

GSP: Geoinformatics

Specialization:

High accuracy surveying applications

1 st Semester	
Lectures	ECTS
Advanced technologies in Geodesy and Surveying	8
Advanced topics in data analysis	8
GPS applications	8
Seminars on background material	6

2 nd Semester	
Lectures	ECTS
Surveying and documenting monuments and archaeological sites	6
High accuracy measurements – Industrial applications in surveying	6
Surveying application to construction works	6
Seminars on specialized surveying applications	7

3 rd Semester	
Lectures	ECTS
Master Thesis	20

Specialization:

Modern Geodetic Applications

1 st Semester	
Lectures	ECTS
Advanced technologies in Geodesy and Surveying	8
Advanced topics in data analysis	8
GPS applications	8
Seminars on background material	6

2 nd Semester	
Lectures	ECTS
Spectral and stochastic methods	6
The gravity field and GPS/leveling	6
Special applications of GPS	6
Seminars of specialized geodetic applications	7

3 rd Semester	
Lectures	ECTS
Master Thesis	20

Specialization:

Management of photogrammetric and remote sensing production in GIS environment

1 st Semester	
Lectures	ECTS
Management of photogrammetric production	7,5
Statistical methods of spatial analysis	7,5
Κύκλος Σεμιναρίων I	7,5
Geographical and cadastral data management in Geographical Information Systems (GIS)	7,5

2 nd Semester	
Lectures	ECTS
Management of cartographic infrastructure and production	6
Management of remote sensing production	7
Seminars II	7
Laboratory in application	5

3 rd Semester	
Lectures	ECTS
Master Thesis	20

Specialization:

Water resources

1 st Semester	
Lectures	ECTS
Advanced topics in data analysis	8
Statistics and space analysis	7.5
Advanced topics in numerical analysis	7
Water resources quality and environmental management	7,5

2 nd Semester	
Lectures	ECTS
Groundwater resources	6
Water resources management	6
Surface water resources	6
Specialized GIS applications	7

3 rd Semester	
Lectures	ECTS
Master Thesis	20