**Level**: bachelor  
**Course title**: Data Structures and Algorithms 1 (code I021)  
**Status**: obligatory  
**ECTS**: 8  
**Requirements**: none  

**Learning objectives**  
Enabling students to understand and use dynamic data structures.  

**Learning outcomes**  
Minimum: At the end of the course, successful students should be able to realize a given data structure using pointers.  
Desirable: At the end of the course, successful students should be able to identify a suitable data structure for solving a problem and implement it using pointers where applicable.  

**Syllabus**  
*Theoretical instruction*  
*Practical instruction*  
Implementation of various data structures (list, stack, queue...), and various ways of their practical application.  

**Weekly teaching load**  
| Lectures: 2 | Exercises: 2 | Other forms of teaching: 1 | Student research: | Other: |