

## RAR2770 Programmeerimise alused

**Learning outcomes:** A student knows principles, methods, means of programming, can compile structured programs using case and repetitive statements, standard and user-functions, can work with data arrays.

Outcome	Assessment method	Assessment criteria
A student knows principles, methods, means of programming, can compile structured programs using standard functions, case statements	Test nr 1	A student knows the basic terminology of programming, can work in integrated programming environment, can declare variables and constants, connecting external modules, can use standard functions, compile applications according to the standards of the structured programming, compile applications intuitively with user-defined interface.
A student knows principles, methods, means of programming, can compile structured programs using standard functions, case statements and repetitive statements	Test nr 2	The previous criteria have been fulfilled. Should be able to program simple tasks using repetitive statements.
A student knows principles, methods, means of programming, can compile and apply user-defined functions	Test nr 3	The previous criteria have been fulfilled. Should be able to compile user-functions, to declare formal and actual parameters of the functions according to the functions prototypes, can apply user-functions in his/her applications..
A student knows principles, methods, means of programming, can work with data arrays	Test nr 4	The previous criteria have been fulfilled. Should be able to declare arrays of standard type with the known number of elements, can create arrays of user-functions for data input and output.
Admittance to evaluation	<p>All tests should be executed at minimum 1 (sufficient).</p> <p><b>1</b> (sufficient) – program delivers the results, but There are some mistakes in algorithm of the solution</p> <p><b>2</b> (satisfactory) – program delivers the required results, but application algorithm is nonoptimal, comments are absent.</p> <p><b>3</b> (good) – program delivers the required results, knowledge acquired in the course of study is used in application, program code contains comments.</p> <p><b>4</b> (very good) – program delivers the required results, acquires intuitively user-defined interface, application algorithm is optimal, program code contains comments.</p> <p><b>5</b> (excellent) – all criteria of the grade 4 have been fulfilled, independently acquired statements, functions and algorithms are used in application</p>	
Formation of the final grade	The final grade is the average value of the grades for all tests. On a student's request it is possible to improve the final grade by 1 point during the written exam (programming tasks and theoretical questions).	