KAZAKH NATIONAL RESEARCH TECHNICAL UNIVERSITY after K. SATBAYEV



APPROXEDE TEXAS

K Y elemessov 733 2023y

MAJOR ELECTIVE DISCIPLINES educational program for the 2023-2024 academic very admission

Educational program 6B07105-Vindustrial engineering"

Group of Educational programs B 064 - Vicebanies and metatworteng"

Academic degree Bachelor of Engineering and Technology Study duration: 4 years Full-time study (including Vear Total Code of Code of Cycle Credits lec/lab/pr Name of discipline Semestr SIWT) in of hours discipline elective study General technical training module MSM150 Calculation and design of cutting tools 150 1/0/2 105 БД КВ 5 6 3201 MSM190 Production of cutting tools 1/0/2 Drives of CNC machines 105 MSM422 6 БД КВ 5 150 3202 2/1/0 MSM463 Operation of machines with program control 2/1/0 Dynamics of mechanical processing of workpieces 105 3 ISO121 БД КВ 5 150 6 3203 2/0/1 ISO170 Design of procurement production MSM425 3D modeling and 3D printing 1/2/0 75 4 6 ПД КВ 3302 Process modeling in mechanical engineering MSM424 1/0/2 Design and calculation of technological equipment 105 MSM159 150 пд кв 5 5 1/2/0 3305 Progressive methods of surface treatment MSM431 Module of production and technological preparation 1/0/2 Design of machining on CNC machines MSM426 105 150 5 8 плкв 4301 1/2/0 MSM428 Development of control programs Automation of technological processes in mechanical engineering MSM429 6 180 2/1/1 120 7 пд кв 4303 Robotization of machine-building production MSM430 Organization and planning of machine-building production MSM457 180 2/0/2 120 пд кв 6 7 4304 4 Production design MSM421 1/2/0 CAM(Solidworks, Inventor) 150 105 MCH149 пд кв 5 8 4306 2/0/1 Additive manufacturing MSM119 Management training module 2/0/1 Theory and practice of project management MNG481 105 8 пд кв 5 150 4307 1/2/0 MSM418 Capstone Project

Credits numbers of elective disciplines over the entir	e period of study	
Cycle of disciplines	Credits	
Cycle of basic disciplines (B)	15	
Cycle of special disciplines (S)	36	
Overall:	51	

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Decision of the Academic Council of the Institute_ E&ME_. Protocol Note or "M" 10 20 21y.

ME Department Head

E.Nugman

Specialty Council representative from employers

I. Dyusebaev