



**Armed Forces Academy
of General Milan Rastislav Stefanik
Demanova 393, 031 06 Liptovsky Mikulas**

ERASMUS offer for incoming students

Department	Department of Informatics
Subject/ title	Computer Languages and their Processing
Credits	4 ECTS
Hours	30
Level (Bachelor/master)	Master
Tutor(s)	doc. RNDr. Lubomír Dederá, PhD.
Exam type	Written/oral
Description	The goal of this course is to introduce students to the theory of formal languages and grammars and their utilization for the description of syntax of computer languages. Next the students learn the principles and algorithms of lexical, syntactic, and semantic processing of computer (programming) languages.
Teaching Content	Formal languages and grammars Regular languages and finite automata Context-free languages and pushdown automata Compiler structure Lexical analysis Syntactic analysis (parsing) Fundamentals of semantic processing Processing of typical constructs of programming languages
Reading materials	FISCHER, J. - LeBLANC, R: Crafting a Compiler with C. Benjamin-Cummings Publishing Co., New York, 2002. DEDERA, L.: Počítačové jazyky a ich spracovanie. Vysokoškolská učebnica. Akadémia ozbrojených síl, 2014. (in Slovak)
Remarks	Prerequisites: <ul style="list-style-type: none">• Knowledge of an arbitrary programming language• Basic orientation in algorithms and data structures.