Syllabus

Teacher (name and affiliation)	Roberto Comolli and Chiara Ferré, DISAT, UNIMIB
Title	Spatial variability of environmental variables and mapping methodologies
Language	English/Italian
CFU	2
Hours	16
Program	**Aims** The aim of the course is to provide: - knowledge on traditional and innovative mapping methods; - practical skills in mapping of environmental variables; - ability to interpret results. **Contents** - Spatial variability of environmental variables: causes (anthropic and natural) and effects; - introduction to spatial data processing: traditional and innovative methods of assessing and mapping environmental variability; - basic concepts of univariate and multivariate geostatistics and geostatistical data fusion techniques; computer session on variogram modelling and production of thematic maps; case studies on spatial variability assessment in precision farming; - geomorphometric variables for production of thematic maps; case studies on soil thickness and soilscape. **Methods** Lectures, presentation of case studies and practical activities (PC sessions using specific software). **Expected outcome** Application of the investigated mapping techniques in research projects.
Evaluation: YES/NO	Yes, through practical activities.
Calendar	II semester