

Gujarat Technological University

Graduate School of Engineering and Technology

A Report on Expert Session

Research Scope at ISRO in the field of Communication and CSE

Date: 6th March 2021

Time: 3:30 PM to 04:30 PM

GTU-Graduate School of Engineering and Technology had organized the webinar on “Research Scope at ISRO in the field of Communication and computer” on 6th March 2021. Mr. Shasikant Sharma (SAC-ISRO, Ahmedabad) had talked Big Data Analytics and AI Applications for Satellite Data.

Mr. Sharma talked about what is Web-GIS and how Web-GIS is useful. Then Mr. Sharma explain Various type of Applications in the field of Big Data Analytics and AI on the Portal Visualization of Earth observation Data and Archival System (VEDAS) VEDAS (<https://vedas.sac.gov.in/>)

In this expert session, expert talked about various launched satellite which are revolving around the Earth (RISAT – 1, RESOURCESAT, CARTOSAT – 1 AND CARTOSAT – 2) and also talk about various applications of this satellite (Land Resources, Atmosphere/Oceans and Cartography)

Prof. S.K. Hadia, Asso. Prof, GTU-GSET had given the concluding remarks and end the session with vote of thanks. During The session around 31 participants of GSET had joined in the expert session.

OUTCOME:

After attending session participant are able to use Multidimensional and Multiresolution of 20 Years of Data (2001 – 2020) on VEDAS Portal (<https://vedas.sac.gov.in/>) and how to use the available data on the portal for the research.

The collage features several screenshots from a GIS application. One shows a map titled 'VEDAS Raster Analysis Server' with yellow and orange overlays on a satellite image. Another shows a 3D terrain model with a grid of data points. A third displays a line graph with multiple data series over time. Other screenshots include a diagram of an 'Indian Satellite Mission' with components like 'Load', 'Management', and 'Control', and a 3D view of a satellite in orbit over a globe.

Speaker



Shri Shashikant Sharma, SAC ISRO

VEDAS Raster Analysis Server

VEDAS Raster Analysis server is a completely inhouse developed WMS server.

It supports custom raster operations and has in-built parallelization and caching features that enable fast querying and rendering of geospatial rasters.

