

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

Vasyl Oleksiievets

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

Ya. H. Dvoinos

Theme of Master Thesis:

“The process of extrusion of large diameter pipes”

Kyiv 2015

Implementation of curriculum for a Master degree

<i>№</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.	Experimental verification of the mathematical model. Analysis and generalization of results	Chapter of Master Thesis	24.09.15
2.	Preparation of materials for publication of research results. Presenting materials for obtaining patent and publishing two articles in specialized scientific magazine	Articles, patent application	13.11.15
3.	Clarification of the structure of a mathematical model	Chapter of Master Thesis	26.01.16
4.	Conclusions and recommendations on the design of the device.	Chapter of Master Thesis	21.02.16
5.	Design of construction of extruder.	Chapter of Master Thesis	23.04.16
6.	Public testing of work. Writing a thesis-reports on the master's dissertation. Presentation of abstracts at scientific conferences and seminars	Theses	12.04.16
7.	Preparation of master's dissertation for defense	Master Thesis	28.05.16

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.

Ya. H. Dvoinos

Master student

V. F. Oleksiievets

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