





SPATIAL INFORMATION MANAGEMENT*


MASTER | WORK-FRIENDLY

 **Location:** Campus Villach
Europastraße 4, 9524 Villach


 **Duration:** 4 semesters


 **Schedule:**
Mon.-Fri. starting at 1:30 pm,
Sat. whole day

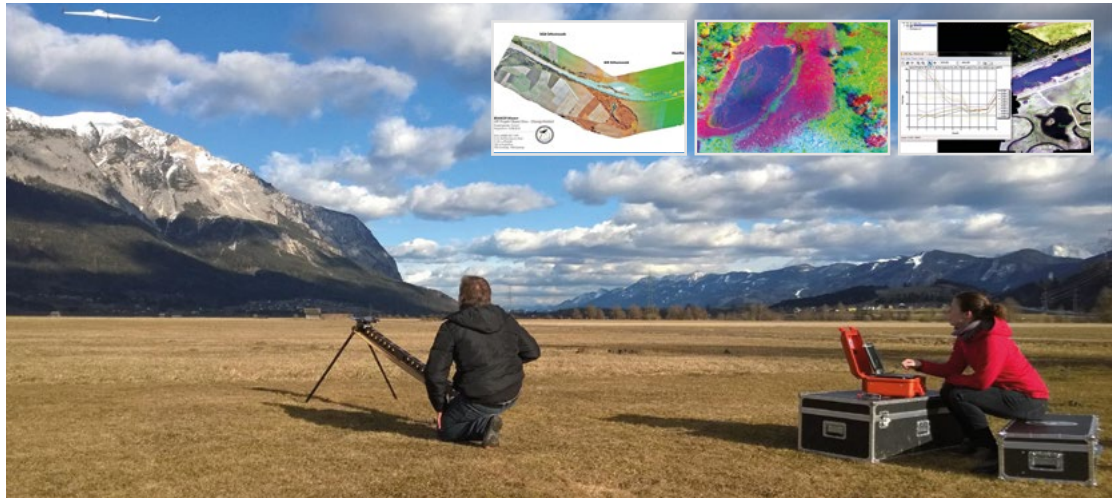
 **Tuition Fee:** € 363.36 per semester +
Student Union Fee

 **Academic Degree:**
Master of Science in Engineering (MSc)

 **ECTS Points:** 120

 **Language:** English

 **Study places per year:** 16



SPATIAL INFORMATION MANAGEMENT is a two-year graduate programme at the School of Geoinformation and Environmental Technologies. Spatial Information Management offers a universal solution framework for many application areas like Natural Hazards Risk Management, Infrastructure Planning, Water Resource Management or Population Health Simulation and Modelling. Our graduates provide fast, up-to-date and accurate geodata integration, analysis, simulation and visualization of the relevant spatial situation to stakeholders and decision makers.

COURSE INFORMATION

Our research topics cover "GIS and Decision Support", "Location-Based Systems Solutions", "UAV-supported Environment Monitoring" and "Health-GIS". The programme exposes students to applied research by solving real world and socially relevant problems with innovative geospatial methods and techniques.

Therefore, most of the thesis projects are conducted in cooperation with our national and international partners in public administration, academia and the private sector – providing excellent career opportunities for our graduates.

ENVIRONMENTAL MONITORING AND SECURITY MANAGEMENT

This new programme specialization is positioned in the context of developing strategic concepts and methods for dealing with global change, environmental hazards and security issues. Research and application highlights include Sensor Web Technologies, Geodata Acquisition with Unmanned Aerial Systems (UAS), Spatial Statistics, Interdisciplinary Risk Assessment and Comparative Crime Analysis.

GEOINFORMATICS

Geoinformatics deals with geospatial IT- methods and technologies providing an innovative solution framework for a wide variety of application areas. Research and application highlights are Web-Based Geoinformation Systems, Health GIS Applications, Spatio-Temporal Databases and Location-Based Services.

*The next start of studies will be communicated by April.

CURRICULUM

1 st Semester	SCH	ECTS
Introduction to GIS&T	2	4
Introduction to Spatial Information Management	1	1
Principles of Mathematics	2	2
Principles of Computer Science	2	3
Advanced Concepts and Applications of GIS&T	3	3
Legal and Social Aspects	2	2
Discrete Combinatorial Optimization	2	2
Statistical Spatial Analysis	2	3
Introduction to Spatial Decision Support Systems	5	5
Standards and Interoperability	2	3
Geodata Integration	1	2
Summe	24	30

2 nd Semester	SCH	ECTS
Proposal Writing	2	2
Technical and Business Communications	2	3
Selected Aspects of Operations Research	4	5
Project Management and GIS	2	3
Teambuilding and Leadership	2	2
Spatio-Temporal Databases	4	5
Data Mining	4	5
Environmental Monitoring & Security Management		
Sensor Technologies	2	2
Introduction to Environmental Monitoring	1	1
Remote Sensing and Digital Image Processing	2	2
Geoinformatics		
Applied Internet Technologies	3	3
GIS Services	2	2
Spatial Technology Management		
Location Analysis and GIS	3	3
Sales and Marketing	2	2
Total	25	30

3 rd Semester	SCH	ECTS
Entrepreneurship	3	3
International Collaboration and Project Funding	1	2
Geovisualization	2	3
User Interface Design	2	2
Project	5	5
Project Monitoring	2	2
Project Development	3	3
Spatial Simulation Technologies	2	3
3D Modelling and Spatio-Temporal Analysis and Modelling	2	2
Environmental Monitoring & Security Management		
Spatial Security & Crime Analysis	2	3
Risk Management	2	2
Geoinformatics		
Mobile GIS	2	3
Distributed Computing	2	2
Spatial Technology Management		
Technology Management	2	3
Product and Service Development	2	2
Total	26	30

4 th Semester	SCH	ECTS
Master Thesis	0	25
Master Thesis Seminar	4	5
Total	4	30

Total	79	120
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SCH = Semester Credit Hour

ECTS = European Credit Transfer System



📅 DATES

Start: The next start will be communicated by April.

Study Info Lounge: always on the second Tuesday of the month from 2 p.m. to 6 p.m. - ONLINE

FH Days and information events:

all dates at www.fh-kaernten.at/fhday

💶 COSTS

Tuition fee: € 363,36 per semester

Student Union Fee: around € 20, annual adjustment

✉ CONTACT

T: +43 5 90500-2003

M: sim@fh-kaernten.at

W: www.cuas.at/sim

