

**I APPROVE**

**Head of the Department of  
Chemistry and Chemical  
Technology**

 **A.T. Takibayeva**

«02»   09   2024

**PLAN**  
**research work of the Department of Chemistry and Chemical Technology for**  
**2024-2025**

№	Events (name of works)	Deadlines	Performers	Issue mark
1	<b>Carrying out R&amp;D on state budget topics</b>			
1.1	Reductive destruction of a wide fraction of coal tar in an atmosphere of CO containing gas	September 2024	Musina G.N.	
1.1.1	Development of optimal technological parameters for obtaining the most bioactive modified derivatives of triterpenoids	September 2024	Takibayeva A.T. Demets O.V.	
1.1.2	Production of cosmetics (shampoos, creams) based on pentacyclic triterpenoid – betulin	September 2024	Takibayeva A.T. Demets O.V.	
2.	<b>Conclusion of business contracts and participation in competitions for R&amp;D financing:</b>			
	Audit of the production control system and material balance (balance of metals) in the processing of mineral raw materials at the Akzhal enrichment plant	During the school year	Omarova N.K. Sherembaeva R.T.	
<b>Carrying out R&amp;D on an initiative topic</b>				

	Production of anti-seborrheic shampoo based on pentacyclic triterpenoid betulin	2024-2025 academic year	Takibayeva A.T. Demets O.V.	
3.	<b>Training of scientific and scientific-pedagogical personnel</b> 3.1 Scientific and pedagogical training of masters (2).	During the school year	Takibayeva A.T. Rakhimberlinova Zh.B. Oralova A.T.	
4.	<b>Publication of research results</b> 4.1 Preparation of monographs – 3; 4.2 Publication of articles – 10 articles; (KOKSON-10, Scopus-7, CA-2) 4.3 Participation in conferences – 30 reports.	According to the department's plan	Takibayeva A.T.  Zhorabek A.A.  PPS, Master's students, students	
5.	Participation in holding International conferences, KarTU: 5.1 Participation in the Republican student scientific conference "Contribution of youth science to the implementation of the Strategy "Kazakhstan-2050" Publication of abstracts-20 5.2 Participation in the scientific and practical conference "Saginov Readings (Chemical and Biological Sciences Section). Abstract Publication-10	April 2024      June 2024	Takibayeva A.T., Zhorabek A.A. PPS, Masters and students  Takibaeva A.T., Zhorabek A.A. Faculty, postgraduates and students	
6.	Inventive activity 6.1 Obtaining a Certificate of State Registration of Rights to a Copyright Object– 10. 6.2 Submission of 4 applications for a patent.	During the school year	Takibayeva A.T., Zhorabek A.A., Rakhimberlinova Zh.B., Nurkenov O.A., Omarova N.K.	

7.	<p><b>International activities</b></p> <p>7.1. Organization of foreign internships for a master's student of the group XTOBM 233-Yakuda G. XTOBM-23-1 – Agysbay A. (Tashkent)</p> <p>7.2 Joint publications of R&amp;D results with Professor Kulakov I.V. (Tyumen State University, Tyumen).</p>	<p>April 2024</p> <p>June 2024</p>	<p>Takibayeva A.T., Karilkhan A.</p> <p>Takibayeva A.T. Rakhimberlinova Zh.B.</p>	
8.	Research work with students and postgraduates	According to the NIRSM plan (attached)	PPS	
9.	Research work with enterprises of the Corporate University.	According to the NIRKU plan (attached)	Takibayeva A.T. Zhorabek A.A. Kinayatov M.A. Sherembaeva R.T.	