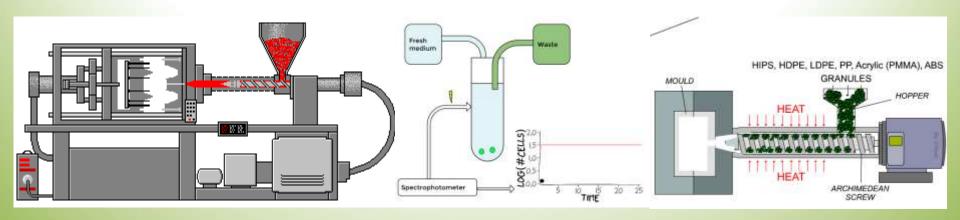
National technical University "Kharkiv polytechnic institute" Faculty "Integrated technologies and chemical technique" Department of "Plastics and biologically active polymers technology"



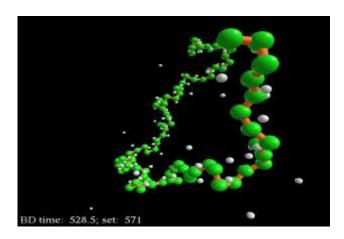
Dept. of plastics and biologically active polymers technology

The department prepares the Bachelors and Masters within the specialty "Chemical technology and engineering" in the following specializations:

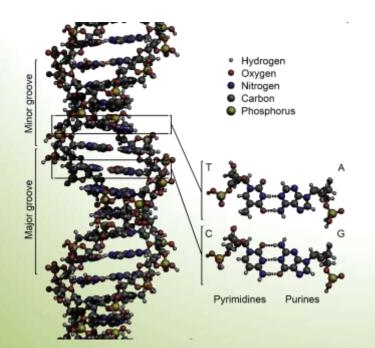
- "Chemical technology of synthetic and natural polymers and elastomers",
- 2. "Chemical technology of polymer and composite materials"



Areas of studying:



The use of recycling polymers, which are contained in solid waste



The creating functional polymers and polymer composite materials



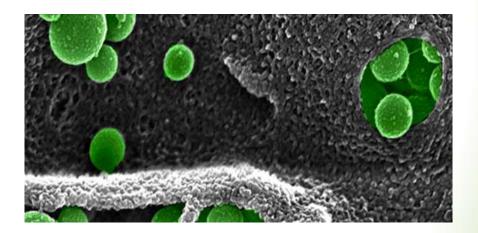
The study of biopolymers

Areas of studying:

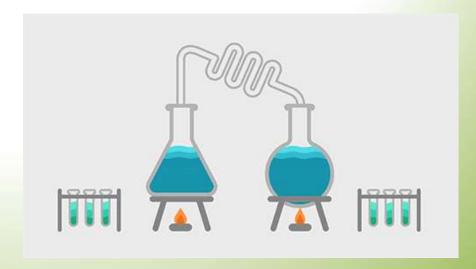
The study of medical and biologically active polymers



The creating of new biodegradable polymers and polymer composites

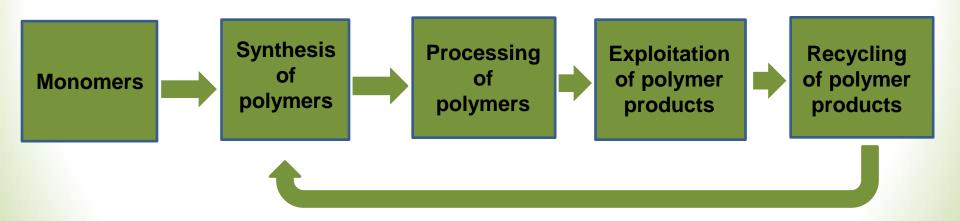


The creating of new ecologicallyclean polymers and polymer composites



Employment perspectives

Employment perspectives are determined by technological cycle



- Engineering work in the enterprise and in the laboratory
- Scientific work in the different areas of industry (medicine, aircraft and motor car construction, building and other)
- Investigation and processing of biopolymers as well as products based their

General academic disciplines for the students of our department (bachelor's level)

- ✓ Introduction to Specialty
- ✓ Chemistry and monomer technology
- ✓ Chemistry and Physics of macromolecular substances
- ✓ Production technology of macromolecular compounds
 - ✓ Chemistry of Biopolymers





General academic disciplines for the students of our department (bachelor's level)

- ✓ Nanotechnology and resource in the field of polymers
 - √ Polymer material science
 - ✓ Rheology and strength of polymers
- ✓ Modern hardware design of technological processes of plastics production
 - ✓ Technology and equipment of polymers processing
 - ✓ Theoretical basics of polymer processing





General academic disciplines for the students of our department (master's level)

- ✓ Theory and methods of research and testing of plastics
 - ✓ Medical polymer technology for biomedical purposes
- ✓ Special techniques for studying structure and properties of macromolecular compounds
 - ✓ Physics and chemistry of surface polymers
 - ✓ Technology processing of recycling polymers





General academic disciplines for the students of our department (master's level)

- ✓ Sanitary and chemical properties of plastics
 - ✓ Polymer mixture technology
 - ✓ Technology of inorganic polymers
- ✓ Fundamentals of creating composites of eco-friendly polymer materials
 - ✓ New technology in the production of high molecular compounds





General academic disciplines for the students of our department (master's level)

- ✓ The technology and processing of elastomers
 - ✓ Bonding and sealing technology
- ✓ Use of computer technology in the production and research
 of macromolecular compounds
 - ✓ Technology of production of natural and synthetic adhesives and sealants
- ✓ Technological and operational testing of plastics, adhesives and sealants
 - √ Phase processes in heterogeneous polymer systems
 - ✓ Advanced processing technology of polymer composites





our students participate in ERASMUS+ program





Dept. of plastics and biologically active polymers technology



Head of the dept. Prof. V AVRAMENKO E-mail: avramenko@kpi.Kharkov.ua

LECTURERS:

- L. PODGORNAYA, associate professor, Ph.D (Technology of polymers)
- O. BLIZNYUK, associate prof., Ph.D (Technology of polymers)
- D. MISHUROV, associate prof., Ph.D (Chemistry of polymers)
- A. CHERKASHINA, associate prof., Ph.D (Technology of polymers)
- V. LEBEDEV, associate prof., Ph.D (Technology of polymers)
- A. RASSOCHA, Prof., Ph.D (Technology of polymers) and faculty's dean

GRADUATE STUDENTS:

A.VORONKIN
O. KARANDASHOV

THANK YOU FOR ATTENTION !!!

