

APPLIED OPTICS (2024)

120 credits

Professional training

Mandatory courses

- Optical System Design-1
- Optical System Design-2
- Composing and Optical System Design
- Digital Signal Processing in Optoelectronics
- Sources and Receivers of Optical Radiation
- Testing Methods for Optical Elements and Systems
- Design of Optical Devices and Systems-1
- Design of Optical Devices and Systems-2
- CALS Strategy in Optical Engineering
- Methods and Means of Colorimetry
- Optical Image Modeling
- Methods and Means of Videomatics
- Instrumental Optics
- Wave optics
- Photonics
- Image Processing

1, 2, 3, 4 semesters

48 credits

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Fundamental training

- Creative Technologies
- Entrepreneurship
- Thinking
- Applied Artificial Intelligence
- Foreign Language
- Soft Skills

1, 2, 4 semesters

18 credits

Practical training

- Research Internship
- Industrial, Professional Internship
- Pre-graduation Internship
- Preparation for Thesis Defense and Thesis Defense

1, 2, 3, 4 semesters

54 credits

Optional courses (in English)

- Soft Skills elective micromodules (Mediation and Dispute Resolution, Art & Math of Decision Making, Stress Management, Empathy and Non-Violent Communication, Pitches and Speeches, Evidence-Based Approach to Career Management, Launching and Relaunching Your Career, etc.)

1, 4 semesters