



**MAHATMA GANDHI MISSION'S DENTAL COLLEGE &
HOSPITAL**

Accredited by NAAC with "A++" Grade
Plot No. 1 & 2 Sector-01 (Old 18 & 19),
Kamothe, Navi Mumbai- 410209
E-Mail ID: mgmdch@mgmmumbai.ac.in



SSRACTIVITY

Title: Workshop on Making Science Fun

Category:C

Activity: Individual Lectures

Dates of Event: 25th-26th September 2024

Resource Person/ Industry Involved: Dr. Gigo Raj Scientist C, Shri Chitra Tirunal Institute of Medical Sciences & Technology, Trivandrum (CV attached)

Facilitators:

1. **Faculty** - Dr. Srivalli Natrajan, Dr. Vaibhav Thakkar, Dr. Meghna Chandrachood, Dr. Sujata Hirave.
2. **Counsellor** - Ms. Priyanka Sharma
3. **Interns** - Samiksha Pawar, Lucky Mahure

Venues:

1. MGM School, Nerul on 25/09/24
2. Sarnobat Netaji Palkar Vidyalaya, Chowk – Khalapur on 25/09/2024
3. Dr. Parnekar Maharaj School, Vashivali, Khalapur on 26/09/2024

Organizing Departments: DST FIST funded VEDAS (Virtually Engineered Design Assisted Surgery) Research Lab & Department of Public Health Dentistry, MGM Dental College & Hospital, Kamothe, Navi Mumbai in association with Birla Carbon, Patalganga.

Target beneficiaries/attendees: (7th-10th grade school students)

1. MGM School, Nerul: 300 in number
2. Sarnobat Netaji Palkar Vidyalaya, Chowk – Khalapur: 200 in number
3. Dr. Parnekar Maharaj School, Vashivali, Khalapur: 200 in number

A total of 700 school children across three schools attended this workshop.

REPORT

DST FIST funded VEDAS Research Lab, MGM Dental College & Hospital, Kamothe, Navi Mumbai as a part of their Social Science Responsibility (SSR) organised a 'Basic Workshop on Making Science Fun' in association with the Department of Public Health Dentistry, MGM Dental College & Hospital and Birla Carbon, Patalganga on 25th-26th September 2024 for the private and government school children.

The session was conducted by Dr. Gijo Raj, Scientist 'C' from Shree Chitra Tirunal Institute for Medical Sciences & Technology, Trivandrum, Kerala. The target audience were students studying from 7th-10th grade of both government schools and private schools. The schools covered during this activity were MGM School, Nerul which is a private school and Sarnobat Netaji Palkar Vidyalaya, Chowk – Khalapur and Dr. Parnekar Maharaj School, Vashivali, Khalapur which are government schools.

This workshop mainly focused on teaching students how to make different science project with available household materials. Science projects made with household items are a fun and creative way to explore scientific principles. Various principles such as reflection of light, center of mass, centrifugal force, center of gravity, air flow dynamics, Bernoulli theorem, Newton's Law of Inertia, momentum, friction and Law of conservation of energy were taught and explained. Dr. Gijo Raj had built many models relating to these principles like kaleidoscope, periscope, bass boost, planetary model, colour wheel, walking capsule, magnetic box, tilting ball, whirlpool, transverse waves model, eco-friendly cracker, aerator & water fountain. He assembled those models in front of the audience and explained the working principle of each scientific model in very simple terms. Each model was affordable to make, easy to assemble and a great way to spark curiosity among school children as well as teachers. The interns assisted the guest speaker in communicating with students with all the translations and explained the school children all theories in their local language whenever required.

The explanations were very swift and to the point raising a lot of interest in the school children. All the participants were very excited and were very eager to see all the models and understand their functioning. The school children attended the workshop and participated in the group tasks and various exercises. The interaction was done with all the participants during each session by the guest speaker. The workshop was received well by all the students and appreciated by the teachers and principals of all the three schools. Each model offered school children an opportunity to learn and have fun, leaving the young minds with more to uncover. This workshop definitely met the goal of Department of Science and Technology, Government of

India of making science a more interesting subject for the school children to focus on and come up with brilliant ideas to shape the future of our great country.

Venue 1 : MGM School, Nerul



GUEST SPEAKER INTERACTING WITH SCHOOL CHILDREN AT MGM

Venue 2 : Sarnobat Netaji Palkar Vidyalaya, Chowk – Khalapur



INTRODUCTION & FELICITATION OF GUEST SPEAKER AT A GOVERNMENT SCHOOL BEFORE THE START OF THE SESSION BY SCHOOL TEACHERS AND PRINCIPAL.

Venue 3 : Dr. Parnekar Maharaj School, Washivali, Khalapur



DR. GIJO RAJ EXPLAINING THE SCIENTIFIC MODELS TO SCHOOL CHILDREN

पाताळगंगा टाइम्स

चौक शाळेतील विद्यार्थ्यांसाठी 'विज्ञानाची मजा' या विषयावरती विविध प्रात्यक्षिके सादर....



पाताळगंगा टाइम्स • चौक

बिर्ला कार्बन इंडिया प्रा.लि. पाताळगंगा व एमजीएम डेंटल कॉलेज आणि हॉस्पिटल यांच्या संयुक्त विद्यमाने सरनौबत नेताजी पालकर विद्यामंदिर चौक शाळेतील विद्यार्थ्यांसाठी 'विज्ञानाची मजा' या विषयावर श्री चित्रा तिरुनल इन्स्टिट्यूट फॉर मेडिकल सायन्सेस अँड टेक्नॉलॉजीचे शास्त्रज्ञ 'सी' डॉ. गिजो राज यांनी विज्ञानातील अनेक प्रात्यक्षिके सादर करून विद्यार्थ्यांची मने जिंकली. त्यांनी विद्यार्थ्यांशी संवाद साधत मूलभूत साहित्याचा वापर करून विज्ञान विषयक विविध प्रकल्प कसे बनवायचे याचे प्रशिक्षण दिले.

विज्ञानातील नाविन्यपूर्ण प्रतिकृती विद्यार्थ्यांना प्रत्यक्षात हाताळता आल्याने विविध प्रयोगांचा मनसोक्त आनंद घेता

आला. या प्रशिक्षणामुळे विद्यार्थी स्वतः विज्ञान विषयक प्रतिकृती नक्कीच निर्माण करतील. याप्रसंगी एमजीएम डेंटल कॉलेजचे एच.ओ.डी. डॉक्टर वैभव ठक्कर, बिर्ला कार्बन कंपनीचे हरीश रावत सर, सी.एस.आर. प्रमुख लक्ष्मण मोरे सर, प्रशांत गायकवाड सर, संस्थेच्या कार्याध्यक्षा शोभाताई देशमुख, शाळेचे मुख्याध्यापक श्री. भोमले सर, विद्या मंदिर सारंग शाळेचे प्रभारी मुख्याध्यापक पंडित पाटील सर, डेंटल कॉलेजच्या प्रशिक्षणार्थी समीक्षा पवार व लकी माहुरे, विज्ञान विषयाचे शिक्षक व विद्यार्थी वर्ग मोठ्या संख्येने उपस्थित होता.

बिर्ला कंपनी व एमजीएम डेंटल कॉलेज यांनी शाळेमध्ये राबवलेल्या या उपक्रमाबद्दल संस्थेच्या व शाळेच्या वतीने आभार व्यक्त करण्यात आले.

NEWS ABOUT THE WORKSHOP PUBLISHED IN A LOCAL NEWSPAPER.

APPRECIATION LETTER



MAHATMA GANDHI MISSION
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Ref.No.:MGM/N- 3/S-2024 / 484

Date: 18/12/2024

To,
The Dean,
MGM Medical College,
Nerul.

Subject: Appreciation for Science Programme.

Respected Madam,

With reference to the above, we would like to extend our heartfelt appreciation to you and Dr. Gijo Raj, Scientist 'C' from the Shree Chitra Tirunal Institute for Medical Science and Technology, Trivandrum, for the insightful session on "*Science is Fun*" held on **25th September 2024, from 8:00 AM to 10:00 AM.**

The session was both engaging and informative, and we truly appreciate the effort put into making science accessible and enjoyable for all students. It was an enriching experience for everyone involved, and we look forward to more such initiatives in the future.

Thank you once again for your valuable contribution.

Thanking you,

Yours faithfully,

Chauy
18/12/2024
For

PRINCIPAL
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