



Sonopant Dandekar Shikshan Mandali's

**SONOPANT DANDEKAR ARTS, V. S. APTE COMMERCE
AND M. H. MEHTA SCIENCE COLLEGE**

Palghar, Dist. Palghar, Pin - 401 404.

Code.: (02525) 252163, Prin : 252317 • Resi. : 252316

website : www.sdsmcollege.com • Email: sdsmcollege@yahoo.com

Ref. No. :

Date : 15/04/19

To,
The principal,
S.D.S.M college
Palghar,

Sub : Permission to organise a workshop on "Research based pedagogical tool "

Respected sir,

We at the Department of Biotechnology in association with the Indian institute of Science Education (IISER ,PUNE) would like to jointly organise a workshop on Research based pedagogical tools in our college in the last week of JUNE 2019 .

We would be inviting lecturers from other colleges in our Palghar region . We would be charging them for refreshments and stationery.

We kindly request you to permit us for the same.

Yours faithfully ,

Dr. Shilpa .M .Gharat

Date :18/06/2019

Notice

We at Shri-Dahyabhai Amritlal Shah Institute of Biotechnology of our College is arranging a two day workshop on “**Research Based Pedagogical Tools**” in association with Centre of Excellence for Science and Mathematics Education (CoESME), **IISER PUNE** and **Newton Bhabha Fund, British council** as knowledge partners on 28th & 29th June 2019. The workshop aims to equip teachers with pedagogical tool to teach maths and science by involving students in the process of arriving at scientific concepts.

The workshop is compulsory for the teachers from Mathematics and Science department [Physics, Botany, Zoology, Chemistry, C.S, I.T, and Biotechnology] of our college. Registration for the same can be done through the online link provided in the message as well as the brochure.

Venue: Late Shri Ganesh Neelkanth Dandekar Seminar Hall

Date: 28th and 29th June 2019

Time: 9:00 am to 4.30pm



A handwritten signature in black ink, appearing to read "Kulane".

Principal
Sonopant Dandekar Arts College
V. S. Apte Commerce College &
M. H. Mehta Science College,
PALGHAR (W.R.)
Dist. Palghar, Pin 401 404.

About the College

Sonopant Dandekar Shikshan Mandali was brought into existence in August 1968 to commemorate the late Principal Sonopant Dandekar. The college campus extends over nearly 21 acres. Besides regular academic schedule as prescribed by The University of Mumbai, the college puts emphasis on development of student's personality, their critical ability & work ethics so as to enable students to prepare themselves into the fast changing competitive world. Along with regular graduate courses in the faculty of art, commerce, science, Management and Law, the college also provides the facility of computer education, varied short term courses, courses of open university & thus constantly is working towards the development of people in and around Palghar District.

About the Department

Shri. Dahyabhai Amritlal Shah Institute of bio-technology was established in 2005. The department aims to impart quality education in the field of biotechnology at par with industrial standards and to nurture the spirit of innovation and creativity in students. We thrive to create biotechnology graduates with conceptual as well as application based understanding. Faculties of the department are working arduously towards the objectives of imparting knowledge and skills adept with employability of the stakeholders, develop entrepreneurial skills thus contributing to nation building.

About CoESME

(Centre of Excellence in Science and mathematics Education at IISER Pune)

The Centre of Excellence in Science and Mathematics Education (CoESME) at IISER Pune has been set up as a part of the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching under the ambit of the Ministry of Human Resource Development (MHRD), Govt. of India. The center is set up for capacity building of teachers through development programs designed to suit specific needs of teachers at schools and colleges. They have explored approaches such as inquiry-, research- and activity-based pedagogy to identify tools that can be adapted to suit all age-group, language and socio-economic background of students. They focus on developing and disseminating teaching methods that help students imbibe the process of science instead of just information, the programs provide a platform for teachers to meet their peers, form professional networks and exchange ideas & challenges in teaching and education. CoESME, also conducts one month long induction training program for newly recruited college teachers, designed to introduce them teaching tools that help students develop critical thinking and problem-solving abilities. The workshops are organized with support from the/DST (Govt. of India) and the British Council.



Knowledge partners:



SONOPANT DANDEKAR SHIKSHAN MANDALI'S S. D. ARTS, V. S. APTE COMMERCE, M. H. MEHTA SCIENCE COLLEGE, PALGHAR

Shri Dahyabhai Amritlal Shah Institute of Biotechnology

IN ASSOCIATION WITH KNOWLEDGE PARTNERS

Centre Of Excellence in Science and Mathematics Education
(CoESME)

Indian Institutes of Science Education and Research, IISER, PUNE
AND
NEWTON BHABHA FUND, British Council

Organizes

Faculty Development workshop on
Research based Pedagogical tools

On

28th & 29th June 2019



Address-
Sonopant Dandekar College
Kharekuran Road, Palghar (W), Maharashtra 401404

Organizing committee-

Patrons

Adv. Shri G.D.Tiwari	President, Sonopant Dandekar Shikshan Mandali, Palghar
Shri. Chandrakant N. Dandekar	Vice president, Sonopant Dandekar Shikshan Mandali, Palghar.
Shri. Sunil G. Chitre	Vice president, Sonopant Dandekar Shikshan Mandali, Palghar
Shri. Hitenra D. Shah	Treasurer, Sonopant Dandekar Shikshan Mandali, Palghar
Prof. Ashok R. Thakur	Secretary, Sonopant Dandekar Shikshan Mandali, Palghar
Shri Atul K. Dandekar	Secretary, Sonopant Dandekar Shikshan Mandali, Palghar
Shri Jayant V. Dandekar	Joint Secretary, Sonopant Dandekar Shikshan Mandali, Palghar

KNOWLEDGE PARTNERS

Centre Of Excellence in Science and Mathematics Education
(COESME)
Indian Institutes of Science Education and Research, IISER, PUNE
AND
NEWTON BHABHA FUND

ADVISORY COMMITTEE

Dr. Kiran J Save- Principal, S.D.S.M College, PALGHAR
Dr. Anupma Harshal- INDO-US Foldscope Awardee,
Ministry of Science and Technology.

CONVENER

Dr. SHILPA. M.GHARAT- HOD Biotechnology, S.D.S.M College, PALGHAR

ORGANIZING SECRETARIES

ASST.PROF : SHAILAJA .P.PALAN
ASST.PROF : RUNALLP.RAUT

ORGANIZING COMMITTEE

Dr. HARSHAD VANMALI ASST.PROF APURVA SAVE
ASST.PROF SHAGUFFTA KAZMI ASST.PROF ISHWARI MEHTA
ASST.PROF NIYATI TIWARI

Resource persons-

Dr. ANUPMA HARSHAL- INDO-US Foldscope Awardee,
Ministry of Science and Technology.

Dr. JITENDRA PENDHARKAR: Assistant Professor,
Dept. of Physics, K.J.Somaiya College of Science
& Commerce

Dr. Amruta Kothare- Research Scholar,
Dept. of Life science, K.C. College.

Registration details:

Link for online form-
<https://forms.gle/ZCSTL542cu119fRa8>

Registration Fees- 700/-
(includes breakfast, lunch, tea, stationary and certificate)

Mode of Payment:
NEFT/DD/RTGS

Account details:

Account name: PRINCIPAL SD ARTS VSA COM & MHM
SC COLLEGE
Account No: 059200100016200
IFSC Code: SRCB0000059

CONTACT INFORMATION:

Email ID- sdsmbiotechnology05@gmail.com

Contact Numbers:

Ishwari Mehta - 9833825453
Shailaja Palan - 8698707043

Accommodation :

Accommodation can be made available at additional charges, with prior notice. Kindly contact for additional help.

Limited Seats Available.

Schedule For Workshop

Friday 28th June 2019

9.00 am - Breakfast, Registration and Kit distribution
9.40 am - Inauguration and Welcome speech
By Principal, Dr. Kiran J. Save
9.45am - Innovative technique RBPT
By Dr. Anupma Harshal
11.00am - Introduction to RBPTS & Creating
Rubrics
Dr. Jitendra Pendharkar
12.00pm - Elements of Enquiry,
But will it fly? - paper plane,
Components of Enquiry
Dr. Anupma Harshal
1.15 pm - Lunch
2.15 pm - Crafting your own RBPT
Dr. Amruta Kothare
3.15 pm - Tea Break
3.30 pm - Groupwise preparations of RBPT

Saturday 29th June 2019

9.00 am - Breakfast
9.30 am - Preparing RBPTS
Dr. Jitendra Pendharkar
10.30 am - Preparing RBPTS
12.00pm - Preliminary review of Posters
Dr. Anupma Harshal
Dr. Jitendra Pendharkar
1.00 pm - Lunch Break
2.00 pm - Making of Final RBPT
3.15 pm - Tea Break
3.30 pm - Presentations
4.30pm - Valedictory Function



Workshop on
Research Based Pedagogical Tools

Organized by
Shri Dahyabhai Amritlal Shah Institute of Biotechnology,
Sonopant Dandekar College, Palghar.

In association with
Centre of excellence in Science and Mathematics Education (COESME), IISER, Pune
& Newton Bhabha Fund, British Council.

Knowledge partners:



Time	Activity	Format	Venue	Trainer
Friday 28th June 2019				
9.00am	Breakfast, Registration and Kit distribution			
9.40 am	Inauguration and Welcome speech by Principal, Dr. Kiran J. Save			
9.45am	Innovative Teaching - RBPT Research based pedagogy as an innovative training method leading to student autonomy. Orient participants towards expectations and learning outcomes from the workshop.	Introductory talk	Plenary	Dr. Anupma Harshal
11.00am	Introduction to RBPTs – background, concept of research, goals of RBPT, Rubrics: Useful Assessment Tools.	Presentation	Plenary	Dr. Jitendra Pendharkar
12.00pm	Elements of Enquiry But will it fly? - paper plane Components of Enquiry Summation of the activity.	Mixed Group activity	Group Activity	Dr. Anupma Harshal
1.15pm	Lunch			
2.15pm	Crafting your own RBPT Explain structure of RBPT (Context, problem, activity, assessment etc.), describe each element in detail, importance of context and how to set good context; demonstrate how problem & activity components of RBPT center around open-ended questions, difference between RBPT and project.	Presentation	Plenary	Dr. Amruta Kothare
3.15am	Tea Break			
3.30am	Subject wise groups, topic selections and preparations for preparing your own RBPT [Revise 5R and refer 3C3R Model]	Group activity	Subject wise	All Trainers
Saturday 29th June 2019				
9.00 am	Breakfast			
9.30 am	Preparing RBPTs Delegates work in groups to produce rough draft of RBPTs suitable for their particular subjects and circumstances. Inputs – formation of groups, instructions, guide participants regarding selection of topics, and course correction	Group activity	Subject wise	All Trainers
12.00pm	Preliminary review of Posters – A wish and a Star – Each participant peer reviews posters, followed by trainers review of posters and general feedback applicable to all.	Group activity followed by discussion by trainers	Subject wise Or Mix	All Trainers
1.00 pm	Lunch Break			
2.00 pm	Making of Final RBPT	Group	Subject wise, All Trainers	
3.15 pm	Tea Break			
3.30 pm	Presentations	All	MIX	All Trainers
4.30pm	Valedictory Function			

Venue: All Plenary sessions and Valedictory function: Late Shri. Ganesh Neelkanth Dandekar Seminar Hall, Ground floor, R.H. Save Institute of Management Studies & Research Center.
Group activity: Biotechnology Labs, 1st Floor, Main Building.



Knowledge partners:

Workshop on
Research Based Pedagogical Tools



Organized by
Shri Dahyabhai Amritlal Shah Institute of Biotechnology,
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4.30pm	Valedictory Function			

Venue: All Plenary sessions and Valedictory function: Late Shri. Ganesh Neelkanth Dandekar Seminar Hall, Ground floor, R.H. Save Institute of Management Studies & Research Center.
Group activity: Biotechnology Labs, 1st Floor, Main Building.

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**Shri Dahyabhai Amritlal Shah Institute of Biotechnology,
Sonopant Dandekar College, Palghar.**

In association with Knowledge Partners

**Centre Of Excellence in Science and Mathematics Education (COESME), IISER, Pune
and**

**Newton Bhabha Fund
RBPT workshop (28th June & 29th June 2019)
Feedback form**

1. About You & Your college-

1. Name: _____

2. What is your ID Number? (Written on your ID Card) _____.

3. Gender: Male Female other

4. Age: 21-24 25-34 35-44
 45+ Prefer not to answer.

5. Job Title: Professor Associate Professor
 Assistant Professor Adhoc lecturer
 Part time lecturer/ Guest lecturer other

6. Name of the college/ Institute & address:

7. How many years have you been teaching? _____ years.

8. In which discipline was your bachelors/ masters/ Ph.D. Degree?
 Biotechnology Microbiology Botany Zoology Mathematics
 Statistics Physics Chemistry Other

9. Your college is: Autonomous
 following the syllabus of _____ University.

10. How is your college funded? Fully government funded
 Government aided Private
 Partial aided & partial unaided.

B. Before the workshop:

Add two things you want to get from it.

1. The RBPT team wants to understand the key features of Research based Pedagogical Tools & be willing to try them at your college.
 2. I want to _____
 3. I want to _____
-

C.Near the end of workshop:

Sr. no.	Please tick in the correct column for the statements below.	Strongly Agree	Agree	Don't know	Disagree	Strongly Disagree
1.	Did this workshop meet your expectations?					
2.	I understand enough about RBPTs to try some in my class.					
3.	I can identify the key characteristics of a good RBPT.					
4.	I can identify the key benefits of RBPTs for my teaching.					
5.	I believe that RBPTs could help teaching & learning in my department.					
6.	I believe that my students will enjoy learning using RBPTs more than listening to lecturers.					
7.	The workshop helped me to gain skills to develop RBPTs to use with my students,					
8.	I can assess students when they are studying with RBPTs.					
9.	RBPTs will never work at my college.					
10.	My students have poor research skills & would find RBPTs very demanding.					
11.	I feel confident I could convince at least some of my colleagues to try a RBPTs approach.					
12.	The teaching approaches in RBPTs are very new to me.					
13.	The most important issue we face at college is covering the required content in time.					
14.	I am likely to use at least one RBPT in my teaching this year.					
15.	Most of my colleagues would be very excited to hear about RBPTs.					

D.Consent:

If you are happy to be contacted for feedback or data collection, please supply your name & email address below:

Name: _____ Email: _____

Do you have any suggestions/ Any comments (please share)

Thank you for completing this form. Please, submit it back to one of the RBPT team member.

College logo

Newton Bhabha fund logo

IISER, Pune logo



भारतीय विज्ञान शिक्षा एवं अनुसंधान संस्थान, पुणे
INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH, PUNE

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Date: 24/07/2019


To,
The Principal,
Sonopant Dandekar College, Palghar.

Dear Sir/Madam,

Centre of Excellence in Science and Mathematics Education (CoESME), Indian Institute of Science Education and Research (IISER) Pune was happy to be associated as knowledge partner for the two-day workshop on "Research based Pedagogical Tools (RBPTs)" that your college had organized on 28th and 29th June, 2019.

The trainers for the workshop, Dr. Anupama Harshal, Dr. Jitendra Pendharkar and Dr. Amruta Kothare have successfully completed two levels of training on RBPTs conducted by CoESME, IISER Pune. The event was hosted by Dayabhai Institute of Biotechnology and was coordinated by Dr. Shilpa Gharat.

We appreciate your efforts in popularizing this method of teaching and spreading this new pedagogical tool further among teachers from the Palghar region.


Dr. Apurva Barve
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Department of Biotechnology

EVENT REPORT

Name of the Event - Workshop- “Research based Pedagogical tool”

Date - 28th June 2019 & 29th June 2019

Time - 9.00 am to 5.00 pm

No. of Students Participated – 70

AIM: To organize workshops on research based pedagogical tools for teachers in association with IISER, PUNE.

OBJECTIVES:

To help the faculties to find solutions to particular problems arising in the classroom.
To develop professional learning of knowledge and teaching skills
To connect teachers with available sources of information and networks to the students.

LEARNING OUTCOMES:

Teachers learned teaching skills and professional learning of knowledge.
Teachers got connected with other institutions and resource persons.
Faculties learned new skills to handle problems coming in the classroom.

Report:

Department of Biotechnology organized a two-day Regional Workshop on “Research based Pedagogical tool” at Sonopant Dandekar College, Palghar in association with knowledge partners Centre of Excellence in Science and Mathematics Education (COESME), IISER, Pune & Newton Bhabha Fund, British Council, on 28th and 29th June 2019. Many faculties from in and around Palghar district participated in the workshop. Dr. Shilpa M. Gharat was the convener of this workshop. Participant faculties were guided by insightful resource persons Dr. Anupma Harshal (INDO-US Foldscope Awardee, Ministry Of Science And Technology), Dr. Jitendra Pendharkar (Asst. Professor, Department Of Physics, K.J.Somaiya College Of Science And Commerce) And Dr. Amruta Kothare (Research Scholar, Department Of Life Science, K.C.College).

Dr. Shilpa M. Gharat
Head, Department of Biotechnology

1. Photo of the newspaper article about the RBPT workshop



2. Photo of the newspaper article about the RBPT workshop



3. Photo of guest and dignitaries sitting on the dais



4. Photo of participants actively participating in the Teaching research workshop

