



ROBOT PROGRAMMING

Course Workload		Assessment form (examination/ graded test/ ungraded test)
ECTS	Hours	
3	108	Exam

In the course students get acquainted with basic approaches of control systems programming. An object-oriented approach is studied using the C ++ language with the Qt framework.

Course structure:

1. DATA TRANSFER PROTOCOLS
 - 1.1. Systems communication protocols.
 - 1.2. Data package of information messages.
 - 1.3. Data encoding for messages streaming.
2. DATA COLLECTING AND PROCESSING
 - 2.1. Information package processing.
 - 2.2. Data log design.
 - 2.3. Data processing in external software packages.
3. ADVANCED C++ IN ROBOT PROGRAMMING
 - 3.1. Callbacks.
 - 3.2. Signals and slots concepts.
 - 3.3. Objects interaction in a program.