



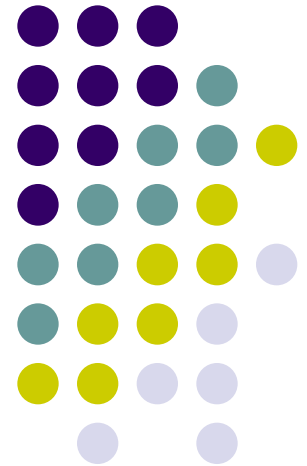
# ***National Technical University “Kharkiv Polytechnic Institute”***

***Specialty of Electric Power Engineering, Electrical  
Engineering and Electromechanics  
Specialization of Electroinsulating, Cable and  
Fiber Optic Technique***

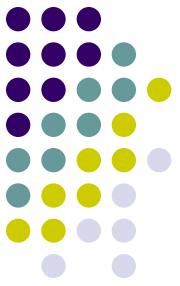


***Electroinsulating, cable and fiber optic  
technique is a unique opportunity to get a  
comprehensive theoretical and practical  
training in the development and  
implementation of the latest designs and  
systems, high-performance technologies on  
the only specialization in Ukraine.***

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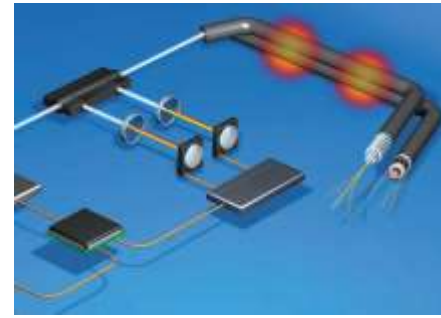
# Bachelor's Degree in Electric Power Engineering, Electrical Engineering, and Electromechanics



## Bachelor's educational program:



- **Electrotechnical Materials**
- **High Voltage Equipment and Design of Electrical Insulation Systems**
- **Basics of electrical insulation technique**
- **Technological Lines for the Manufacture of Power and Optical Cables**
- **Mathematical Modeling in Electrical Insulation, Cable and Fiber Optic Technique**
- **Design of Optical and Power Cables**
- **Installation and Operation of High-Voltage and Optical Cable Systems**



### *Areas of knowledge application:*

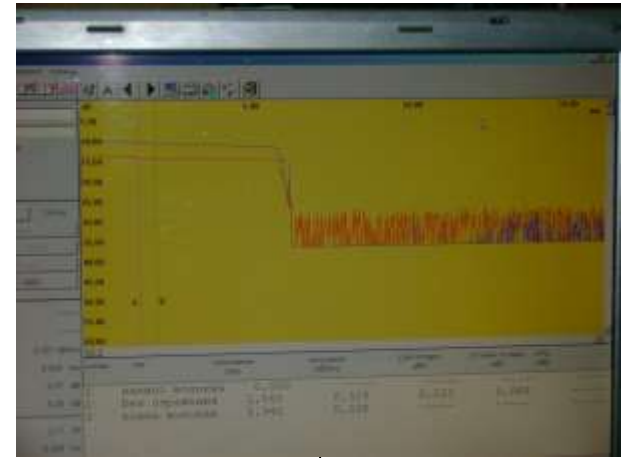
**Development of Designs and Innovative Technologies for the Manufacture of**

**Modern Electrical Insulation, Cable and Fiber Optic Systems Implementation, Installation and Operation of High-Tech Efficient Electrical Insulation, Cable and Fiber Optic Systems for the Power Industry**

**An innovative approach to learning and tradition guarantee the acquisition of basic and professional knowledge.**



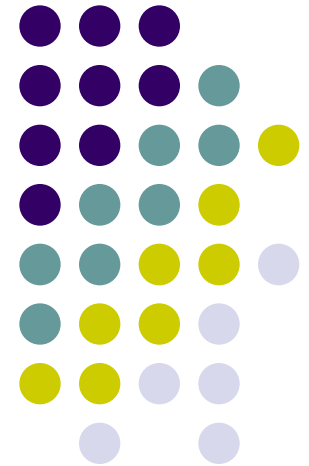
**Our graduates work at:**



- Companies for the production of electrical insulation, cable and optical systems
  - Power Grid Companies
  - Repair companies electrical equipment of power plants and substations
  - Research institutes of electrical insulating and cable industry
  - Installation Companies
- Cable and Electrical Insulation Systems of Renewable Energy**

**Для добавления текста**

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# Master's Degree in *Electroinsulating, Cable and Fiber Optic Technique*



**Master's educational program:**



**High-voltage Electrical Insulation Systems**

**Physical Basics of Fiber Optic Technique**

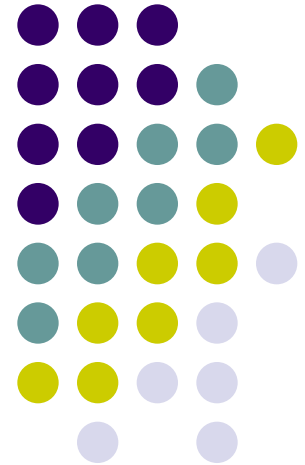
**Electromagnetic and Thermophysical Processes in Electrical Insulating and Cable Systems**

**Testing Techniques for Electrical Insulation, Cable and fiber Optic Systems**

**Information Technology in Electrical Insulation, Cable and Fiber Optic Technology**

**Equipment of Modern Electrical Insulation Laboratories**

Для добавления текста  
ЩЕЛКНИТЕ МЫШЬЮ



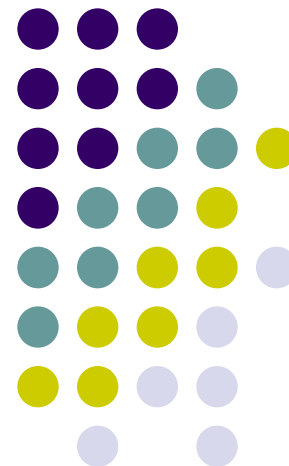


*Areas of knowledge application:*



**Диагностика современных высоковольтных электрических изолирующих систем**  
**Разработка и внедрение волоконно-оптических кабельных систем для создания цифровой интеллектуальной инфраструктуры электрических сетей и мониторинга технического состояния существующего электрического оборудования на основе анализа глобальных инновационных тенденций**  
**Программирование общих и специальных испытаний с применением современных технических средств для измерения параметров электрических изолирующих и кабельных систем**  
**Системный подход к проектированию и внедрению современных комбинированных волоконно-оптических кабельных систем и электрических изолирующих систем с применением современных информационных и компьютерных технологий**  
**Принципы организации работы электрических изолирующих лабораторий с высокими стандартами безопасности, гибкая система для изготовления технического оборудования, программного обеспечения и автоматизированной системы управления**

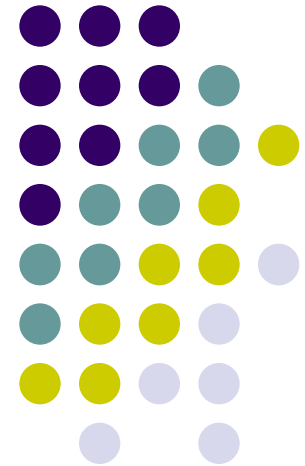
**Для добавления текста  
ЩЕЛКНИТЕ МЫШЬЮ**



**Actively adapted technology of “blended” training allows you to perform course projects with game design elements, carry out an experimental part of research work on modern technological equipment, master information technologies and implement real graduation projects in the production of electrical and electric power companies of the educational cluster**

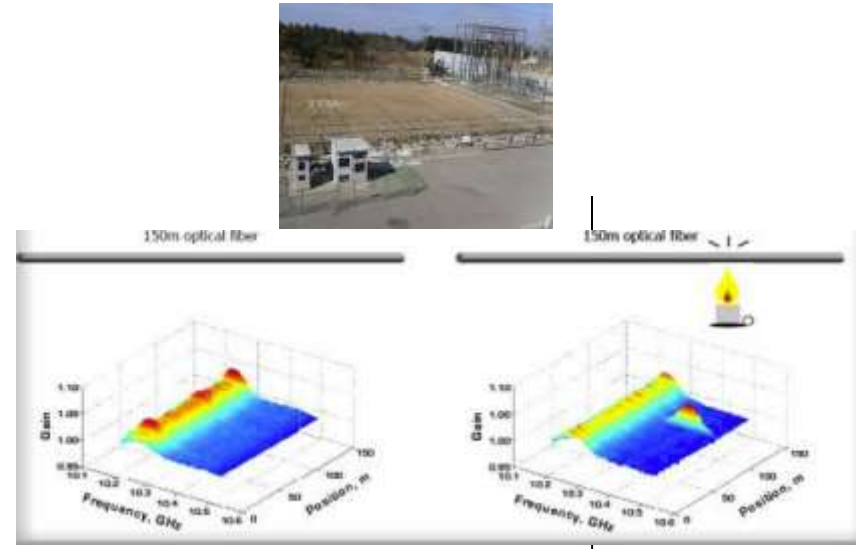


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**Electroinsulating, cable and fiber optic technique is an established, decades-tested and tested integrated approach combining theoretical and practical professional knowledge in the development and implementation of new designs and systems, high-performance technologies**





- Graduates of the our *Specialization* successfully work as
- Technologists
- Designers
- Chief Engineers for the installation, installation and operation of modern electrical insulation, cable and fiber optic systems
- Sales Managers of electrical insulation, cable and fiber optic systems

Для добавления  
Щёлкните мышью

