

Course offered for the STAT PhD program starting from a.y. 2022/2023

TITLE	<i>Methods for landslide susceptibility and hazard analysis</i>
Lecturer	<i>Dr. Ph.D. Giacomo Pepe</i>
Duration and Credits	<i>20 hours - 5 CFU</i>
Course description	<p><i>Landslides represent important hazardous phenomena whose investigation is fundamental for risk reduction and mitigation. The purpose of the course is to provide a theoretical and practical overview on the existing approaches and methodologies for landslide susceptibility and hazard analysis.</i></p> <p><i>The first part of the course deals with the characterization, investigation and monitoring of landslides processes. The second part concerns the aspects about the input data required for landslide susceptibility and hazard analysis. Eventually, the third part focuses on the available methods, classic and advanced, for quantifying and mapping landslide susceptibility and hazard at different spatial scales. The course aims at providing useful tools and skills to Ph.D. students involved in landslide hazard analysis and engineering geology or related fields.</i></p> <p><i>Prerequisite for this course is basic knowledge of engineering geology, geomorphology and remote sensing.</i></p>
Course organization	<i>The course includes formal lessons, tutorials and field activities.</i>
Teaching period	<i>February-March</i>