

DATES TO REMEMBER

Last date for e-mail registration with DD:

30.11.18/7.12.18/14.12.18/ 21.12.18.

Participants are requested to register with registration fee in the form of Demand Draft drawn in favor of "The Principal, SVCE, Sriperumbudur" payable at Indian Bank, Sriperumbudur. Send the completed registration form and scanned copy of the DD through email for confirmation.

BONAFIDE CERTIFICATE

(For College students only)

Mr./Ms. _____ is permitted to attend One Week National Level workshop on "**Foldscope and its Applications**" from Dec 3-8 / 10-15 / 17-22 / 24-29 at Sri Venkateswara College of Engineering, (Autonomous), Sriperumbudur Tk, Tamilnadu.

Date: _____ Signature
(Designation & Seal)

BONAFIDE CERTIFICATE

(For School Students only)

Mr./Ms. _____ is permitted to attend "National Level workshop on "**Foldscope and its Applications**" on ___ Dec, 2018 at Sri Venkateswara College of Engineering (Autonomous), Sriperumbudur Tk Tamilnadu.

Date: _____ Signature
(Designation & Seal)

Mailing Address

Mr. S. Naga Vignesh
Principal Investigator (PI)
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One Week National Level Workshop on "Foldscope and its Applications" December 3rd – 29th, 2018 (Four Batches)

REGISTRATION FORM

1. Name:
 2. Designation:
 3. Age:
 4. Participant Category: Student / Faculty /Industry
 5. Std/ Branch & Year:
 6. Name of the Institution/ School with postal address:
 7. Preferred Duration: 3-8/10-15/17-22/24-29, Dec 2018
 8. E-mail ID & Mobile number:
 9. Preferred Date for School students (One Day):
 10. Registration fee:
Demand draft No. & Date:
Bank Name:
- Declaration**
I agree to abide by the rules and regulations of the programme.
- Place: _____ Date: _____ Signature _____
(Copy of this form can be used for individual registration)

**SRI VENKATESWARA
COLLEGE OF ENGINEERING**
(Autonomous -Affiliated to Anna University, Chennai)
Accredited by NBA, New Delhi

Sponsored by
DEPARTMENT OF BIOTECHNOLOGY
Government of India, New Delhi



सत्यमेव जयते

One Week National Level Workshop on
"Foldscope and its Applications"
December 3rd – 29th, 2018
(Four Batches)



CONVENERS

Prof. M. Sivanandham
Prof. E. Nakkeeran

ORGANIZING SECRETARY

Mr. S. Naga Vignesh

COORDINATOR

Ms. P. Jaibiba

Organized by

Department of Biotechnology
Sri Venkateswara College of Engineering
(Autonomous)
Pennalur, Sriperumbudur Tk Tamilnadu - 602 117

ABOUT THE INSTITUTION

Sri Venkateswara College of Engineering (Autonomous), one of the premier self financing technical institutions in Tamilnadu, was established in 1985. It attained autonomous status in the year 2016. The college offers 10 UG programmes and 10 PG programmes. The National Board of Accreditation (NBA) accredited many of the eligible programmes and SVCE is an ISO 9001:2015 certified institution. The courses are approved by AICTE and affiliated to Anna University, Chennai. The college is also accredited by National Assessment and Accreditation Council (NAAC). The college is spread over 95 acres of land, situated at about 37 Km from Chennai on the Chennai – Bangalore National Highway (NH-4) at Pennalur, Sriperumbudur Tk. The main objective of this institution is to impart knowledge to faculty members, under graduate, post graduate and research students.

ABOUT THE DEPARTMENT

Sri Venkateswara College of Engineering started the Department of Biotechnology in the year 2005 under the guidance of our Chairman Dr. A. C. Muthiah, a well-known Industrialist in order to explore and experience new frontiers of Biotechnology. The department offers B.Tech and M.Tech Biotechnology programme under Anna University, Chennai, approved by AICTE. It is NBA accredited also approved as a Research Center in Biotechnology for Ph.D. programme by Anna University, Chennai. The department received research grants from various funding agencies such as DBT, SERB, ICMR, AICTE, MSME, TNSCST and CTS. Also received grants for organising several short term training courses, workshops, faculty development programme from DBT, ICMR, CSIR and EDII.

ABOUT FOLDSCOPE

Foldscope is an origami paper microscope designed and developed by Dr. Manu Prakash and Jim Cybulski from Stanford University. It has multiple micro-lens kit capable of 140X - 2000X magnification and 1.9 micron resolution. It can be attached with smartphone allowing the user to take pictures with the magnification. The magnification power of this pocket size microscope is enough to enable spotting of plant & animal cells and micro organisms such as *Lesishmania*, *Escherichia coli*, malarial parasites, etc.

ABOUT DBT INITIATIVES ON FOLDSCOPE

The Department of Biotechnology (DBT), Ministry of Science and Technology, Government of India in partnership with Foldscope Instruments Inc. and Prakash Lab (Stanford) reached out to school students, teachers, scientists & citizen-scientists from across India to support use of origami paper Foldscope to popularize science and trigger excitement in it. DBT looks forward to hold more workshops and distribute the Foldscopes to the most resource constraint schools and colleges of India. Eventually, in a couple of years, every student will carry a Foldscope geometry box as part of the school kit.

WORKSHOP OBJECTIVE

The main objective of this workshop is to provide awareness and training on foldscope and its potential applications in biodiversity, ecology, agriculture and microorganisms in human health. It shall provide the platform to the principal investigators across the country and research scholars for collaboration, twinning and exchange of ideas. In this event, utilization of foldscope in diversified areas of research and application could be explored.

WORKSHOP COURSE CONTENT

The workshop will majorly cover the following categories
Visualization of unicellular and multi cellular cells like bacteria, fungus, protozoans, plant cells, animal cells, arthropods and exopolymeric substances.

VENUE & TRANSPORTATION

This One Week National Level Workshop is organized at Sri Venkateswara College of Engineering (Autonomous), Sriperumbudur during December 3rd-29th, 2018 for **four batches**. The participants can avail the SVCE bus facility to attend this workshop. For route details, please refer www.svce.ac.in.

ELIGIBILITY

School children (VIIth - XIIth Std), school teachers, college students, faculty members from Arts and Science/Engineering colleges. The total number of participants is limited to 20 per batch.

REGISTRATION FEE

School Children/ Teachers : Rs. 200
B.Sc/M.Sc/B.Tech/ M,Tech students: Rs. 1000
Faculty members/ Industry persons : Rs. 1500
Principal Investigators : Rs. 2000

Registration fee includes breakfast and lunch during the course of workshop.

*For school children and teachers duration of the workshop is one day only.

*For Principal Investigators and research scholars assistance will be provided for accommodation and field visit.

*For College students Foldscope based mini project will be offered upon availability.

* Basic foldscope kit with glass slides, cover slips, mounting agents, droppers, forceps etc, will be provided based on payment of Rs.600 (Optional).

*The Principal Investigators can take part of the workshop by handling the session and demonstrate their research findings based on the foldscope.

Report on National Workshop on "Foldscope and Its Applications"

National Level Workshop was organized at Sri Venkateswara College of Engineering (Autonomous), Sriperumbudur during December 24th – 29th 2018. In total 6 external and 25 internal participants were participated. Prof. Ganesh Vaidyanathan, Principal, SVCE inaugurated the workshop. Participants visualized Plant Cell, Stomata on leaf peel, Mitosis on root tip, Pollen, Pollen germination, Stem Lignin, Vacuole and Plant cell membrane using the foldscope.

In the consecutive days using foldscope they visualized Bacterial cells by Gram's staining, Bread Mold, Budding in Yeast, Fungus from Grass plug, Acid Fast Bacteria using Ziehl Neelsen's method, Spores and Osazone crystals.



S. Ganesh

E. Nakkseran

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