

**National Technical University of Ukraine**

**"Kyiv Polytechnic Institute"**

Department of machinery and apparatus chemical and petroleum industries

**APPROVED BY**

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

\_\_\_\_\_ Y.N. Kornienko

September 16, 2015

## **INDIVIDUAL EDUCATIONAL PLAN**

**specialty** 8.05050315 “Equipment for Chemical Productions and Construction  
Materials Plants”

**specialization** “Machinery and equipment of chemical and petroleum industries”

**student V of the course the group LN- 51m**

Oleksandr Perepelychnyi

**in 2015/2016 academic year**

**Scientific adviser: Professor of machinery and apparatus of chemical and petroleum industries, Doctor of Engineering, Y. Snezhkin**

Theme of master's thesis:

" Intensification of process of dehydration composite materials "

Kyiv 2015

## Implementation of curriculum for a master

<i>№</i>	<i>Name of credit modules</i>	<i>Number of ECTS credits</i>	<i>Type reporting</i>	<i>Note</i>
<b>Осінній семестр</b>				
1.	Civil Defence	1	Differential test	
2.	Intellectual Property	1	Test	
3.	Design Engineering Equipment – 1	7	Exam	
4.	Academic Year Project within the Subject: Design Engineering Equipment.	1,5	Course project	
5.	Foreign Language for Specific Purposes -1	1,5	–	
6.	Computer Design of Chemical Manufactures Equipment	2	Test	
7.	Mounting and Maintenance of Chemical Manufactures Equipment	2,5	Test	
8.	Automation of Productive Processes – 1. Local System of Automated Regulation	4	Differential test	
9.	Fundamentals of Marketing	1,5	Test	
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	
<b>Весняний семестр</b>				
1.	Specialized Labor Safety	1	Differential test	
2.	Factors of Successful Employment According to Specialization	1	Test	
3.	Fundamentals of Scientific Researches	2	Test	
4.	Foreign Language for Specific Purposes - 1	1,5	Test	
5.	Higher School Pedagogy	1,5	Test	
6.	Transfer Processes while Equipping of Chemical Manufactures-1. Processes of oil-processing productions	3	Test	
7.	Academic Year Project within the Subject -1: Processes of oil-processing productions	1,5	Course project	
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	Test	
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 dehydration composite materials. Justification goals and objectives of the study. Preparing a patent application.	Division thesis. An application for a patent.	15.10.15
2.	According to the results of the analytical review of literature sources to prepare abstracts for scientific and technical conference.	Abstracts.	15.11.15
3.	Development of a physical and mathematical model of process of dehydration composite materials.	Division thesis.	30.12.15
4.	Choice and justification of methods for solving mathematical and empirical models.	Division 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 in professional journals.	15.03.16
6.	Modernization of the laboratory setting to study the process of dehydration composite materials.	Division thesis.	15.04.16
7..	Laboratory research	Division thesis.	30.05.16

## Pedagogical and educational work

1.	Assistance SRWS in section "Processes and equipment of chemical and oil industries"		During training
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Scientific adviser

Professor of Department

of Machines and

Apparatus for Chemical and

Oil Refining Production, Doctor of Engineering

Y. Snezhkin

Masters

O.Perepelycnyi

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