

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 8.05050315 “Equipment of Chemical Production and Building Material Plants”

specialization “Machines and Apparatus for Chemical and Oil Refining Production”

Group LN-41m

Nataliia Vorobei

for 2015/2016 academic year

Scientific advisor: Associate Professor at the Department of Machines and Apparatus for
Chemical and Oil Refining Production, Candidate of Engineering Sciences Shved M. P.

Theme of Master Thesis:

“Resource and energy saving of polymer pipe production”

Kyiv 2015

Implementation of curriculum for a Master degree

<i>Nº</i>	<i>Course</i>	<i>ECTS credits (hours)</i>	<i>Reporting form</i>	<i>Note</i>
Autumn semester				
1.	Patenting and Copyright	2	Credit	
2.	Philosophical Principles of Scientific Cognition	1,5	Credit	
3.	Fundamentals of Sustainable Development of Society	2	Credit	
4.	Mathematical Methods of Optimization	4	Exam	
5.	Mathematical Modeling of Systems and Processes	4	Exam	
6.	Foreign Language for Specific Purposes - 2	1,5	Credit	
7.	Transfer Processes white Equipping of Chemical Manufactures-2. Design of processes of transfer	3	Exam	
8.	Academic Year Project within the Subject -3: Processes of oil-processing productions	1	Course work	
9.	Manufacturing Technology, Reliability and Durability -2. Reliability and longevity of equipment of chemical productions	3	Graded credit	
10.	Theory of the Experiment and Measurement Techniques	3	Exam	
11.	Computer Design of Chemical Engineering Complexes	5	Credit	
Spring semester				
1.	Scientific-research Practice		Graded credit	

Research work

1.	Processing and synthesis of results research processes of polymer pipe production	Chapter of Master Thesis	30.09.15
2.	Preparation of materials for publication of research results in professional edition. Publication of theses and participation in conference	Theses. Articles in professional edition	15.11.15
3.	Clarification of the structure of a mathematical model polymer pipe production	Chapter of Master Thesis	30.01.16
4.	Conclusions and recommendations on the designing apparatus	Chapter of Master Thesis	30.02.16
5.	Development of cascade extruder	Chapter of Master Thesis	30.04.16
6.	Public testing of work. Preparation of materials of research results for publication of theses and participation in conference	Theses	20.04.16
7.	Preparation of master's dissertation for defense	Master Thesis	30.05.16

III Pedagogical and educational work

1.	Assistance in SRWS for section “ Processes and apparatus for chemical and oil refining production ”	Report	During study
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Scientific advisor:

Associate Professor at the
Department of Machines and
Apparatus for Chemical and
Oil Refining Production, Cand. Engr.

M.P. Shved

Master student

N.H. Vorobei

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