National Technical University of Ukraine

"Kyiv Polytechnic Institute"

Department of Machines and Apparatus for Chemical and Oil Refining Production

APPROVED

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

Mulyar Vitalii

for 2015/2016 academic year

Scientific advisor: Professor at the Department of Machines and Apparatus for Chemical and Oil Refining Production, Doctor of Engineering Sciences, corresponding member of the National academy of sciences of Ukraine Y. F. Sniezhkin

Theme of Master Thesis:

"Process of dehydration of thermolabile materials in heat pump dryer with combined heat supply "

Kyiv 2015

₽	Course	ECTS credits (hours)	Reporting form	Note			
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 Manufac- tures-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 produc- tions	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 cre- dit				

Implementation of curriculum for a Master degree

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 dehydration of thermolabile materials process	Chapter of Master Thesis	26.01.16
4.	The economic justification of process. Formation of recommendations for the rational management of dehydration process	Chapter of Master Thesis	21.02.16
5.	Design of construction of apparatus for dehydration of thermolabile materials process	Chapter of Master Thesis	23.04.16
6.	Public testing of work. Writing a thesis-reports on the master's disserta- tion. 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	Doport	During study
	and oil refining production "	Report	

Scientific advisor:

Professor at the Department of

Machines and Apparatus for Chemical and

Oil Refining Production, D. Engr.,

corresponding member of the NAS of Ukraine

Y.F. Sniezhkin

Master student

V.P. Mulyar

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