Summary
The course deals with the methods and instruments supporting decision processes in the geographical space. The focus is on multi-criteria decision analysis, with the special requirements carried by space-related scenarios and solutions, and by the participatory processes among numerous stakeholders.

Content
• Situations and cases of decision making in territorial and environmental planning and management
• Spatial decision processes and steps
• Spatial decision support processes and tools
• Multi-criteria decision making (MCDM) and its spatial applications
• Collaborative/group spatial decision-making
• Hands-on exercises of MCDM with GIS
• Cases studies and seminars

Learning Prerequisites

Recommended courses
Basic knowledge and skills in GIS

Learning Outcomes
By the end of the course, the student must be able to:
• Expound most importance issues of spatial decision making
• Choose relevant methods for spatial decision support
• Apply most important multi-criteria decision analysis processes
• Organize a decision making process involving many stakeholders

Transversal skills
• Make an oral presentation.
• Summarize an article or a technical report.
Teaching methods
Lecture, exercises, seminars

Assessment methods
33 % spot written check during the semester
33 % continuous control during the semester (seminar synthesis)
33 % written test (120 min) during the exam session

Resources
Ressources en bibliothèque
• Multicriteria Decision Analysis in Geographic Information Science /Malczewski