DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

81st IIRS Online Course
on
"Overview of Web GIS Technology"

By Dr. Harish C Karnatak, Mr. Anoop Kumar Singh, Mr. Ankit, Mr. Dharmendra Kumar, Mr. Ravi Bhandari, Mr. Kamal Pande,
Indian Institute of Remote Sensing, Dehradun

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The Department of Electronics and Communication Engineering of Sree Vidyanikethan Engineering College (A Nodal Centre) has coordinated an online course conducted by Indian Institute of Remote Sensing, Dehradun during 21.06.2021 to 02.07.2021 on "Overview of Web GIS Technology". The target audience are the faculty and students of various disciplines of Sree Vidyanikethan Educational Trust, Tirupati.

Web GIS, the combination of the web and geographic information systems (GIS), is a promising field. It extends the power of GIS from local servers to the cloud, and keeps the online maps and geospatial intelligence in the offices of millions and the hands of billions. This course aims to provide participants with the essential knowledge required for managing web GIS projects with the latest geospatial cloud technologies that are required for building modern web GIS applications. An interactive session is planned every day to have the participants directly interact with the professionals to attain knowledge on this domain.

Following topics will be covered in this course
- Introduction to Client-server systems, Internet and Web GIS technology
- Introduction to HTML and Javascript
- Introduction of Database Management System- SQL Queries and Data visualization including PostgreSQL and POSTGIS
- Introduction to publicly available webGIS platform for Geodata Processing
- OGC We Services and Data publishing using Geoserver
- Hand-on Experiment on Geoserver- SLD, WMS, WFS, WCS and other Geo-web services.
- Web Mapping APIs – OpenLayers
- Web Mapping APIs – Leaflet

Finally, the workshop ended with panel discussion with all the participants. Three participants have attended this programme.

Dr. V. V. Satyanarayana Tallapragada, Associate Professor, Department of ECE has coordinated this event under the guidance of Dr. N. Gireesh, Professor and Head, Department of Electronics and Communication Engineering.