

| Curriculum vocabulary | | | | | |
|---------------------------------|---|--|--|---------|----------|
| Evaluation method | Teaching method | Unit name/topic | Required learning outcomes | Watches | The week |
| Theoretical and practical tests | Theoretical lectures | <ul style="list-style-type: none"> • Introduction to Compilers: • The role of language translation in the programming process; • Comparison of interpreters and compilers, | General introduction to translators | 4 | 1 |
| | Theoretical lectures and practical applications | <ul style="list-style-type: none"> • language translation phases, • machine dependent and machine independent aspects of translation, • language translation as a software engineering activity | Learn the translator framework and .how it works | 4 | 2 |

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| | <p>Theoretical lectures and practical applications</p> | <ul style="list-style-type: none"> • Lexical Analysis: Application of regular expressions in lexical scanners, • Lexical Analysis: hand coded scanner vs. automatically generated scanners <p>Lexical Analysis: formal definition of tokens,</p> | <p>Learn how to build and operate a vocabulary analyzer and .how to design it</p> | 12 | 5-3 |
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| | | implementation of finite state automata. | | | |
| | Theoretical lectures and practical applications | <ul style="list-style-type: none"> • Syntax Analysis: • Revision of formal definition of grammars, • BNF and EBNF; • bottom-up vs. top-down parsing, | Learn how to build, operate and design a grammar .analyzer | 8 | 7-6 |
| | Theoretical lectures and practical applications | <ul style="list-style-type: none"> • Syntax Analysis: • tabular vs. recursive-descent parsers, error handling, | Learn how to build, operate and design a grammar .analyzer | 8 | 9-8 |
| | Theoretical lectures and practical applications | <ul style="list-style-type: none"> • Parsers Implementation: automatic generation of tabular parsers, | Learn how to build, operate and design a grammar .analyzer | 8 | 11-10 |
| | Theoretical lectures and practical applications | <ul style="list-style-type: none"> • symbol table management, • the use of tools in support of the translation process | Learn how to install and create a symbol management table and how to design .it | 8 | 13-11 |
| | Theoretical lecture and discuss | Project presentation | Project presentation | 4 | 14 |

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