

SREE VIDYANIKETHAN ENGINEERING COLLEGE

(Autonomous) Sree Sainath Nagar, A. Rangampet – 517 102

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

IIRS Outreach Programme

on

"Geoprocessing and Visualization in Web Platforms" By Kamal Pandey, Ravi Bhandari, Dr. Harish Karnatak, Scientists, Indian Institute of Remote Sensing, Dehradun 27-01-2020 to 07-02-2020

The Department of Electronics and Communication Engineering of Sree Vidyanikethan Engineering College has organized an outreach programme in association with Indian Institute of Remote Sensing for faculty of Sree Vidyanikethan Engineering College during 27-01-2020 to 07-02-2020.

Large amount of satellite imagery and geospatial data are collected from different sources that are available at free of cost. Satellite imagery is combined with power of Geographic information System which can be a great tool for supporting environmental management, disasters, global climate change, natural resources, wildlife, land cover and many other applications Processing this vast amount of data in time and space efficient manner and deriving useful information and knowledge from data is one of the most challenging aspect of geospatial technology.

The following topics are discussed in this outreach programme.

- Overview of GIS and different geospatial data types
- Overview to Python programming using
- Introduction anaconda and Jupyter notebook
- Raster data processing, resampling and analysis
- Vector data processing and analysis
- Geo spatial data visualization on web
- Familiarization to various open source geospatial data processing libraries e.g., GDAL, Geopandas etc.

Finally, a group panel discussion was conducted with all online users and expert panel. This programme has enabled interaction among professionals from Central / State Govt. / Private Organizations / NGO engaged in geospatial data collection and analysis based regional and national projects; students and researchers aligned to research in participatory Geographic Information System (GIS). It has also enabled faculty and students to further promote their research using python and the open source libraries.

The resource persons are experienced Scientists from Indian Institute of Remote Sensing, Dehradun. A total of 06 members from different departments have participated in this programme. Dr. V. V. Satyanarayana Tallapragada, Associate Professor organized this event under the guidance of Dr. P. V. Ramana, Professor and Head, Department of Electronics and Communication Engineering.

Overall, the event has proved successful. The photographs of workshop are as follows.



Mentors from IIRS Dehradun delivering online lecture



Faculty listening to the online lecture



Participants listening to the lecture