



HÖGSKOLAN I GÄVLE

GIS raster/vector 7.5 cr

GIS raster/vektor 7,5 hp

Set by Faculty of Engineering and Sustainable Development

Version

Set at

Valid from

2/26/18

HT2018

Level	G1F
Education level	First cycle
Course identifier	SBG382
Credits	7.5 cr
Main field of study	Spatial Planning, Geospatial Information Science, Geomatics, Geography, Surveying Technology
Subject group	Geographic Information Technology and Surveying
Disciplinary domain	Technology 100.0 %

Learning outcomes After completion of the course the student shall be able to

1. apply different types of Geographic Information System applications
2. state how Geographic Information Systems (GIS) work
3. perform geographical analyses in raster and vector environments
4. summarise and evaluate scientific literature treating Geographic Information Technology (GIT)
5. perform a project work.

Course content Methods for data gathering in raster and vector environments
Integration and conversions of different spatial data
Integration of spatial and non-spatial data
Editing and updating methods
Raster and vector analyses
Digital elevation models
Graphical presentation of analysis results

Teaching Lectures, assignments, seminars, project

Prerequisites Algebra and Geometry 7.5 credits or Methods in Spatial Planning and Geography 7.5 credits

	and Geographical Information Technology 7.5 credits, or equivalent		
Examination	Written examination, written assignments, seminars and project work. How the learning outcomes are examined are stated in the course's grading criteria.		
Grade	A, B, C, D, E, Fx, F		
Limitations	The course may not be included in a higher education degree together with the course GIT in land management 7.5 credits.		
Other regulations	Degree Criteria for final grade will be given by course responsible or examiner latest at the beginning of the course.		
Sustainable environment	A minor part of the course content deals with sustainable development.		
Module			
	0010	Written Examination	3 cr Grade: AF
	0020	Written Assignments, Seminars	1.5 cr Grade: UG
	0030	Project Work	3 cr Grade: AF