

«APPROVED»  
 Head of department  
 «High-temperature materials and  
 powder metallurgy»  
 \_\_\_\_\_ Stepanchuk A. N.  
 “ ” \_\_\_\_\_ 2015

### Individual learning plan 1-st year

#### Bilodid Dmytro Mykolayovich

The theme of work: Eutectic composite materials based on stabilized ZrO<sub>2</sub>

№	Name of disciplines and types of work	Reporting form	The mark of the supervisor
1	According to the working plan	According to the working plan	
Work on the thesis			
2	<u>Theoretical work:</u> 1. Patent information search on the topic of the thesis 2. Writing a literature review.	The literature review meeting the requirements	
3	<u>Experimental work:</u> 1. Development of research methodology: - The method of obtaining a quasibinary eutectic alloys on the basis of ZrO <sub>2</sub> ; - Metallographic analysis; - Determination of mechanical properties; - X-ray analysis; - Scanning electron microscopy; 2. Conduct of experimental studies Production of ceramic eutectic quasibinary alloys ZrO <sub>2</sub> -based Investigation of the structure of obtained alloys.	1. Description of the methods 2. Research report	

Scientific adviser \_\_\_\_\_ / Ph. D. doc. Kysla G.P./  
 “ ” \_\_\_\_\_ 2015.

Undergraduate \_\_\_\_\_ / Bilodid D.N./  
 “ ” \_\_\_\_\_ 2015 .