

## **Abstract**

Bachelor's degree project entitled "Automation of synthetic glycerin" contains an explanatory note in volume 79 pages, 3 sheets of drawings A1 and 61 posters.

Explanatory Note contains 13 figures, 2 tables, 2 addition and 8 references.

In sections of the explanatory note the analysis of process of production, designed automatic control system, developed a mathematical model of static and dynamic modes of control object, examined ways of transfer functions of system with analog object and digital control, made the the basic requirements for safety.

*Keywords:* synthetic glycerin, automation, heat exchanger, allyl alcohol, technological process, scheme of automation, control and regulation, signaling and blocking, control object, transfer function, transfer characteristic, safety.