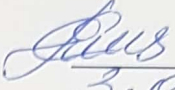


APPROVED

Dean MEF

Erakhtina I.I.

  
 3.09.2020

**Research work plan of the Faculty of Engineering  
2019-2020**

<i>Nº</i>	<i>Events (name of work)</i>	<i>Deadlines</i>	<i>Executors</i>
<b>1</b>	<b>R&amp;D:</b> 1. Development and manufacture and testing of a new design of a rotary conveyor unit with a turn of the cargo flow at an angle of 90° in the plane of the working soil for downhole excavation systems and curvilinear workings 2. Development of special technological environments to reduce the wear resistance of cutting tools 3. Development of technology for thermofrictional processing of difficult-to-machine materials with pulse cooling, which allows the replacement of carbide tool material with structural steels 4. Development and implementation of a technology for the manufacture of refractory materials for the metallurgical industry with optimal porosity and increased heat resistance 5. Development and implementation of the production of sand-resin molds at non-stationary pressure in order to improve the quality of finished products 6. Improving the technology of manufacturing precision castings from complex alloy steels with a homogenized structure and improved properties using raw materials of Kazakhstani content	June 2021      December 2020   June 2020   01.09.2019 31.11.2020  01.09.2019 31.11.2020  01.09.2019 31.11.2020	Beisembaev K.M. Nokina Zh.N.      Nikonova T.Yu.   Sherov K.T.   Kulikov V.Yu.   Issagulov A.Z.   Kvon S.S.
<b>2</b>	<b>Publication of results R&amp;D:</b> <b>2.1 Publication of articles - 60</b> Including: - in rating Kazakhstan magazines - 30; - foreign magazines: (RSCI) - 15; (Clarivate Analitics and Scopus) - 15. <b>4.2 Participation in conferences - 100</b> Including: - in republican/interuniversity - 40; - in international - 60	During a year	PTS
<b>3</b>	<b>Inventive activity</b> <b>Submission of 10 applications for innovative patents and 20 CIP</b>	During a year	PTS

4	<b>International activity</b> with Vilnius Technical University on "Analysis of Dynamic Parameters of a Linear Positioning Table System"; project in collaboration "Creation of technology for restoration of rods of large-size equipment" - with Tomsk Polytechnic University "Hydraulic drive of a vibrating sieve for testing technical products by the method of random vibration" - development of the educational program "Digital Engineering" in the direction of additive technologies with participation in the international project Erasmus + together with Peter the Great SSPPU Training of scientific and pedagogical personnel through postgraduate studies - Kyrgyz State Technical University named after I. Razzakov (Bishkek) Training of undergraduates in academic mobility Joint publication of R&D results with Professor J. Michaud (University of Lorraine, France)	May 2021	Zharkevich O.M. Nikonova T.Yu.
		May 2021	
		During a year	Bukanov Zh.U.  Kulikov V.Yu. Kvon S.S.
5	Research work with students and undergraduates	According to the plan of research work of students and undergraduates	PTS of departments
6	Department seminars	According to plan	Zharkevich O.M.

Science sub dean of Mechanical Engineering Faculty



Zharkevich O.M.