



My future profession



**С.Ж.АСФЕНДИЯРОВ АТЫНДАҒЫ
ҚАЗАҚ ҰЛТТЫҚ МЕДИЦИНА
УНИВЕРСИТЕТІ**



**КАЗАХСКИЙ НАЦИОНАЛЬНЫЙ
МЕДИЦИНСКИЙ УНИВЕРСИТЕТ
ИМЕНИ С.Д.АСФЕНДИЯРОВА**





**С.Ж.АСФЕНДИЯРОВ АТЫНДАҒЫ
ҚАЗАҚ ҰЛТТЫҚ МЕДИЦИНА
УНИВЕРСИТЕТІ**



**КАЗАХСКИЙ НАЦИОНАЛЬНЫЙ
МЕДИЦИНСКИЙ УНИВЕРСИТЕТ
ИМЕНИ С.Д.АСФЕНДИЯРОВА**

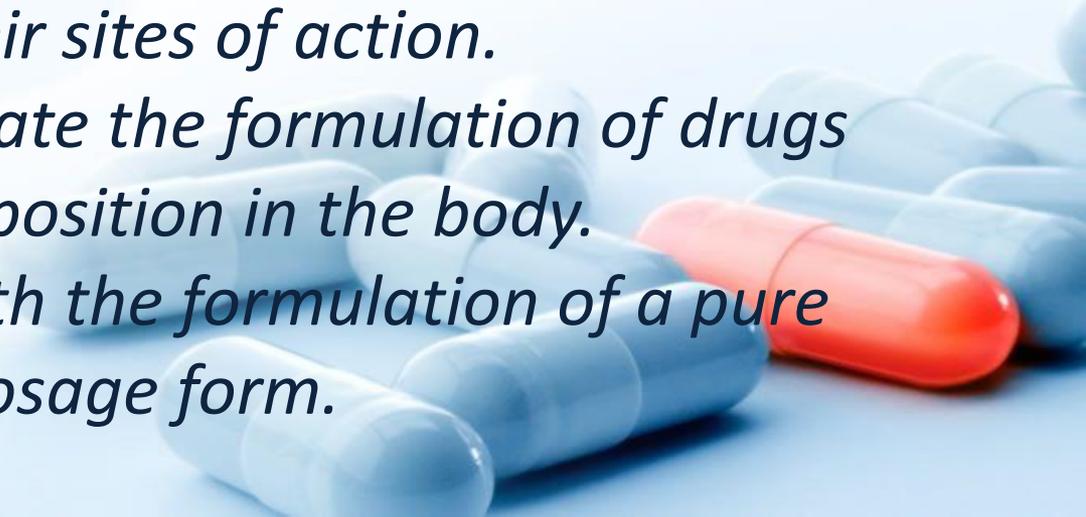




Pharmaceutics is the discipline of pharmacy that deals with the process of turning a new chemical entity (NCE) or old drugs into a medication to be used safely and effectively by patients. It is also called the science of dosage form design. There are many chemicals with pharmacological properties, but need special measures to help them achieve therapeutically relevant amounts at their sites of action.

Pharmaceutics helps relate the formulation of drugs to their delivery and disposition in the body.

Pharmaceutics deals with the formulation of a pure drug substance into a dosage form.





Branches of pharmaceuticals include:

- **Pharmaceutical formulation**
- **Pharmaceutical manufacturing**
- **Dispensing pharmacy**
- **Pharmaceutical technology**
- **Physical pharmacy**
- **Pharmaceutical jurisprudence**



*Pharmaceutical Technology
combines scientific aspects that
are critical in
the development and manufacture
of new drugs, handling of
medicines and
medical devices*



In the early 90s of the last century, after the collapse of the Soviet Union, the chemical and pharmaceutical industry of the CIS countries experienced a significant need for qualified cadres with engineering education for the industrial production of pharmaceutical products. In the context of the increased global requirements for the quality of medicines and the transition of drug manufacturers to production in accordance with the principles of good manufacturing practices (GMP) with the maximum automation of processes, there was an urgent need for training of process engineers for the pharmaceutical industry.



Modern conditions of industrial production of pharmaceutical products with its complex equipment and research base required the training of specialists with a new professional worldview and approaches to the production of drugs that can not only carry out the technological process and control it, but also carry out marketing research, develop occupational safety measures and the environment, to participate in the design of new productions, to plan organizational management activities to quality of products, participate in the development and conduct of validation studies, etc.



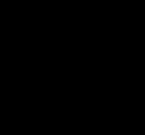
The task of creating this specialty was the training of specialists with a broad profile for production, scientific, technical and organizational and managerial activities in the field of production of pharmaceuticals and biopharmaceuticals.

Graduates of the specialty "Technology of pharmaceutical production" after graduation will be able to develop new or improve existing technological processes; choose the optimal conditions for the implementation of these processes and manage them; Use the latest methods of control of technological operations and finished products; to design industrial enterprises taking into account modern requirements of GMP, safety and labor protection; use in the professional practice of microprocessor and computer equipment, develop software; carry out marketing research based on scientific planning of production and forecasting its development; to develop measures for the protection of labor and the environment.

**С.Ж.АСФЕНДИЯРОВ АТЫНДАҒЫ
ҚАЗАҚ ҰЛТТЫҚ МЕДИЦИНА
УНИВЕРСИТЕТІ**



**КАЗАХСКИЙ НАЦИОНАЛЬНЫЙ
МЕДИЦИНСКИЙ УНИВЕРСИТЕТ
ИМЕНИ С.Д.АСФЕНДИЯРОВА**





In 2014 the Faculty of Pharmaceutical Production Technology was opened in our university. In the beginning there were 100 students, and now more than 500 students. Because this year the state allocated 500 grants for the development of our country. That's why we must learn well to become good specialists and, of course, to love this specialty. It is our duty to our country.



THANK YOU FOR ATTENTION!!!



**Zhaksylykova Balnur from
the Faculty of Technology
of Pharmaceutical
Production
Course:1
Group:18-0015-1k**