

VIVEKANAND EDUCATION SOCIETY'S

College of Arts, Science and Commerce (Autonomous)

Reaccredited by NAAC ('A' Grade)
Recipient of FIST Grand (DST), Star College Grant (DBT),
Best College Award (Urban area: Year 2012-2013 (UoM))



Fun with physics



Worlds of IT

Date with Data Science



Computer science ke Fun-day



Pi Pi ka hisaab milega



INTERESTING EXPERIMENTS BASED ON

SCIENCE IN EVERYDAY LIFE

LAB TOURS:

PHYSICS, CHEMISTRY, BIOTECHNOLOGY, MICROBIOLOGY, MATHS, COMPUTER SCIENCE, IT AND DATA SCIENCE

STUDENT COMPETITIONS:

> **Working Model Competition** for students of class 8-12
(To know the details and register, click <https://tinyurl.com/scimelamodels>)

> **Brain Baazi (Quiz)** for students of class 8-12
(To know the details and register, click shrtco.de/Quizzly)

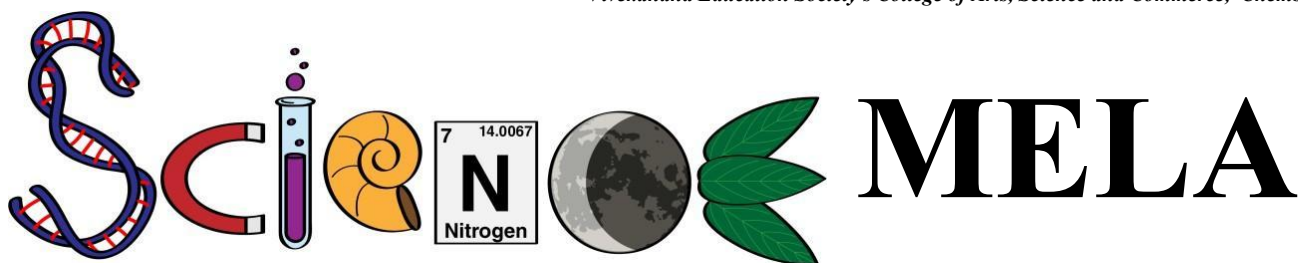
ATTRACTIVE PRIZES

VENUE: Vivekanand Education Society's College of Arts, Science and Commerce (Autonomous), Sindhi Society, Chembur (East), Mumbai- 400071

DATE: 27th and 28th January, 2023 | **TIME:** 9:00 AM to 5:00 PM

For a visit, register at <https://tinyurl.com/vesascmela>

Contact No: 9004285609



Experience the magic of Science!!!

EVENT SCHEDULE: 27TH AND 28TH JANUARY, 2023

GROUND FLOOR: SARASWATI MANDIR			
1	Blood Grouping: Know your Blood Group and the logic behind its identification		
2	Flavoured Yoghurt tasting (BT)		
FIRST FLOOR : PHYSICS LAB (1 HOUR)			
1	Display with Piezo - electric sensor	6	Project a picture using a big drop of water
2	Mirror Illusion (Infinite Mirror)	7	Lissajous figures using LASER
3	3D hologram	8	Color shadows
4	Pendulum Waves	9	Light experiments in Dark room
5	Tesla coil	10	See the beams converge, diverge & forming images by lenses
11	Diffraction, Total Internal reflection of light using LASER beam (seeing the bending of LASER beam)		
ELECTRICITY AND ELECTRONICS			
12	Efficient lighting of hall using the concept of series & parallel resistance concept	15	Electromagnetic levitation
13	Water level indicator	16	Oscilloscope music
14	Data transfer by light		
GENERAL PHYSICS			
17	Ruben tube	21	Generator
18	Microscope – designed & constructed in lab with magnification 300	22	Newton's cradle
19	Experiments demonstrating Laws of Physics	23	Telescope
20	Gaussian Distribution	24	Lissajous Rangoli
FIRST FLOOR : COMPUTER SCIENCE LAB			
1	Type Racer		
2	Unity Game Session.		
3	Pygames(DSDA)		
4	Data Science based Experiment		
5	Logo Quiz		

FIRST FLOOR : IT LAB					
1	Computer Hardware Exhibition	2	Canva: A tool to sharpen graphic designing skills.	3	Metaverse : A presentation to dive deep into the world of metaverse.
SECOND FLOOR : CHEMISTRY DEPARTMENT (60 MIN)					
PHYSICAL LAB					
1	Nuclear reactor				
2	Electroplating		3	Elephant toothpaste	
M.SC. PART-I LAB					
4	Rainbow reaction			6	Food adulteration
5	Fake blood			7	Charcoal filter
M.SC. (ORGANIC) PART-II LAB					
8	Golden Rain				
M.SC. (ANALYTICAL) PART-III LAB					
9	Blue Bottle Experiment				
THIRD FLOOR : MICROBIOLOGY DEPARTMENT (60 MIN)					
1	Rishte me hum tumhare baap lagte hai... Naam hai bacteria (Microbes our ancestors)				
2	Seeing the unseen (Micro and Macro view of microbes)				
3	Hum Saath Saath Hai (Human microbiome and probiotics)				
4	Kya aapke paani me microbes hai? (Analysis of drinking water)				
5	Jam se jaam tak (Food microbiology)				
6	Microbes hi Shaktimaan (Environmental and Agricultural Microbiology)				
7	Microbes in the limelight (Bioluminescent bacteria, New and emerging diseases, Antimicrobial drug resistance, Genetically modified organisms)				
BIOTECHNOLOGY DEPARTMENT (MAIN LAB 50 MIN)					
1	Molecular Biology: DNA extraction from plant material and visualization of DNA on AGE				
2	Applications of Biophysics - Blood pressure Measurement and demonstration, Check your eyesight.				
3	Instrumentation - Rainbow density gradients and its application in centrifugation				
4	Osmosis demonstration: Effect of osmosis on raisins				
5	Bioinformatics: Visualize protein structure				
6	Fun with Pipetting				
7	Model and lapbook display				
ANIMAL TISSUE CULTURE LAB (10 MIN)					
8	Animal Tissue Culture under Inverted Microscope.				
9	Differential staining: Study different types of blood cells				
10	Stages of Mitotic Cell Division				

FOURTH FLOOR: MATHEMATICS DEPARTMENT - AV ROOM (45 MIN)

1	Pi Pi ka Hisaab
2	What if the wheels were not round?!
3	How is the distance between planets calculated?
4	Permutations and combinations in everyday life
5	Mathematics in Architecture
6	Prey-predator and Covid 19 Basic Models
7	Basic Mathematics of Climate Change

FOURTH FLOOR: LIBRARY

- Display of Book, Magazines and Novels pertaining to Science – Students may browse them.
- Working Model Competition

WHAT NEXT?

Plan your Academic future by selecting a career best suited to you, from various options. The **Department of Lifelong Learning & Extension (DLLE)** and **Placement Cell** of our College have organized a Career exhibition in collaboration with Science Mela presenting different careers. Come and interact with our students who will give you an overview on the different careers and courses offered by us which you can aim for.

Venue: VES Polytechnic College, Stilt Area

Links to Register

Registration link for Science Mela Entry: <https://tinyurl.com/vesascmela>

Quiz (Brain Bazzi): <https://shrtco.de/Quizzy>

Working Model Competition: <https://tinyurl.com/scimelamodels>

HOW TO REACH US?

VIVEKANAND EDUCATION SOCIETY'S
COLLEGE OF ARTS, SCIENCE AND COMMERCE (AUTONOMOUS)

Sindhi Society, Chembur (East), Mumbai 400 071, Maharashtra, India

<https://ves.ac.in/vesasc/> +9122 25227470 / 25284132 / 9004285609

From Chembur Station (East) - Bus No. 8, 92 to Swastik Park Bus Stop

From Kurla Station (East) - Bus No. 432 to College

From Kurla Station (East) - Bus No. 369, 501, 431 to Bhakti Bhavan Bus Stop

<https://tinyurl.com/vesasc-map>

Science Mela

“Science and everyday life cannot and should not be separated.” – Rosalind Franklin

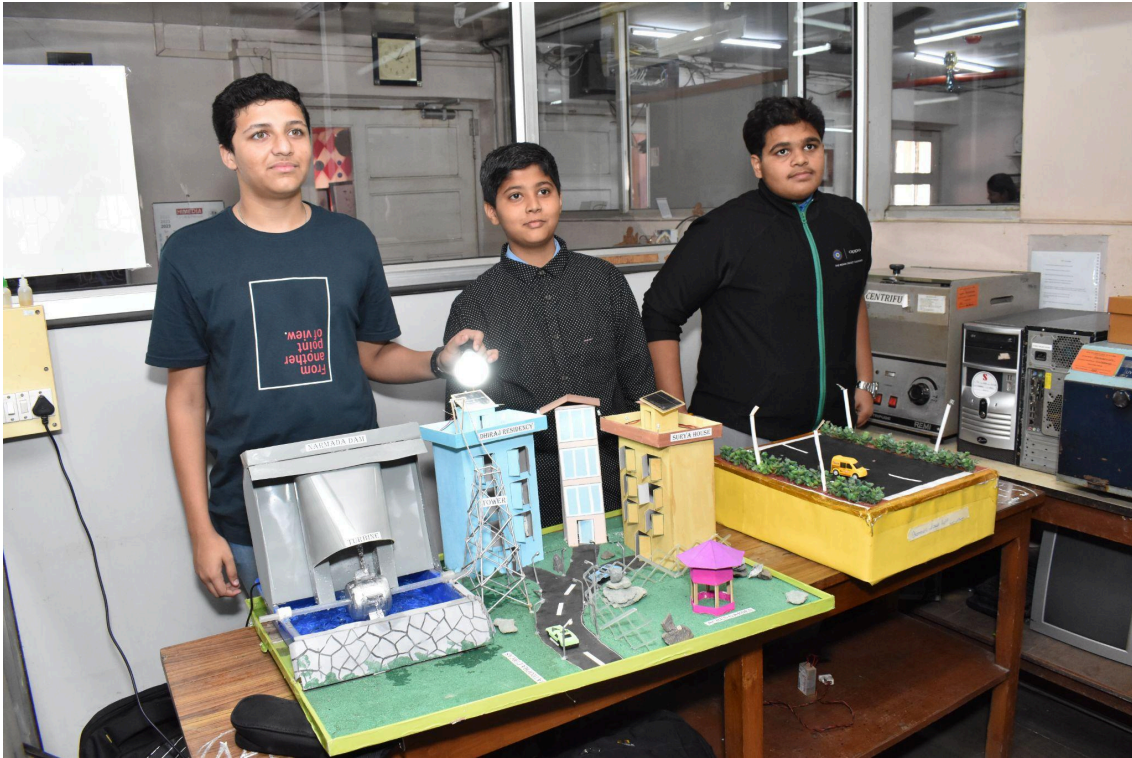
Science Mela is an inter-departmental event organized by Vivekanand Education Society’s College of Arts, Science and Commerce (Autonomous) on specific themes where all science students are motivated to develop and exhibit models based on the principles of the scientific streams they belong to. It is our initiative to popularize and encourage science and scientific thoughts in the community of young minds around us and give them the opportunity to collaborate with us for their scientific adventures. After a span of three years, Science Mela was organized on 27th and 28th January 2023. The theme for this year was “Science in Everyday Life”. Dr. Subhojit Sen, Ramalingaswami Fellow, Faculty, UM-DAE CEBS, Mumbai was invited to give a keynote address. He talked about the various misconceptions in science in public.

Overall 100+ models were exhibited by the undergraduate and postgraduate students from the science departments viz. Physics, Chemistry, Microbiology, Biotechnology, Mathematics, Computer Science, Information Technology, Data Science and Data Analytics. School and Junior College students were invited to visit the college and see these various exhibits. In all 35 schools from various parts of Mumbai and Navi Mumbai visited the Mela with the student count reaching to more than 1000 many of whom were accompanied by their teachers or parents.

This year, school and junior college students were also invited to showcase their models in addition to a science quiz. Mr. Tejas Rathod, Scientific Officer D, Environmental Monitoring and Assessment Division, BARC, Trombay and Dr. Anupma Harshal, Woman in STEM, Consultant-Capacity Building and skill development, Research Management Teacher Trainer, Mentor, Foldscoper were invited as judges for the model-making competition. The first, second and third prize winners of the online quiz at the high school level were Raj Mokashi and Omkar Niwalkar from Our Lady of Perpetual Succour High School, Arnav Naik and Yukta Singh from Jaipuria School and Manjeet Vishwakarma and Aditya Kalsule from St. Sebastian's High School respectively. Vasant Pawar and Komal Tiwari from Shree Sanatan Dharam Vidyalaya & Junior College won the first prize while Raj Chauhan and Daksh Chopra from SIWS and Rufiya Sharif and Masood Khan from AFAC won the second and third prize respectively in the online quiz at junior college level. The prize winners were felicitated and offered incentives in terms of internships and discounted fees at the time of admission in our college.

The real gifts of the Mela were the student volunteers from all departments who worked untiringly before and during the Science Mela. Their enthusiasm while creating and explaining their exhibits to the visitors was a real success. Most of these volunteers were pleased and delighted when they saw the look of awe and surprise in the eyes of the school/college students once they grasped the concept being explained. The feedback received gives us a feeling of satisfaction towards this extension activity and zeal to further propagate the scientific temper among the future generations and become part of the Nation Building.

“The important thing is to never stop questioning [or learning].” – Albert Einstein



Model Making Competition



Model Making Awardees



Physics in action



In silico visualization of Protein structures



Searching for Microbes



Maths ke Maje



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SCIENCE MELA **CERTIFICATE OF APPRECIATION**

This is to certify that <<Name>> of <<Class>>
has contributed to the successful conduct of Science Mela through her/his generous gift of time, energy
and talent as a <<Role>>.

Science Mela was a two day science exhibition held on 27th – 28th January, 2023. Guided tours of the
science exhibits and labs, popular lectures, games, quizzes were offered. In all, more than 750 students,
parents and teachers from 30 schools and junior colleges in Mumbai attended the Science Mela.

Mr. Suman Ganger
Convener

Dr. Anita Kanwar
(Principal)