

Field Trip Report on Weather Station Technology and Quantum Computer Science

Date:- 28-09-2026

No. of Participants:- 30

Description of the Programme :-

The Department of Physics, **Sri Durga Malleswara Siddhartha Mahila Kalasala, Vijayawada**, organized an educational field trip to **SRM University**. The visit was organized to give students practical knowledge about **Weather Station Technology and Quantum Computer Science**.

During the first part of the visit, the experts explained about **weather monitoring systems**. Students learned about different sensors and instruments used to measure temperature, humidity, air pressure, wind speed, wind direction, and other weather conditions. They also explained how the collected data is used for weather analysis and forecasting.

Students learned about the importance of **automatic monitoring, real-time data collection, and modern technology** in studying weather and environmental conditions.

The second part of the visit focused on **Quantum Computer Science**. The experts explained the basic concepts of quantum computing and the difference between classical computers and quantum computers. Students were also introduced to quantum systems, laboratory equipment, and experimental setups used for research.



The laboratory visit helped students understand how the concepts they learn in Physics are connected with practical applications and modern research.



The field trip was conducted with the guidance and support of the **Principal, HOD of Physics, faculty members, and the experts at SRM University.**

Overall, the visit was a **useful and interesting learning experience.** It helped students gain practical knowledge about weather technology and quantum computing. The visit also created interest among students in modern science, technology, and research.

The programme also included an **interactive session**, where students actively interacted with the experts, asked questions, and clarified their doubts.

The field trip was informative and successful in connecting **classroom learning with practical applications.**