GIS-Hydrography

Subject areas: Hydrography
Duration/sem.: 1 Semester
Frequency of offering: each SuSe
Type (C/CE/E): C
Emphasis in overall grade / %: 4.16 %

CP (according to ECTS)

Workload / h.: 155 Std.
Self-study / h.: 99 Std.
Contact time / h.: 56 Std.
Contact hours / week (SWS): 4
Type of examination: oral (graded)

Educational aims of the module (Learning objectives/results, skills)
The students learn the principles of digital mapping. The knowledge is applied to a project that is related to Coastal Zone Management.

Course contents
Desktop Mapping:
Introduction to computer cartography, difference from GIS.
Hardware for computer cartography: hardware components, example configurations.
Software for computer cartography: operating systems, requirements and specifications for a cartography program.
Geometrical data and attributes: coordinate base, digitization of coordinates, preparation and input of attributes into the map, dynamic data exchange.
Map export: raster and vector data, graphics files, linking graphics to other applications.
Software for computer cartography: Fundamentals of the "Polyplot" program.

GIS Project Coastal Zone Management:
Extensions to ArcView. Data exchange between different program systems. Project conceptions.
GIS project Coastal Zone Management. Project presentation.

Teaching and learning methods
Taught seminars, practical course

Condition for awarding the ECTS-credits
Practical training completion and Oral examination

Additional Information

Latest update: 06/2011