National Technical University of Ukraine "Kyiv Polytechnic Institute"

Department of Machines and Apparatus for Chemical and Oil Refining Production

Head of Department of
Machines and Apparatus for Chemical and
Oil Refining Production
Y.M. Korniyenko
16 September 2015

APPROVED

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

Pashenko Mariia

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

Theme of Master Thesis:

"The process of drying composite mixture of peat biomass in industrial manufacture of fuel briquettes"

Implementation of curriculum for a Master degree

mpr	ementation of curriculum for a Master degree	E CEC		
<i>№</i>	Course	ECTS credits (hours)	Reporting form	Note
	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 ofpolymers	3,5	Exam	
12.	Synthesis and Separation Equipment in the Chemical Industry-2. An equipment of synthesis is in chemicalindustry	3,5	Exam	

Research work

1.	Analysis of literature and patent sources on the process of drying	Chapter of	
1.	• • • • • • • • • • • • • • • • • • • •	-	
	composite mixture of peat biomass. Justification goals and	Master	
	objectives of the study. Preparing a patent application.	Thesis,	15.10.15
		patent applica-	
		tion	
2.	According to the results of the analytical review of literature	Theses	15.11.15
	sources to prepare abstracts for scientific and technical conferenc.		
3.	Development of a physical and mathematical-empirical model of	Chapter of	30.12.15
	the process of The process of drying composite mixture of	Master	
	peat biomass in industrial manufacture of fuel briquettes.	Thesis	
4.	Choice and justification of methods for solving mathematical and	Chapter of	28.02.16
	empirical models.	Master	
		Thesis	
5.	Preparation of materials to research to be published articles in	Articles	15.03.16
	professional journals and abstracts to publications and participation		
	in the conference.		
6.	Creation of the laboratory setting to study the drying process com-	Chapter of	15.04.16
	posite mixture of peat biomass.	Master	
		Thesis	
7.	Training materials on the research for publication of abstracts and	Theses	25.04.16
	participation in the conference.		
8.	Conducting laboratory research	Chapter of	30.05.16
		Master	
		Thesis	

III Pedagogical and educational work

1.	Assistance in SRWS for section " Processes and apparatus for chemical	Report	During study
	and oil refining production"	Report	

Scientific advisor:

Associate Professor at the

Department of Machines and

Apparatus for Chemical and

Oil Refining Production, Cand. Engr.

D.M.Korincsuk

Master student M.A.Pashenko

Approved at the Department of

Machines and Apparatus for Chemical and

Oil Refining Production meeting

Protocol № 2 from 16 September 2015