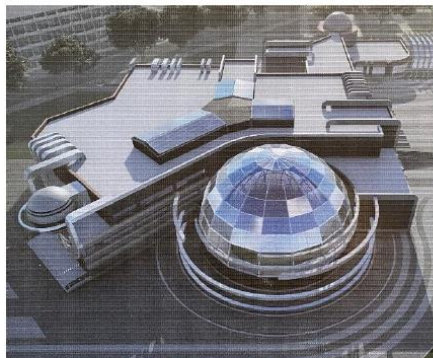


The Department of Urban Planning
offers Bachelor's and Master's degree programmes in Urban Planning and Development
Mode of Study: Full-time

Graduates from a Bachelor's degree programme may find employment in :

- area planning
- urban development zoning
- civil, structural, architectural engineering and construction



Bachelor's degree graduates are qualified to work as :

- architects
- architectural and urban space designers
- town planners
- urban designers
- landscape architects
- urban development specialists
- area transportation development specialists
- environmental engineers in urban planning
- sociologists in urban planning, etc.



Graduates from a Master's degree programme may pursue careers in the fields of :

- critical analysis of problematic situations based on the systematic approach
- provision of expert opinion on issues related to the quality of urban planning
- project management during the entire lifecycle of a project
- creation of concept urban planning projects and urban planning artworks
- preparation and presentation of urban planning documentation using innovative methods of urban planning and design
- comprehensive and basic scientific research
- presentation of research results to the scientific community and the public and many others

Master's degree graduates are qualified to work as :

- heads of institutions, organisations and companies
- heads of departments in construction companies
- heads of research and development units
- chief urban planners
- expert sociologists in urban planning
- expert environmental engineers in urban planning
- area transportation development experts
- expert economists in urban planning, etc

Master's degree graduates may progress to earn a research degree in Architecture of Buildings and Structures

Mode of Study: full-time (3 years), extramural (4 years)

For further information, visit the Vernadsky CFU website <http://cfuv.ru>

Department of Urban Planning

Email us at grado1000@mail.ru

V.I. Vernadsky Crimean Federal University
Academy of Construction and Architecture

**Department of Water Supply and
Wastewater and Sanitary Engineering**

The Department offers Bachelor's and Master's degree programmes in Water and Wastewater Engineering

Duration: Bachelor's degree – 4 years

Master's degree – 2 years



Graduates from these programmes may find employment in:

- Water and sewerage service providing companies, construction firms
- Industrial and agricultural companies
- Research and science institutions
- National, regional and local government agencies

They are prepared for a variety of careers in the fields of:

- Water and wastewater treatment facilities engineering, water supply and sewerage systems engineering
- Development and implementation of hardware and software solutions, and automation systems for water and wastewater treatment facilities
- Research and development of innovative technologies and efficient techniques for water supply and sewerage

The Bachelor's degree programme is open to anyone who has completed general secondary or vocational secondary education.

Successful completion of a Bachelor's or Specialist's degree programme in any field of study is a prerequisite for admission to the Master's degree programme.

Possible career options include:

- ✳ Chief Engineering Officer / Chief Technology Officer
- ✳ Head of Department / Unit / Service / Facility
- ✳ Chief of Production
- ✳ Laboratory Head / Head of Quality Inspection Department
- ✳ Technologist
- ✳ Research Fellow
- ✳ University Lecturer

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V.I. Vernadsky Crimean Federal University
Academy of Construction and Architecture
Department of Construction Engineering
and Materials Engineering

The Department offers Bachelor's and Master's degree programmes
in Technology and Use of Building Materials, Products and Structures

Duration: Bachelor's degree – 4 years

Master's degree – 2 years

Graduates from these programmes may find employment in:

- ◆ Companies in the construction and building materials manufacturing industry
- ◆ Design and engineering organisations
- ◆ Research and science institutions
- ◆ Higher education institutions

They are prepared for a variety of careers in the fields of:

- ◆ Development of resource and energy saving and environmentally sound technologies for the construction industry
- ◆ Development of next-generation building and construction materials with set physical properties using modern computer technologies
- ◆ Handling operational activities of construction industry companies
- ◆ Innovations in the construction industry
- ◆ Environmental management in the construction industry
- ◆ Recycling of industrial waste into building and construction materials
- ◆ Computer simulation of construction processes and operations

Possible career options include:

- ◆ Industrial Engineer
- ◆ Head of Department / Unit / Service / Facility
- ◆ Laboratory Head / Head of Quality Inspection Department
- ◆ Structural Design Engineer / Structural Engineer
- ◆ Research Fellow
- ◆ University Lecturer

The Bachelor's degree programme is open to anyone who has completed general secondary or vocational secondary education.

Successful completion of a Bachelor's or Specialist's degree programme in any field of study is a prerequisite for admission to the Master's degree programme.

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V.I. Vernadsky Crimean Federal University
Academy of Construction and Architecture
Department of Structural Engineering

*The Department offers Bachelor's and Master's degree programmes
in Civil Engineering and in Theory of Civil and Structural Engineering*

*Duration: Bachelor's degree – 4 years
Master's degree – 2 years*



Graduates from these programmes may find employment in:

- ◆ Companies in the construction and building materials manufacturing industry
- ◆ Design and engineering organisations
- ◆ Research and science institutions
- ◆ Higher education institutions

They are prepared for a variety of careers in the fields of:

- ◆ Resource and energy saving and environmentally sound capital construction projects
- ◆ Development of next-generation project designs using BIM technologies
- ◆ Maintenance of buildings and civil facilities
- ◆ Innovations in the construction industry
- ◆ Structural safety and survivability of buildings and civil facilities
- ◆ Computer simulation of lifecycle of buildings and civil facilities

The Bachelor's degree programmes are open to anyone who has completed general secondary or vocational secondary education.

Successful completion of a Bachelor's or Specialist's degree programme in any field of study is a prerequisite for admission to the Master's degree programmes.

Career Opportunities:

- ◆ Structural Design Engineer / BIM Engineer
- ◆ Project Manager
- ◆ Quality Assurance / Quality Control Engineer
- ◆ Head of Department / Unit / Service / Facility
- ◆ Laboratory Head / Head of Quality Inspection Department / Head of Occupational Safety and Health Department
- ◆ Research Fellow
- ◆ University Lecturer

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V.I. Vernadsky Crimean Federal University

Academy of Construction and Architecture

Department of Heat and Gas Supply and Ventilation

The Department offers Bachelor's and Master's degree programmes in Heat and Gas Supply and Ventilation



Duration: Bachelor's degree – 4 years

Master's degree – 2 years

Graduates from these programmes may find employment in:

- Companies in the construction industry; heating / gas supply / ventilation / air-conditioning / boiler services providers
- Heating / gas supply / ventilation / air-conditioning systems design and engineering companies
- Research and science institutions dealing with topics related to thermal insulation of buildings and structures / noise, dust and gas pollution / heating, ventilation, air-conditioning, heat and gas supply systems
- Higher education institutions delivering programmes in engineering

They are prepared for a variety of careers in the fields of:

- Development of resource and energy saving and environmentally sound technologies for the construction industry and engineering systems
- Development of modern computer-based systems for heat and gas supply, ventilation, heating, air-conditioning, boiler stations, vent emissions and heat pollution control facilities
- Handling operational activities of construction industry companies and services providers in housing and utilities / installation and maintenance of ventilation systems, pollution treatment systems, air-conditioning systems, boiler unit equipment, heat and gas supply networks
- Innovations in the construction industry and engineering systems
- Protection of the environment from heat, noise, dust, and gas pollution
- Thermal recycling of domestic and industrial waste
- Computer simulation of engineering systems processes and operations

Career Opportunities:

- ✱ Heat and Gas Supply Systems Engineer / Ventilation and Air-Conditioning Systems Engineer / Test and Balance Engineer
- ✱ Head of Department / Unit / Service / Facility
- ✱ Laboratory Head / Head of Quality Inspection Department
- ✱ Structural Design Engineer / Structural Engineer
- ✱ Head of Heat and Gas Supply / Ventilation Services Provider
- ✱ Research Fellow
- ✱ University Lecturer

The Bachelor's degree programme is open to anyone who has completed general secondary or vocational secondary education.

Successful completion of a Bachelor's or Specialist's degree programme in any field of study is a prerequisite for admission to the Master's degree programme.

Master's degree graduates may progress to the research degree programme also offered by the Department.

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V.I. Vernadsky Crimean Federal University
Academy of Construction and Architecture
Department of Construction Technology,
Organisation and Management



The Department offers Bachelor's and Master's degree programmes in Real Estate Survey and Administration

Duration: Bachelor's degree – 4 years; Master's degree – 2 years

These programmes are a fusion of engineering, economic, legal, environmental and managerial disciplines related to construction, operation and maintenance of real estate properties.

Graduates from these programmes may find employment in:

- Governmental agencies regulating real estate investments and development
- Governmental agencies in charge of public property
- Housing and utilities companies
- Investment / development / consulting / construction companies
- Surveying companies
- Real estate agencies
- Valuation and insurance companies
- Marketing departments at investment funds and mortgage banks

They are prepared for a variety of careers in the fields of:

- Real estate investments and development
- Contracting and construction management
- Comprehensive real estate survey, including technical and engineering evaluation
- Administration of properties of various use at any stage of their life cycle
- Real estate valuation
- Property operation and maintenance
- Proof engineering
- Construction project cost management
- Design management, design appraisal, construction project consulting
- Management of contractual relationships in construction projects

The Bachelor's degree programme is open
to anyone who has completed general
secondary or vocational secondary education.

Possible Career Opportunities:

- Design and Estimation Engineer
- Real Estate Property Valuation and Administration Engineer
- Real Estate Property Survey Engineer
- Buildings and Structures Operation and Maintenance Engineer
- Head of Department / Unit / Service / Facility at a Construction Company
- Head of Capital Projects Department

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V.I. Vernadsky Crimean Federal University
Academy of Construction and Architecture
Department of Construction Technology,
Organisation and Management



The Bachelor's degree programme is open to anyone who has completed general secondary or vocational secondary education.

Successful completion of a Bachelor's or Specialist's degree programme in any field of study is a prerequisite for admission to the Master's degree programme.

*The Department offers an English-taught
Bachelor's degree programme in Civil Engineering*

Duration: 4 years

Graduates from this programme may find employment in:

- Companies in the construction and building materials manufacturing industry
- Design and engineering organisations
- Research and science institutions
- Higher education institutions

They are prepared for a variety of careers in the fields of:

- Resource and energy saving and environmentally sound capital construction projects
- Development of next-generation project designs using BIM technologies
- Maintenance of buildings and civil facilities
- Innovations in the construction industry
- Structural safety and survivability of buildings and civil facilities
- Computer simulation of lifecycle of buildings and civil facilities

Career Opportunities:

- ✱ Structural Design Engineer / BIM Engineer
- ✱ Project Manager
- ✱ Quality Assurance / Quality Control Engineer
- ✱ Head of Department / Unit / Service / Facility
- ✱ Laboratory Head / Head of Quality Inspection Department / Head of Occupational Safety and Health Department
- ✱ Research Fellow
- ✱ University Lecturer

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V.I. Vernadsky Crimean Federal University
Academy of Construction and Architecture
Department of Environmental and Water Engineering

*The Department offers Bachelor's and Master's degree programmes
in Environmental Engineering and in Facilities Engineering*

*Duration: Bachelor's degree – 4 years
Master's degree – 2 years*



Graduates from these programmes may find employment in:

- Water industry companies
- Design and engineering organisations
- Research and science institutions
- Higher education institutions

They are prepared for a variety of careers in the fields of:

- Engineering surveying and investigations
- Technical and environmental evaluation of water facilities
- Monitoring of environmental and water facilities operations
- Engineering of facilities and structures for: land restoration and reclamation / coast protection and shoreline stabilisation / mudflow and flood protection
- Innovations in water engineering
- Water facilities sustainability assessment and maintenance

The Bachelor's degree programmes are open to anyone who has completed general secondary or vocational secondary education.

Successful completion of a Bachelor's or Specialist's degree programme in any field of study is a prerequisite for admission to the Master's degree programmes.

Possible career options include:

- ✱ Industrial Engineer / Process Engineer
- ✱ Head of Department / Water Engineer
- ✱ Chief of Production
- ✱ Laboratory Head / Head of Quality Inspection Department
- ✱ Structural Design Engineer / Structural Engineer
- ✱ Research Fellow
- ✱ University Lecturer

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