



**KONGUNADU ARTS AND SCIENCE COLLEGE
(AUTONOMOUS)**

Re-Accredited by NAAC with A+ Grade (4th Cycle)

52nd Rank among Colleges in NIRF 2024

College of Excellence (UGC)

Coimbatore - 641 029, Tamil Nadu, India.



DEPARTMENT OF COMPUTER SCIENCE

Supported by

DBT STAR COLLEGE SCHEME

REPORT

Name of the Event	Educational field trip to Vijnan Sagar Science and Technology Park, Thrissur, Kerala
Date	25.02.2025
Places of visit	Vijnan Sagar Science and Technology Park, Thrissur, Kerala
Objectives of the Programme	To inculcate the mathematical knowledge by various experimental models.
Outcome of the Programme	The students came to know about various aspects of the existence of science in day to day life and to gain mathematical knowledge practically.
Number of Beneficiaries	Students: I B.Sc. Computer Science – 51 II B.Sc. Computer Science – 03 Faculties: 4

An Industrial visit to Vijnan Sagar Science and Technology Park, Thrissur on 25.02.2025 arranged by Department of Computer Science, Kongunadu Arts and Science College(Autonomous), Coimbatore under DBT Star College Scheme provides valuable practical exposure between theoretical knowledge and real-world applications. This report details about our visit to Vijnan Sagar Science and Technology Park.

SPACE STATION:

A space station is a large, habitable spacecraft designed to remain in Earth's orbit for extended periods, allowing astronauts to live and conduct scientific research in space.

Major Space Stations:

- International Space Station (ISS) : A collaborative project involving NASA (USA), Roscosmos (Russia), ESA (Europe), JAXA (Japan), and CSA (Canada), the ISS has been operational since 1998 and is the largest space station ever built.
- Tiangong Space Station (China) : Launched by China, this modular space station became fully operational in 2022 and serves as China's primary orbital research facility.



Staff explaining about the space station to the students

- Former Space Stations : Earlier stations like Mir (Russia), Skylab (USA), and Salyut (Soviet Union) paved the way for modern space habitats.

BIG BANG THEORY:

The Big Bang Theory is the leading scientific explanation for the origin of the universe. It states that the universe began as a singular, extremely hot and dense point approximately 13.8 billion years ago and has been expanding ever since. The Big Bang

Theory is supported by astronomical observations, including Hubble's discovery of the expanding universe and the presence of CMB radiation.



Staff explaining about the revolution of the earth to the students

Key Concepts of the Big Bang Theory:

- Singularity - The universe started as an infinitely small and dense point.
- Expansion - A rapid expansion, known as cosmic inflation.
- Formation of Matter - As the universe cooled, eventually leading to the creation of hydrogen and helium.
- Cosmic Microwave Background (CMB) - A faint radiation, discovered in 1965, serves as leftover heat from the Big Bang.
- Galactic Evolution - Over billions of years, gravity led to the formation of stars, galaxies, and planetary systems, Milky Way and the Solar System.

INDIAN LAUNCH VEHICLES:

India has developed a range of launch vehicles under the Indian Space Research Organization (ISRO) to support satellite launches for communication, navigation, remote sensing, and interplanetary missions.

Types of Indian Launch Vehicles:

- Satellite Launch Vehicle (SLV).
- Augmented Satellite Launch Vehicle (ASLV).
- Polar Satellite Launch Vehicle (PSLV).
- Geosynchronous Satellite Launch Vehicle (GSLV).
- Small Satellite Launch Vehicle (SSLV)



Students reading the posters at Vijnan Sagar Science and Technology Park