

# **Analysis of rainfall-runoff regime in the catchment of the Slatinny brook (Krušné hory)**

## **ABSTRACT**

Bachelor thesis deals with the characteristics of runoff regime Slatinny brook, which is located in the northwest of the Czech Republic in the Ore Mountains. Part of this study is dedicated to general physical and geographical characteristics, which also includes hydrographic basin features. The main objective of this study was to process and analyze the hydrological data obtained from experimental monitoring carried out by the Department of Physical Geography and Geoecology, Faculty of Science, Charles University in Prague. The data were firstly homogenized and then complemented with the missing values. Discharges have been derived from the modified data of water levels using the consumptive curve. For the analysis of rainfall-runoff regime were used basic statistical methods used in hydrology. The thesis also includes analysis of selected extreme runoff situations of the Slatinny brook.

**Key words:** rainfall-runoff regime, outflow variability, discharge, Slatinny brook