

National Technical University of Ukraine

"Kyiv Polytechnic Institute"

Department of Machines and Apparatus for Chemical and Oil Refining Production

A P P R O V E D

Head of Department of
Machines and Apparatus for Chemical and
Oil Refining Production

_____ Y.M. Korniyenko

16 September 2015

INDIVIDUAL STUDY PLAN

specialty 8.05050303 “Forestry machines”

specialization “Computer design and program operation of equipment for pulp and paper production”

Group LB-51M

Leon Kolobashkin

for 2015/2016 academic year

Scientific leader: Associate Professor at the Department of Machines and Apparatus for Chemical and Oil Refining Production, Candidate of Engineering Sciences

O.O. Seminskiy

Theme of Master Thesis:

“Process of energy transfer in flows of liquid in rotary pulse apparatus”

Kyiv 2015

Realization of master`s individual education plan

<i>№ 3/n</i>	<i>Credit module name</i>	<i>Amount of ECTS credits</i>	<i>Type of reporting</i>	<i>Comment</i>
Autumn semester				
1.	Civil protection	1	Diff. Test	
2.	Intellectual property	1	Test	
3.	Foreign language professional orientation (depth)- 1.	1,5	–	
4.	Automation of production processes - 1. Local systems of automated regulation	4	Diff. Test	
5.	Basics of marketing	1,5	Test	
6.	Design of paper-, cardboard- and special machines -1. Mashines construction and calculation methods	4,5	Exam	
7.	Construction of the main elements of paper- and cardboard-machines -1	8,5	Exam	
8.	Construction of the main elements of paper- and cardboard-machines -2. Course project	1,5	-	
9.	Processes and equipment wood mass industries	6,5	Exam	
Spring semester				
1.	Labour protection	1	Exam	
2.	Factors of successful employment by specialty	1	Test	
3.	Mathematical methods of optimization	4	Exam	
4.	Basics of the scientific research	2	Test	
5.	Design of paper-, cardboard- and special machines - 2. Calculations and design of mashines	3,5	Diff. Test	
6.	Design of paper-, cardboard- and special machines - 3. Course project	1,5	-	
7.	Foreign language professional orientation -1. Foreign language for scientists -1	1,5	Test	
8.	Higher Education Pedagogy	1,5	Test	
9.	Automation of production processes - 2. Automated process control systems	3	Diff. Test	
10.	Equipment for recycling and recovery of pulp and paper production waste	6	Exam	
11.	Transfer phenomena	6,5	Exam	

Research work

1.	The analysis of literature and patent sources on the topic of master's thesis. Formulation of problems of theoretical and experimental studies.	The unit of attestation.	15.10.2015
2.	Preparing materials on the research for publication the abstract and participation in the conference.	The abstract.	15.11.2015
3.	Preparing a patent application.	Patent.	15.02.2016
4.	Assembling a physical and mathematical model of the process.	The unit of attestation.	29.02.16
5.	Choice and justification of methods of solving mathematical model.	The unit of attestation.	07.03.2016
6.	Justification of research methodology	The unit of attestation.	17.03.2016
7.	Upgrading research facility.	The unit of attestation.	31.03.16
8.	Drafting techniques of experimental research.	The unit of attestation.	20.04.2016
9.	The choice of methods of processing experimental data.	The unit of attestation.	16.05.2016

Pedagogical and educational work

1.	Assistance for R&DWS section " Construction of the main elements of paper- and cardboard- machines "		During the study
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Scientific leader

Associate Professor at the

Department of Machines and

Apparatus for Chemical and

Oil Refining Production, Cand. Engr

O.O. Seminskiy

Master student

L.V. Kolobashkin

Approved at the Department of
Machines and Apparatus for Chemical and
Oil Refining Production meeting
Protocol № 2 from 16 September 2015