

*Optical and optoelectronic devices department* prepare the specialists on three standards of studying:

*speciality* **Bachelor Degree Program on 6.051004 "Optotechnics"**

, *Specialist (Engineer) Degree Program on specialities*  
**7.05100405 "Optical and optoelectronic devices"**

and  
**7.05104403 "Photonics and optoinformatics"**

, *Master Degree Program on specialities*  
**8.05100405 "Optical and optoelectronic devices"**

and  
**8.05104403 "Photonics and optoinformatics"**

,- as well as specialists of the higher skills:  
*Candidate (PhD) and Doctor of Science (DSc).*

The students of the department, having successfully graduated the Masters or Specialists training courses, can enter the Magistracy (PhD courses) on a competitive basis by integrated rating, with recommendations of the department taking into account.

Today nearly 300 students are trained at the department, many from them being foreign.

The unique programs are highly multi-disciplinary and are supported by a wide variety of advanced courses and research in both fundamental and applied subjects. The aim is to provide a basic education in instrumentisation which enables future graduate to perform completely as an instrument technician.

## Optical and optoelectronic devices department

Written by Administrator

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The educational process at the department is constantly supplied with all necessary textbooks and manuals, methodic materials, hardware and software developed by the employers of the department.

The education is conducted in the form of the subsequent step teaching, in accordance with the education system established in European Higher institutions. The application of the European credit point transfer system (ECTS) allows completing the program parts abroad.

The students receive fundamental training on designing and "know-how" of various optical and optoelectronic instruments and devices; on using modern methods of searching for the technical solutions, methods of the theoretical and experimental researches; on programming on computers, mathematical modelling, basic knowledge of patent and license work; manufacture organization, economy, fundamentals of production management and marketing.

Graduates obtain profound knowledge in mathematics, physics, theory of radiation, solid state physics, electronics, material science, numerical methods, calculations by using computers. Attending courses on specialization disciplines in the department laboratories develops practical experience.

During practical classes students are trained in all kinds of optics and optoelectronic domains. Later on they are to use the acquired theoretical knowledge to handle these projects at a professional level.

For graduate students the courses offered include geometrical and physical optics, theory of optical systems, lens and system design, quantum optics, laser optics, nonlinear optics, infrared optics, optical engineering, diffractive and Fourier optics, optical measurement, optical information processing, optical fibres and communications, biophotonics, optoelectronic systems, sources and detectors of optical radiation, optical measurements, holography, spectroscopy, integrated optics, physics and technology of optical materials, physics of technological processes.

**Address:**

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For mailing: Ukraine Kyiv 03056 prospekt Peremohy 37

For visiting: Borschagovskaya street 122, bld. 21, apt.704

e-mail: [info@ooep.ntu-kpi.kiev.ua](mailto:info@ooep.ntu-kpi.kiev.ua)

web-site: [http://ooep.kpi.ua/index\\_e.html](http://ooep.kpi.ua/index_e.html)

Office: +38 (044) 454-94-77

Head of the department: +38 (044) 241-77-00