

## **ABSTRACT**

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This diploma thesis deals with the aspects of the psychotropic drugs, which were classed in a novella of a law about addictive substances Nr. 106/2011 of statute book.

Psychotropic drugs, which come on drugs trade (especially thanks the webstores), represent various group of substances mainly synthetic origin. Many of them are products of scientific research on the way of discovery of new medication (Carfentanil, Ketamine). Because of a danger of an addictive potentiality, most of them don't use in medicine (e.g. MDPV, Bromo-DragonFLY). Only a bit is known about pharmacological and toxicological effects on human body of those substances, we don't know exactly their destiny in a human organism. The psychotropic effect is mediated by effect on receptors of central nervous system (5-HT<sub>1A</sub>, 5-HT<sub>2A</sub>, CB<sub>1</sub>) or on release of neurotransmitters (e.g. noradrenaline, serotonin). Acute or chronic use means danger for health, combination with alcohol or with another psychoactive substances often leads to death.