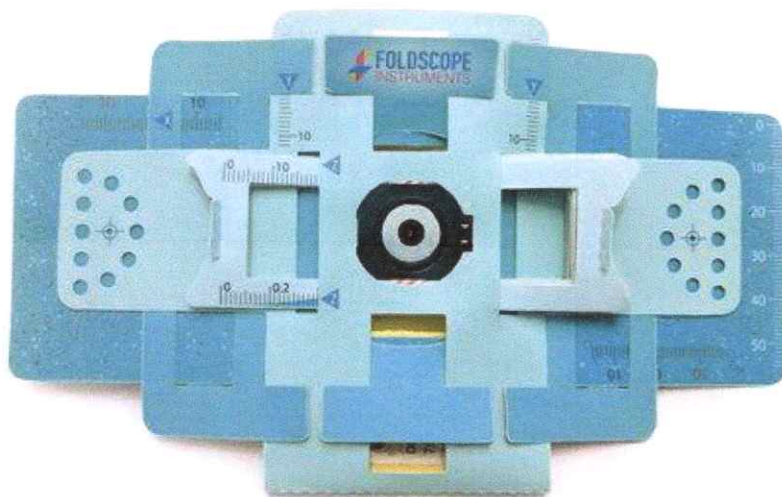
The workshop began in time at 10:30 with formal inauguration ceremony in presence of The Principal, Dr. APJ Abdul Kalam Govt. College. The inaugural ceremony was coordinated by B. Sc. Semester VI Students, Muskaan Singh and Pooja Prasad, in association with faculty members of Science stream. Respected Principal, Dr. Bhagwanjee Jha sir motivated students with his inspiring speech and appreciated Gujarat Vidhyapith team for making it happen to come to our college and make our students learn new things.

Immediately after inauguration, **a short presentation was given by Dr. Prateek Shilpkar, on Foldscope and its applications.** It was very informative and enhanced student's enthusiasm to move ahead with the Foldscope assembly. Sir also focused on other inventions of **Dr. Manu Prakash such as Paperfuge and focused on its applicability in remote areas.** Further ahead, students were divided in various teams of 6 members and then the actual Foldscope assembly was initiated with the help a video demonstration, with continuous assistance of the team members, taking care that each student does it properly and it took about two and half hours. **Each team was given a separate Foldscope kit and the Foldscope assembled by the respective team was given away to the Team Representative.**

The objective of the workshop to help advances in the field of education and health by creating curiosity and excitements among students and faculty for scientific

exploration was achieved successfully with 86 student participants from various colleges of Dadra Nagar Haveli and Daman, viz. Dr. APJ Abdul Kalam Govt College; SSR college of Arts, Commerce and Science; Smt. Devkiba Mohansinhji Chauhan College and Govt. College, Daman. The students thoroughly enjoyed the video lecture session and then the actual assembly of Foldscope on their own. Every student team had been given a Foldscope to the team representative by the organizing college.

The workshop provided an excellent platform for the students representing different Colleges of Dadra and Nagar Haveli to interact with each other and the academicians from Gujarat Vidhyapith. The workshop ended with a vote of thanks given by Dr. Prakash R. Patel, Workshop Coordinator and Assistant Professor (Botany).



VIEW OF AN ASSEMBELED FOLDSCOPE



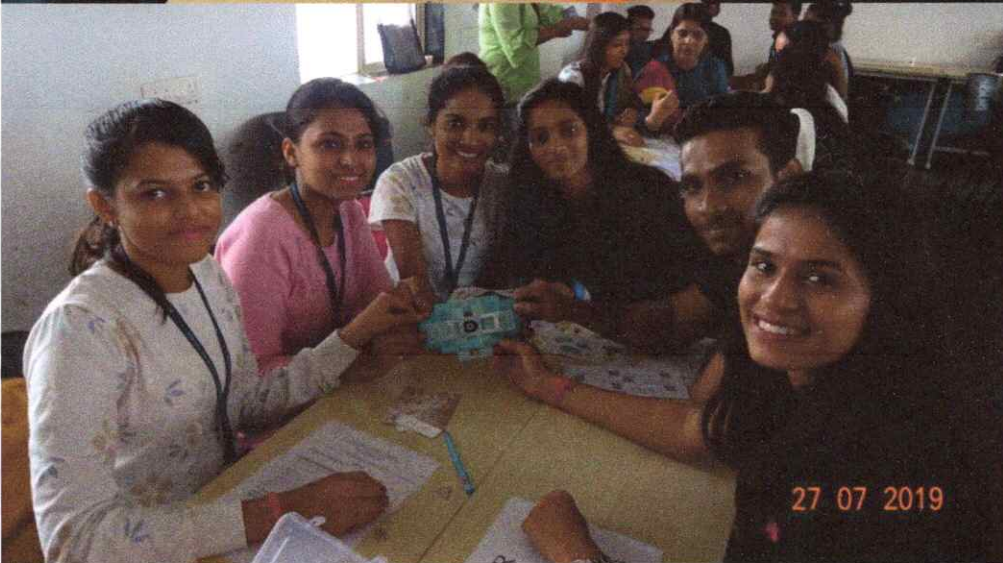




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Report on student workshop "Foldscope Assembly and Its Applications"



Report prepared by: Dr. Prakash Patel

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