

## **Abstract**

Bachelor thesis *Ideals and Filters in Algebra and Logic* is a summary of the basic use of these concepts, namely in selected parts of algebra (rings, Boolean algebra) and logic. Readers can find the definitions and examples of the use of specific proofs and structures in the thesis. The work also contains a historical excursion which maps the introduction of the concept of *ideal* in mathematics on the background of searching for a proof of the Fermat's Last Theorem.