

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-51m

Murzak Mariia

Scientific advisor: Professor at the Department of Machines and Apparatus for Chemical and Oil Refining Production , Doctor of Engineering Sciences Y. M. Korniyenko

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

V.V. Sobchenko

Theme of Master Thesis:

“The process of creating an artificial hydrosilicate insulation material”

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.	Civil Defence	1	Graded credit	
2.	Intellectual Property	1	Credit	
3.	Design Engineering Equipment – 1	7	Exam	
4.	Academic Year Project within the Subject: Design Engineering Equipment.	1,5	Course work	
5.	Foreign Language for Specific Purposes -1	1,5	–	
6.	Computer Design of Chemical Manufactures Equipment	2	Credit	
7.	Mounting and Maintenance of Chemical Manufactures Equipment	2,5	Credit	
8.	Automation of Productive Processes – 1. Local System of Automated Regulation	4	Graded credit	
9.	Fundamentals of Marketing	1,5	Credit	
10.	Equipment for the Production and Processing of Polymers - 1. Equipment of production of polymers	4	Exam	
11.	Synthesis and Separation Equipment in the Chemical Industry-1. Equipment of membrane processes of division	4	Exam	
Spring semester				
1.	Specialized Labor Safety	1	Graded credit	
2.	Factors of Successful Employment According to Specialization	1	Credit	
3.	Fundamentals of Scientific Researches	2	Credit	
4.	Foreign Language for Specific Purposes - 1	1,5	Credit	
5.	Higher School Pedagogy	1,5	Credit	
6.	Transfer Processes white Equipping of Chemical Manufactures-1. Processes of oil-processing productions	3	Credit	
7.	Academic Year Project within the Subject -1: Processes of oil-processing productions	1,5	Course work	
8.	Manufacturing Technology, Reliability and Durability -1. Design of processes of transfer	5	Exam	
9.	Automation of Productive Processes – 2. Automated Process Control System	4	Exam	
10.	Processes of Deep Refrigeration	4,5	Credit	
11.	Equipment for the Production and Processing of Polymers - 2. Extrusion methods of processing of polymers	3,5	Exam	
12.	Synthesis and Separation Equipment in the Chemical Industry-2. An equipment of synthesis is in chemical industry	3,5	Exam	

Research work

1.	Analysis of literature and patent sources on the process of creating an artificial hydrosilicate insulation material. Justification goals and objectives of the study. Preparing a patent application.	Chapter of Master Thesis, patent application	15.10.15
2.	According to the results of the analytical review of literature sources to prepare abstracts for scientific and technical conference	Theses	15.11.15
3.	Development of a physical model of the process of handling termovolohisnoi hidrosylikation material. Design and development of a mathematical model of the process of handling termovolohisnoi hidrosylikation material..	Chapter of Master Thesis	30.12.15
4.	Choice and justification of methods for solving mathematical and empirical models..	Chapter of Master Thesis	28.02.16
5.	Preparation of materials to research to be published articles in professional journals and abstracts to publications and participation in the conference.	Articles	15.03.16
6.	Modernization of the laboratory setting to study the process of creating an artificial hydrosilicate insulation material.	Chapter of Master Thesis	15.04.16
7.	Training materials on the research for publication of abstracts and participation in the conference.	Theses	25.04.16
8.	Carrying out laboratory research.	Chapter of 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
----	---	--------	--------------

Scientific advisor:

Associate Professor at the

Department of Machines and

Apparatus for Chemical and

Oil Refining Production, Cand. Engr.

V.V. Sobchenko

Master student

M. S. Murzak

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