

<b>Title:</b>	<h1>Developing GIS portal with Open Source</h1>	<b>Why Khagolam:</b> <ul style="list-style-type: none"> <li>• Specialize and Dedicated institute to geospatial technologies</li> <li>• Job oriented curriculum</li> <li>• Comprehensive training material</li> <li>• 100% placement assistance</li> <li>• Professional Trainers</li> <li>• Exposure to live projects</li> <li>• Convenient batch timings</li> <li>• Exposure to 3D GIS</li> <li>• Practice aptitude and interview rounds</li> <li>• Library facility</li> </ul>
<b>Duration &amp; Fees Structure:</b>	<p><b>60 Hours</b></p> <p>30,000 INR, for resident Nationals of India, Nepal, Bhutan, Bangladesh, Sri Lanka and Maldives, &amp; Myanmar.</p> <p>850 USD, For Non-Residents of India</p> <p>Installments:            5,000 on registration            25,000 - before course start</p>	
<b>Category:</b>	<p>Job-Oriented Course / Value Addition Course</p>	
<b>Prerequisites:</b>	<ul style="list-style-type: none"> <li>✚ Should have programming experience in HTML, CSS, Java Scripts</li> <li>✚ Knowledge of QGIS</li> <li>✚ Understanding of GIS fundamental concepts</li> </ul>	
<b>Who Should Attend?</b>	<ul style="list-style-type: none"> <li>✚ Web GIS developers who want to develop end to end open source web applications that include GIS services and functionality</li> </ul>	

### Overview:

This course teaches you how to build GIS web portal using open source GIS end to end solutions. Includes open source GIS software including QGIS, PostGIS, GeoServer, and OpenLayers which all together can deliver the complete GIS solution. OpenLayers makes it easy to put a dynamic map in any web page. It can display map tiles and markers loaded from any source. OpenLayers has been developed to further the use of geographic information of all kinds. Attendees will learn how to create browser-based map applications and display data from a variety of sources. Basic JavaScript syntax will be covered. In GeoServer attendees will learn how to load, publish, and share geospatial data with GeoServer. Discussion will include navigating the GeoServer user interface, OGC web services, styling data with SLD, and tile caching with GeoWebCache.

In PostGIS, attendees will learn about and create spatial databases, load data from a variety of sources into a spatial database, and perform queries against the data. Basic SQL syntax will be covered.

### You will learn:

#### Module 1: PostGIS

1. Installation of PostgreSQL / PostGIS
2. Fundamental of Database & SQL ideas using PostgreSQL
3. Postgresql front-ends (pgAdmin, psql)
4. Geometrics Datatype
5. Creates a Spatial Database
6. Spatial Functions
7. Importing & Exporting of Spatial Data
8. Spatial SQL Query
9. Spatial Index
10. Viewing of Spatial data in QGIS

#### Module 2: Geoserver



1. Introduction to Geoserver
2. Understand system requirement and Installation of Geoserver
3. Creation of Workspace
4. Creation of DataSource
5. Creation of Layers
6. Publishing layers from Shapefiles
7. Publishing layers from PostGIS Database
8. Publishing Raster Layers
9. Creation of Styled Layer Descriptor(SLD)
10. Assignment of Styles to Layers
11. Apply Labels
12. Apply Filter
13. Publish Web Map Service
14. Publish Web Feature service

#### Module 3: OpenLayers

1. Introduction to OpenLayers
2. Installation of OpenLayers
3. Creation of Web project with OpenLayers environment
4. Creation of basic Web Mapping Application

5. Creating dynamic web maps using other third party API's like google map and open street maps
6. Accessing layers from Geoserver using WMS
7. Creation custom vector layers at client side
8. Apply styles through Openlayers
9. Set scale and resolution to map
10. Show controls on map(e.g. zoom in, zoom to extent, pan, previous view)
11. Creating new features on map
12. Select and highlight features on map
13. Show attributes of the selected features through WFS
14. Applying filters through Openlayers
15. Project work

**Training Mode:**

-  Online - Instructor Lead
-  Classroom - Instructor Lead

**How to Apply:**

[Click here to know bank details and step by step registration process.](#)  
[Register Online](#)

**FAQ's:**

Q: Dose fess includes accommodation and food  
A: No. but we can help you to get nearest accommodation

Last updated on: 21 Oct2020