Appendix 7

Example of integrating basic studies into the Geomatics degree programme

The following three examples show how we have integrated the basic courses of general subjects (programming and software engineering, data structures and algorithms and statistics) with our own courses on geoinformatics. The basic courses give general knowledge on the topic and our own courses extend the regular methods and theories in the spatial field. T-courses are computer science and information systems courses, Mat-courses are courses on mathematics and statistics and Maa-courses are our own courses on geoinformatics.

P-level – A2-level – A3-level

T-106.1203 Ohjelmoinnin perusteet (Java) (Introduction to programming)
T-106.1243 Ohjelmoinnin jatkokurssi (Advanced course in programming)
Maa-123.2441 GIS software development
T-76.3601 Introduction to Software Engineering
Maa-123.3550 GIS Application Development

P-level – A2-level -- A3-level

T-106.1223 Tietorakenteet ja algoritmit (Data structures and algorithms)
Maa-123.2340 Spatial Data Algorithms
T-76.1143 Tiedonhallintajärjestelmät (Data management systems)
Maa-123.3420 Advanced Computational Methods in GIS

P-level – A3-level

Mat-1.2620 Sovellettu todennäköisyyyslaskenta B (Applied probability calculus)
Mat-1.2104 Tilastollinen analyysin perusteet (Introduction to statistical analysis)
Maa-123.3510 GIS Analysis and Modelling
Maa-123.3520 Principles of Geostatistics
Maa-123.123.3560 Uncertainty in Geographic Information
Maa-123.3580 Spatial Data Mining