SUMMARY

Master's diploma work contains: 142 pages; 64 figures; 27 tables; 16 references.

In this master's thesis, the development of a laboratory practice was developed to study the principles of creating and testing automation systems based on Siemens SIMIT software. The task and methodical instructions for them are created, performing the students step by step mastering the rules of work and adjusting the main elements of the Siemens SIMIT program.

The results of the laboratory workshop will be reports on the work performed according to the variant, which should include the following elements: the synthesis of the process with the recorded equations of operating conditions of the system devices, the recorded program in the programming language SCL, the image of the created process model and the graphics of sensor signals and executive devices, conclusions.

Having mastered and completed this laboratory practice, students will be able to self-adjust creating, configure and test process models.

SCL, TECNOLOGIC PROCESS MODEL, AUTOMATION PROGRAM, TEST METHODS, AUTOMATION SYSTEM, AUTOMATION SYSTEM, SIEMENS SIMATIC MANAGER, SIEMENS SIMIT, SIEMENS PLCSIM

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