SUMMARY

Bachelor's diploma consists of 94 pages, 14 figures, 6 tables and graphic part on 3 pages. Diploma project structure includes: analytical overview, functional circuit development with speed control by using field oriented control of induction motor, calculation of parameters and selection of electric drive basic elements, structural diagrams designing and synthesis of regulators, mathematical model designing, research of static and dynamic characteristics of main motion field oriented controlled asynchronous electric drive, occupational and Environmental Safety.

Objective: research of automatic control system of extrusion plant productivity by maintaining constant pressure of the output material.

In the course of bachelor's work knowledge on such subjects: "Electro-mechanical automation systems in metalworking and mechanical engineering", "Design of automation systems", "Automation of electromechanical systems." were used and secured.

The graphical part includes a principle electric circuit, charts of transients, appearance of milling machine.

EXTRUSION MACHINES, MOLDING HEAD, SCREW, POLYMER, EXTRUSION

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	Letter	№ of doc.	Sign.	Date				
Devel.		K. Gaidar			Summary The system of automatic control of the productivity of the extrusion plant	W.	Letter	Letters
Checked		O. Khalimovskyy						
						NTUU "KPI", FEA, ED-21		
N.Contr.		B. Priymak						
Approved		S. Peresada						