

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

Dmytro S. Vizerskyi

for 2015/2016 academic year

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

Theme of Master Thesis:

“ Process of the paper filler drying “

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 research of drying paper filler. Formulating of problems of theoretical and experimental studies. Preparing a patent application.	The unit of attestation. Patent.	15.10.15
2.	Preparing materials on the research for publication the abstract and participation in conference.	The abstract.	15.11.15
3.	Developing physical and mathematical model describing the process of drying paper filler.	The unit of attestation.	30.12.15
4.	Choice and justification of methods of solving mathematical model.	The unit of attestation.	28.02.16
5.	Preparation of materials for the research to be published articles in professional journals and abstracts to publications and participation in the conference.	Articles in professional journal.	15.03.16
6.	Creating a laboratory facility for research of drying process of paper filler.	The unit of attestation.	15.04.16
7.	Carrying out the laboratory tests.	The unit of attestation.	30.05.16

Pedagogical and educational work

1.	Assistance for R&DWS section "paper-, cardboard- and special machines"		During the study
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Scientific leader

Professor at the

Department of Machines and

Apparatus for Chemical and

Oil Refining Production, Cand. Engr

V.M. Marchevky

Master student

D.S. Vizerskyi

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