

**Plan**  
research work of the department "Geology and exploration of mineral deposits"  
for the 2019-2020 academic year

Events	Deadlines	Responsible manager	Performance Marks
<b>1 Performance of research</b>			
1.1 Problems of Higher Education The methodology of organizing the independent work of doctoral students (Independent work of PhD students) specialty 6M070600 "Geology and exploration of mineral deposits"	October 2019 г	Portnov V.S., Ponomareva M.V., Teachers of the department	
1.2 Geophysical methods for studying the composition of the fluid filling the well.	December 2019	Portnov V.S.	
1.3 Development of a complex of geophysical methods for the exploration of coal-gas-bearing wells in the Karaganda coal basin.	April 2020	Portnov V.S.	
1.4 Assessment of the scientific and commercial significance of unconventional rare-earth raw materials in metamorphic shales of the Irtysh shear zone.	May 2020	Ermolov P.V., Ponomareva M.V. Pak Y.N., Pak D.Y.	
1.5 Methodological foundations for predicting the gas content of coal seams using geophysical methods	June 2020		
<b>2. The conclusion of agreements (contracts) for the implementation of research, participation in competitions</b>			
2.1 Participation in competitions for research work  - Geological and geophysical quality control of solid minerals; - Scientific and methodological aspects of the modern stage of modernization of higher technical schools to improve quality and competitiveness	during a year	Ponomareva M.V. Portnov V.S. Pak D.Y. Pak Y.N.	
<b>3. Training of scientific and scientific-pedagogical personnel</b>			
Akimova A.E., Kaskatay A.M., Token Zh.M., Baltabaeva M.Sh., Birmazarova A.N., Dauletin E.M., Isabavev E.O., Kamaliden A.S., Kasym A .E., Mayborik J.S., Mazakh B., Tolebergenov A.T., Taylykbay A.S., Tolebek K.E.	during a year	Portnov V.S., Pak Y.N., Ponomareva M.V. Pak D.Y.	
<b>4. Publication of the results of research</b>			
4.1 Publication of 10 articles in scientific journals	during a year	Teachers of the department	
4.2 Participation in scientific and practical conferences: 20 reports	during a year	undergraduates students	

<b>5. Inventive activity</b>			
Submission of 3 applications for innovative patents	during a year	Pak Yu.N., Pak D.Y., Undergraduates PhD students	
<b>6. International activities</b>			
6.1. Establishing communication with foreign universities in the specialty 25.00.10 “Geophysics, geophysical methods of searching for minerals” of Tomsk Polytechnic University	during a year	Ponomareva M.V., Marchenko I.A.  Teachers of the department	
6.2 Participation in international grant competitions	during a year	Teachers of the department	
<b>7. Research work with students</b>	according to the plan	Teachers of the department	

Responsible for research

Lee E.S.