

CATALOG OF ELECTIVE DISCIPLINES

8D07 - Engineering, manufacturing and construction industries
(Code and classification of the field of education)

8D072 - Industrial and manufacturing branches
(Code and classification of the direction of training)

0720
(Code in the International Standard Classification of Education)

D111 - Food production
(Code and classification of the educational program group)

8D07201 - Technology of food products
(Code and name of the educational program)

Doctor of philosophy (PhD)
(Level of preparation)

set of 2024

Developed

By the Academic Committee of the OP
The head of the AK Nurymkhan Gulnur Nesiptaikyzy
OP Manager Idyryshev Berik Arystanbekuly

Reviewed

At the meeting of the Academic Quality Committee of the Faculty of Engineering and Technology
Protocol No. 3 dated 15.01.2024

At the meeting of the Academic Quality Committee Research School of Food Engineering
Recommended for approval by the University Academic Council
Protocol No. 1 dated 06.06.2024

Approved

at a meeting of the University Academic Council by protocol No. 3 of January 16, 2024.

at a meeting of the University Academic Council by protocol No. 6 of June 18, 2024.

Innovative Technology of food products

Discipline cycle	Profiling discipline
Course	1
Credits count	10
Knowledge control form	Examination

Short description of discipline

Classification of scientific directions of food production and organization of innovative scientific research. Improving the efficiency of using the results of scientific and scientific-technical activities. Drawing up a plan for research work. The use of innovative modern methods and techniques for determining the quality of food products. The use of new technologies in the production processes of new products. Methods of introducing innovations into production. Approaches to the study of the economic efficiency of finished products. Production of meat and meat products using Halal technology.

Purpose of studying of the discipline

Purpose of studying of the discipline: Getting doctoral knowledge about innovative technologies of food products.

Learning Outcomes

ON9 Promote the search, selection and use of new information in the field of consumer market development, systematize and summarize information.

Learning outcomes by discipline

Promotes the search, selection and use of new information in the field of consumer market development, systematize and summarize information

Promotes the search, selection and use of new information in the field of consumer market development, systematize and summarize information

Prerequisites

Masters degree course

Postrequisites

Doctoral student research work, including internship and doctoral dissertation III Doctoral student research work, including internship and doctoral dissertation IV Research practice

Method of teaching of engineering subjects

Discipline cycle	Profiling discipline
Course	1
Credits count	10
Knowledge control form	Examination

Short description of discipline

Introduction to the methodology of teaching special disciplines. General didactic principles of teaching in the system of vocational education. Organizational forms and methods of classes. Learning tools. Methods of improving the cognitive activity of doctoral students. Analysis, study, use of technical literature in scientific works. Writing technical texts, examination of drawings, drawings and graphs. Modern methods and methods of bringing the content of special disciplines to students in a professional context.

Purpose of studying of the discipline

The purpose of the discipline is the development of forms, methods and means of teaching special disciplines by doctoral students.

Learning Outcomes

ON5 Possess various educational technologies, methods and techniques of oral and written presentation of subject material, contributing to improving the quality of the educational process.

ON8 Conduct independent scientific research, characterized by academic integrity, based on modern theories and methods of analysis.

Learning outcomes by discipline

Possesses various educational technologies, methods and techniques of oral and written presentation of subject material, contributing to improving the quality of the educational process.

Conducts independent scientific research, characterized by academic integrity, based on modern theories and methods of analysis.

Possesses various educational technologies, methods and techniques of oral and written presentation of subject material, contributing to improving the quality of the educational process.

Conducts independent scientific research, characterized by academic integrity, based on modern theories and methods of analysis.

Prerequisites

Masters degree course

Postrequisites

Doctoral student research work, including internship and doctoral dissertation VI

Scientific-theoretical basis for the creation of combination products

Discipline cycle	Profiling discipline
Course	1
Credits count	10
Knowledge control form	Examination

Short description of discipline

Peculiarities of nutrition of various population groups, scientific foundations of food combinatorics. Modern directions of combined food production. Scientific principles of micronutrient enrichment of mixed foods. Classification and application of food and biologically active additives. Features of the use of various food and biologically active additives. The influence of the processing method on the change of the nutrient in food products, the main directions of the development of food technology. Development of new products using special additives.

Purpose of studying of the discipline

The purpose of the discipline is the formation of skills in the development of new products using special additives.

Learning Outcomes

ON7 Apply technologies of management of scientific research and teams in solving problems in the professional field of activity.

ON10 Generate his own new scientific ideas, communicate his knowledge and ideas to the scientific community, expanding the boundaries of scientific knowledge.

Learning outcomes by discipline

Applies technologies of management of scientific research and teams in solving problems in the professional field of activity.

Generates his own new scientific ideas, communicate his knowledge and ideas to the scientific community, expanding the boundaries of scientific knowledge.

Prerequisites

Masters degree course

Postrequisites

Doctoral student research work, including internship and doctoral dissertation VI