

## REPORT ON AB INITIO 2.0

Date: 4th, 7th and 8th September 2023

Venue: SVCE Function Hall and Video Hall

### INTRODUCTION-

The **SVCE Science Club** has organized an event- **AB INITIO 2.0**, a state-level **Science Expo cum Experimental demonstration** for School Children from grade 9 to 12. AB INITIO was an initiative to foster a spirit of **curiosity, critical thinking, and innovation** in every student. Through **experiments, discussions, and collaborative projects**, we will embark on a quest for understanding the cutting-edge technologies in the field of Engineering. However, it is not only about the tools and processes. It involves cultivating a mindset that values determination, perseverance, and the fiery intensity to think differently.

The event commenced with an Inaugural ceremony in the presence of Dr. C. Shanmugam, a renowned Scientist in the field of Physics and Chemistry. It was followed by a warm welcome address by our esteemed Principal, Prof. Dr. S. Ganesh Vaidyanathan, who addressed the audience and displayed tremendous encouragement throughout the event. The gathering was also addressed by Dr. K. S. Badrinathan, Dean- Educational Development and Dr. R Muthucumaraswamy, Dean- Research. The importance of science and technology in the modern era were emphasized by the speakers. It was followed by a briefing session by Dr. N. R. Sheela, Head of Department, Applied Physics and faculty coordinator of the Science club stating how this expo serves as a dynamic platform for learning and interaction.

Over 500 students from Sri Chaitanya, Velammal Matric, PSBB Matriculation Higher Secondary School, Gurukshetra Public School, KBJ Gurukulam School, and from various regions of Chennai, Kanchipuram, and Sriperumbudur participated in the event. Students from these schools participated in the **three-day event** with enthusiasm. Student actively participated and engaged themselves during the expo and the experiment session.

The event was split into two timelines: following the Inaugural Ceremony, the Pupils were escorted to different Departments to witness the laboratory. The following were the departments covered: **Automobile Engineering, Marine Engineering, and Mechanical Engineering, followed by Project Exhibition** by our college students from various disciplines in the **Morning Session**.

## MORNING SESSION: DEPARTMENT VISITS

Following the inaugural ceremony, school students were escorted by volunteers from the SVCE Science Club in batches to the following departments:





- **AUTOMOBILE ENGINEERING:**

In the Department of Automobile Engineering, the students were given a brief explanation of the various types of automobiles, their manufacturing, working, and different components of the automotive that act as the main skeletal framework for the smooth running of automobiles. They were also given an insight into the scope of Automobile Engineering, the domains under which engineers work in an industry, the Job opportunities, and many more.



- **MARINE ENGINEERING:**

In the Department of Marine Engineering, the Students witnessed the primary frame structure of the most significant component of the marine, the ship. Concerned faculty members envisioned students learning about the workings of the ship's heart, engine, and many other components. Additionally, they provided a link between the students' fundamental scientific understanding and the application of the theory they had learned in school to real-world industrial settings.





- **MECHANICAL ENGINEERING:**

The students had the opportunity to learn about cutting-edge technology in the mechanical engineering field in the department of mechanical engineering. The department's advanced equipment, including the 3-D printer, robotic arm, and numerous other mechanical and automation components, were on display for the students to observe. Additionally, students learned the value of mechanical engineering and its numerous subfields in the workplace and in actual life scenarios.



## PROJECT EXPO

Students from SVCE's multiple departments displayed their innovations to the students at the Exhibition. The school pupils were able to observe the projects presented by the college students and interact with students from every discipline.

The Project Expo participants were questioned by school students on a variety of engineering, science, and technology-related topics. The school's students actively participated in the projects and had a keen interest in learning about diverse scientific trends.





## LUNCH AT FOOD COURT



## **AFTERNOON SESSION: EXPERIMENTAL DEMONSTRATION BY DR. C. SHANMUGAM**

Following a fulfilling lunch, teachers and students gathered in the Function Hall for the day's highlight: a science experiment Demonstration by our esteemed Chief guest, Dr. C. Shanmugam, a renowned scientist in the field of Chemistry. Shanmugam sir's engagement at the event was of immeasurable importance.

He opened the event with a motivational speech on scientific inquiry and the crucial part that young scientists play in influencing the future. They then carried out a number of fascinating tests. These included live physical experiments with interesting chemistry reactions and physics occurrences. The demonstration was incredibly interactive and educational because the audience actively engaged by asking questions.

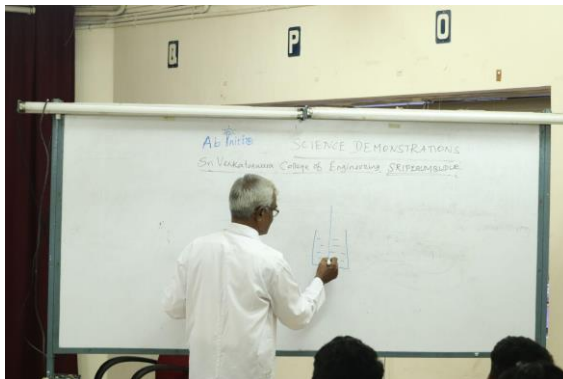




A poster presentation competition was conducted to the school students on theme ‘Sustainability’. Students participated enthusiastically and displayed the posters they had prepared. The posters submitted by students were judged and certificates were distributed to the winners.

Velammal Matriculation school from Mogappair and Gurukshetra School from Kanchipuram bagged the first position. During the valedictory the certificate of achievement were presented to the students by The Regional Manager from Sri Chaitanya School.

The AB INITIO event that the SVCE Science Club put on was a huge success. Students were exposed to a variety of scientific fields, and it encouraged them to pursue their interests further. The event was made especially memorable and educational by Dr. C. Shanmugam sir's presence and direction. After the event, a commemorative picture was taken to honor the occasion, featuring the schools, Dr. N. R. Sheela, Head of the Department, Applied Physics, and the Faculty Advisor of the SVCE Science Club, our chief guest, Dr. C. Shanmugam, Science Club members, and the volunteers.



### POSTER PRESENTATION WINNERS

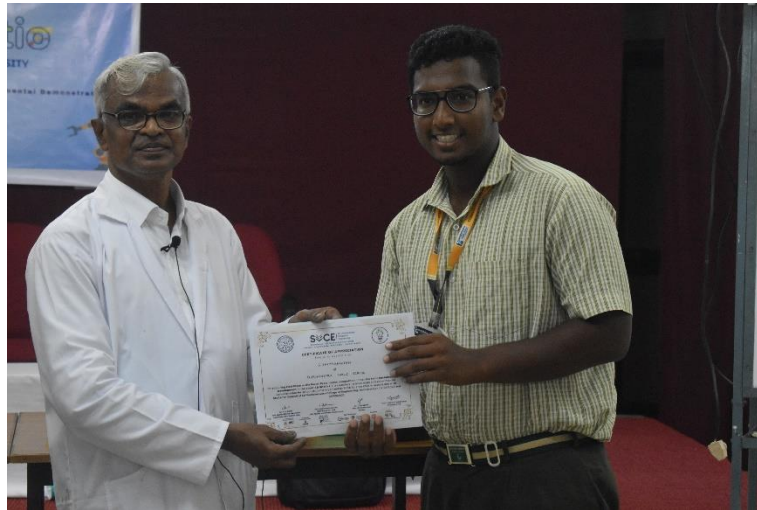




PHOTO SESSION WITH THE SCHOOL STUDENTS











