



KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE

Opp : Yerragattu Gutta, Hasanparthy (Mandal), WARANGAL - 506 015, Telangana, INDIA

CENTRE FOR INNOVATION, INCUBATION, RESEARCH & ENTREPRENEURSHIP (C-i²RE)

Indigenous Technologies for Viksit Bharat

Date:28th February 2024

Time: 2:56PM

Venue: Silver Jubilee Seminar Hall, KITSW.

KITSW hosted its National Science Day event, "INDIGENOUS TECHNOLOGIES" organized by the Student Alliance for Innovation and Leadership (SAIL) under C-i2RE.

The event aimed to inspire students to explore science and technology.

Speakers:

Mr.Murali mohan, Dr. Murali Mohan , acquired additional certifications from Indian Air Force, Survey of India, and Geodetic Sciences Inc, USA,. various centers of Indian Space Research Organisation (ISRO) and worked extensively in satellite data processing, algorithm development and production activities. He led the team to have been credited with the development of first indigenous Photogrammetric System in 1995. He has been associated with the prestigious projects of the Department of Space like IRS-1A, IRS-1C, Cartosat-I besides the international missions of NOAA. The non-contact measurement technique he introduced in 2006 has now become widely popular in ISRO. He worked with the National Remote Sensing Agency (NRSA) with the responsibilities of photogrammetric mapping and LiDAR

Event:

1. Overview of indigeneous technologies
2. Role of ISRO in indigenous technologies
3. GIS applications
4. Long tern shifts in the temperature and weather patterns, mainly caused by human activities, which imposes threatt on the well being of humank kind.
5. The unique geographic region centred around the himalayyas and tibetan plateau is known as the third pole
6. Almost 4-30% over loss in glacier are in last 40 years depening upon terrain and geomorphological parameters
7. India is 3rd largest emitter of green house gases in the world after chjja and USA
8. Electricity generation is the major contributions of GHG emissions in india by 32%

9. By building awareness and evaluation of changes in earth's climate we can maintain global warming
10. Indigenous technologies is aimed at navigating through ecological challenges
11. Role of ISRO: remote sensing , climate monitoring , communication , connectivity and natural resource management
12. Large scale mapping and cartographic applications by cartosat 1 and cartosat 2
13. GAGAN: GPS & Geo-Augmented navigation
14. IRNSS: Indian Regional Navigation Satellite System
15. Remote sensing platforms: ground based , aircraft , space shuttle , satellite, drones
16. Eutrophication is a process where excess nutrients, often from agricultural runoff or wastewater, lead to an overgrowth of algae in water bodies. This can disrupt the ecosystem, deplete oxygen levels, and harm aquatic life
17. ADITYA-L1: India's first solar mission designed to observe solar corona.

Event Photos:

