



HÖGSKOLAN I GÄVLE

GIS Web Services with Open Source 7.5 cr

GIS-webbtjänster med Open Source 7,5 hp

Set by Faculty of Engineering and Sustainable Development

Version

Set at

Valid from

9/12/13

HT2014

Level	G2F
Education level	First cycle
Course identifier	DVG502
Credits	7.5 cr
Main field of study	Computer Science
Subject group	Computer Technology
Disciplinary domain	Technology 100.0 %

Learning outcomes

On completion of the course, the student shall be able to:

1. describe the Open Geospatial Consortium (OGC) and web mapping standards
2. manage a mapping server for web
3. explain and use the appropriate clients for GIS-webservices
4. navigate and sort out data needed for a web application
5. manage a working client for a specific dataset
6. develop a method to collect, store, and visualize geographic data in an easy and inexpensive way with the help of open source software.

Course content

Web Map Service (WMS)
Web Feature Service (WFS)
Geographic Markup Language (GML)
Styled Layer Descriptor (SLD)
Open standards for GIS
Web Mapping Applications
Thin web mapping client
Methods for handling geographical information
Gazetteer

Teaching	Lectures, computer laborations, consultations on assignments.			
Prerequisites	Computer Science 60 credits inclusive the course Development of Distributed GIS 15 credits or equivalent.			
Examination	Assignments and project.			
Grade	A, B, C, D, E, Fx, F			
Other regulations	Grading criteria are provided by the course coordinator or examiner in connection with the course introduction.			
Module	0010	Assignments	4.5 cr	Grade: AF
	0020	Project	3 cr	Grade: AF