

Annual Report (2017-18)



Shree Warana Vibhag Shikshan Mandal's

Warana Science & Innovation Activity Centre

Warananagar

Project Aided by: **Rajiv Gandhi Science and Technology Commission,**
Govt of Maharashtra

Executed by: **NCSM, Govt. of India & Nehru Science Centre, Mumbai**

Shree Warana Vibhag Shikshan Mandal, Warananagar (SWVSM)

Shree Warana Vibhag Shikshan Mandal (SWVSM) is the revolution in education; incepted in 1964, by the great visionary **Hon. Sahakarmaharshi Late Tatyasaheb Kore**, Founder President of Warana Industrial & Educational Complex, the epitome of Co-operative movement in India, Maharashtra in particular; with the mission 'नवमानवा साकारू, हाच शिक्षणाचा महामेरू' means 'to bring reformation into humans by value based education'.

SWVSM is one of the quintessence co-operative organization with success story of more than 5 decades, that speaks about the encouragement and support of Management; **Hon. Dr. Vinayji Kore (Savkar)**, President, Warana Industrial & Educational Complex; the commitment of Dr. Mrs. Vasanti Rasam, Administrative Officer, SWVSM; dedication of the teaching and non-teaching staff and consistent efforts been put by students.

With 300 acres sprawling campus, state-of-the art facilities provides appropriate environment for learning beyond traditional boundaries.

We introspect over the past, and embark on the pursuit of its vision of becoming the fountainhead of innovators in basic and higher education.

Salient Features

- Lush, esthetic educational campus
- State-of-the-art infrastructure to learn, rejuvenate and recreate
- Affluent teaching-learning-research facilities
- Economical and convenient living for students through 9 boy's and 3 girl's hostels.
- Housing for teaching and nonteaching.
- Un-interrupted electricity supply with back-up of 125 KVA
- Social belongingness of the society, working dedicatedly for all the sectors of society kith and kin of farmers and poor
- Transport facilities
- 10000 students taking their education from KG to Ph. D.
- 1000 qualified and dedicated staff
- 24 hrs water supply
- 44 mbps internet with dedicated lease line and Wi-Fi
- Medical emergency facilities
- Bank extension counter with ATM facilities

Schools under SWVSM

- Shree Warana Vidyamandir, Warananagar
- Shree Warana Vidyalaya, Warananagar
- Tatyasaheb Kore English Academy, Warananagar
- Tatyasaheb Kore Military Academy, Nave-Pargaon
- Vilasrao Kore International School, Amrutnagar

These schools are model schools with high repute and concern to the value education. All these schools put their sincere efforts to transform kids into vibrant learner.

Institutes of Higher education

- Yashwantrao Chavan Warana Mahavidhyalaya (Junior and Graduate)
- Tatyasaheb Kore Institute of Engineering and Technology (TKIET)
- Tatyasaheb Kore Institute of Engineering and Technology (Polytechnic)
- Tatyasaheb Kore Industrial Training Institute
- Tatyasaheb Kore Training cum Production Centre
- Tatyasaheb Kore College of Pharmacy (B. Pharm. & M. Pharm.)
- Tatyasaheb Kore College of Pharmacy (D. Pharm.)
- Tatyasaheb Kore Shikshanshastra Mahavidyalaya (B. Ed.)
- Savitribai Vishwanath Kore D. Ed. College
- Shrimati Shobhatai Kore Warana Mahila Mahavidyalaya, Yelur

SWVSM is tendering eminence higher education through these institutes to translate students into potential employee and a responsible citizen of India. NAAC & NBA accreditation of TKIET, NAAC accreditation of Y. C. Warana Mahavidhyalaya and NIRF ranking of Tatyasaheb Kore College of Pharmacy is the proof for the same.

Warana Science and Innovation Activity Centre (WSIAC):

SWVSM's Warana Science and Innovation Activity Centre, Warananagar is a unique place to learn concepts in science and mathematics through activity-based-learning. It was inaugurated by the auspicious hands of eminent scientist Hon. Dr. Anil Kakodkar on 24th Feb. 2017. It aims to develop scientific quest in young minds, to stimulate curiosity and to understand theories in science and their applications, and to motivate rural students to take science as a career.

With the constant motivation of **Hon. Dr. Vinayji Kore (Savkar)**, President, Warana Industrial & Educational Complex and support of Dr. Mrs. Vasanti Rasam, Administrative Officer, SWVSM; the team of WSIAC takes all the efforts to serve the purpose of the centre.

Day-to-day Activities:

Starting from May 2017, students and teachers from all over Maharashtra have visited this centre. Till the date more than 12800 students and 500 teachers of 110 schools and colleges have visited this centre. The centre has three indoor labs namely, Innovation Lab, Fun Science Lab, Exhibition & Multipurpose Hall and outdoor exhibits called Science Park visited by everyone. The group of 50 students requires 150-180 minutes to complete the visit.

In Innovation Lab visitors learn actual science behind different innovative experiments from Physics, Chemistry, Biology, Robotics, and Electronics. They also enjoy disassembling and assembling of various instruments in Tod-Fod-Jod sections, as one of the important area of Innovation Lab. This lab helps all the visitors to understand different concepts in depth through 'learning while doing' or 'activity based learning'.

श्री वारणा विभाग शिक्षण मंडळ संचालित

वारणा विज्ञान केंद्र वारणानगर

राजीव गांधी सायन्स अँड टेक्नॉलॉजी कमिशन
महाराष्ट्र शासनाचा उपक्रम..

कुरु गंत, शिकू विज्ञानाचे धडे..
वैज्ञानिक प्रयोगातून, साधू कल्पकतेकचा विकास..!

इनोव्हेशन ऍक्टिव्हिटी लॅबोरेटरी

फिजिक्स, केमिस्ट्री, बायोलॉजी, मॅथ्स, इलेक्ट्रॉनिक्स, रोबोटिक विज्ञान विषयातील नाविन्यपूर्ण प्रयोगासाठी..!

प्रदर्शन व बहुउद्देशीय हॉल

नोबेल पारितोषिके व मंगळयान संदर्भातील चित्रलेखीय प्रदर्शन..!

गंतशील विज्ञान प्रदर्शन

खेळालून वैज्ञानिक संकल्पना समजून घेण्याचा मजेदार अनुभव..!

- Gravity Well
- Cone Runs Uphill
- Is Light Visible ?
- Probability
- Plasma Globe
- Curved Tunnel
- Scanimation
- Crazy Maze
- Hot & Cold
- All Road Leads to Rome
- Virtual Harp
- Fun Mirrors
- Moire Pattern
- Breathing Square
- Value of Pi
- Vortex
- Curie Point
- Colour Shadow
- Floating Ball
- Jumping Disc
- Anamorphosis
- Lazy Coin
- Infinity Wall
- Acrobatic Stick

सायन्स पार्क

खेळालून वैज्ञानिक संकल्पनेची अनुभूती..!

- See Saw is a Lever
- Whispering Garden
- Turn Faster
- Musical Tubes
- Action Reaction
- Pulley Lift Load
- Sympathetic Swing
- Camera Obscure
- Perception of Depth

उपक्रम

- सिचॅक सॅटरला भेट
- इनोव्हेशन ऍक्टिव्हिटी लॅबमध्ये प्रयोग
- विज्ञान विषयक कार्यशाळा
- ऑलम्पियाड व तत्सम परीक्षांकरिता मार्गदर्शन
- विज्ञान व्याख्यानमाला
- वैज्ञानिक प्रकल्प स्पर्धा
- विज्ञानावरील प्रश्नमंजूषा स्पर्धा
- विज्ञानावरील निबंध स्पर्धा

संपर्क

समन्वयक वारणा विज्ञान केंद्र, वारणानगर

तालुका: पन्हाळा, जिल्हा: कोल्हापूर, (महाराष्ट्र) ४१६ ११३, फोन: ०२३२६-२२३५०१, मोबाइल: ७७९८८८५०५०

E mail: waranasiac@gmail.com

Onkar Graphics 9822524745

Demonstrative & interesting exhibits in Fun Science Lab help visitors to understand various concepts of Physics, Mathematics & Electronics.

One of the inspirational areas of Science Centre is Exhibition & Multipurpose Hall where visitor gets motivated through interesting scientific and technical presentations. It includes Robotics, Astronomy and Biodiversity etc. Available displays of renowned India's first Mars Mission i.e. Mangalyaan, provides valuable information. Displays of Indian as well as foreigner Nobel

Annual Report (2017-18);

SWVSM's Warana Science & Innovation Activity Centre, Warananagar

awardees stimulate students for developing their ideas in different disciplines of Science and Technology.

Another important part of the centre is outdoor exhibits (Science Park) where students learn different laws in Science through actual play/handling of exhibits. Each exhibit from Fun Science lab and Science Park reflects theories of Science and Technology.

Dignified personalities visited the Centre

Date	Name & Designation	Comments
21/07/2017	Mr. Dhaval Kulkarni Cricket Player, Team India	Very Innovative way of teaching students. Was a fantastic experience. Keep the good work. The future is in your hands. All the very best.
24/10/2017	Mrs. Manjiri Ghorat, EC Member at International Pharmaceutical Federation- Community Pharmacy Section (FIP CPS)	This centre is very excellent and innovative.
28/11/2017	Mr. Sachin Lokapure Managing Director, SAGLO Research Equipments, Miraj.	This centre is very excellent and innovative.
12/1/2018	Mr. Vishwas Chavan CEO, Seema Biotech, Talasande	This project is very good and will help all students in their future career.
15/1/2018	Dr. D. N. Mudgal Executive Director, Ashokrao Mane Group of Institute	This is one of the innovative centre will help students to improve and verify scientific principles.
30/1/2018	Mr. N. K. Patil State Commissioner for Person with Disability, Maharashtra	This centre has very excellent infrastructure and conceptualization to propagate the values of scientific tempers.
30/1/2018	Dr. Kunal Khemnar CEO, ZP Kolhapur	The science centre is of international standard, which will be very useful to all students. The centre is having great facility of science lab.
31/01/2018	Mr. Indrajit Deshmukh Additional CEO, ZP Kolhapur	Students can understand many things from experiments. This project will be helpful to create scientific interest in the mind of rural students of India.
13/2/2018	Mr. Sudheendra Kulkarni Former Director, PMO India	Wonderful! This is true example of bringing science education in creative and enjoyable manner to students from rural India. This centre can be of very much helpful to students. For this project they congratulated to Dr. Vinayraoji Kore and whole team.

Annual Report (2017-18);

SWVSM's Warana Science & Innovation Activity Centre, Warananagar

28/2/2018	Dr. Yogesh Shouche In Charge, National Centre for Microbial Resource, National Centre for Cell Science, Pune	A very impressive set up which is well managed. Students will immensely benefit from this centre.
8/3/2018	Mr. Akhilesh Mishra Senior Vice President, Human Resource, Bharat Serums & Vaccines Limited	This centre is not just offering education but give easy learning. This service is not only to the students of this location but also to the future of the country.
22/3/2018	Mrs. Bhagyashree, Kalyani, Mangal, Geeta & Mr. Khandekar Sir, We Care, Kolhapur	This is the best exhibition in this area. This is need of time and proud to see that such centre fully fledged working centre and will surely spread in the world around.
26/3/2018	Mr. Manish Praful Ranbhise Dy. CFO Kolhapur Municipal Corporation.	He feels that, it is best facility in premises. Students of various classes can get a very good knowledge and become Scientist.
3/4/2018	Mr. Manojkumar RBN lite, HR Head	This is very fantastic facility in rural area. There is need to spread such facility in the nooks and corners of the Maharashtra.
12/4/2018	Dr. Yogesh Kulkarni CEO, Vigyan Ashram, Pabal	Very excellent Centre and would like to visit it again after complete development.
20/4/2018	Dr. M. S. Kondawar, HOD, Pharmaceutical Dept., ABCP, Sangli	The centre is very excellent and gives an opportunity to school students to understand the concepts in science. This centre also helps to motivate the students to build their career in Science.
26/4/2018	Dr. Arvind C. Ranade, Scientist E, Vigyan Prasar, DST	Excellent facilitation, conducive environment, cooperative work culture and healthy atmosphere at WSIAC.
26/4/2018	Mr. Narender Singh PGT, Delhi Education Department	This is an excellent place for education and innovation.

Annual Report (2017-18);

SWVSM's Warana Science & Innovation Activity Centre, Warananagar



Visit of **Hon. Mr. Dhaval Kulkarni**, Cricket Player, Team India (21/07/2017)



Visit of **Hon. Mr. Indrajit Deshmukh**, Additional CEO, ZP Kolhapur (31/01/2018)

Annual Report (2017-18);

SWVSM's Warana Science & Innovation Activity Centre, Warananagar



Visit of **Hon. Mr. Sudheendra Kulkarni**, Former Director, PMO India (13/2/2018)



Visit of **Hon. Dr. Yogesh Shouche**, In Charge, National Centre for Microbial Resource, National Centre for Cell Science, Pune (28/2/2018)

Annual Report (2017-18);

SWVSM's Warana Science & Innovation Activity Centre, Warananagar



Visit of **Hon. Mr. Akhilesh Mishra**, Senior Vice President, Human Resource, Bharat Serums & Vaccines Limited (8/3/2018)



Visit of **Mrs. Bhagyashree, Kalyani, Magal, Geeta & Mr. Khandekar**, We Care, Kolhapur (22/3/2018)

Annual Report (2017-18);

SWVSM's Warana Science & Innovation Activity Centre, Warananagar



Visit of **Hon. Mr. Manojkumar**, RBN lite, HR Head (3/4/2018)



Visit of **Dr. Yogesh Kulkarni**, CEO, Vigyan Ashram, Pabal (12/04/2018)

Annual Report (2017-18);

SWVSM's Warana Science & Innovation Activity Centre, Warananagar



Dr. M. S. Kondawar, HOD, Pharmaceutical Dept., ABCP, Miraj (20/4/2018)



Dr. Arvind Ranade, Mr. Kapil Tripathi, Dr. Mukesh Roy, Mr. Narender Singh, Vigyan Prasara, New Delhi (26/04/2018)

Educational Material Donated by Vigyan Prasar to WSIAC:**Activity Kits**

Sr. No.	Name of Kit	Quantity	No. of Activities Can be Performed	Produced and Supplied by
1.	Chemistry	02	45	Vigyan Prasar, Gujarat Council of Science City
2.	Emergence of Modern Physics	02	28	Vigyan Prasar
3.	Weather	02	35	Vigyan Prasar
4.	Biodiversity	02	51	Vigyan Prasar
5.	Bhokamp	02	22	Vigyan Prasar
6.	Astronomy	02	30	Vigyan Prasar

Books

Sr. No.	Book Name	Author	Publisher	Supplier	Price (Rs.)
1.	All about having a Baby	Agrawal yatis	Vigyan Prasar	Vigyan Prasar	140.00
2.	Such to kuch aur hai	Narendra Sahgal	Vigyan Prasar	Vigyan Prasar	--
3.	Kyon aur kaise	Ghose Partha	Vigyan Prasar	Vigyan Prasar	149.00
4.	Fun and Science at home	Bhansali Jyoti	Vigyan Prasar	Vigyan Prasar	130.00
5.	Genetics in Heaven: A virtual discussion	Burma	Vigyan Prasar	Vigyan Prasar	100.00
6.	Mars Beckons india	Srinivas Laxman	Vigyan Prasar	Vigyan Prasar	175.00
7.	Development and Validation of Urban Properties	Ratho P. K.	Vigyan Prasar	Vigyan Prasar	250.00
8.	Yash Pal: A Life in Science	Biman Basu	Vigyan Prasar	Vigyan Prasar	225.00
9.	Exploring Nature	Pattnaik N. M.	Vigyan Prasar	Vigyan Prasar	65.00
10.	Some Pioneers of Mathematics	Mahanti Subodh	Vigyan Prasar	Vigyan Prasar	200.00
11.	Mousam	Sharma Shyamsundar	Vigyan Prasar	Vigyan Prasar	75.00
12.	Founders of Modern Astronomy: From Hipparchus to Hawking	Mahanti Subodh	Vigyan Prasar	Vigyan Prasar	150.00
13.	Alternatives to Pesticides in Tropical	Dudari A. T.	Vigyan Prasar	Vigyan Prasar	250.00

	Countries				
14.	Communication Science Questions and Issues of Concerns	Sehgal Naronder	Vigyan Prasar	Vigyan Prasar	100.00
15.	A Stroll Through Space-Time: A leisurely discourse on Einstein's Theory of Relativity	Popli Rakesh	Vigyan Prasar	Vigyan Prasar	75.00
16.	The Quest for New Materials	Lakshmikummar S.T.	Vigyan Prasar	Vigyan Prasar	120.00
17.	Myths and Legends Related to Eclipses	Rana N. C.	Vigyan Prasar	Vigyan Prasar	21.00
18.	Know More about Jaundice	Sinha R. S. K.	Vigyan Prasar	Vigyan Prasar	31.00
19.	Grager Mendal	Mishra Vinodkumar	Vigyan Prasar	Vigyan Prasar	50.00
20.	Heretic to Hero: Galileo Galilei-Rebel Astronomer	T V Venkateswaran	Vigyan Prasar	Vigyan Prasar	120.00
21.	Megacities	Jayan T. V.	Vigyan Prasar	Vigyan Prasar	70.00
22.	Glimpses into True Life and Works of J. Medhi	Chandra Kanta Chetia	Vigyan Prasar	Vigyan Prasar	95.00
23.	Krishna Vivar or Vigyan Kughae	Jayant Narlikar	Vigyan Prasar	Vigyan Prasar	110.00
24.	Science in Indian Media	Dilip M. Salwi	Vigyan Prasar	Vigyan Prasar	200.00
25.	Vigyan Ki Vikalangata Par Vijay	Vinod Kumar Mishra	Vigyan Prasar	Vigyan Prasar	120.00
26.	Dekha Parakha Sach	Harikrishna Devasare	Vigyan Prasar	Vigyan Prasar	
27.	Prakriti Ki lay	Amit Kumar	Vigyan Prasar	Vigyan Prasar	100.00
28.	Dainik Jeevan Me Vigyan	JBS Halden	Vigyan Prasar	Vigyan Prasar	150.00
29.	Tehri Hydro-Electric Project	Jagdish Bahadur	Vigyan Prasar	Vigyan Prasar	125.00
30.	Hello Star	Usha Srinivasan	Vigyan Prasar	Vigyan Prasar	60.00
31.	The Mysterious Moon and India's Chandrayaan Mission	Narendra Bhandari	Vigyan Prasar	Vigyan Prasar	195.00
32.	Rockets and Beyond	VP. Balagangadharan	Vigyan Prasar	Vigyan Prasar	125.00
33.	Origami: Fun and	V.S.S. Sastry	Vigyan Prasar	Vigyan Prasar	65.00

Annual Report (2017-18);SWVSM's **Warana Science & Innovation Activity Centre, Warananagar**

	Mathematics				
34.	Stroy of Chemistry	Anirban Hazra	Vigyan Prasar	Vigyan Prasar	75.00
35.	Global Warming and Health	Alok Mukherjee	Vigyan Prasar	Vigyan Prasar	80.00
36.	Mountains Under Siege	Hasan Jawaid Khan	Vigyan Prasar	Vigyan Prasar	70.00
37.	Moments in Mathematics	Rintu Nath	Vigyan Prasar	Vigyan Prasar	110.00
38.	Mangroves	R. Panneerselvam	Vigyan Prasar	Vigyan Prasar	60.00
39.	Sex, Sexually Transmitted Diseases and AIDS	Dr. R. S. Misra	Vigyan Prasar	Vigyan Prasar	65.00
40.	Understanding Asthma	Dr. S. K. Sharma	Vigyan Prasar	Vigyan Prasar	34.00
41.	Planet Earth in a Nutshell	Biman Basu	Vigyan Prasar	Vigyan Prasar	65.00
42.	Natak Natak Me Vigyan	Devendra Mevadi	Vigyan Prasar	Vigyan Prasar	250.00
43.	Akash Darshan Ka Anand	Rakesh Popli	Vigyan Prasar	Vigyan Prasar	15.00
44.	All Motion is Relative	V.B. Kamble	Vigyan Prasar	Vigyan Prasar	35.00
45.	Khanpan or Rasayan	Krishnakumar Mishra	Vigyan Prasar	Vigyan Prasar	150.00
46.	Thumbprints	Arvind Gupta	Vigyan Prasar	Vigyan Prasar	45.00
47.	Vaigyanik Drushtikon	Mahanti Subhod	Vigyan Prasar	Vigyan Prasar	--
48.	Chemistry Behind Miracles	Puneeta Malhotra	Vigyan Prasar	Vigyan Prasar	100.00
49.	Dinosaurs: Myths and Facts	Dr. Umesh Behari Mathur & Dr. Neera Mathur	Vigyan Prasar	Vigyan Prasar	120.00
50.	Pump hi Pump	Suresh Vaidyarajan	Vigyan Prasar	Vigyan Prasar	40.00
51.	Gilas Se Kuchh aur Khel	Pratapmal Devpura	Vigyan Prasar	Vigyan Prasar	30.00
52.	Gilas Se Khel Karake Dekho	Pratapmal Devpura	Vigyan Prasar	Vigyan Prasar	35.00
53.	Chinu Visits Microworld	Y.R. Wagthmare	Vigyan Prasar	Vigyan Prasar	150.00
54.	Lets Sing and Play	NCSTC	Vigyan Prasar	Vigyan Prasar	10.00
55.	The Bicycle Story	Vijay Gupta	Vigyan Prasar	Vigyan Prasar	25.00
56.	Leaf Zoo	Arvind Gupta	Vigyan Prasar	Vigyan Prasar	20.00

57.	Hum Nanhe Vigyani Hai	Madhu Pant	Vigyan Prasar	Vigyan Prasar	75.00
58.	Square Pegs in Round Holes	Ravindra Keskar	Vigyan Prasar	Vigyan Prasar	80.00
59.	The Story of Physics	T. Padmanabhan	Vigyan Prasar	Vigyan Prasar	50.00
60.	Moths of India –an introduction	Isaac Kehimkar	Vigyan Prasar	Vigyan Prasar	55.00
61.	Charles Darwin's Autobiography	--	Vigyan Prasar	Vigyan Prasar	60.00
62.	Venus and its Transits	S.P. Pandya, J.N. Desai and S.R. Shah	Vigyan Prasar	Vigyan Prasar	45.00
63.	Earth's Changing Climate	Biman Basu	Vigyan Prasar	Vigyan Prasar	60.00
64.	Environment and Self Reliance	Yona Friedmann	Vigyan Prasar	Vigyan Prasar	55.00
65.	Vigyan Ke Prayog	Devpura Pratapmal	Vigyan Prasar	Vigyan Prasar	95.00
66.	To Reach the Stars or Dig the Earth	G. Padmanaban	Vigyan Prasar	Vigyan Prasar	170.00
67.	Urvark aur poshan	Dr. Dinesh Mani	Vigyan Prasar	Vigyan Prasar	120.00
68.	Everything Has a History	J. B. S. Haldane	Vigyan Prasar	Vigyan Prasar	90.00
69.	Bamboo	C. Barooah	Vigyan Prasar	Vigyan Prasar	125.00
70.	Chhote Chhote Navacharonki Vishwavyapi Upayogita	Laxman Prasad	Vigyan Prasar	Vigyan Prasar	130.00
71.	Fresh Water Fishes of Central India	Nilesh Heda	Vigyan Prasar	Vigyan Prasar	125.00
72.	Story of the Sky	Samar Bagachi	Vigyan Prasar	Vigyan Prasar	50.00
73.	Farmi Ke Prashna Ya Anuman Lagane Ki Kala	Vinay B. Kamble	Vigyan Prasar	Vigyan Prasar	20.00
74.	Many Approaches to $(-1)*(-1)=1$	V. S. S. Sastry	Vigyan Prasar	Vigyan Prasar	50.00
75.	Appreciating the Environment	M. A. Haque	Vigyan Prasar	Vigyan Prasar	200.00
76.	Story of Stone	D.N. Wadia	Vigyan Prasar	Vigyan Prasar	25.00
77.	Evolution of Our Understanding of the Planetary Motions	J.N. Desai, N.M. Ashok, V.B. Kamble, S.P. Pandya	Vigyan Prasar	Vigyan Prasar	75.00
78.	Delhis Water and Solid Waste Management	S. K. Rohila	Vigyan Prasar	Vigyan Prasar	100.00

Annual Report (2017-18);SWVSM's **Warana Science & Innovation Activity Centre, Warananagar**

79.	The Chemical History of a Candle	Michael Faraday60	Vigyan Prasar	Vigyan Prasar	--
80.	365 Science Experiments	--	Om Kidz	Vigyan Prasar	450.00
81.	Ships and Submarines	Steve Parkur	Miles Kelly	Vigyan Prasar	--
82.	Iodine Sainik	Dr. Arvinda Gupta	Vigyan Prasar	Vigyan Prasar	40.00
83.	Digital Madhyam aur Hindi Me Vigyan Sanchar	Om Vikas	Vigyan Prasar	Vigyan Prasar	75.00
84.	Tinku Ustad	Indu Bhushan Mittal	Vigyan Prasar	Vigyan Prasar	160.00

CD's:

Sr. No.	Name of CD	No. of CD's	Language	Produced by	Price
1.	The Taming of Chance	01	English	Vigyan Prasar	50.00
2.	The Giant Eye to Explore the Universe	01	English/Hindi	T. V. Venkateswaran	50.00
3.	Discovery of Electron	01	English	Vigyan Prasar	--
4.	Getting on Wings	01	English	Vigyan Prasar	--
5.	Relativity	01	English/Hindi	Vigyan Prasar	50.00
6.	Discovery of Radioactivity	01	English	Vigyan Prasar	--
7.	Buzz of Pollinators	01	English	Vigyan Prasar	50.00
8.	Discovery of X-rays	01	English	Vigyan Prasar	--
9.	India @ the LHC	01	English	Vigyan Prasar	50.00
10.	The Story of Messenger Radio Waves	01	English	Vigyan Prasar	--
11.	Quantum Era	01	English	Vigyan Prasar	--
12.	The Darwin Puzzle	01	English/Hindi	Vigyan Prasar	50.00
13.	Life of Times of P. C. Ray	03	English/Hindi	Vigyan Prasar	150.00
14.	Babulal Saraf Master Experimentalist	01	English	Chrysalis Films	50.00
15.	The Genius of Srinivasa Ramanujan	01	English	Vigyan Prasar and ISER Pune	50.00
16.	Immortal Coils	01	English	Vigyan Prasar	50.00
17.	P. C. Vaidhya, Prof. A. K. Raychoudhary	01	English	Vigyan Prasar	50.00
18.	C. V. Raman	01	English	Vigyan Prasar	50.00
19.	India Innovates	01	English	Credence Media Solutions	--
20.	Prof. Yash Pal : Man of Science and People	01	English	Vigyan Prasar	50.00
21.	Prof. A. R. Rao: Everybody is	01	English	Vigyan Prasar	50.00

Annual Report (2017-18);**SWVSM's Warana Science & Innovation Activity Centre, Warananagar**

	Mathematecian				
22.	In the Footsteps of K. S Krishnan	01	English/Hindi	Vigyan Prasar	50.00
23.	The Man of Science and Action	01	English	Vigyan Prasar	50.00
24.	India at IT Revolution Part I, II, III	01	English	Vigyan Prasar	300.00
25.	A Question of Science Vol-I	03	English	Vigyan Prasar	150.00
26.	A Question of Science Vol-II	03	English	Vigyan Prasar	150.00
27.	A Question of Science Vol-III	03	English	Vigyan Prasar	150.00
28.	The Maths Factor Vol-0I	02	English	Vigyan Prasar	100.00
29.	The Maths Factor Vol-0II	02	English	Vigyan Prasar	100
30.	Fun with Physics	01	English	Vigyan Prasar	--
31.	Jo Hai Jaisa Kyu Hai Vaisa?	05	English	Vigyan Prasar	300.00
32.	Innovative Experiments in Physics	01	English	Vigyan Prasar	--
33.	Dream 2047	01	English	Vigyan Prasar	--
34.	Optics	01	English	Vigyan Prasar	--
35.	Posters on India and Mathematics	01	English	Vigyan Prasar	50.00
36.	Biographies of Famous Mathematician	01	English	Vigyan Prasar	50.00
37.	The Magical Year	01	English	Vigyan Prasar	100.00
38.	The First Modern Indian Scientist: Acharya Jagdishchandra Bose Part I	01	English/Hindi	Vigyan Prasar	50.00
39.	The First Modern Indian Scientist: Acharya Jagdishchandra Bose Part II	01	English/Hindi	Vigyan Prasar	50.00
40.	Prachin Bharat Me Vigyan, Plastic Surgery	01	Hindi	Vigyan Prasar	50.00
41.	Sour Jagat Ki Duniya	01	Hindi	Vigyan Prasar	50.00
42.	Jeev Vigyan Ki Duniya	03	Hindi	Vigyan Prasar	150.00
43.	Socho Parakho Jaano Suron Mein Science	01	Hindi	Vigyan Prasar	--
44.	Khoj Khagoliya Ikai Ki	01	Hindi	Harkara Media for Vigyan Prasar	50.00
45.	Anant Yatra	01	Hindi	Vigyan Prasar	50.00
46.	Computer Ki Duniya	01	Hindi	Vigyan Prasar	50.00
47.	Suraj Jamin Par	01	Hindi	Vigyan Prasar	100.00
48.	Taron Ki Sair Vol-I	03	Hindi	Vigyan Prasar	300.00
49.	Taron Ki Sair Vol-II	03	Hindi	Vigyan Prasar	300.00
50.	The Heated Debate	01	Hindi	Vigyan Prasar	50.00
51.	Khudbud Khel Vigyan Ke Khudbud Vol-I	03	Hindi	Vigyan Prasar	--

Annual Report (2017-18);SWVSM's **Warana Science & Innovation Activity Centre, Warananagar**

52.	Khudbud Khel Vigyan Ke Khudbud Vol-II	03	Hindi	Vigyan Prasar	--
53.	Khudbud Khel Vigyan Ke Khudbud Vol-III	03	Hindi	Vigyan Prasar	--
54.	Khudbud Khel Vigyan Ke Khudbud Vol-IV	03	Hindi	Vigyan Prasar	--
55.	Khudbud Khel Vigyan Ke Khudbud Vol-V	03	Hindi	Vigyan Prasar	--
56.	Khudbud Khel Vigyan Ke Khudbud Vol-VI	03	Hindi	Vigyan Prasar	--
57.	Har Mutthi Me Science Vol-I, II, III	03	Hindi	Vigyan Prasar	--
58.	Dekh Khel Ke Vol-I	02	Hindi	Vigyan Prasar	--
59.	Dekh Khel Ke Vol-II	02	Hindi	Vigyan Prasar	--
60.	Kuch Tukke Kuch Teer Vol-I	03	Hindi	Vigyan Prasar	150.00
61.	Kuch Tukke Kuch Teer Vol-II	03	Hindi	Vigyan Prasar	150.00
62.	Bate Raj Ki Vol-II	04	Hindi	Vigyan Prasar	200.00
63.	Ubharati Praudyogiki Sanvarata Kal	02	Hindi	Vigyan Prasar	200.00
64.	Aisa Hi Hota Hai Vol-II	08	Hindi	Vigyan Prasar	400.00
65.	Prakash Kirano Ke Rahashya	01	Hindi	Vigyan Prasar	200.00
66.	Naino Ki Duniya	01	Hindi	Vigyan Prasar	--
67.	Dharati Meri Dharati	01	Hindi	Vigyan Prasar	--
68.	Manav Ka Vikas (MP3)	01	Hindi	Vigyan Prasar	100.00
69.	Bharatiya Vaigyaniko Ke Preranapad Karya our Jeevan	01	Hindi	Vigyan Prasar	100.00
70.	Vigyan Ke Pathik	01	Hindi	Vigyan Prasar	--
71.	Kahani Dharati Ki Vol-I	03	Hindi	Vigyan Prasar	--
72.	Kahani Dharati Ki Vol-II	03	Hindi	Vigyan Prasar	--
73.	Jeete Raho Vol-I	03	Hindi	Vigyan Prasar	--
74.	Jeete Raho Vol-II	03	Hindi	Vigyan Prasar	--

Educational Material Donated by SAGLO Research Equipments to WSIAC:

Sr. No.	Name of Kit	Quantity	Produced and Supplied by	Price (Rs.)
1.	Digital Micro Imaging Adaptor	03	SAGLO Research Equipments, Miraj	45000.00

List of activities organized by WSIAC:

1. National Mathematics Day (22nd December, 2017)
2. Fundamentals of Electronics (17th January, 2018)
3. Kolhapur District Secondary School Teacher's Discussion of Science and Mathematics Subject (27th January, 2018)
4. Lunar Eclipse Observation Workshop (31st January, 2018)
5. National Science Day (28th February, 2018)
6. Jr. College Teacher's Workshop (12th April, 2018)
7. Four days student workshop on 'Activity based Science & Technology Learning' (19th – 22nd April, 2018)
8. Two days Science teachers workshop on 'Fostering Creativity & Innovation in Science Education' (26th & 27th April, 2018)

Activity Reports:

National Mathematics Day (22nd December, 2017)

राजीव गांधी सायन्स अँड टेक्नॉलॉजी कमिशन महाराष्ट्र शासनाचा उपक्रम..

वारणा विज्ञान केंद्र आणि तात्यासाहेब कोरे इन्स्टिट्यूट ऑफ इंजिनिअरिंग अँड टेक्नॉलॉजी (पॉलिटेक्नीक)
यांच्या संयुक्त विद्यमाने

राष्ट्रीय गणित दिनानिमित्त गणिताच्या शिक्षकांसाठी कार्यशाळा
'गणिताच्या विश्वात' २२ डिसेंबर २०१७

श्री वारणा विभाग शिक्षण मंडळ

सहकारमहर्षी तात्यासाहेब कोरे यांनी समाजातील गरीब व होतकरु विद्यार्थ्यांना उच्चशिक्षण देण्यासाठी श्री वारणा विभाग शिक्षण मंडळ, वारणानगर या शिक्षण संस्थेची १९६४ साली स्थापना केली. या शिक्षण संस्थेमध्ये अगदी बालवाडी पासून पी.एच.डी. पर्यंत शिक्षण दिले जाते. शिक्षण संस्थेमध्ये निवासी, मराठी, सेमी-इंग्लिश, इंग्लिश माध्यम, मिलीटरी स्कूल, सी.बी.एस.ई स्कूल अतिशय उत्कृष्टपणे चालवले जाते.

वारणा विज्ञान केंद्र

शालेय विद्यार्थ्यांमध्ये विज्ञान विषयीचे कुतुहल वाढावे, विद्यार्थ्यांच्या आणि शिक्षकांच्या मनातील संकल्पना आणि विज्ञानाकडे पाहण्याचा दृष्टीकोन वृद्धीगत होण्यासाठी, राजीव गांधी सायन्स अँड टेक्नॉलॉजी कमिशन, महाराष्ट्र शासन यांच्या सहकार्यातून आणि आदरणीय डॉ.अनिल काकोडकर यांच्या शुभवहस्ते २४ फेब्रुवारी-२०१७ मध्ये वारणा विज्ञान केंद्राचे उद्घाटन मा.डॉ.विनयजी कोरे (सावकर) यांच्या उपस्थितीत झाले.

कार्यशाळेविषयी

'गणित' जीवनाचा अविभाज्य घटक पण गणिताचा इतिहास आपणास माहीत आहे का..? राष्ट्रीय गणित दिवस का व कोणाच्या स्मरणार्थ साजरा केला जातो..? गणिताचा इतंभुत इतिहास आणि गणितातील काही क्लिष्ट वाटणाऱ्या संकल्पना अगदी गमतीशीरपणे अनुभवण्यास आणि शिकण्यासाठी वारणा विज्ञान केंद्राने गणिताच्या शिक्षकांसाठी गणिताच्या विश्वात या कार्यशाळेचे आयोजन केले आहे.

प्रमुख वक्ते

श्री. एस्. एम्. गोलगिरे
सहाय्यक प्राध्यापक, गणित विभाग,
यशवंतराव चव्हाण वारणा महाविद्यालय, वारणानगर

श्री. जे. आय. डिसोजा
प्रिन्सिपल कोऑर्डिनेटर, वारणा विज्ञान केंद्र, वारणानगर
प्राचार्य, तात्यासाहेब कोरे कॉलेज ऑफ फार्मसी, वारणानगर

कार्यक्रमाचे अध्यक्ष

डॉ. विनयरावजी कोरे (सावकर)
अध्यक्ष, श्री वारणा विविध उद्योग व
शिक्षण संकुल, वारणानगर

श्री. बि. व्ही. बिराजदार
प्राचार्य, टी.के.आय.ई.टी. (पॉलिटेक्नीक)
वारणानगर

श्री. एस. एस. पाटील | **श्री. एस. एच. मोरे** | **श्री. पी. एस. कुंभार** | **श्री. पी. डी. लोले**
सायन्टिफिक ऑफिसर | सायन्टिफिक ऑफिसर | सायन्टिफिक ऑफिसर | सायन्टिफिक ऑफिसर

*** स्थळ : वारणा विज्ञान केंद्र, वारणानगर * वेळ : स.१०.३० ते दु. ४.००**

Annual Report (2017-18);

SWVSM's Warana Science & Innovation Activity Centre, Warananagar

About workshop:

Mathematics is the prime factor of everybody's life; but are we aware about history of Mathematics...? Do you know why and when we celebrate National Mathematics Day...? To know the actual history of Mathematics, to experience & understand various complicated concepts in Mathematics, Warana Science & innovation Activity Centre has organized one day workshop for Mathematics teachers on 'Ganitachya Vishwat'.

SCHEDULE

TIME	EVENTS
10.00 - 10.30 am	Registration
10.30 - 10.35 am	<ul style="list-style-type: none">• Felicitation of chief guest
10.35 - 10.45 am	<ul style="list-style-type: none">• Introductory Speech Prof. S. S. Patil Scientific officer, WSIAC
10.45 - 10.55 am	<ul style="list-style-type: none">• Speech• Dr. S. V. Anekar, Principal, Tatyasaheb Kore Institute of Engineering and Technology
10.55 - 11.00am	<ul style="list-style-type: none">• Introduction of Chief Guest• Prof. P. S. Kumbhar Scientific officer, WSIAC
11.00 am - 01.00 pm	<ul style="list-style-type: none">• Speech by Chief Guest• Mr. S. N. Golgire Assistant Professor, Dept. of Mathematics, Yashwanrao Chavan Warana Mahavidyalay, Warananagar
01.00 - 01.10 pm	<ul style="list-style-type: none">• Speech• Prof. B. V. Birajdar Principal, Tatyasaheb Kore Institute of Engineering and Technology (Polytechnic)
01.10 - 02.00 pm	<ul style="list-style-type: none">• Lunch Break
02.00 - 02.45 pm	<ul style="list-style-type: none">• Introduction of Maths Clinic• Mr. Sharad Gaikwad
02.45 - 02.50 pm	<ul style="list-style-type: none">• Vote of thanks• Prof. S. H. More Scientific officer, WSIAC
02.50 - 04.00 pm	<ul style="list-style-type: none">• Visit of delegates to WSIAC

Annual Report (2017-18);

SWVSM's Warana Science & Innovation Activity Centre, Warananagar

Workshop Report:

On the occasion of National Mathematics Day i.e. 22nd December, Mathematics teacher's workshop on 'Ganitachya Vishwat' was organized by WSIAC. The workshop was inaugurated by chief guest Mr. S. N. Golgire Assistant Professor, Dept. of Mathematics, Yashwanrao Chavan Warana Mahavidyalay, Warananagar, in presence of Dr. S. V. Anekar, Principal, Tatyasaheb Kore Institute of Engineering and Technology, Prof. B. V. Birajdar, Principal, Tatyasaheb Kore Institute of Engineering and Technology (Polytechnic) and all Scientific Officers of WSIAC. Scientific Officer Prof. S. S. Patil gave introductory speech. Principal Dr. S. V. Anekar shared their thoughts about importance of Mathematics and Mathematics Teacher in our life.

Scientific Officer Prof. P. S. Kumbhar has introduced the chief guest. Prof. S. N. Golgire. The chief guest started the session with precious history of Mathematics. He explained few extraordinary tricks in second session. Girls from Mathematics department sang Mathematics Accolade.

Prof. B. V. Birajdar explained the role of primary and secondary students in building careers of students in short. Mr. Sharad Gayakwad from Maths Clinic, Pune demonstrated working and benefits of 'Maths Clinic' website. Finally, Scientific Officer Prof. S. H. More gave the vote of thanks.

For this workshop more than 55 participants were present. Few of the participant like Mr. D. S. Dalvi of Bahadurwadi Vidyalaya, Bahadurwadi and Mr. S. P. Bhosale of Jakhale High school, Jakhale shared their valuable feedback and suggestions about importance and benefits of the workshop for teachers as well as students.



Inauguration of workshop by Mr. S. N. Golgire

Annual Report (2017-18);

SWVSM's Warana Science & Innovation Activity Centre, Warananagar



Felicitation of Mr. S. N. Golgire by Dr. S. V. Anekar



Introductory speech by Prof. S. S. Patil

Annual Report (2017-18);

SWVSM's Warana Science & Innovation Activity Centre, Warananagar



Speech by **Dr. S. V. Anekar**



Introduction of Chief Guest by **Prof. P. S. Kumbhar**

Annual Report (2017-18);

SWVSM's Warana Science & Innovation Activity Centre, Warananagar



Speech by Chief Guest Mr. S. N. Golgire



Delegates

Annual Report (2017-18);

SWVSM's Warana Science & Innovation Activity Centre, Warananagar



Speech by **Prof. B. V. Birajdar**



Introduction of Maths Clinic by **Mr. Sharad Gaikwad**



Girls singing Mathematics Accolade



Delegates expressing their valuable feedback about workshop

Annual Report (2017-18);

SWVSM's Warana Science & Innovation Activity Centre, Warananagar



Certificate distribution



Vote of thanks given by **Prof. S. H. More**

Fundamentals of Electronics (17th January, 2018)

Patron

Hon. Dr. Vinayraoji Kore (Savkar)

President

Warana Industrial & Educational Complex, Warananagar

Resource Persons

Prof. S. S. Patil

Scientific Officer

Prof. S. H. More

Scientific Officer

Prof. P. D. Lole

Scientific Officer

Organising Committee

Dr. J. I. Disouza

Principal Co-ordinator

Prof. S. S. Patil

Scientific Officer

Prof. S. H. More

Scientific Officer

Prof. P. S. Kumbhar

Scientific Officer

Prof. P. D. Lole

Scientific Officer

SCHEDULE

TIME	EVENTS
10.00 – 10.10 am	<ul style="list-style-type: none">• Felicitation of Chief Guest
10.20 – 10.25 am	<ul style="list-style-type: none">• Introduction of chief guest
10.25 – 10.40 am	<ul style="list-style-type: none">• Keynote Speech• Mr. Sadanand Bhagwat
10.40 – 11.40 am	<ul style="list-style-type: none">• Session 1• Prof. S. H. More Scientific officer, WSIAC
11.40 am – 12.40 pm	<ul style="list-style-type: none">• Session 2• Prof. P. D. Lole Scientific officer, WSIAC
12.40 – 01.30 pm	<ul style="list-style-type: none">• Session 3• Prof. S. S. Patil Scientific officer, WSIAC
01.30 pm	<ul style="list-style-type: none">• End of workshop

Annual Report (2017-18);

SWVSM's Warana Science & Innovation Activity Centre, Warananagar

Workshop Report:

On 17th January 2018, Wednesday, workshop on “Fundamentals of Electronics” was organised at WSIAC. Mr. Sadanand Bhagwat from Deorukh, was chief guest for the workshop. He highlighted the importance of such workshops in student's life. Also he shared his experiences which was very valuable for students for betterment of their career and mentioned how ethical values are important in nation building. This workshop was conducted by in-house faculties.

Prof. S. H. More started the session with basic electrical and electronics parameters. He explained different components used in electronics with their applications. With the help of available components and material they explained all the basic concept and actual working. Next session was conducted by Prof. P. D. Lole on the topic “Different sensors and their applications”. Basic features and working principle of sensors were elaborated by him. Prof. S. S. Patil explained important concepts in digital electronics like logic gates, IC's, etc.

For this workshop 63 participants (students and staff) were present. There was nice interaction between participants and organizers. This workshop was very much fruitful to the participants. Workshop was concluded with the feedback by the participants.



Hon. Mr. Sadanand Bhagwat addressing the delegates

Annual Report (2017-18);

SWVSM's Warana Science & Innovation Activity Centre, Warananagar



Session by Prof. S. H. More



Students for workshop

Kolhapur District Secondary School Teacher's Discussion of Science and Mathematics Subject (27th January, 2018)

About Workshop:

The main objective of the workshop was to emphasize the importance of science in the human life. To highlight the importance of activity based learning in the teaching of science and mathematics for better understanding of the students. Moreover, address the significance of actual implementation of concepts in Science for the benefit of society. The role of science centre to reduce the gap between theoretical and practical knowledge and in the promotion of students and teachers from the scientific point of view.

Patron

Hon. Dr. Vinayraoji Kore (Savkar)

President

Warana Industrial & Educational Complex, Warananagar

Resource Persons

Hon. Dr. Vilas Patil

Principal, DIECPD, Kolhapur

Hon. Mr. Rajkumar Bharti

Senior Lecturer, DIECPD,
Kolhapur

Hon. Mr. Kiran Lohar

Educational Officer
(Secondary), Zilla Parishad,
Kolhapur

Organising Committee

Dr. J. I. Disouza

Principal Co-ordinator

Prof. S. S. Patil

Scientific Officer

Prof. S. H. More

Scientific Officer

Prof. P. S. Kumbhar

Scientific Officer

Prof. P. D. Lole

Scientific Officer

SCHEDULE

TIME	EVENTS
09.00 - 10.00 am	Registration, Breakfast & Tea
10.00 am -12.00 pm	INAUGURAL FUNCTION <ul style="list-style-type: none">❖ Deep Prajwalan and Poojan By the Auspicious Hands of Hon. Dr. Vilas Patil, Principal, DIECPD, Kolhapur.❖ Felicitation of dignitaries by Dr. J. I. D'souza❖ Welcome speech: Mr. R. D. Bharti, Senior Lecturer, DIECPD, Kolhapur❖ Keynote speech: Hon. Dr. Vilas Patil❖ Speech by Dr. S. V. Anekar❖ Speech by Prof. B. V. Birajdar❖ Speech by Dr. J. I. D'souza
12.00-01.00 pm	Visit of Delegates to WSIAC
01.00- 02.00 pm	Lunch Break
02.00 -04.00 pm	Poster Presentation
04.00 -05.00 pm	Valedictory and Prize Distribution

Workshop report:

Workshop was inaugurated by dignitaries with 'Deep Prajwalan and Poojan'. Workshop Inauguration was done by the auspicious hand of Dr. Vilas Patil and dignitaries on the dais. Mr. R. D. Bharti, Senior Lecturer, DIECPD, Kolhapur welcomed all the delegates. Dr. Vilas Patil, Principal, DIECPD, Kolhapur delivered keynote address to the delegates. He highlighted the importance of science and mathematics in the life of students. He also shared their lot of experiences and briefed the role of today's science and mathematics teachers to create interest of these subjects in the students. Then Dr. S. V. Anekar, Principal, Tatyasaheb Kore Institute of Engineering and Technology, and Prof. B. V. Birajdar, Principal, Tatyasaheb Kore Institute of Engineering and Technology (Polytechnic) highlighted the importance of technology in human life and the different government scholarship schemes available for diploma and degree students. Then Dr. J. I. Disouza, Principal Coordinator, WSIAC addressed the importance of activity based learning and teaching, and today's need of innovation and the role of science centre to create interest of science in the students. He also highlighted the facilities available in the science centre for the students.

After this, visit of all the teachers to WSIAC was arranged. The teachers were keenly visited and learned the various fundamental concepts of science, physics, chemistry, biology, electronics, robotics, mission to mars through exhibits, experiments and presentations.

Annual Report (2017-18);

SWVSM's Warana Science & Innovation Activity Centre, Warananagar

Then, Science and Mathematics poster and paper presentation session was conducted. Teachers presented the posters and papers based some innovative concepts for teaching of those subject.

In the evening, valedictory function was presided by Hon. Dr. Vinayraoji Kore, President, Warana Educational and Industrial Complex, in presence of Mr. Kiran Lohar, Educational Officer (Secondary), Zilla Parishad, Kolhapur. Dr. Vinayraoji Kore suggested preferring mother tongue for the learning & teaching of different subjects. Mr. Kiran Lohar highlighted different government policies which will be helpful for the teachers as well as students. Finally, winners of posters and paper presentation competition were honoured by Dr. Vinayraoji Kore.



Keynote address by **Hon. Dr. Vinayraoji Kore (Savkar)**



Deep Prajwalan

Annual Report (2017-18);

SWVSM's Warana Science & Innovation Activity Centre, Warananagar



Felicitation of Dr. Vilas Patil by Dr. J. I. Disouza



Keynote address by Dr. Vilas Patil

Annual Report (2017-18);

SWVSM's Warana Science & Innovation Activity Centre, Warananagar



Delegates



Poster Presentation by Delegates

Annual Report (2017-18);

SWVSM's Warana Science & Innovation Activity Centre, Warananagar



Visit of delegates to WSIAC



Prize Distribution



Delegates

Lunar Eclipse Observation Workshop (31st January, 2018)

About Workshop:

What is Eclipse...? When it takes place...? What are the different types of Eclipse...? How we can observe the Eclipse...? For getting answers of questions like these and to overcome the misunderstandings in the society about the Eclipse, WSIAC has organized Lunar Eclipse observation workshop.

Patron

Hon. Dr. Vinayraoji Kore (Savkar)

President

Warana Industrial & Educational Complex, Warananagar

Resource Persons

Dr. S. G. Jambhale

Assistant Professor, Dept. of Geography,
Yashwanrao Chavan Warana Mahavidyalay,
Warananagar

Dr. R. B. Patil

Assistant Professor, Dept. of Geography,
Yashwanrao Chavan Warana Mahavidyalay,
Warananagar

Organising Committee

Dr. J. I. Disouza

Principal Co-ordinator

Prof. S. S. Patil

Scientific Officer

Prof. S. H. More

Scientific Officer

Prof. P. S. Kumbhar

Scientific Officer

Prof. P. D. Lole

Scientific Officer

SCHEDULE

TIME	EVENTS
04.30 – 04.40 pm	Welcome and Felicitation of Chief Guest
04.40 – 04.50 pm	<ul style="list-style-type: none">• Introductory Speech• Dr. J. I. Disouza• Principal Co-ordinator, WSIAC
04.50 – 05.00 pm	<ul style="list-style-type: none">• Introduction of Chief Guest• Prof. S. H. More Scientific Officer, WSIAC
Session I 05.00 – 05.45 pm	<ul style="list-style-type: none">• Speech• Dr. S. G. Jambhale Assistant Professor, Dept. of Geography, Yashwanrao Chavan Warana Mahavidyalay, Warananagar
Session II 05.45 – 08.45 pm	<ul style="list-style-type: none">• Eclipse Observation• Dr. R. B. Patil Assistant Professor, Dept. of Geography, Yashwanrao Chavan Warana Mahavidyalay, Warananagar
08.45 – 08.50 pm	<ul style="list-style-type: none">• Vote of Thanks• Prof. S. S. Patil Scientific Officer, WSIAC
08.50 pm	<ul style="list-style-type: none">• End of the Programme

Workshop report:

Lunar Eclipse observation workshop was organized at WSIAC from 04.30 pm to 08.50 pm. Welcome and felicitation of the chief guests Dr. S. G. Jambhale, Assistant Professor, and Dr. R. B. Patil, Assistant Professor, Dept. of Geography, Yashwanrao Chavan Warana Mahavidyalay, Warananagar was done by Dr. J. I. D'souza, Principal Co-ordinator, WSIAC in presence of Mr. S. P. Bhosale from Jakhale Highschool and all the scientific officers of WSIAC. Dr. J. I. D'souza delivered introductory speech. Scientific Officer, Prof. S. H. More introduced the chief guests.

Dr. S. G. Jambhale started the session with basics of solar system. In that, he covered concepts related to the Sun, the Earth and the Moon. What is eclipse? When and why it happens? Different types of eclipse and much more questions were answered by Dr. S. G. Jambhale and

Annual Report (2017-18);

SWVSM's Warana Science & Innovation Activity Centre, Warananagar

Dr. R. B. Patil, with the help of interesting videos. The Lunar Eclipse using telescope was observed on the terrace of WSIAC.

Hon. Mr. Indrajit Deshmukh Additional CEO, Zilla Parashid, Kolhapur, visited WSIAC during workshop and also enjoyed eclipse observation through telescope.

For this workshop more than 100 participants from nearby schools and colleges were present. This workshop was very fruitful for all the participants.



Felicitation of **Dr. S. G. Jambhale**



Felicitation of **Dr. R. B. Patil**



Welcome speech by **Dr. J. I. Disouza**



Prof. S. H. More introducing the Chief Guests



Presentation by **Dr. S. G. Jambhale**



Student participants



Dr. R. B. Patil introducing microscope to **Hon. Mr. Indrajit Deshmukh**



Hon. Mr. Indrajit Deshmukh observing the eclipse through telescope



Delegates observing the eclipse

National Science Day (28th February, 2018)

राजीव गांधी सायन्स अॅण्ड टेक्नॉलॉजी कमिशन, महाराष्ट्र शासन पुरस्कृत वारणा सायन्स अॅण्ड इनोव्हेशन अॅक्टिव्हिटी सेंटर, वारणानगर

बुधवार, दि. २८ फेब्रुवारी २०१८ रोजी, 'राष्ट्रीय विज्ञान दिन' निमित्त
'पृथ्वीवाहेरील जीवसृष्टीचा शोध' या विषयावर व्याख्यान

श्री वारणा विभाग शिक्षण मंडळ

सहकारमहर्षी के.तात्यासाहेब कोरे यांनी समाजातील गरीब व होतकरु विद्यार्थ्यांना दर्जेदार शिक्षणाच्या संधी उपलब्ध करून देण्यासाठी श्री वारणा विभाग शिक्षण मंडळ, वारणानगर या शिक्षण संस्थेची १९६४ साली स्थापना केली. या शिक्षण संस्थेमध्ये अगदी वालवाडी पासून पी. एच. डी. पर्यंत शिक्षण दिले जाते. 'नवमानवा साकारु, हाच शिक्षणाचा महामेरु' या त्रिद वाक्यास साजेसे कार्य शिक्षण मंडळ सदैव करत आहे.

वारणा सायन्स अॅण्ड इनोव्हेशन अॅक्टिव्हिटी सेंटर

शालेय विद्यार्थ्यांमध्ये विज्ञान विषयीचे कुतूहल वाढावे, दैनंदिन घटनांकडे पाहण्याचा त्यांचा वैज्ञानिक दृष्टीकोन वृद्धीगत व्हावा, वैज्ञानिक संकल्पना त्यांना सहज सोप्या पध्दतीने उमगाव्यात.. म्हणून राजीव गांधी सायन्स अॅण्ड टेक्नॉलॉजी कमिशन, महाराष्ट्र शासन यांच्या सहकार्यातून, आदरणीय डॉ. अनिल काकोडकर यांच्या शुभहस्ते आणि आदरणीय डॉ. विनयरावजी कोरे (सावकर) यांच्या उपस्थितीत, २४ फेब्रुवारी २०१७ रोजी 'वारणा सायन्स अॅण्ड इनोव्हेशन अॅक्टिव्हिटी सेंटर' ची सुरवात करणेत आली.

व्याख्यानाविषयी

परग्रहांवर जीवसृष्टी आहे का...? ती कशा प्रकारची असेल...? या आणि अशा अनेक प्रश्नांची उत्तरे जाणून घेण्यासाठी वारणा सायन्स अॅण्ड इनोव्हेशन अॅक्टिव्हिटी सेंटरच्या वतीने 'पृथ्वीवाहेरील जीवसृष्टीचा शोध' या व्याख्यानाचे आयोजन केले आहे.

कार्यक्रमाचे अध्यक्ष

मा. डॉ. विनयरावजी कोरे (सावकर)

अध्यक्ष, श्री वारणा विविध उद्योग व शिक्षण संकुल, वारणानगर

व्याख्याते

डॉ. योगेश शौते

विभाग प्रमुख, नॅशनल सेंटर फॉर मायक्रोबीयल रिसोर्स,
नॅशनल सेंटर फॉर सेल सायन्स, पुणे

आयोजक

डॉ. जे. आय. डिसोजा
मिनिस्टर कोऑर्डिनेटर

प्रा. एस. एस. पाटील
सायन्टिफिक ऑफीसर

प्रा. एस. एच. मोरे
सायन्टिफिक ऑफीसर

प्रा. पी. एस. कुंभार
सायन्टिफिक ऑफीसर

प्रा. पी. डी. लोले
सायन्टिफिक ऑफीसर

वारणा सायन्स अॅण्ड इनोव्हेशन अॅक्टिव्हिटी सेंटर, वारणानगर

स्थळ: डॉ. विनय कोरे क्रिडा व सांस्कृतिक केंद्र, वारणानगर

वेळ: सकाळी ११.०० ते दुपारी १.००

संपर्क : ९४२३२८२६५८, ९९७०६२४३८७, ७७७००३९७३९, ९४२९७७०२९८

Annual Report (2017-18);

SWVSM's Warana Science & Innovation Activity Centre, Warananagar

About Workshop:

Does species exist on another planet...? If yes, how will be the nature of it...? To get the answer for such types of questions WSIAC has organized the public talk on the topic 'Life on the other planets'.

SCHEDULE

TIME	EVENTS
11.00 – 11.10 am	<ul style="list-style-type: none">• Felicitation of Chief Guest
11.10 – 11.20 am	<ul style="list-style-type: none">• Speech• Dr. Vinayaroji Kore, President, Warana Industrial & Educational Complex
11.20 – 11.25 am	<ul style="list-style-type: none">• Introduction of chief guest
11.25 – 01.00 pm	<ul style="list-style-type: none">• Keynote Speech• Dr. Yogesh Shouche In Charge, National Centre for Microbial Resource
01.00 – 01.05 pm	<ul style="list-style-type: none">• Vote of Thanks Dr. J. I. D'souza, Principal Co-ordinator, WSIAC
01.05 – 01.30 pm	<ul style="list-style-type: none">• Visit of chief guest to WSIAC
01.30 pm	<ul style="list-style-type: none">• End of the programme

Workshop report:

On the occasion of National Science Day, public talk on 'Life on other planets' by Dr. Yogesh Shouche, Incharge, National Centre for Microbial Resource at National Centre for Cell Science, Pune was organized by WSIAC on 28th February 2018. Hon. Dr. Vinayaroji Kore, President, Warana Industrial and Educational Complex, Hon. Shri. N. H. Patil, President, Surajya Foundation were present for this event. Dr. J. I. D'souza, Principal Coordinator, WSIAC coordinated this event.

Dr. Shouche started the session with different species available on the Earth. The points like Number of Stars on the planet, Habitable Zone, what is life...? and life in extreme condition were covered by him. He also highlighted about different activities and astrobiology balloon experiment undertaken by institutes like IUCAA, ISRO, CCMB and NCCS.

More than 1000 students from nearby schools and faculties of various schools and colleges have attended the public talk. The session was very interactive and interesting. After completion of the lecture many students and faculties asked the questions and doubts. Dr. Shouche cleared all the doubts of students and faculties lucidly. Finally the session was concluded with vote of thanks by Dr. J. I. Disouza.

Annual Report (2017-18);

SWVSM's Warana Science & Innovation Activity Centre, Warananagar



Felicitation of Hon. Dr. Yogesh Shouche by Hon. Dr. Vinayraoji Kore



Felicitation of Dr. Vinayraoji Kore by Dr. J. I. Disouza

Annual Report (2017-18);

SWVSM's Warana Science & Innovation Activity Centre, Warananagar



Felicitation of Hon. Mr. N. H. Patil by Dr. J. I. Disouza



Dr. Yogesh Shouche delivering the keynote speech

Annual Report (2017-18);

SWVSM's Warana Science & Innovation Activity Centre, Warananagar



Hon. Dr. Vinayraoji Kore, Hon. Mr. N. H. Patil, Dr. J. I. D'souza for public talk



Audience

Annual Report (2017-18);

SWVSM's Warana Science & Innovation Activity Centre, Warananagar



Students asking questions to **Dr. Shouche**



Mr. S. P Bhosale from Jakhale High School asking the question

Jr. College Teachers Workshop (12th April, 2018)



श्री वारणा विभाग शिक्षण मंडळ संचलित
वारणा सायन्स अँड इनोव्हेशन अँक्टिव्हिटी सेंटर,
वारणानगर
(राजीव गांधी सायन्स अँड टेक्नॉलॉजी कमिशन, महाराष्ट्र शासन पुरस्कृत)



गुरुवार, दि. १२ एप्रिल २०१८ रोजी,

कनिष्ठ महाविद्यालयातील विज्ञान व गणिताच्या शिक्षकांसाठी 'विज्ञान आणि तंत्रज्ञानातील नवकल्पना' या विषयावर मोफत कार्यशाळा

श्री वारणा विभाग शिक्षण मंडळ

सहकारमहर्षी कै.तात्यासाहेब कोरे यांनी समाजातील गरीब व होतकरू विद्यार्थ्यांना दर्जेदार शिक्षणाच्या संधी उपलब्ध करून देण्यासाठी श्री वारणा विभाग शिक्षण मंडळ, वारणानगर या शिक्षण संस्थेची १९६४ साली स्थापना केली. या शिक्षण संस्थेमध्ये अगदी बालवाडी पासून पी. एच. डी. पर्यंत शिक्षण दिले जाते. 'नव मानवा साकारू, हाच शिक्षणाचा महामेरू' या बिंदू वाक्यास साजेसे कार्य शिक्षण मंडळ सदैव करत आहे.

वारणा सायन्स अँड इनोव्हेशन अँक्टिव्हिटी सेंटर

शालेय विद्यार्थ्यांमध्ये विज्ञान विषयीचे कुतूहल वाढावे, दैनंदिन घटनांकडे पाहण्याचा त्यांचा वैज्ञानिक दृष्टीकोन वृद्धीगत व्हावा, वैज्ञानिक संकल्पना त्यांना सहज सोप्या पध्दतीने उमगाव्यात... म्हणून राजीव गांधी सायन्स अँड टेक्नॉलॉजी कमिशन, महाराष्ट्र शासन यांच्या सहकार्यातून, डॉ. अनिल काकोडकर यांच्या शुभहस्ते आणि डॉ. विनयरावजी कोरे (सावकर) यांच्या उपस्थितीत, २४ फेब्रुवारी २०१७ रोजी 'वारणा सायन्स अँड इनोव्हेशन अँक्टिव्हिटी सेंटर' ची सुरवात करणेत आली.

कार्यशाळेविषयी

विज्ञानातील मुलभूत व नाविन्यपूर्ण संकल्पना तसेच आधुनिक विज्ञान व त्यावर आधारीत तंत्रज्ञान याची आपल्या दैनंदिन जीवनामध्ये असणारी उपयुक्तता जाणून घेण्यासाठी... आजपर्यंत आपण शिकत आणि शिकवत असलेल्या विज्ञान व गणितातील संकल्पनांचे औषध व अभियांत्रिकी क्षेत्रातील महत्त्व जाणून घेण्यासाठी... वारणा सायन्स अँड इनोव्हेशन अँक्टिव्हिटी सेंटरच्या वतीने 'विज्ञान आणि तंत्रज्ञानातील नवकल्पना' या विषयावरील एक दिवसीय कार्यशाळेचे आयोजन केले आहे.

कार्यक्रमाचे अध्यक्ष

मा. डॉ. विनयरावजी कोरे (सावकर)

अध्यक्ष, श्री वारणा विविध उद्योग व शिक्षण समूह, वारणानगर

प्रमुख वक्ते

डॉ. योगेश कुलकर्णी

कार्यकारी संचालक, विज्ञान आश्रम, पावळ

आयोजन समिती

डॉ. जे. आय. टिसोझा प्राचार्य, टी.के.सी.पी : प्रिन्सिपल कोऑर्डिनेटर, वारणा सायन्स सेंटर	डॉ. सी. एम. जमखंदी प्राचार्य, टी.के.सी.पी. (डिप्लोमा)	पा. वी. व्ही. विराजदार प्राचार्य, टी.के.आय.ई.टी.(डिप्लोमा)	डॉ. एस. व्ही. आणेकर प्राचार्य, टी.के.आय.ई.टी.
प्रा. एस्. एस्. पाटील सायन्टिफिक ऑफीसर	प्रा. एस्. एच्. मोरे सायन्टिफिक ऑफीसर	प्रा. पी. एस्. कुंभार सायन्टिफिक ऑफीसर	प्रा. पी. डी. लोले सायन्टिफिक ऑफीसर

वारणा सायन्स अँड इनोव्हेशन अँक्टिव्हिटी सेंटर, वारणानगर

स्थळ: डॉ. विनय कोरे क्रिडा व सांस्कृतिक केंद्र, वारणानगर
वेळ: सकाळी १०.०० ते सायंकाळी ५.००
संपर्क: ९४२३२८२६५८, ९९७०६२४३८७, ७७७००३९७३९, ९४२९७७०२९८

Annual Report (2017-18);

SWVSM's Warana Science & Innovation Activity Centre, Warananagar

About Workshop:

Science and Technology have become key factors for sustainable development worldwide. Science contributes to the quality of life in various areas including health, nutrition, agriculture and industrial development. Therefore the main motto of this workshop was to understand importance of fundamental science in our daily life. To realize innovations in the science, and technology based on the modern science.

SCHEDULE

TIME	EVENTS
10.00 - 11.00 am	<ul style="list-style-type: none">Registration
11.00 - 11.10 am	<ul style="list-style-type: none">Felicitation of Chief Guest
11.10 - 11.15 am	<ul style="list-style-type: none">Introduction of chief guest
11.15 - 01.00 pm	<ul style="list-style-type: none">SpeechDr. Yogesh Kulkarni Executive Director, Vigyan Ashram, Pabal
01.00 - 01.45 pm	<ul style="list-style-type: none">Guidance onImportance of Science & Technology in the field of Engineering by Dr. S. V. Anekar & Prof. B. V. Birajdar
01.45-02.30 pm	<ul style="list-style-type: none">Lunch
02.30-04.30 pm	<ul style="list-style-type: none">Visit of delegates to the Science Centre
04.30-05.00pm	<ul style="list-style-type: none">Guidance onImportance of Science & Technology in the field of Pharmacy by Dr. J. I. D'souza
05.00-05.05 pm	<ul style="list-style-type: none">Vote of ThanksProf. P. S. Kumbhar Scientific officer, WSIAC
05.05 pm	<ul style="list-style-type: none">End of the programme

Workshop report:

One Day Workshop for the Junior College Science Teachers on "Innovations in Science & Technology was organized on 12th April, 2018 by WSIAC in association with TKIET (Degree & Polytechnic) and TKCP (Degree & Diploma). Dr. Yogesh Kulkarni, Executive Director, Vigyan Ashram, Pabal, Dr. J. I. D'souza, Principal, TKCP; Principal Co-ordinator (WSIAC),

Annual Report (2017-18);

SWVSM's Warana Science & Innovation Activity Centre, Warananagar

Dr. S. V. Anekar Principal, TKIET, Prof. B. V. Birajdar Principal, TKIET (Polytechnic) were present for this event.

Dr. Yogesh Kulkarni started the session with fundamental concepts of the science, its importance in human life, technologies based on the modern science and innovations in the science. They highlighted the importance of FAB Lab. He also provided information of the Vigyan Ashram, Pabal and importance of activity based learning in students as well as teachers life.

More than 170 teachers from different colleges attended this workshop. The session was very interactive and interesting. After completion of the lecture many teachers have asked the questions and doubts. Dr. Kulkarni cleared all the doubts of the faculties lucidly.

Dr. S. V. Anekar and Prof. B. V. Birajdar highlighted the importance of science in the field of engineering. Dr. J. I. D'souza highlighted importance of science in the field of pharmacy. Finally session was concluded with the vote of thanks by Prof. P. S. Kumbhar.



Felicitaton of **Dr. Yogesh Kulkarni** by **Prof. B. V. Birajdar**

Annual Report (2017-18);

SWVSM's Warana Science & Innovation Activity Centre, Warananagar



Dr. Yogesh Kulkarni delivering the keynote speech



Presence of **Dr. J. I. Disouza**, **Dr. S. V. Anekar**, **Prof. B. V. Birajdar** and delegates

Annual Report (2017-18);

SWVSM's Warana Science & Innovation Activity Centre, Warananagar



Delegates asking questions to **Dr. Kulkarni**



Dr. S. V. Anekar delivering speech on Importance of Science & Technology in the field of Engineering

Annual Report (2017-18);

SWVSM's Warana Science & Innovation Activity Centre, Warananagar



Dr. J. I. Disouza delivering speech on Importance of Science & Technology in the field of Pharmacy

Four days student workshop on
'Activity based Science & Technology Learning'
(19th – 22nd April, 2018)



श्री वारणा विभाग शिक्षण मंडळ संचलित
वारणा सायन्स अँड इनोव्हेशन अँक्टिव्हिटी सेंटर,
वारणानगर

(राजीव गांधी सायन्स अँड टेक्नॉलॉजी कमिशन, महाराष्ट्र शासन पुरस्कृत)



इयत्ता ७ वी ते ९ वी च्या विद्यार्थ्यांसाठी दि. १९ ते २२ एप्रिल २०१८ रोजी,

'कृतीतून विज्ञान आणि तंत्रज्ञान' या विषयावर कार्यशाळा

श्री वारणा विभाग शिक्षण मंडळ

सहकारमहर्षी कै.तात्यासाहेब कोरे यांनी समाजातील गरीब व होतकरु विद्यार्थ्यांना दर्जेदार शिक्षणाच्या संधी उपलब्ध करून देण्यासाठी श्री वारणा विभाग शिक्षण मंडळ, वारणानगर या शिक्षण संस्थेची १९६४ साली स्थापना केली. या शिक्षण संस्थेमध्ये अगदी बालवाडी पासून पी. एच. डी. पर्यंत शिक्षण दिले जाते. 'नव मानवा साकार, हाच शिक्षणाचा महामेरू' या ब्रिद वाक्यास साजेसे कार्य शिक्षण मंडळ सदैव करत आहे.

वारणा सायन्स अँड इनोव्हेशन अँक्टिव्हिटी सेंटर

शालेय विद्यार्थ्यांमध्ये विज्ञान विषयीचे कुतुहल वाढावे, दैनंदिन घटनांकडे पाहण्याचा त्यांचा वैज्ञानिक दृष्टीकोन वृद्धीगत व्हावा, वैज्ञानिक संकल्पना त्यांना सहज सोप्या पध्दतीने उमगाव्यात... म्हणून राजीव गांधी सायन्स अँड टेक्नॉलॉजी कमिशन, महाराष्ट्र शासन यांच्या सहकार्यातून, डॉ. अनिल काकोडकर यांच्या शुभहस्ते आणि डॉ. विनयरावजी कोरे (सावकर) यांच्या उपस्थितीत, २४ फेब्रुवारी २०१७ रोजी 'वारणा सायन्स अँड इनोव्हेशन अँक्टिव्हिटी सेंटर' ची सुरवात करणेत आली. हे दालन सर्वांसाठी मोफत खुले आहे.

कार्यशाळेची उद्दिष्टे

१. कृतीशील प्रयोगांतून विद्यार्थ्यांचा वैज्ञानिक दृष्टीकोन विकसीत करणे
२. पदार्थविज्ञान, रसायनशास्त्र या विषयातील मुलभूत संकल्पना कृतीतून समजून घेणे
३. 'टाकाऊतून वैज्ञानिक खेळणी' तयार करण्याचा प्रत्यक्ष अनुभव घेणे
४. खगोलीय दूरदर्शिकाची रचना व कार्यपध्दती समजून घेणे
५. सहलीतून जैविक विविधता व पर्यावरणाचा अभ्यास करणे

कार्यशाळेचे अध्यक्ष

मा. डॉ. विनयरावजी कोरे (सावकर)

अध्यक्ष, श्री वारणा विविध उद्योग व शिक्षण समूह, वारणानगर

सह-आयोजक

नेहरु सायन्स सेंटर, मुंबई
अँग्रीकल्चरल डिपार्टमेंट ट्रस्ट, शरदनगर, वारामती
मुक्तांगण एक्सप्लोरेटरी, पुणे

स्थळ:- वारणा विज्ञान केंद्र, वारणानगर वेळ:- सकाळी ०९.०० ते सायंकाळी ५.००

संपर्क:- ९४२३२८२६५८, ९९७०६२४३८७, ७७७००३९७३९, ९४२९७७०२९८

नोंदणी शुल्क:- रु. १२००/- (प्रती विद्यार्थी)

दि.१५/०४/२०१८ अखेर नोंदणी स्विकारण्यात येईल

Objectives of Workshop:

- To develop scientific vision through activity based learning;
- To understand the basic concepts of basic Science through experimentation;
- Experiencing preparation of science toys from waste;
- Understanding Biodiversity through botanical tour;
- Telescope making and observation;

Workshop:

Activity based Science & Technology Learning Workshop for Secondary school students was organized at WSIAC during 19th - 22nd April, 2018. Various activities conducted in the four day's workshop during 9.00 am to 5.30 pm are as follows.

First Day: Thursday, 19/04/2018

Welcome and felicitation of the chief guest Mr. Sachin Lokapure of SAGLO Research Equipment, Miraj & resource persons Mrs. Manjula Yadav and Mr. C. S. Pulliwar, Education Officers, Nehru Science Centre, Mumbai was done by Dr. J. I. Disouza, Principal Co-ordinator, WSIAC by offering memento as a token of love and appreciation in presence of all the scientific officers of WSIAC. Then Dr. J. I. D'souza introduced about the workshop. Scientific Officer, Prof. S. H. More introduced the chief guests. Mrs. Manjula Yadav started the session with basic concepts in physics. In that, she focussed on the concepts of basic sciences like gravity, importance of centre of gravity of body etc.

In the afternoon session Mr. C. S. Pulliwar focussed on chemistry. He showed different magical experiments from chemistry. Various chemical reactions and experimentation made the session live. Both morning and afternoon sessions were very much useful to all.



Visit of Hon. Dr. Vinayraoji Kore to the workshop

Annual Report (2017-18);

SWVSM's Warana Science & Innovation Activity Centre, Warananagar



Felicitation of Mrs. Manjula Yadav



Felicitation of Mr. C. S. Pulliwar

Annual Report (2017-18);

SWVSM's Warana Science & Innovation Activity Centre, Warananagar



Mrs. Manjula Yadav teaching various concepts through activity

Second Day: Friday, 20/04/2018

For the second day of workshop the resource person's present were Mr. Gaurao Parmar, Mr. Rohit Sonam and Mr. Tejas Chimbalkar from Mukhtangan Expolatory Science centre Pune. The morning session of this day deals with basics of Chemistry. In this activity based session, various basics and interesting chemistry experiments were conducted as well as demonstrated by Mr. Gaurao Parmar & Mr. Rohit Sonam. In the afternoon session Mr. Tejas Chimbalkar highlighted some basic concepts of physics. He also demonstrated the importance of centre of mass by live demo. All the student participants were involved actively and enjoyed these sessions.



Mr. Gaurao Paramar demonstrating Chemistry experiments

Annual Report (2017-18);

SWVSM's Warana Science & Innovation Activity Centre, Warananagar



Mr. Tejas Chimbalkar demonstrating concept of momentum transfer in physics

Third Day: Saturday, 21/04/2018

On this day the resource persons were Mr. Shivaji Mane and Mr. Maharudra Mate from IUCAA Pune. Both morning and afternoon sessions were concentrated on toys making from trash. They explained difference between pitch and frequency of sound. How pitch of sound depends on the length of vocal cord was explained with simple straw. The types of toys that they made covers a wide variety of topics such as: air and water; flying toys; electricity and magnetism; toys based on the concepts of pressure, light, mathematics, sound, Newtonian concepts; spinning toys; paper toys; motor and generator-based toys, etc. By using basic principles of physics they conducted various experiments and explained their applications in real world. Whole day session was interesting, motivating and provided important message to all the participants “in order to innovate, people don't really have to be different; they just need to think differently”.

Annual Report (2017-18);

SWVSM's Warana Science & Innovation Activity Centre, Warananagar



Students are enjoying toy making session



Students attending toys making sessions

Fourth Day: Sunday, 22/04/2018

In morning session there was a botanical tour to Panhala, in the presence of Dr. M. Y. Bachulkar, the Botanical Scientist. All started their journey morning at 8.00 am towards Panhala. Bachulkar sir explained the various plants on the road as well as in the garden. He explained origin, botanical name, morphology and medicinal as well as other uses of different parts of the plants. This botanical tour has provided information regarding various useful plants available in the nearby area. We returned back at 1.00 pm.



Visit to botanical garden Panhala with Botanical Scientist **Dr. M. Y. Bachulkar**



Dr. M. Y. Bachulkar giving information about the plants

After the lunch, the second session of fourth day workshop was conducted by Mr. B. B. Sawalwade, expert in telescope making, from Akkatai Neje high school Datawad. In this session, he explained construction, working and various types of telescopes. He also demonstrated how to observe object by using telescope. Students enjoyed this session by observing the various objects in sky.



Mr. B. B. Sawalwade explaining Construction & Working of Telescope



Students observing objects in sky through Telescope

Media Coverage:

लोकमत

वारणेत विज्ञान कार्यशाळा उत्साहात

लोकमत न्यूज नेटवर्क

वारणानगर : विद्यार्थ्यांनी वेगवेगळ्या कृतीतून विज्ञानातील अनेक सिद्धांत समजूत घेण्यासाठी श्री वारणा विभाग शिक्षण मंडळ संचलित वारणा सायन्स अँड इनोव्हेशन अॅक्टिव्हिटी सेंटरच्या वतीने शालेय विद्यार्थ्यांसाठी 'कृतीतून विज्ञान आणि तंत्रज्ञान' या विषयावरील चार दिवसीय कार्यशाळा पार पडली.

नेहरू सायन्स सेंटर, मुंबई; मुक्तगण एक्सप्लोरेटरी, पुणे; आयुका, पुणे यांच्या संयुक्त विद्यमाने आयोजित कार्यशाळेच्या उद्घाटनप्रसंगी प्रास्ताविक करताना वारणा सायन्स सेंटरचे प्रिन्सिपल कोऑर्डिनेटर डॉ. जॉन डिसोझा यांनी आधुनिक शिक्षण पद्धतीमध्ये अशा कार्यशाळांचे महत्त्व पटवून दिले. उद्घाटन पश्चिम महाराष्ट्रातील पेटंटमॅन प्रा. सचिन लोकापुरे यांच्या उपस्थित झाले. कार्यशाळेच्या पहिल्या दिवशी नेहरू



वारणा सायन्स अँड इनोव्हेशन अॅक्टिव्हिटी सेंटरच्या वतीने आयोजित विज्ञान कार्यशाळेस डॉ. विनय यद्वे यांनी भेट देऊन मार्गदर्शन केले. चाचेळी प्राचार्य डॉ. जॉन डिसोझा, प्राध्यापक, आदी मान्यवर उपस्थित होते.

सायन्स सेंटर, मुंबईच्या मंजुळा यादव आणि चारुदत्त पुल्लिवार यांनी मार्गदर्शन केले.

अॅग्रीकल्चर डेव्हलपमेंट ट्रस्ट, वारामतीचे शिवाजी माने आणि आयुका, पुणे येथील महासूद मते यांनी टाकाऊतून ५०हून अधिक वैज्ञानिक खेळणी करण्याची प्रात्यक्षिके करून दाखवली. चौथ्या दिवशीच्या सकाळच्या सत्रात विद्यार्थ्यांनी

निस्सर्गमित्र डॉ. मधुकर बाचूळकर यांच्या मार्गदर्शनाखाली बाॅटनीकल टुरचा आनंद घेतला.

या कार्यशाळेत परिसरातील शाळांमधून ५०हून अधिक विद्यार्थ्यांनी सहभाग घेतला. या कार्यशाळेच्या यशाची नियोजनासाठी श्री वारणा विविध उद्योग आणि शिक्षण समूहाचे अध्यक्ष डॉ. विनय कोरे यांचे मार्गदर्शन लाभले.

Two days Science teachers' workshop on 'Fostering Creativity & Innovation in Science Education' (26th & 27th April, 2018)



Vigyan Prasar, DST, Government of India



Jointly with
Shree Warana Vibhag Shikshan Mandal's
Warana Science & Innovation Activity Centre

(Project aided by - Rajiv Gandhi Science and Technology Commission, Govt. of Maharashtra)

Two days workshop for Science teacher's of Secondary Schools (Standard 5th to 10th)

'Fostering Creativity and Innovation in Science Education'

Shree Warana Vibhag Shikshan Mandal

To provide higher education to poor, deprived & deserving; Sahakarmaharshi Late Tatyasaheb Kore established Shree Warana Vibhag Shikshan Mandal [SWVSM] in 1964. It presently holds K.G. to Ph.D. courses in basic & technical sciences. NBA and NAAC accreditation of TKIET & NAAC accreditation of Y. C. Warana is the proof of quality education tendered by SWVSM. TKCP is another feather in the crown of SWVSM.

Warana Science & Innovation Activity Centre

To enhance the scientific and technical approach of school and college students, Shree Warana Vibhag Shikshan Mandal with the co-operation of Rajiv Gandhi Science and Technology Commission, Govt. of Maharashtra, have started Warana Science & Innovation Activity Centre [WSIAC]. The centre was inaugurated by Hon. Dr. Anil Kakodkar in presence of Hon. Dr. Vinayraoji Kore (Savkar) on 24th February, 2017.

Vigyan Prasar

Vigyan Prasar (VP) is an autonomous organization under the Department of Science and Technology (DST), Government of India. The main objective of VP is to serve India's science popularization agenda. Science popularization serves as a robust knowledge led tool to fulfill mutually reinforcing public policy objectives. The first is to create and foster a well-informed citizenry. The second is about building capacities to communicate. VP accordingly serves as a resource & facilitation centre for S & T communication.

About Workshop

"The illiterate of the 21st century will not be those who cannot read and write, but those who cannot learn, unlearn and relearn."

So, the goal of the education is not to teach or provide them with the information but to boost the development of the child's brain; to assist the child to understand concepts and theories; to broaden the child's understanding of things so that they can apply it in their life. The traditional lecture method is not enough to serve this goal; and activity based learning (ABL) can be an effective alternative...

The objectives of the workshop are to:

- Raise awareness about experiential learning/ learning by doing/ active learning opportunities;
- Facilitate teachers to effectively implement ABL;
- Motivate teachers to transform 'Classroom into Thinkroom';
- Train teachers to use the activity kits in teaching-learning process, effectively;
- Support teachers to transform teaching into 'fun learning activity';

Annual Report (2017-18);

SWVSM's Warana Science & Innovation Activity Centre, Warananagar

Schedule

Day 1 26 th April 2018	Day 2 27 th April 2018
Session 1 – Modern Physics Discovery of radioactivity, Theory of relativity etc.	Session 1 – Chemistry Crystal necklace, Carbon cycle etc.
Session 2 – Astronomy Why are Stars not visible during Daytime? The Eclipse etc.	Session 2 – Earthquake Earthquake observatory, Earthquake resistance structures etc.
Session 3 – Biodiversity General diversity, 'Soil' the major eco system etc.	Session 3 – Weather Make your own - Anemometer, Thermometer etc.

Patrons

Dr. Anil Kakodkar

President,
RGSTC

Hon. Dr. Vinayraoji Kore

President, Warana Industrial &
Educational Complex

Shri. Chander Mohan

Director,
Vigyan Prasara

Resource Persons

Mr. Kapil Tripathi

Scientist E,
Vigyan Prasara

Dr. Mukesh Roy

Associate Professor,
IITM, Jabalpur

Mr. Narendra Singh

PGT,
Delhi Education Dept.

Dr. Arvind Ranade

Scientist E,
Vigyan Prasara

Organizing Committee

Mr. Suhas Markandeya

Member Secretary,
RGSTC

Dr. Arun Sapre

Former
Member Secretary,
RGSTC

Dr. John D'souza

Principal Coordinator,
WSIAC

Mr. Kapil Tripathi

Head - Science on
Television, Vigyan Prasara

Prof. S. S. Patil
Scientific Officer,
WSIAC

Prof. S. H. More
Scientific Officer,
WSIAC

Prof. P. S. Kumbhar
Scientific Officer,
WSIAC

Prof. P. D. Lole
Scientific Officer,
WSIAC

Last date of registration: 21st April 2018, till 5.00 pm

Registration Fees: Rs 500/-

Program is for limited seats (First come first serve)

Date: 26th – 27th April 2018

Time: 9.00 am – 5.00 pm

Venue: Warana Science & Innovation Activity Centre,
Warananagar

Contact: 9423282658, 9970624387, 7770039731, 9421770218

Workshop report:

In order to understand and explain the various concepts and principles in Science; the traditional teaching method and just use of textbooks is not sufficient. Recognizing this need of modern system of education, Vigyan Prasar, DST, Government of India jointly with WSIAC was organized two days workshop for Science teachers from nearby schools and colleges on 'Fostering Creativity and Innovations in Science Education' during 26th & 27th April, 2018 at Warana Science and Innovation Activity Centre, Warananagar. Scientists having 15-20 years of experience in research were the resource persons for this workshop. At the time of inauguration, in welcome speech the Principal Co-ordinator of WSIAC, Dr. J. I. D'souza confirmed the importance of active and experimental studies. Scientist Mr. Kapil Tripathi gave information about various activities being done by Vigyan Prasar for promotion, popularization and spreading of Science in all over the India. They also introduced activity kits developed by Vigyan Prasar for various subjects in Science like Modern Physics, Chemistry, Biology, Astronomy, Biodiversity and Earthquake.

On first day i.e. 26th April, in morning session Mr. Narendra Singh, PGT, Delhi Education Department performed and explained different experiments in Chemistry using activity kit. In afternoon session, astronomer Dr. Arvind Ranade presented the Planets, the Stars, the Zodiac sign and their relation with human life with scientific perspective. They covered the topics like, how to identify the stars? Their distance from earth, the radar system or the Zodiac sign created by group of stars, the circulation and the rotation of the Moon and the Earth and many more issues were analyzed by activities.

On second day i.e. 27th April, in morning session Dr. Arun Sapre, Former Member Secretary, Rajiv Gandhi Science & Technology Commission, Government of Maharashtra was present. In this session, Dr. Mukesh Roy Associate Professor, IITM, Jabalpur explained the hidden physics in everything that happens in our daily life, through simple and easy experiments. Many concepts like electromagnetic waves, light, sound, frequency, etc. have been presented in front of everyone with demonstration. In afternoon session, Mr. Kapil Tripathi underlined the expected improvements in teaching from teachers by focusing about changes in modern system of education.

More than 50 participants were attended this workshop. By the valuable guidance of Hon. Dr. Vinayraoji Kore, President, Warana Industrial & Educational Complex and support of all the principals, teachers of schools, colleges in campus, scientific officers, Vigyandoot, non-teaching staffs the workshop was completed successfully. Anchoring and vote of thanks was given by scientific officer Prof. S. S. Patil.

Annual Report (2017-18);

SWVSM's Warana Science & Innovation Activity Centre, Warananagar



Welcome speech by **Dr. J. I. D'souza**, Principal Co-ordinator, WSIAC



Delegates

Annual Report (2017-18);

SWVSM's Warana Science & Innovation Activity Centre, Warananagar



Mr. Kapil Tripathi giving information about various activities being done by Vigyan Prasar for promotion, popularization and spreading of Science in all over India.



Mr. Narendra Singh, performing and explaining different experiments in Chemistry

Annual Report (2017-18);

SWVSM's Warana Science & Innovation Activity Centre, Warananagar



Dr. Arvind Ranade presenting concepts through activity



Dr. Mukesh Roy explaining hidden physics through easy and simple Experiments

Annual Report (2017-18);

SWVSM's Warana Science & Innovation Activity Centre, Warananagar



In presence of **Dr. Arun Sapre**, Former Member Secretary, Rajiv Gandhi Science & Technology Commission, Government of Maharashtra



Mr. Kapil Tripathi underlining the expected improvements in teaching from teachers

Annual Report (2017-18);

SWVSM's Warana Science & Innovation Activity Centre, Warananagar



Delegates giving the feedback of the workshop

Media Coverage:

लोकमत



वारणा सायन्स अँड इनोव्हेशन अॅक्टिव्हिटी सेंटरच्या वतीने परिसरातील शाळा व महाविद्यालयातील विज्ञान शिक्षकांसाठी 'नावीन्यपूर्ण उपक्रमातून विज्ञान शिक्षणातील सर्जनशीलता वाढवणे' या विषयावर कार्यशाळा झाली.

आधुनिक विज्ञान, तंत्रज्ञान शिकण्याची गरज : डिसोझा

लोकमत न्यूज नेटवर्क

वारणानगर : शिक्षण पद्धतीमध्ये वेगवेगळे वैज्ञानिक सिद्धांत समजून घेण्यासाठी फक्त पुस्तकीज्ञान पुरेसं नसून कृतिशील प्रयोगातून अभ्यास तितकाच महत्त्वाचा बनला आहे. आधुनिक शिक्षण पद्धतीमधील विज्ञान आणि तंत्रज्ञान शिकण्याची खरी गरज आहे, असे प्रतिपादन कोरे फार्मसीचे प्राचार्य डॉ. जॉन डिसोझा यांनी केले.

वारणा सायन्स अँड इनोव्हेशन अॅक्टिव्हिटी सेंटरच्या वतीने परिसरातील शाळा व

महाविद्यालयातील विज्ञान शिक्षकांसाठी 'नावीन्यपूर्ण उपक्रमातून विज्ञान शिक्षणातील सर्जनशीलता वाढवणे' या विषयांवरील दोनदिवसीय कार्यशाळेचे आयोजन केले होते. त्यावेळी ते बोलत होते. शास्त्रज्ञ कपिल त्रिपाठी, दिल्ली एज्युकेशन डिपार्टमेंटचे नरेंद्र सिंग, डॉ. अरविंद रानडे, महाराष्ट्र शासनाच्या राजीव गांधी सायन्स अँड टेक्नॉलॉजी कमिशनने माजी सेक्रेटरी डॉ. अरुण सप्रे, आयआयटीएम जबलपूरचे असोसिएट प्रोफेसर डॉ. मुकेश रॉय यांनी मार्गदर्शन केले. प्रा. एस. एस. पाटील यांनी आभार मानले.