

**Certificate of Advanced Studies in Spatial Information Systems
2016**

**Module
"From GIS Data to Interactive Web Maps"**

Wednesday 17.2.2016 (8:30) - Friday 19.2.2016 (12:30)
ETH Zurich / Campus Hnggerberg / HIL G22/G21

Lecturer

Ionu Iosifescu (iosifescu@ethz.ch)

Senior Research Associate
Institute of Cartography and Geoinformation,ETH Zurich

Wednesday 17.2.2016, 08:30 – 17:00

Welcome

Welcoming of the participants	II	08:30	15'	Discussion
-------------------------------	----	-------	-----	------------

Module Overview

General Workflow in Web Cartography	II	08:45	15'	Concepts
-------------------------------------	----	-------	-----	----------

Introduction to Web Mapping

The Web Environment and Web Mapping Frameworks	II	09:00	40'	Concepts
Ex. 1: Using a Web Mapping Framework	II	09:40	30'	Exercise

Coffee Break 10:10 (30')

GIS Data on the Web

GIS Data Preparation and Conversion for the Web	II	10:40	30'	Concepts
Ex. 2: Basic Web Mapping with GeoJSON	II	11:10	80'	Exercise

Lunch Break 12:30 (60')

Tiled Web Mapping

Map Projections, Tiles & Copyright	II	13:30	20'	Concepts
Demonstration: Tilemill and CartoCSS	II	13:50	10'	Demo
Ex. 3: Generating Tiles with TileMill and CartoCSS	II	14:00	70'	Exercise

Coffee Break 15:10 (30')

Ex. 4: Interactive Web Mapping	II	15:40	80'	Exercise
<i>Optional Exercise A</i>	//	-	-	<i>Exercise</i>

End Day 1 17:00

Thursday 18.2.2016, 8:30 – 17:00**Introduction**

Review Day 1 II 08:30 10' Discussion

Maps for Spatial Data Infrastructures

Service-oriented Web Mapping II 08:40 20' Concepts

Ex. 5: Creating Web Map Services II 09:10 70' Exercise

Coffee Break 10:10 (30')

Basic Cartography for SDI

WMS and SLD II 10:40 20' Concepts

Ex. 6: Basic Map Styling with SLD II 11:00 90' Exercise

Lunch Break 12:30 (60')

Advanced Cartography for SDI

Web Cartography with the Styled Layer Descriptor II 13:30 20' Concepts

Ex. 7: Advanced Map Styling with SLD II 13:50 80' Exercise

Coffee Break 15:10 (30')

Ex. 8: Thematic Maps with Web Map Services II 15:40 80' Exercise

Optional Exercise B // - - *Exercise*

End Day 2 17:00

Friday 19.2.2016, 8:30 – 12:00**Introduction**

Review Day 2 II 08:30 10' Discussion

Overview of Different Techniques II 08:40 10' Discussion

Review of the Learned Material II 08:50 10' Discussion

Outlook: GeoVITe & Geodata4SwissEDU II 09:00 10' Discussion

Retention Exercises

Optional Exercise A II 09:00 60' Exercise

Optional Exercise B II 09:00 60' Exercise

Optional Exercise C II 09:00 60' Exercise

Coffee Break 10:10 (30')

Questions and Evaluation

Q&A Session II 10:40 20' Discussion

OSGL at ETH Zurich II 11:00 20' Discussion

Evaluation and Suggestions participants 11:20 20' Discussion

Wrap-up Exercise participants 11:40 20' Exercise

End Day 3 12:00 (computer laboratory still open until 17:00)