

Training on Programming for Web GIS Development using open Source Technologies"; 22-26 Sep 2025; Lahore, Pakistan

In collaboration with SUPARCO, ISNET successfully organized a five-day international training course on “*Programming for Web GIS Development using Open Source Technologies*” under the framework of ISNET’s capacity-building initiatives. The course aimed to equip participants with the theoretical knowledge and practical skills necessary to design, develop, and deploy Web-based Geographic Information Systems (Web GIS) using open-source tools. A total of 27 participants, including five from ISNET member states (Iraq, Libya, Senegal, Tunisia, and Türkiye) and twenty-two from Pakistan, took part in the training. The program covered key topics such as GIS fundamentals, Web GIS architecture, and international geospatial standards established by the Open Geospatial Consortium (OGC), including WMS, WFS, and WCS. Participants gained hands-on experience with PostgreSQL/PostGIS for spatial databases, GeoServer for data publishing, and Leaflet for developing interactive web maps and integrating real-world APIs. Through a blend of lectures and practical exercises, participants learned to build scalable, interoperable, and user-friendly Web GIS applications applicable to domains such as disaster management, urban planning, agriculture, and environmental monitoring. By the conclusion of the course, trainees had developed the ability to create customized, open-source Web GIS solutions—empowering them to apply geospatial technologies for sustainable development within their respective organizations and countries.

