

# CATALOGUE OF EDUCATIONAL PROGRAMS / 目錄 教育 產品

## MASTER DEGREE PROGRAMS / 碩士學位課程



2017



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# APPLIED MATHEMATICS AND INFORMATICS

## 應用數學與資訊學

### FIELD OF STUDY / 學科領域

01.04.02 «APPLIED MATHEMATICS AND INFORMATICS» / 應用數學與資訊學

### FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

VLADIMIR P. RADCHENKO

Head of «Applied Mathematics and Informatics» Department,  
Professor, Dr. of Physical and Mathematical Sciences

Length of Schooling / 學制長度:  
**2 YEARS OF FULL-TIME STUDY /**  
2年全職學習

ENROLLMENT  
REQUIREMENTS /  
入學要求 (入學考試):

Comprehensive testing  
on core subjects. /  
核心科目綜合測驗

### PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- MSc students trained in «Applied Mathematics and Informatics» have the opportunity to continue their education in postgraduate school
- «Applied Mathematics and Informatics» department provides the following PhD programs:
  - in the field of Mathematics and Mechanics: «Fracture Mechanics», «Differential equations, dynamical systems, and optimal control»;
  - in the field of Computer Science and Engineering: «Mathematical modeling, numerical methods and complexes of programs».
- Research work of MSc students is implemented in the framework of such scientific fields as «Mathematical Modeling», «Computational methods», «Mathematical Methods in Economics» and others.
- 本方案“應用數學和資訊學”培訓的科學碩士(MSc)學生有機會繼續在研究所學習
- “應用數學和資訊學”系提供以下博士課程：
  - 在數學和力學領域：“斷裂力學”，“微分方程、動力系統和最優控制”；
  - 在計算機科學與工程領域：“數學建模、數值方法和複合程式”。
- 科學碩士(MSc)學生的研究工作是在“數學建模”、“計算方法”、“經濟學數學方法”等科學領域架構下實施的

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Modern Problems of Computational and Linear Algebra  
計算和線性代數的現代問題
- Continuous and Discrete Mathematical Models  
連續和離散數學模型
- Foreign Language  
外國語文
- Mathematical Concept of Modern Science  
現代科學的數學概念
- Modern Computer Technology  
現代計算機技術
- Mathematical Models in Logistics  
物流學的數學模型
- Models and Algorithms of Information Protection  
資訊保護的模型和運算法
- Modern Approximate Analytical Methods for Solving Boundary Value Problems  
解決邊界值問題的現代近似分析方法
- Theory of Optimal Control  
最佳控制理論
- Methods and Models of System Analysis  
系統分析方法和模型
- Theory of Formal Languages and Compilation  
形式語言和彙編理論
- Nonlinear Modeling of Deformable Materials and Mechanical Systems  
可變形材料和機械系統的非線性建模
- Functional and Logic Programming Languages  
功能性和邏輯編程語言
- Models and Methods of Financial Mathematics  
金融數學模型與方法
- High-Precision Numerical Methods  
高精度數值方法
- Integrated Systems in Symbolic Mathematics  
符號數學的集成系統
- Modern Methods of Parametric Identification Based on Difference Equations  
差分方程式的參數識別的現代方法
- Mathematical Models of Dynamic Systems  
動態系統的數學模型
- Fractional Calculus in Problems of Mathematical Modeling of Dynamic Processes  
動態過程數學建模問題的分數微積分
- Problems with Shift for Partial Differential Equations  
偏微分方程式的移位問題
- Stochastic Boundary Value Problems of Rheology and Reliability of Structural Elements  
流變學的隨機邊界值問題與結構元素的可靠性
- Boundary Problems for Partial Differential Equations with Discontinuous Coefficients  
具不連續係數的偏微分方程式的邊界值問題
- Perturbation Methods in Mathematical Modeling  
數學建模的擾動方法
- Methods for Studying Stability of Systems  
研究系統穩定性的方法

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

443100, Samara, Molodogvardeyskaya street, 244, main building

Phone: +7 (846) 278-43-71, e-mail: [international.samgtu@gmail.com](mailto:international.samgtu@gmail.com), web-page: [www.samgtu.com](http://www.samgtu.com)

# MODERN METHODS OF SYNTHESIS AND ANALYSIS OF ORGANIC SUBSTANCES

## 現代合成和有機物分析法

FIELD OF STUDY / 學科領域

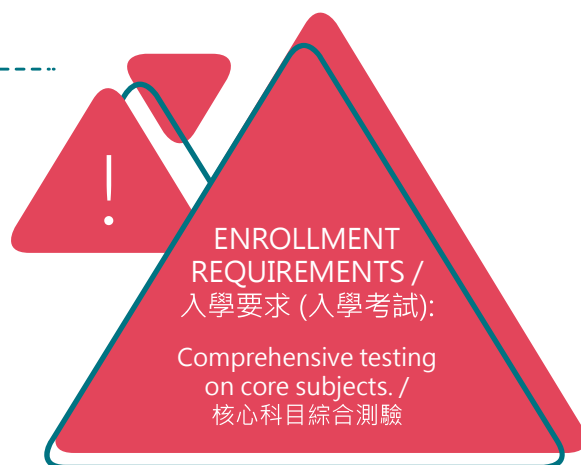
04.04.01 «CHEMISTRY» / 化學

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

YURIY N. KLIMOCHKIN

Head of «Organic Chemistry» Department, Professor, Dr. of Chemical Sciences

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY /  
2年全職學習



PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- It is planned to invite the leading foreign and Russian scientists from universities and partner organizations to deliver lectures.
- 計劃邀請來自大學和合作夥伴組織的領先外國和俄羅斯科學家提供講座。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Philosophical Problems of Chemistry  
化學的哲學問題
- Computer Technologies in Science and Education  
科學與教育的計算機技術
- Physical Methods of Research  
研究的物理方法
- Man-Made Systems and Environmental Risk  
人為系統與環境風險
- Programming and Numerical Methods  
編程和數值方法
- Stereochemistry  
立體化學
- Biochemistry  
生物化學
- Basics of Molecular Biology  
分子生物學基礎
- Actual Problems of Modern Chemistry  
現代化學的實際問題
- Selected Chapters of Organic Chemistry  
有機化學選篇
- Use of Spectroscopy of Nuclear Magnetic Resonance in Organic Chemistry  
有機化學之核磁共振光譜學
- Chemistry of Heterocyclic Compounds  
雜環化合物化學
- Chemistry Alicyclic and Cage Compounds  
化學脂環族和籠化合物
- Analysis and Quality Control of Medicines  
藥品分析與品質控制
- Introduction to the Technology of Drugs  
藥物科技介紹
- Biocenosis and Ecotoxins  
生物群落與生態毒素
- Chemistry of Natural Organic Compounds  
天然有機化合物化學
- Bioorganic Chemistry  
生物有機化學
- Modern Techniques and Organic Synthesis Strategy  
現代技術與有機合成策略
- Pharmaceutical Chemistry  
藥物化學
- Catalytic Methods in Organic Chemistry  
有機化學催化方法
- Development of New Drugs  
新藥開發
- Chemistry of Organometallic Compounds  
有機金屬化合物化學
- Chemicals of Pharmaceutical Intermediates  
醫藥中間體之化學品

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# ARCHITECTURAL ENGINEERING

## 建築工程

FIELD OF STUDY / 學科領域

07.04.01 «ARCHITECTURE» / 建築學

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

VICTOR P. GENERALOV

Head of «Architecture of Residential and Public Buildings» Department, Professor, PhD

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY /  
2年全職學習

ENROLLMENT  
REQUIREMENTS /  
入學要求 (入學考試):

Creative examination (building  
parti diagram on the given topic)

創意考試(給定主題的建築模式圖)

### PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- Work during preparation of master's theses create conditions for cooperation with strategic partners in the field of research and methodical work, modernization of the research activities, expansion of research scope required for the region. It reveals the conditions for training highly qualified personnel for the educational institutions and development of scientific research in the field of architecture. Innovative educational technologies based on new interactive teaching methods can be used. It increases integration of architectural objects in the existing architectural environment in master studies.
- 在碩士論文準備期間，學生為以下情況創造條件，包括研究和系統工作領域的策略夥伴合作、研究活動現代化、擴大該地區所需的研究範圍。方案揭示為教育機構培養高素質人才和發展建築領域科學研究的條件。可以使用基於新的交互式教學方法的創新教育技術。方案增加了建築物在現有建築環境主研究中的集成。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Philosophy and Methodology of Scientific and Project Activities  
科學和專案活動之哲學和方法論
- Design and Research in Architecture (2nd level)  
建築之設計與研究 (二級)
- Actual Problems of Architecture History and Theory  
建築歷史與理論之實際問題
- Professional Architectural Practice  
專業建築實踐
- Theory and Methodology of Architectural Education  
建築教育之理論與方法
- Business Foreign Language  
商業外語
- Analytical Methods of Structure Research and Modeling in Architectural and Urban Design  
建築與城市設計的結構研究與建模之分析方法
- New Typology in Architecture of Residential and Public Buildings  
住宅和公共房屋的建築之新類型學
- Social and Environmental Problems of Architecture in the Context of Sustainable Development  
可持續發展背景下建築之社會和環境問題
- Regulatory Design Aspects in Terms of Reconstruction  
重建中的監管設計面向
- Conceptual Designs and Facilities of Modern Architecture and Urban Planning  
現代建築和城市規劃之概念設計和設施
- Methodology of Residential Environment Architectural and Planning Organization  
住宅環境建築與規劃組織之方法論
- Architectural Engineering-C  
建築工程-C
- Architectural Engineering-D  
建築工程-D
- Modern Technologies of Underground and Surface Megapolis Space Complex Development  
地下和地表巨大空間複雜發展之現代技術
- Ways to Improve Viability of Buildings considering the Implementation of Resource-saving Technologies  
實施資源節約技術以提高建築物可行性之方法
- Design Principles of Highly Urbanized and Multifunctional Buildings and Facilities  
高度城市化和多功能建築和設施之設計原則
- Innovative Approaches in Modern Architectural Design  
現代建築設計之創新方法
- Innovative Methods of Scientific and Pre-project Research  
科學和前期專案研究之創新方法
- Latest Trends in Architectural and Constructive Design  
建築和建築設計的最新趨勢

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

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# RESTORATION DESIGN

## 修復設計

FIELD OF STUDY / 學科領域

07.04.01 «ARCHITECTURE» / 建築學

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

TATYANA V. VAVILONSKAYA

Head of «Restoration and Reconstruction of Architectural Heritage» Department, Associate Professor, PhD

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY /  
2年全職學習



PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- Training of specialists capable of solving scientific and practical problems in the field of restoration and preservation of cultural heritage and heritage management, capable of expert and educational activities in theory and history of architectural heritage restoration and reconstruction.
- The results of scientific and practical activities can be incorporated into restoration practice, as well as in international and social activities for the conservation of architectural heritage.
- 培訓能夠解決科學和實際問題的專家，領域包括文化遺產和遺產管理的修復和保存，能夠在建築遺產恢復和重建的理論和歷史上進行專家和教育活動。
- 科學和實踐活動的結果，可以納入恢復實踐及保護建築遺產的國際和社會活動。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Philosophy and Methodology of Scientific and Project Activities  
科學和專案活動之哲學和方法
- Design and Research in Architecture (2nd level)  
建築設計與研究 (二級)
- Actual Problems of Architecture History and Theory  
建築歷史與理論之實際問題
- Professional Architectural Practice  
專業建築實習
- Theory and Methodology of Architectural Education  
建築教育之理論與方法
- Business Foreign Language  
商業外語
- Analytical Methods of Structure Research and Modeling in Architectural and Urban Design  
建築與城市設計的結構研究與建模之分析方法
- History and Theory of Monuments Protection and Restoration  
紀念碑的保護與修復之歷史和理論
- Social and Environmental Problems of Architecture in the Context of Sustainable Development  
可持續發展背景下建築之社會和環境問題
- Legal and Regulatory Aspects of Design in Terms of Reconstruction  
重建的設計之法律和監管面向
- Urban Development Reconstruction  
城市發展重建
- Scientific Research Methodology in the Field of Reconstruction and Restoration  
重建和修復領域之科學研究方法
- Restoration Design-C  
修復設計-C
- Restoration Design-D  
修復設計-D
- Materials and Structures in Modern Restorative and Reconstructive Practice  
現代修復和重建實踐之材料和結構
- Restoration Technique and Technology  
修復技術和科技
- Modern Computer Technology as a Tool for Graphic Reconstruction and Systematic Research in the Field of Heritage Protection  
現代計算機技術作為遺產保護領域的圖像重建和系統研究之工具
- History of Landscape Architecture and Renovation  
景觀建築和裝修之歷史
- Organizational and Management Activities in the Field of Heritage  
遺產領域之組織和管理活動
- Economic Analysis of Buildings Restoration and Renovation  
房屋修復和裝修之經濟分析
- Modern Constructions Use in Restoration and Reconstruction  
現代建築施工用於修復和重建

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# URBAN DEVELOPMENT

## 城市發展

FIELD OF STUDY / 學科領域

07.04.01 «ARCHITECTURE» / 建築學

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

ELENA A. AHMEDOVA

Head of «Urban Development» Department, Professor, Doctor of Architecture

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY /  
2年全職學習

ENROLLMENT  
REQUIREMENTS /  
入學要求 (入學考試):

Creative examination (building  
parti diagram on the given topic)  
創意測驗 (關於給定主題的建築模型圖)

PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- Strengthening formed from the 1990s the regional school of urban planning, and strengthening inter-regional and international relations with the scientific schools of Russia and foreign research centers for urban planning.
- 強化形成從1990年代成為區域城市規劃學院，強化與俄羅斯科學院和國外城市規劃研究中心的地區間和國際關係。
- Expanding areas of research within the framework of research subject preparation and formation in priority areas of science: the rational use of natural resources and transportation systems; cognitive technologies in architecture and urban planning, etc.
- 擴大研究的領域，由研究科目編制和形成的優先科學領域內；合理利用自然資源和運輸系統、建築和城市規劃中的認知技術等。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Philosophy and Methodology of Scientific and Project Activities  
科學和專案活動之哲學和方法論
- Design and Research in Architecture (2nd level)  
建築之設計與研究 (二級)
- Actual Problems of Architecture History and Theory  
建築歷史與理論之實際問題
- Professional Architectural Practice  
專業建築實習
- Theory and Methodology of Architectural Education  
建築教育之理論與方法
- Business Foreign Language  
商業外語
- Analytical Methods of Structure Research and Modeling in Architectural and Urban Design  
建築與城市設計中結構研究與建模之分析方法
- Construction Theory of Pedestrian and Transport City Network  
行人和運輸城市網絡之建設理論
- Social and Environmental Problems of Architecture in the Context of Sustainable Development  
可持續發展背景下建築之社會與環境問題
- Regulatory Design Aspects in Terms of Reconstruction  
藉由重建的監管設計面向
- Conceptual Designs and Facilities of Modern Architecture and Urban Planning  
現代建築和城市規劃之概念設計和設施
- Redevelopment of Urban Areas  
城市區域再開發
- Urban design-C  
城市設計-C
- Urban design-D  
城市設計-D
- Development Formation Modern Tendencies of Large Cities Historic Centers  
發展形成大城市歷史中心之現代趨勢
- Information and Communication Town Framework  
資訊和通訊城架構
- Design Principles of Residential and Public Buildings with due regard to Ensuring the Environmental Availability Requirements  
住宅和公共建築的設計原則，適當考慮確保環境可用性要求
- Innovative Strategies in Contemporary Architecture and Town-planning Complex  
當代建築和城市規劃綜合體之創新策略
- Social and Cultural Factors of Architectural Activity  
建築活動之社會和文化因素
- Latest Trends in Architectural and Constructive Design  
建築和建築設計之最新趨勢

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

443100, Samara, Molodogvardeyskaya street, 244, main building

Phone: +7 (846) 278-43-71, e-mail: [international.samgtu@gmail.com](mailto:international.samgtu@gmail.com), web-page: [www.samgtu.com](http://www.samgtu.com)

# ARCHITECTURAL AND CONSTRUCTION MATERIALS SCIENCE / 建築與施工材料科學

FIELD OF STUDY / 學科領域

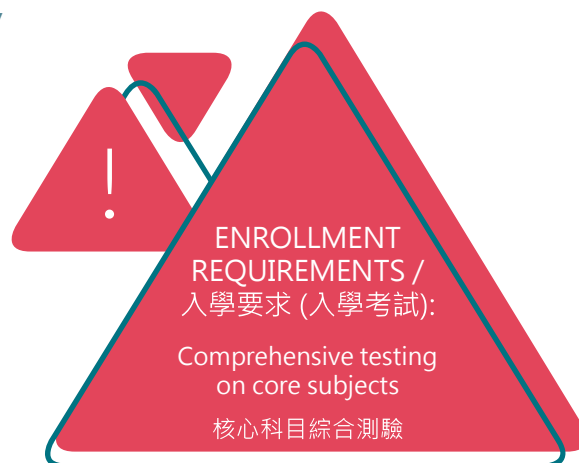
08.04.01 «CONSTRUCTION» / 建築施工

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

NATALYA G. CHUMACHENKO

Head of «Building Materials, Products and Structures Production» Department, Professor, Doctor of Technical Sciences

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY /  
2年全職學習



PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- Expansion of research topics.
- Improving the educational process.
- 擴大研究課題。
- 改善教育過程。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Philosophical Problems of Science and Technology  
科學與技術的哲學問題
- Mathematical Modeling  
數學建模
- Special Sections of Advanced Mathematics  
高級數學專題
- Scientific Research Methodology  
科學研究方法論
- Information Technology in Construction  
建築施工的資訊技術
- Business Foreign Language  
商業外語
- Methods for Solving Scientific and Technical Problems in Construction  
解決建築的科技問題之方法
- Basics of Pedagogy and Andragogy  
教育學和成人教育之基礎學
- Ecological Problems of Production and Use of Materials in Construction  
建築材料生產和使用之生態問題
- Physical and Chemical Methods of Materials Research  
材料研究之物理化學方法
- Construction Materials Basics  
建築材料基礎學
- Production Durability Problems of Building Materials and Constructions in Building Materials Technology  
建築材料和建築材料技術之生產耐久性問題
- Improving Production Technology of Building Materials and Products  
建築材料和產品之改進生產技術
- Physical and Chemical Basics of Special Purpose Materials  
特殊用途材料之物理和化學基礎學
- Research Methodology of Construction Materials  
建築材料之研究方法
- Composite Building Materials  
複合建築材料
- Nanotechnology in construction materials production  
建築材料生產之奈米技術
- Nonfired construction materials  
非燒成建築材料
- Optimization Methods of Construction Materials Production Technological Processes  
建築材料生產技術過程之優化方法
- Thermodynamics and Chemical Kinetics of Silicates  
矽酸鹽的熱力學和化學動力學

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

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Phone: +7 (846) 278-43-71, e-mail: [international.samgtu@gmail.com](mailto:international.samgtu@gmail.com), web-page: [www.samgtu.com](http://www.samgtu.com)

# BASES AND FOUNDATIONS THEORY AND DESIGN / 基礎與基礎理論和設計

FIELD OF STUDY / 學科領域

08.04.01 «CONSTRUCTION» / 建築施工

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

YURI E. SENITSKII

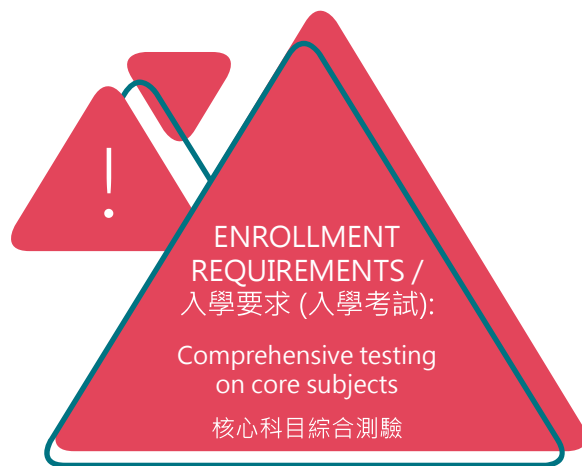
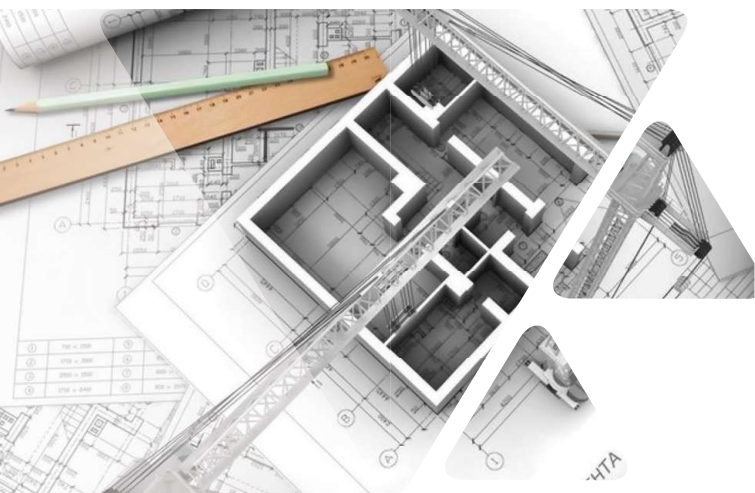
Head of «Structural Mechanics and Strength of Materials» Department, Professor, Doctor of Technical Sciences, member of the New York Academy of Sciences, Honored Scientist of Russia

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY /  
2年全職學習

ENROLLMENT  
REQUIREMENTS /  
入學要求 (入學考試):

Comprehensive testing  
on core subjects

核心科目綜合測驗



PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- Developing partnerships with leading universities in Russia to improve Masters' preparation system.
- Establishing links with national professional organizations to enhance scientific and technical training.
- Development of technical and laboratory facilities for expansion of subjects and improve the quality of scientific research.
- 與俄羅斯頂尖大學建立合作夥伴關係，以提高碩士學生預備系統。
- 與國家專業組織建立聯繫，以加強科學技術培訓。
- 發展擴大科目的技術和實驗室設備，改善科學研究的質量。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Philosophical Problems of Science and Technology  
科學與技術的哲學問題
- Mathematical Modeling  
數學建模
- Special Sections of Advanced Mathematics  
高級數學專題
- Scientific Research Methodology  
科學研究方法論
- Information Technology in Construction  
建築資訊技術
- Business Foreign Language  
商業外語
- Methods for Solving Scientific and Technical Problems in Construction  
解決建築的科技問題之方法
- Basics of Pedagogy and Andragogy  
教育學和成人教育之基礎學
- Experiment Planning  
實驗計劃
- Modern Scientific Problems of Geotechnical and Foundation Engineering  
岩土和基礎工程之現代科學問題
- Psychological Aspects of Scientific Work  
科學工作的心理面向
- Modern Calculation Methods of "Foundation-Base" Systems  
基礎系統之現代計算方法
- Effective Design of Pit Type Foundation  
坑型基礎的有效設計
- Effective Design of Pile Foundations  
樁基的有效設計
- Modern Problems in Construction Science, Engineering and Technology  
建築科學、工程與技術之現代問題
- Effective Methods of Construction Engineering Surveys  
有效建築工程之調查方法
- Underground Structures Design and Construction  
地下結構設計與施工

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

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Phone: +7 (846) 278-43-71, e-mail: [international.samgtu@gmail.com](mailto:international.samgtu@gmail.com), web-page: [www.samgtu.com](http://www.samgtu.com)

# BUILDINGS AND STRUCTURE THEORY AND DESIGN / 建築和結構理論與設計

FIELD OF STUDY / 學科領域

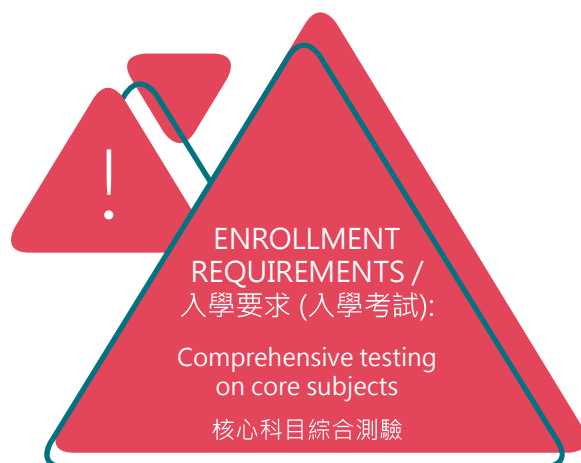
08.04.01 «CONSTRUCTION» / 建築施工

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

ALLA M. PONOMARENKO

Associate Professor of «Architecture of Residential and Public Buildings» Department, Associate Professor, PhD

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY /  
2年全職學習



PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- Training of specialists capable of solving scientific and practical problems in the field of buildings and structures integrated design. Implementation of multi-disciplinary research and collaboration with the technical and architectural professions including foreign experiences.
- 本方案能作專家培訓以解決建築物和結構一體化設計的科學和實際之問題。建立執行多學科研究及與技術和建築行業的合作，包括外國經驗。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Philosophical Problems of Science and Technology  
科學與技術的哲學問題
- Mathematical Modeling  
數學建模
- Special Sections of Advanced Mathematics  
高級數學專題
- Scientific Research Methodology  
科學研究方法論
- Information Technology in Construction  
建築資訊技術
- Business Foreign Language  
商業外語
- Methods for Solving Scientific and Technical Problems in Construction  
解決建築的科技問題之方法
- Basics of Pedagogy and Andragogy  
教育學和成人教育之基礎學
- Psychological Aspects of Scientific Work  
科學工作的心理面向
- Architectural Design Features of Residential, Public and Industrial Buildings  
住宅、公共和工業建築之建築設計特點
- Buildings Modern Typological Features  
建築之現代類型特點
- Effective Long-Span Buildings and Structures  
有效的長跨度建築物和結構
- Architectural Physics Fundamentals in Construction  
建築物理學建築基礎學
- Architecture of Energy Efficient Buildings  
節能建築之建築學
- Methods of Residential Environment Architectural and Planning Organization  
住宅環境建築與規劃組織之方法
- Modern Principles of Buildings Bearing and Enclosing Structures Design  
建築負載與圍護結構設計之現代原理
- Modern Problems in Construction Science, Engineering and Technology  
建築科學、工程與技術之現代問題
- Features of High-Rise Buildings Architectural Design  
高層建築的建築設計之特點
- Architectural Ecology  
建築生態學
- Principles of Residential and Public Buildings Design Considering Requirements of Ensuring Environment Accessibility  
考慮確保環境無障礙要求之住宅和公共建築設計的原則
- Modern Building Materials  
現代建築材料

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

443100, Samara, Molodogvardeyskaya street, 244, main building

Phone: +7 (846) 278-43-71, e-mail: [international.samgtu@gmail.com](mailto:international.samgtu@gmail.com), web-page: [www.samgtu.com](http://www.samgtu.com)

# CONSTRUCTION COMPLEX MECHANIZATION / 建築綜合機械化

FIELD OF STUDY / 學科領域

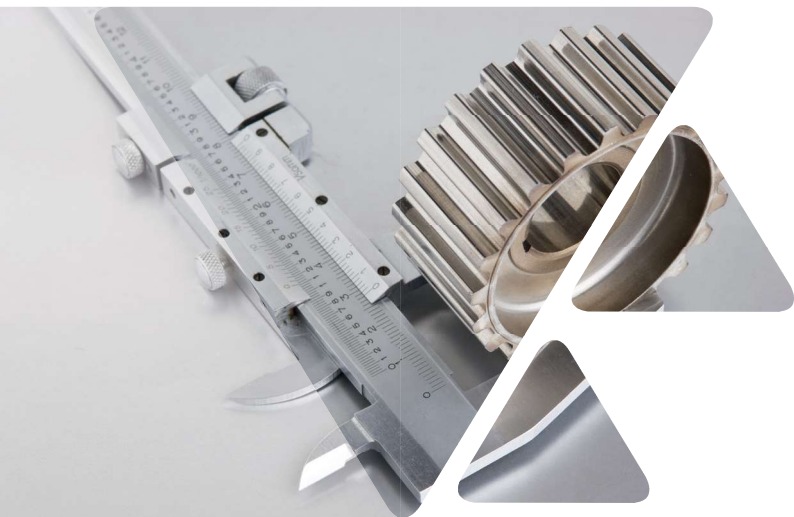
08.04.01 «CONSTRUCTION» / 建築施工

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

STANISLAV Y. GALITSKOV

Head of «Mechanization, Automation and Construction Power Supply» Department, Professor,  
Doctor of Technical Sciences

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY /  
2年全職學習



ENROLLMENT  
REQUIREMENTS /  
入學要求 (入學考試):

Comprehensive testing  
on core subjects  
核心科目綜合測驗

PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- Expansion of research topics.
- Improving the educational process.
- 擴大研究課題。
- 改善教育過程。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Mathematical Modeling  
數學建模
- Scientific Research Methodology  
科學研究方法論
- Methods for Scientific and Technical Problems Solving in Construction  
解決建築的科技問題之方法
- Basics of Pedagogy and Andragogy  
教育學和成人教育之基礎學
- Actuators Digital Control  
執行器數位控制
- Application Programming in Construction Automation Tasks  
施工自動化任務之應用程式編碼
- Educational Practice  
教育實習
- Technological Practice  
技術實習
- Information Technologies in Construction  
建築資訊技術
- Automation Systems Digital Simulation  
自動化系統數位模擬
- Construction Complex Mechanization  
建築複雜機械化
- Construction Industry Modern Machines and Equipment  
建築業現代機械設備
- Mathematical Description of Technological Processes and Industrial Plants as a Control Object  
技術過程和工業工廠作為控制對象之數學描述
- Modern Aspects of Digital Control Systems Building in Construction  
建築的數位控制系統之現代面向
- Automation of Technological Processes in Building Materials, Products and Structures Manufacture  
建築材料、產品和結構製造技術過程之自動化
- Software Control Systems  
軟體控制系統
- Engineering Experiment Methods and Techniques  
工程實驗方法與技術
- Construction Machinery and Technological Equipment Reliability  
施工機械與工藝設備之可靠性
- Philosophical Problems of Science and Technology  
科學技術的哲學問題
- Special Sections of Advanced Mathematics  
高級數學專題
- Business Foreign Language  
商業外語
- Research Work in Semester  
學期研究工作
- Research Practice  
研究實習
- Pre-graduation Practice  
畢業前實習

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

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Phone: +7 (846) 278-43-71, e-mail: [international.samgtu@gmail.com](mailto:international.samgtu@gmail.com), web-page: [www.samgtu.com](http://www.samgtu.com)

# ENERGY EFFICIENCY OF HEATING SYSTEMS / 加熱系統的能源效率

FIELD OF STUDY / 學科領域

08.04.01 «CONSTRUCTION» / 建築施工

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

ALEKSEY G. SALOV

Professor of «Heating and Ventilation» Department, Associate Professor, Dr. of Technical Sciences

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY /  
2年全職學習



PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- To develop the scientific school of the system analysis.
- To increase a publication activity through joint publications of staff and graduate students.
- 開發系統分析的科學學校。
- 藉由工作人員和研究生的聯合出版物，以增加出版活動。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Philosophical Problems of Science and Technology  
科學與技術的哲學問題
- Mathematical Modeling  
數學建模
- Special Sections of Higher Mathematics  
高等數學專題
- Scientific Research Methodology  
科學研究方法
- Information technology in Construction  
建築資訊技術
- Business Foreign Language  
商業外語
- Methods for Solving Scientific and Technical Problems in Building Industry  
解決建築的科技問題之方法
- Basics of Pedagogy and Andragogy  
教育學和成人教育之基礎學
- Simulation of Industrial Heating Systems  
工業加熱系統的模擬
- Process Improvement and Optimization of Heat Supply Systems Parameters  
供熱系統參數的過程改進與優化
- Methods and Tools for Monitoring and Measuring of Thermal Parameters  
熱參數監測和測量之方法和工具
- Ensuring Efficient and Reliable Operation of Heating Systems  
確保加熱系統的高效和可靠運行
- Methods and Controls of Heating Systems Management  
加熱系統管理的方法和控制在
- Design of Heating Systems and Accounting Systems of Power Supply Parameters  
加熱系統設計和電源參數會計系統
- Design of Intelligent Control Systems of Heat Supply of Buildings and Complexes  
建築物 and 複合體供熱智慧控制系統設計
- Improving the Management Structure of a Generated Enterprise  
生成企業管理結構的改善
- Combined-Cycle Units in Heating Systems  
加熱系統的結合循環單元
- Multi-Criteria Optimization of Operating Modes of Generating Companies  
發電企業運營模式的多準則優化
- Improving Burners of Heat Generating Units  
改進發熱單元的燃燒器
- Modelling of Processes of Generation and Transport of Heat Energy  
熱能的產生和運輸過程之建模

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

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Phone: +7 (846) 278-43-71, e-mail: [international.samgtu@gmail.com](mailto:international.samgtu@gmail.com), web-page: [www.samgtu.com](http://www.samgtu.com)

# ENERGY EFFICIENCY OF SYSTEMS ENSURING MICROCLIMATE OF BUILDINGS AND STRUCTURES

## 確保建築物和結構的微氣候系統之能源效率

FIELD OF STUDY / 學科領域

08.04.01 «CONSTRUCTION» / 建築施工

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

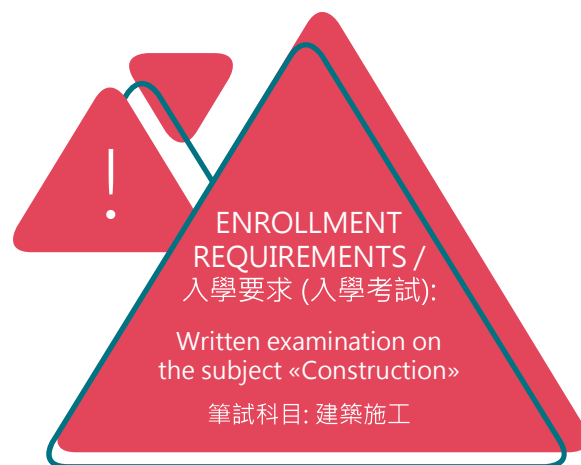
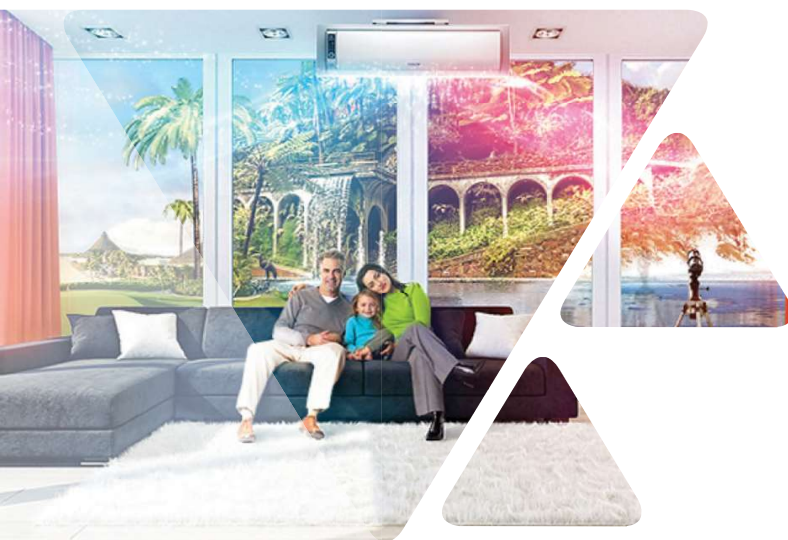
ALEKSEY G. SALOV

Professor of «Heat and Ventilation» Department, Associate Professor, Dr. of Technical Sciences

Length of Schooling / 學制長度:

2 YEARS AND 5 MONTHS OF FULL-TIME STUDY

2年5個月全職學習



PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- To develop the scientific school of numerical study of a microclimate ensuring systems.
- To increase a publication activity through joint publications of staff and graduate students.
- 開發確保微氣候(microclimate)系統的數值研究科學之學校。
- 藉由工作人員和研究生的聯合出版，以增加出版活動。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Philosophical Problems of Science and Technology  
科學技術的哲學問題
- Mathematical Modeling  
數學建模
- Special Sections of Higher Mathematics  
高等數學專題
- Scientific Research Methodology  
科學研究方法論
- Information technology in Construction  
建築資訊科技
- Business Foreign Language  
商業外語
- Methods for Solving Scientific and Technical Problems in Building Industry  
解決建築工業的科技問題之方法
- Basics of Pedagogy and Andragogy  
教育學和成人教育之基礎學
- Energy-Saving Systems to Ensure the Microclimate of Buildings and Structures  
確保建築物和結構的微氣候之節能系統
- Applied Mechanics of Liquid and Gas for Energy-Efficient Resource Systems  
液體和氣體用於節能資源系統之應用力學
- Fundamentals of the Theory of Calculation of the Boundary Layer  
邊界層計算理論之基礎學
- Analytical and Numerical Methods for Solving Problems of Fluid Dynamics and Heat and Mass Transfer  
解決流體動力學、熱和質量傳遞問題之分析和數值方法
- Theory and Technique of Heating Experiment  
加熱實驗之理論與技術
- Methods and Tools of Management in Systems Ensuring Microclimate of Buildings and Structures  
確保建築物和結構微氣候的系統之管理方法和工具
- Fundamentals of Modeling of Turbulent Transport and Turbulence Measurements  
湍流傳輸和湍流測量的建模之基礎學
- Designing Energy-Efficient and Resource-Saving Air-Conditioning and Cooling Systems  
設計節能和省能的空調和冷卻系統
- Designing Energy-Efficient and Resource-Saving Ventilation Systems  
設計節能和省能的通風系統
- Fundamentals of the Theory of Similarity  
相似性理論的基礎
- Optimization of Heat and Mass Transfer Processes in Systems Ensuring Microclimate of Buildings and Structures  
系統熱和質量傳遞過程的優化以確保建築物和結構的微氣候
- Management of Intensity of the Heat Transfer and Friction Resistance in Systems Ensuring for Microclimate of Buildings and Structures  
系統傳熱和摩擦阻力的管理以確保建築物和結構的微氣候
- Modelling of heat and Mass Transfer and Fluid Dynamics Processes  
熱和質量傳遞和流體動力學過程的建模

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

443100, Samara, Molodogvardeyskaya street, 244, main building

Phone: +7 (846) 278-43-71, e-mail: [international.samgtu@gmail.com](mailto:international.samgtu@gmail.com), web-page: [www.samgtu.com](http://www.samgtu.com)

# EXPERTISE AND MANAGEMENT OF INVESTMENT AND CONSTRUCTION OF OPERATIONAL ACTIVITIES

## 投資和建設業務活動之專業技能和管理

FIELD OF STUDY / 學科領域

08.04.01 «CONSTRUCTION» / 建築施工

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

OLGA V. DIDKOVSKEYA

Head of «Value Engineering and Technical Expertise of Buildings and Structures» Department, Professor,  
Dr. of Economics

Length of Schooling / 學制長度:

2 YEARS OF FULL-TIME STUDY

2 YEARS AND 7 MONTHS OF PART-TIME STUDY

2年全職學習

2年7個月兼職學習



ENROLLMENT  
REQUIREMENTS /  
入學要求 (入學考試):

Written examination on the  
subject «Expertise and Management  
of Investment and Construction of  
Operational Activities»

筆試主題: 投資和建設業務活動之專業技  
能和管理

PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- To expand research topics and improve the educational process
- 擴大研究課題，完善教育過程

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Philosophical Problems of Science and Technology  
科學與技術的哲學問題
- Mathematical Modeling  
數學建模
- Special Sections of Higher Mathematics  
高等數學專題
- Scientific Research Methodology  
科學研究方法論
- Information technology in Construction  
建築的資訊科技
- Business Foreign Language  
商業外語
- Methods for Solving Scientific and Technical Problems in Building Industry  
解決建築工業的科技問題之方法
- Expert Methods in Investment and Construction and Operational Activities  
投資建設和運營活動之專家方法
- Evaluation of Property and Business  
財產和商業的評價
- Examination of the Quality and Efficiency of Design Solutions  
設計解決方案的質量和效率之檢查
- Contractual Relationship Management  
合同關係管理
- System of Technical Operation Management  
技術操作管理之系統
- Cost Engineering in Building Industry  
建築工業的成本工程
- Areas of Construction and Technical Expert Studies and Cost Expert Studies  
建築和技術專家研究與成本專家研究之領域
- Modern Methods of Management and Operation of Real Estate Construction  
房地產建設的管理和經營之現代方法
- Construction Audit  
建築審計
- Inspection of Technical Condition of Buildings and Structures  
建築物 and 結構的技術狀況之檢查

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

443100, Samara, Molodogvardeyskaya street, 244, main building

Phone: +7 (846) 278-43-71, e-mail: [international.samgtu@gmail.com](mailto:international.samgtu@gmail.com), web-page: [www.samgtu.com](http://www.samgtu.com)

# FACADES AND BUILDINGS INTERIORS DETAILS CONSTRUCTION / 外觀和大廈內部細節建築

FIELD OF STUDY / 學科領域

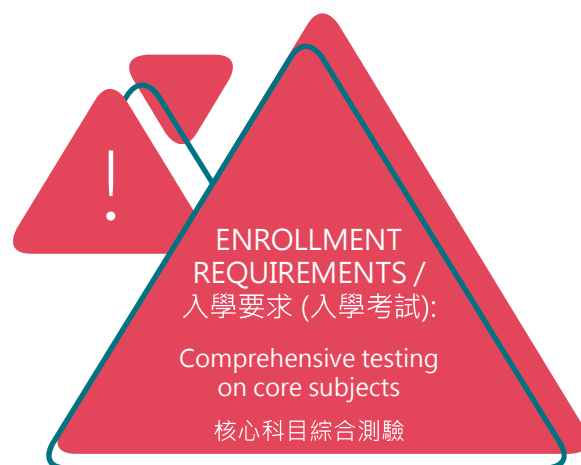
08.04.01 «CONSTRUCTION» / 建築施工

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

VITALY A. SAMOGOROV

Head of «Architecture» Department, Professor, PhD

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY /  
2年全職學習



## PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- Orientation training of Masters on the use of more advanced modern designs of facade systems and interior solutions with the assistance of the most experienced domestic and foreign architects and designers.
- Application of innovative educational technologies based on new teaching interactive methods, the priority of independent work of Masters. The implementation of a variety of scientific and industrial research and practice and training in the

development and implementation of the Masters own projects.

- 碩士學位職前訓練，在最有經驗的國內外建築師和設計師的協助下，使用更先進的外觀系統和室內解決方案的現代設計。
- 藉由新型教學互動方法及碩士獨立工作的優先，以達到創新教育技術的應用。建立執行各種科學和工業研究與實踐，訓練碩士學位自己專業的開發和實施。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Philosophical Problems of Science and Technology  
科學與技術的哲學問題
- Mathematical Modeling  
數學建模
- Special Sections of Advanced Mathematics  
高級數學專題
- Scientific Research Methodology  
科學研究方法論
- Information Technology in Construction  
建築的資訊科技
- Business Foreign Language  
商業外語
- Methods for Solving Scientific and Technical Problems in Construction  
解決建築的科技問題的方法
- Basics of Pedagogy and Andragogy  
教育學和成人教育之基礎學
- Architectural Ergonomics  
建築人體工程學
- Architectural Details Construction  
建築細節的建築
- Architectural Details in Urban Environment  
城市環境的建築細節
- Detail in Architecture  
建築學細節
- Architectural Detail in Interior  
內部的建築細節
- Building Engineering Equipment Innovations  
建築工程設備創新
- Architectural Design Innovations  
建築設計創新
- Evolution of Detail in Architecture  
建築學細節的演變
- Architectural Details Computer Modeling  
建築細節的計算機建模
- Compositional Principles of Architectural Details Design  
建築細節設計的組成原理
- Functional Principles of Architectural Details Design  
建築細節設計的功能原理
- Professional Architectural Practice  
專業建築實踐
- Material Role in Architecture  
建築的材料角色

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

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Phone: +7 (846) 278-43-71, e-mail: [international.samgtu@gmail.com](mailto:international.samgtu@gmail.com), web-page: [www.samgtu.com](http://www.samgtu.com)

# HEAT AND GAS SUPPLY OF POPULATED AREAS AND ENTERPRISES / 人口稠密地區和企業的供熱和供氣

FIELD OF STUDY / 學科領域

08.04.01 «CONSTRUCTION» / 建築施工

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

STANISLAV Y. GALITSKOV

Head of «Mechanization, Automation and Electricity Supply of Building Industry» Department, Professor,  
Dr. of Technical Sciences

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY /  
2年全職學習



ENROLLMENT  
REQUIREMENTS /  
入學要求 (入學考試):

Written examination on  
the subject «Construction»

筆試科目: 建築施工

PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- To expand research topics and improve the educational process
- 擴大研究課題，改善教育過程

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Mathematical Modeling  
數學建模
- Scientific Research Methodology  
科學研究方法論
- Methods for Solving Scientific and Technical Problems in Building Industry  
解決建築工業的科技問題的方法
- Basics of Pedagogy and Andragogy  
教育學和成人教育之基礎學
- Information technology in Construction  
建築的資訊科技
- Automatic Control Theory  
自動控制理論
- Automation of Heat Systems  
供熱系統自動化
- Scheduling of Engineering Systems of Buildings and Structures  
建築和結構工程系統的預定計劃
- Computational Model of Heat and Gas Supply Systems  
供熱系統計算模型
- Philosophical Problems of Science and Technology  
科學與技術的哲學問題
- Research Practice  
研究實習
- Research and production practice  
研究和生產實習
- Research work  
研究工作
- Mathematical Models of Heat and Energy Consumption of Buildings and Structures  
建築物 and 結構的熱能和能量消耗之數學模型
- Improvement of Burners for Combustion of Fossil Fuels  
燃燒化石燃料燃燒器的改進
- Technological Practice  
技術實習
- Experimental Methods in Life-Support Systems of Buildings and Structures  
建築物和結構的生命支持系統之實驗方法
- Process Improvement and Optimization of Heat and Gas Supply Systems  
熱和氣體供應系統之工藝改進和優化
- Reliability and Safety of Heat Systems  
供熱系統的可靠性和安全性
- Optimization of Thermal Generation Plants  
熱力發電廠的優化
- Use of Waste Energy in Heating Systems  
加熱系統中廢能的使用
- Special Sections of Higher Mathematics  
高等數學專題
- Business Foreign Language  
商業外語

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

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# HIGHWAYS THEORY AND DESIGN

## 高速公路理論與設計

FIELD OF STUDY / 學科領域

08.04.01 «CONSTRUCTION» / 建築施工

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

BORIS G. IVANOV

Head of «Highways and Geodetic Support» Department, Associate Professor, Doctor of Technical Sciences

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY /  
2年全職學習



ENROLLMENT  
REQUIREMENTS /  
入學要求 (入學考試):  
Comprehensive testing  
on core subjects. /  
核心科目綜合測驗

PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- Implementation of various forms of participation in graduate interdisciplinary research projects, in the creative intellectual and scientific activities; consolidation of talented Masters in science to further effective reproduction of scientific and pedagogical

staff; enhancing the effectiveness of program.

- 實施各種形式的參與，包括研究生跨學科研究專題、創造性的智力和科學活動；鞏固有才華的科學碩士，以進一步有效的增加科學和教學工作人員；提高計劃方案的有效性。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Philosophical Problems of Science and Technology  
科學與技術的哲學問題
- Mathematical Modeling  
數學建模
- Special Sections of Advanced Mathematics  
高級數學專題
- Scientific Research Methodology  
科學研究方法論
- Information Technology in Construction  
建築的資訊科技
- Business Foreign Language  
商業外語
- Methods for Solving Scientific and Technical Problems in Construction  
解決建築的科技問題的方法
- Economic-Mathematical Methods of Transport Constructions Designing  
交通建築設計之經濟數學方法
- Experiment Planning and Statistical Processing of Experimental Data  
實驗數據之實驗計劃和統計處理
- Traffic Law Fundamentals  
交通法規基礎
- Highways and Artificial Structures Prospective Design  
高速公路和人工結構的前瞻設計
- New Methods for Calculating Constructions of Highways and Artificial Structures  
高速公路和人工結構的計算建築之新方法
- Progressive Methods of Highways and Artificial Structures Technology and Organization  
高速公路和人工結構技術和組織之進步方法
- Monitoring of Highways and Transport Facilities  
高速公路和運輸設施的監測
- Modern Problems of Energy Saving in Highways Operation and Reconstruction  
高速公路操作與重建的節能之現代問題
- Statistical Methods for Road Products Quality Control  
道路產品質量控制之統計方法
- Assessment and Forecast of Transport Facilities Technical State  
運輸設施技術狀態之評估和預測
- Automated Artificial Structures Design Systems  
自動化人工結構設計系統
- Modern Problems of Highways and Transport Facilities Maintenance in the Region Environment  
區域環境的高速公路和交通設施維護之現代問題

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

443100, Samara, Molodogvardeyskaya street, 244, main building

Phone: +7 (846) 278-43-71, e-mail: [international.samgtu@gmail.com](mailto:international.samgtu@gmail.com), web-page: [www.samgtu.com](http://www.samgtu.com)

# HOUSING AND UTILITY SECTOR COMPLEX OPERATION 住房和公用事業部門綜合作業

FIELD OF STUDY / 學科領域

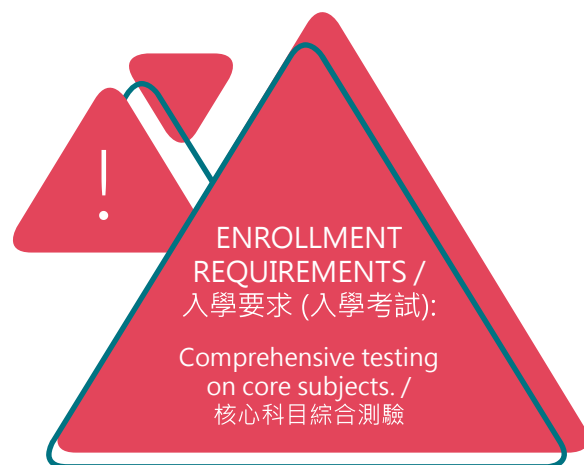
08.04.01 «CONSTRUCTION» / 建築施工

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

EVGENY E. ERMOLAEV

Head of «Urban and Construction Management» Department, Professor, Doctor of Economics

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY /  
2年全職學習



PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- Rational combination of market and state regulation in the sphere of construction and Housing and Utility Sector.
- Extensive use of strategic planning and management in the activities of Housing and Utility Sector organizations.
- Improvement of management structures due to the greater decentralization of responsibilities.
- Maximize use of innovation, economic and mathe-

matical methods in Housing and Utility Sector.  
在建築、住房和公共事業部門，合理組合市場和國家的監管法規。

- 在住房和公共事業部門組織的活動中，廣泛使用策略規劃和管理。
- 藉由更多的權力下放，以改善管理結構。
- 在住房和公用事業部門，最大限度地利用創新、經濟和數學的方法。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Philosophical Problems of Science and Technology  
科學與技術的哲學問題
- Business Foreign Language  
商業外語
- Basics of Pedagogy and Andragogy  
教育學和成人教育之基礎學
- Mathematical Modeling  
數學建模
- Special Sections of Advanced Mathematics  
高級數學專題
- Innovative Projects Management in Housing and Utility Sector  
住房和公用事業部門之創新專業管理
- Information Technologies in Construction  
建築資訊科技
- Scientific Research Methodology  
科學研究方法論
- Methods for Scientific and Technical Problems Solving in Construction  
解決建築的科學與技術問題的方法
- Innovation Theory and Methodology  
創新理論與方法論
- Fundamentals of Housing and Utility Sector Management and Regulation  
住房和公用事業部門的管理和法規之基礎學
- Organization and Control of Water and Wastewater Systems Technical Operation  
水和廢水系統技術操作之組織和控制
- Organization and Control of Power Supply Systems Technical Operation  
電源系統技術操作之組織和控制
- Organization and Control of Heat and Gas Supply Systems Technical Operation  
熱和氣供應系統技術操作之組織和控制
- Modern Water and Wastewater Systems Engineering Solutions  
現代水和污水處理系統工程解決方案
- Modern Heat Systems Engineering Solutions  
現代供熱系統工程解決方案
- Organization and Control of Energy and Resource Saving in Housing and Utility Sector  
住房和公共事業部門的能源和資源節約之組織和控制
- Innovative Technologies in Housing and Utility Sector Reconstruction and Technical Operation  
住房、公用事業部門重建和技術操作之創新技術
- Economic Evaluation of New Technical and Technological Solutions in Housing and Utility Sector  
住房和公共事業部門新技術和技術解決方案之經濟評價
- Modern Methods of Real Estate Organization and Management  
房地產組織與管理的現代方法

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

443100, Samara, Molodogvardeyskaya street, 244, main building

Phone: +7 (846) 278-43-71, e-mail: [international.samgtu@gmail.com](mailto:international.samgtu@gmail.com), web-page: [www.samgtu.com](http://www.samgtu.com)

# METAL STRUCTURES THEORY AND DESIGN

## 金屬結構理論與設計

FIELD OF STUDY / 學科領域

08.04.01 «CONSTRUCTION» / 建築施工

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

MARAT D. MOSESOV

Professor of «Metal and Wood Constructions» Department, Associate Professor, PhD

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY /  
2年全職學習

ENROLLMENT  
REQUIREMENTS /  
入學要求 (入學考試):

Comprehensive testing  
on core subjects. /  
核心科目綜合測驗



PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- Involvement in learning on Master level graduates from other fields of undergraduate training. Increase in publication activity through staff and graduate students joint publications.

- 參與其他本科培訓領域的碩士程度畢業生的學習。經由工作人員和研究生聯合出版以增加出版活動。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Philosophical Problems of Science and Technology  
科學與技術的哲學問題
- Mathematical Modeling  
數學建模
- Special Sections of Advanced Mathematics  
高級數學專題
- Scientific Research Methodology  
科學研究方法論
- Information Technology in Construction  
建築資訊科技
- Business Foreign Language  
商業外語
- Methods for Solving Scientific and Technical Problems in Construction  
解決建築的科技問題的方法
- Basics of Pedagogy and Andragogy  
教育學和成人教育之基礎學
- Experiment Planning  
實驗計劃
- Scientific Problems of Construction Economics  
建築經濟學的科學問題
- Psychological Aspects of Scientific Work  
科學工作的心理面向
- Basis for Calculation of Structures under Dynamic Loading  
動態荷載下結構計算的基礎
- Efficient Lightweight Constructions  
高效輕量結構
- Effective Spatial Constructions  
有效的空間結構
- Modern Problems in Construction Science, Engineering and Technology  
建築科學、工程與技術之現代問題
- Analytical and Numerical Methods for Mathematical Physics Solutions  
數學物理解析之分析和數值方法
- Effective Long-Span Structures  
有效的長跨度結構
- Modern Technology in Construction  
建築的現代技術
- Effective High-Rise Buildings Constructions  
有效的高樓層建築施工
- Environmental Management Fundamentals  
環境管理基礎學

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

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Phone: +7 (846) 278-43-71, e-mail: [international.samgtu@gmail.com](mailto:international.samgtu@gmail.com), web-page: [www.samgtu.com](http://www.samgtu.com)

# OPERATION OF HOUSING AND MUNICIPAL INFRASTRUCTURE 住房和市政基礎設施的運行

FIELD OF STUDY / 學科領域

08.04.01 «CONSTRUCTION» / 建築施工

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

EVGENIY E. ERMOLAEV

Head of «Urban Management and Construction» Department, Professor, Dr. of Economics

Length of Schooling / 學制長度:

2 YEARS OF FULL-TIME STUDY

2 YEARS AND 6 MONTHS OF PART-TIME STUDY

2年全職學習

2年6個月兼職學習



## PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- The rational combination of market and state regulation in the sphere of construction and the Housing and Public Utilities.
- Extensive use of strategic planning and management in the activities of Housing and Public Utilities organizations. Improving management structures due to the greater decentralization of responsibilities.
- Maximum use of innovation, economic and mathematical methods in the Housing and Public Utilities.
- 在建築領、住房和公共事業領域，合理結合市場和國家的法規。
- 在住房和公用事業組織的活動中廣泛使用戰略規劃和管理。由於更大的權力下放，改善管理結構。
- 在住房和公用事業中，最大限度地使用創新、經濟和數學方法。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Philosophical Problems of Science and Technology  
科學與技術的哲學問題
- Business Foreign Language  
商業外語
- Mathematical Modeling  
數學建模
- Special Sections of Higher Mathematics  
高等數學專題
- Basics of Pedagogy and Andragogy  
教育學和成人教育之基礎學
- Management of Innovative Projects in Housing and Utilities Complex  
住房和公用事業綜合體創新專案之管理
- Information technology in Construction  
建築資訊科技
- Scientific Research Methodology  
科學研究方法論
- Methods for Solving Scientific and Technical Problems in Building Industry  
建築工業中解決科學和技術問題之方法
- Theory and Methodology of Innovation  
創新理論與方法論
- Fundamentals of Management and Regulation of the Housing and Public Utilities  
住房和公用事業的管理和監管之基礎學
- Organizing and Managing the Technical Operation of Water and Wastewater Systems  
組織和管理水和污水處理系統的技術操作
- Organizing and Managing the Technical Operation of Power Supply Systems  
組織和管理電源系統的技術操作
- Organizing and Managing the Technical Operation of Heat and Gas Supply Systems  
組織和管理供熱與瓦斯系統的技術操作
- New Engineering Solutions for Water and Wastewater Systems  
水和污水處理系統的新工程解決方案
- New Engineering Solutions for Heat Systems  
供熱系統的新工程解決方案
- Organization and Management of Energy and Resource Saving in Housing and Public Utilities  
房屋和公用事業的能源和資源節約之組織和管理
- Innovative Technologies in Reconstruction and Technical Operation of Housing and Communal Complex  
住房和公共綜合體的重建和技術操作之創新技術
- Economic Evaluation of New Technical and Technological Solutions in the Housing Complex  
住房區新技術和技術解決方案之經濟評價
- Modern Methods of Organization and Management of Real Estate  
房地產組織和管理之現代方法

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

443100, Samara, Molodogvardeyskaya street, 244, main building

Phone: +7 (846) 278-43-71, e-mail: [international.samgtu@gmail.com](mailto:international.samgtu@gmail.com), web-page: [www.samgtu.com](http://www.samgtu.com)

# RECONSTRUCTION AND RESTORATION OF BUILDINGS AND STRUCTURES 建築物和結構的重建和修復

FIELD OF STUDY / 學科領域

08.04.01 «CONSTRUCTION» / 建築施工

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

DENIS V. LITVINOV

Associate Professor of «Restoration and Reconstruction of Architectural Heritage» Department, Associate Professor, PhD

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY /  
2年全職學習

ENROLLMENT  
REQUIREMENTS /  
入學要求 (入學考試):

Comprehensive testing  
on core subjects. /  
核心科目綜合測驗

## PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- Preparation of qualified professionals in order to preserve valuable architectural heritage of cities and monuments historical environment, preservation and development of historic city architectural appearance, recreating the historical fragments of lost monuments and their elements urban environment.
- Involvement to implementation of the program the most experienced architects-restorers.
- The development of academic mobility of Masters and teachers, creation of conditions for formation of international education model. Enhancing practical-applied orientation of training. Consideration of environmental factors in renovation and energy-saving projects in their operation.
- 準備合格的專業人員，以保護城市和古蹟的寶貴的建築遺產歷史環境，保護和發展歷史的城市建築外觀，重建歷史碎片遺失的紀念碑和他們的元素城市環境。最有經驗的建築修復師，參與程序的實施。
- 發展碩士和教師的學術流動性，創造形成國際教育模式的條件。增強培訓的實際應用導向。考慮經營中的改造和節能專案的環境因素。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Philosophical Problems of Science and Technology  
科學與技術的哲學問題
- Mathematical Modeling  
數學建模
- Special Sections of Advanced Mathematics  
高級數學專題
- Scientific Research Methodology  
科學研究方法論
- Information Technology in Construction  
建築資訊科技
- Business Foreign Language  
商業外語
- Methods for Solving Scientific and Technical Problems in Construction  
建築的科學和技術問題之解決方法
- Basics of Pedagogy and Andragogy  
教育學和成人教育之基礎學
- Restoration Methodology and Technology  
修復方法和技術
- Monuments Restoration  
紀念碑修復
- Modern Computer Technology as Tool for Graphic Reconstruction and Systematic Research in the Field of Heritage Protection  
現代計算機技術作為遺產保護領域的圖像重建和系統研究之工具
- Materials and Structures in Modern Restorative and Reconstructive Practice  
現代修復和重建實踐之材料和結構
- Legal and Regulatory Aspects of Design in Terms of Reconstruction  
重建中的設計之法律和監管面向
- Methods of Buildings and Structures Engineering Survey  
建築與結構工程調查之方法
- Modern Methods and Technologies to Enhance Structures  
加強結構的現代方法和技術
- Calculation Methods of Structures under Reconstruction  
重建結構的計算方法
- Reconstruction Economics  
重建經濟學
- Landscape Reconstruction  
景觀重建
- Engineering Infrastructure Overhaul  
工程基礎設施之檢修
- Monuments Protection  
紀念碑保護
- Urban Development Reconstruction  
城市發展重建

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

443100, Samara, Molodogvardeyskaya street, 244, main building

Phone: +7 (846) 278-43-71, e-mail: [international.samgtu@gmail.com](mailto:international.samgtu@gmail.com), web-page: [www.samgtu.com](http://www.samgtu.com)

# REINFORCED CONCRETE STRUCTURES THEORY AND DESIGN 鋼筋混凝土結構之理論與設計

FIELD OF STUDY / 學科領域

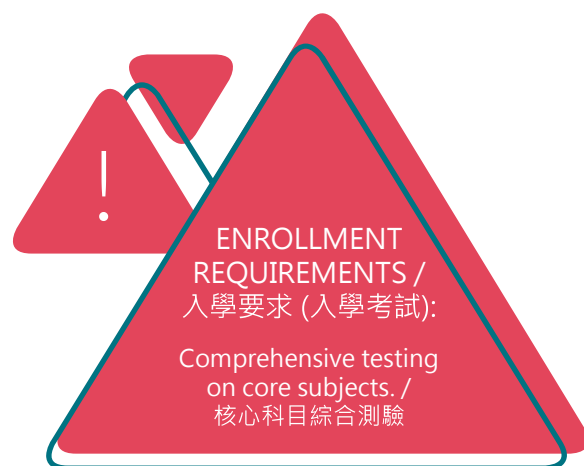
08.04.01 «CONSTRUCTION» / 建築施工

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

VALERY P. POPOV

Professor of «Building Constructions» Department, Professor, Doctor of Technical Sciences

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY /  
2年全職學習



## PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- Universalization of the continuous education process Undergraduate-Master-Postgraduate study in «Construction» related areas.
- Further development of inter-university and international partnerships.
- Promotion of Masters training among the management of medium and large businesses.
- 持續教育過程的普及化，“建築施工”相關領域的本科-碩士-碩士後研究生的學習。
- 進一步發展大學間和國際夥伴關係。在大中型企業管理中，推廣碩士學生的培訓。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Philosophical Problems of Science and Technology  
科學與技術的哲學問題
- Mathematical Modeling  
數學建模
- Special Sections of Advanced Mathematics  
高級數學專題
- Scientific Research Methodology  
科學研究方法論
- Information Technology in Construction  
建築資訊科技
- Business Foreign Language  
商業外語
- Methods for Solving Scientific and Technical Problems in Construction  
建築的科學和技術問題之解決方法
- Basics of Pedagogy and Andragogy  
教育學和成人教育之基礎學
- Experiment Planning  
實驗計劃
- Optimization Scientific Problems in Construction Design  
建築設計的優化科學問題
- Psychological Aspects of Scientific Work  
科學工作的心理面向
- Basis for Calculation of Structures under Dynamic Loading  
動態荷載下結構計算的基礎學
- Efficient Lightweight Constructions  
高效輕量結構
- Effective Spatial Constructions  
有效的空間結構
- Modern Problems in Construction Science, Engineering and Technology  
建築科學、工程與技術之現代問題
- Effective High-Rise Buildings Constructions  
有效的高樓層建築施工
- Effective Underground Building Constructions  
有效的地下層建築施工

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

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Phone: +7 (846) 278-43-71, e-mail: [international.samgtu@gmail.com](mailto:international.samgtu@gmail.com), web-page: [www.samgtu.com](http://www.samgtu.com)

# SEWAGE AND WASTEWATER TREATMENT

## 污水和廢水處理

FIELD OF STUDY / 學科領域

08.04.01 «CONSTRUCTION» / 建築施工

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

ALEKSANDR K. STRELKOV

Head of «Water Supply and Sanitation» Department, Professor, Doctor of Technical Sciences

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY /  
2年全職學習

ENROLLMENT  
REQUIREMENTS /  
入學要求 (入學考試):  
Comprehensive testing  
on core subjects. /  
核心科目綜合測驗

### PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- Systems of collection, disposal and treatment of wastewater, reconstruction of existing sanitation structures and wastewater treatment of cities and industrial facilities, sewerage of small residential areas.

- 廢水的收集、處置和處理系統，現有衛生設施改造和城市及工業設施的廢水處理，小型住宅區污水的處理系統。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Philosophical Problems of Science and Technology  
科學與技術的哲學問題
- Mathematical Modeling  
數學建模
- Special Sections of Advanced Mathematics  
高級數學專題
- Scientific Research Methodology  
科學研究方法論
- Information Technology in Construction  
建築資訊科技
- Business Foreign Language  
商業外語
- Methods for Solving Scientific and Technical Problems in Construction  
建築的科學和技術問題之解決方法
- Basics of Pedagogy and Andragogy  
教育學和成人教育之基礎學
- Experiment Planning  
實驗計劃
- Technological Control of Water Supply and Sanitation Facilities  
供水和衛生設施之技術控制
- Preparation and Execution of the Master's Thesis  
碩士論文之準備和執行
- Water Supply and Sanitation Modeling  
供水和衛生之建模
- Sewage Sludge Treatment and Disposal  
污水污泥處理和處置
- Special Methods of Water Preparation  
水製備的特殊方法
- Theoretical Foundations of Biological Wastewater Treatment  
生物性污水處理的理論基礎
- Water Supply and Sanitation CAD Systems  
供水和衛生之CAD系統
- Ecological Monitoring of Water Objects  
水物件的生態監測

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

443100, Samara, Molodogvardeyskaya street, 244, main building

Phone: +7 (846) 278-43-71, e-mail: [international.samgtu@gmail.com](mailto:international.samgtu@gmail.com), web-page: [www.samgtu.com](http://www.samgtu.com)

# TECHNICAL EXPLOITATION SAFETY OF BUILDING OBJECTS 建築物件的技術開發安全

FIELD OF STUDY / 學科領域

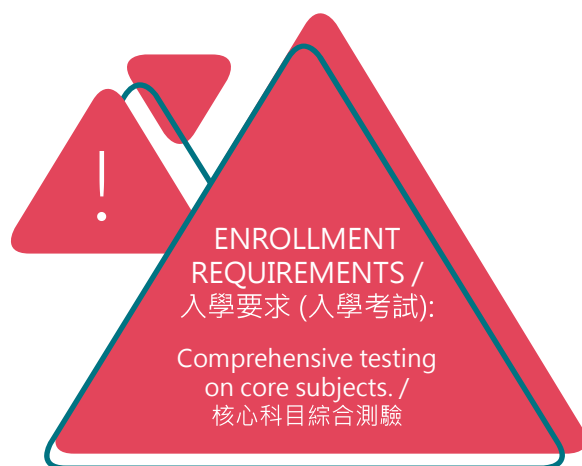
08.04.01 «CONSTRUCTION» / 建築施工

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

ALEXEY I. HLYSTOV

Professor of «Building Materials, Products and Structures Production» Department, Professor,  
Doctor of Technical Sciences

Length of Schooling / 學制長度:  
**2 YEARS OF FULL-TIME STUDY /**  
2年全職學習



PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- Advanced understanding of diagnostics of building objects technical condition will streamline work of public utility services, capital construction department, management companies to reduce losses in the long-term operation of the construction fund.
- 對建築物件的技術條件診斷之深入理解，將簡化以下工作，包括公用事業服務、基本建設部門、管理公司的工作，以減少建設基金長期運營中的損失。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Philosophical Problems of Science and Technology  
科學與技術的哲學問題
- Mathematical Modeling  
數學建模
- Special Sections of Advanced Mathematics  
高級數學專題
- Scientific Research Methodology  
科學研究方法論
- Information Technology in Construction  
建築資訊科技
- Business Foreign Language  
商業外語
- Methods for Solving Scientific and Technical Problems in Construction  
建築的科學和技術問題之解決方法
- Basics of Pedagogy and Andragogy  
教育學和成人教育之基礎學
- Diagnostics of Buildings and Facilities Technical Conditions  
建築物和設施的技術狀況之診斷
- Experiment Planning and Statistical Processing of Experimental Data  
實驗數據之實驗計劃和統計處理
- Buildings and Facilities Technical Operation  
建築物 and 設施之技術操作
- Strengthening, Renovation and Reconstruction Works Features  
加強、改造和重建工程之特點
- Monitoring Safety of Building Constructions during Operation  
建築物施工在運行期間之安全監測
- Building Structures Reinforcement and Restoration  
建築結構加固和修復
- Experiments Organization and Conducting  
實驗組織與實施
- Building Fund Technical Condition Monitoring  
建築基金技術狀況監測
- Buildings and Facilities Reconstruction Basics  
建築和設施重建基礎學
- Industrial Plants Damage, Reinforcement Methods  
工業工廠損壞、加固方法
- Ways to Repair Damaged Structures of Residential Buildings  
住宅建築損壞結構修復的方法
- Increasing the Protective Properties of Enclosure Structures  
增加外殼結構之保護性能

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

443100, Samara, Molodogvardeyskaya street, 244, main building

Phone: +7 (846) 278-43-71, e-mail: [international.samgtu@gmail.com](mailto:international.samgtu@gmail.com), web-page: [www.samgtu.com](http://www.samgtu.com)

# TECHNOLOGY OF BUILDING MATERIALS, UNITS AND STRUCTURES 建築材料、單元和結構之技術

FIELD OF STUDY / 學科領域

08.04.01 «CONSTRUCTION» / 建築施工

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

IGOR V. GORYUSHINSKY

Professor of «Building Materials and Constructions» Department, Doctor of Technical Sciences

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY /  
2年全職學習

ENROLLMENT  
REQUIREMENTS /  
入學要求 (入學考試):

Written examination on  
the subject «Construction»

筆試科目: 建築施工

## PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- To increase the effectiveness of MSc program the following steps are to be implemented: introduction of various forms of interdisciplinary research projects, participation of students in creative intellectual and scientific activities, involvement of talented young people in scientific work.
- 為提升科學碩士(MSc)計劃方案的有效性，將實施以下步驟：引入各種形式的跨學科研究專案，增加學生參與智力和科學方面的活動，讓有才華的年輕人參與科學工作。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Philosophical Problems of Science and Technology  
科學與技術的哲學問題
- Mathematical Modeling  
數學建模
- Special Sections of Higher Mathematics  
高等數學專題
- Scientific Research Methodology  
科學研究方法論
- Information technology in construction  
建築資訊科技
- Business Foreign Language  
商業外語
- Methods for Solving Scientific and Technical Problems in Building Industry  
建築工業的科學和技術問題之解決方法
- Basics of Pedagogy and Andragogy  
教育學和成人教育之基礎學
- Environmental problems of Construction Engineering Sector  
建築工程部門之環境問題
- Mechanization and Automation of Construction Engineering Sector  
建築工程部門機械化與自動化
- Construction Materials Science  
建築材料科學
- Modern Aspects of the Technology of Construction Materials and Structures Production  
建築材料和結構技術的現代面向
- Production Technique of Enclosure Structures  
封閉結構的生產技術
- Quality and Durability of Enclosure Structures  
外殼結構的質量和耐用性
- Main Directions of Technical Progress in the Field of Building Materials  
建築材料領域技術進步的主要方向
- Main Ways to Improve Building Designs  
改進建築設計的主要方法
- New Types of Binding Agents and Concretes  
新類型的結合劑和混凝土
- Improving the Thermal Insulation Properties of Materials  
改善材料的絕熱性能
- Building Materials from Local Raw Materials and Industrial Waste  
來自當地原材料和工業廢物的建築材料

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

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Phone: +7 (846) 278-43-71, e-mail: [international.samgtu@gmail.com](mailto:international.samgtu@gmail.com), web-page: [www.samgtu.com](http://www.samgtu.com)

# THEORY OF STRUCTURES

## 結構理論

FIELD OF STUDY / 學科領域

08.04.01 «CONSTRUCTION» / 建築施工

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

YURI E.SENITSKII

Head of «The Strength of Materials and Structural Mechanics» Department, Professor, Doctor of Technical Sciences

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY /  
2年全職學習



ENROLLMENT  
REQUIREMENTS /  
入學要求 (入學考試):

Written examination on  
the subject «Construction»

筆試科目: 建築施工

PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- To increase the effectiveness of MSc program the following steps are to be implemented: introduction of various forms of interdisciplinary research projects, participation of students in creative intellectual and scientific activities, involvement of talented young people in scientific work.
- 為提升科學碩士(MSc)計劃方案的有效性，將實施以下步驟：引入各種形式的跨學科研究專案，增加學生參與智力和科學方面的活動，讓有才華的年輕人參與科學工作。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Philosophical Problems of Science and Technology  
科學與技術的哲學問題
- Mathematical Modeling  
數學建模
- Special Sections of Higher Mathematics  
高等數學專題
- Scientific Research Methodology  
科學研究方法論
- Information technology in construction  
建築資訊科技
- Business Foreign Language  
商業外語
- Methods for Solving Scientific and Technical Problems in Building Industry  
建築工業的科學和技術問題的解決方法
- Basics of Pedagogy and Andragogy  
教育學和成人教育之基礎學
- Theory of Plates and Shells  
板和殼的理論
- Scientific Problems of Construction Economics  
建築經濟學的科學問題
- Psychological Aspects of Scientific Work  
科學工作的心理面向
- Solution of Boundary Value Problems of the Dynamics and Stability of Structures  
結構動力學和穩定性的邊界值問題之解決方案
- Nonlinear Problems of Structural Mechanics  
結構力學的非線性問題
- Interaction of Elastic Structural Conjugated Fields Components of Hydroelasticity, Thermoelasticity and Electroelasticity  
水彈性、熱彈性和電彈性組成彈性結構共軛場之相互作用
- Method of Decomposition on its own Vector-Valued Functions in Structural Mechanics Problems  
結構力學問題中分解自己的矢量值函數之方法
- Incremental Construction Mechanic  
增量施工機械
- Calculation of Building Structures on Elastic Foundation  
彈性基礎建築結構的計算

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

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Phone: +7 (846) 278-43-71, e-mail: [international.samgtu@gmail.com](mailto:international.samgtu@gmail.com), web-page: [www.samgtu.com](http://www.samgtu.com)

# THEORY OF TECHNOLOGY AND ORGANIZATION OF CONSTRUCTION PRODUCTION 技術理論與建築生產組織

FIELD OF STUDY / 學科領域

08.04.01 «CONSTRUCTION» / 建築施工

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

VALERY P. POPOV

Head of «Technology and Organization of Construction Production» Department, Professor, Dr. of Technical Sciences

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY /  
2年全職學習



ENROLLMENT  
REQUIREMENTS /  
入學要求 (入學考試):

Written examination on  
the subject «Construction»

筆試科目: 建築施工

PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- Increase the publication activity through joint publications of staff and graduate students
- 藉由工作人員和研究生的聯合出版物，以增加出版活動

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Psychological Aspects of Scientific Work  
科學工作的心理面向
- Information technology in Construction  
建築資訊科技
- Experiment Planning  
實驗計劃
- Application of Modern Technological Equipment  
現代技術設備的應用
- Efficient Technologies in Foundation Engineering  
基礎工程之高效技術
- Efficient Technologies in Erection of Base Plates  
基板安裝中的高效技術
- Efficient Technologies in Painting and Decorating  
繪畫和裝飾的高效技術
- Efficient Technologies in Facades Arrangement  
外牆安裝的高效技術
- Current Problems in Construction Science, Engineering and Technology  
建築科學、工程和技術的當前問題
- Special Sections of Higher Mathematics  
高等數學專題
- Business Foreign Language  
商業外語
- Mathematical Modeling  
數學建模
- Scientific Research Methodology  
科學研究方法論
- Methods for Solving Scientific and Technical Problems in Building Industry  
建築工業的科學和技術問題的解決方法
- Scientific Problems of Construction Economics  
建築經濟學的科學問題
- Basics of Pedagogy and Andragogy  
教育學和成人教育之基礎學
- Philosophical Problems of Science and Technology  
科學與技術的哲學問題
- Research Practice  
研究實習
- Research and production practice  
研究和生產實習
- Research work  
研究工作

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

443100, Samara, Molodogvardeyskaya street, 244, main building

Phone: +7 (846) 278-43-71, e-mail: [international.samgtu@gmail.com](mailto:international.samgtu@gmail.com), web-page: [www.samgtu.com](http://www.samgtu.com)

# URBAN AREAS AND TRANSPORT INFRASTRUCTURE ENGINEERING EQUIPMENT AND SUPPORT 城市地區和交通基礎設施工程設備和支持

FIELD OF STUDY / 學科領域

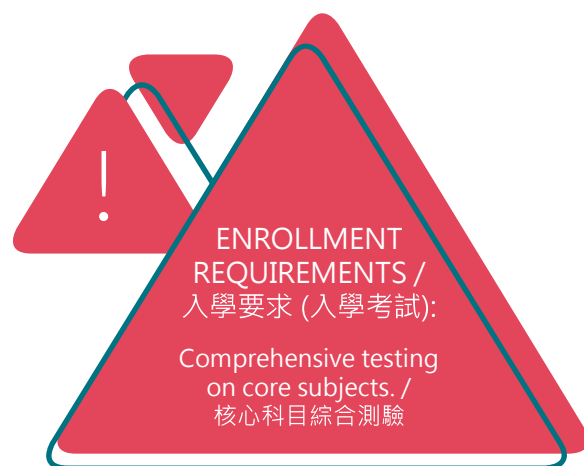
08.04.01 «CONSTRUCTION» / 建築施工

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

ANNA V. ZHOGOLEVA

Associate Professor of «Urban Development» Department, PhD

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY /  
2年全職學習



PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- Creation of experimental projects, instructional materials, integrated curricula of final qualifying undergraduate works, which are based on an integrated engineering and urban planning approach to solving the development problems of urban areas.
- Involvement in implementation of the program the most experienced practitioners engaged in urban development.
- The use of innovative educational technologies based on new interactive teaching methods.
- 創立實驗性專案、教學材料、最終合格本科生作品的綜合課程，這些課程是基於綜合工程和城市規劃的方法，以解決城市地區的發展問題。
- 參與執行計劃方案是從事城市發展的最有經驗的從業者。
- 基於新的交互式教學方法的創新教育技術之使用。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Philosophical Problems of Science and Technology  
科學與技術的哲學問題
- Mathematical Modeling  
數學建模
- Special Sections of Advanced Mathematics  
高級數學專題
- Scientific Research Methodology  
科學研究方法論
- Information Technology in Construction  
建築資訊科技
- Business Foreign Language  
商業外語
- Methods for Solving Scientific and Technical Problems in Construction  
建築的科學和技術問題的解決方法
- Basics of Pedagogy and Andragogy  
教育學和成人教育之基礎學
- History of Urban Planning, Transport and Construction Machinery  
城市規劃、運輸和建築機械之歷史
- Theory and Practice of Modern Urban Planning  
現代城市規劃的理論與實踐
- Underground Urban Studies  
地下城市研究
- Parametric Design Tools  
參數化設計工具
- Regional and Urban Landscape Environmental Topology  
區域和城市景觀環境地志學
- Communicative Spaces System in Modern City  
現代城市的交際空間系統
- Modern Approaches to Urban Areas Improvement  
城市區域改造的現代方法
- Post-Industrial City Frame Infrastructure  
後工業城框架之基礎設施
- Landscape Design Areas Principles  
景觀設計領域原則
- Design Principles of Cities Coastal Areas  
城市沿海地區之設計原則
- Organization of Accessible Urban Environment  
無障礙城市環境之組織
- Designing Urban Transport Facilities  
設計城市交通設施
- Methods for Evaluation of Urban Land  
城市土地評價之方法

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

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# WATER SUPPLY OF CITIES AND INDUSTRIAL ENTERPRISES 城市和工業企業之供水

FIELD OF STUDY / 學科領域

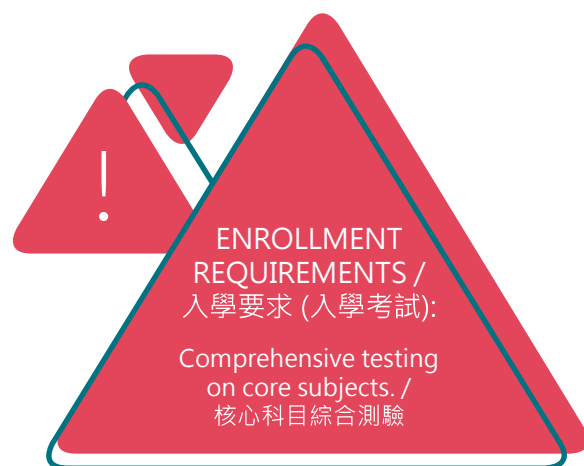
08.04.01 «CONSTRUCTION» / 建築施工

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

ALEKSANDR K. STRELKOV

Head of «Water Supply and Sanitation» Department, Professor, Doctor of Technical Sciences

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY /  
2年全職學習



PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- Water treatment, reconstruction of the existing water supply and water treatment facilities in cities and industrial enterprises, water supply of small residential areas.
- 項目包括水處理，城市和工業企業現有供水和水處理設施的重建，小型住宅區的供水。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Philosophical Problems of Science and Technology  
科學與技術的哲學問題
- Mathematical Modeling  
數學建模
- Special Sections of Advanced Mathematics  
高級數學專題
- Scientific Research Methodology  
科學研究方法論
- Information Technology in Construction  
建築資訊科技
- Business Foreign Language  
商業外語
- Methods for Solving Scientific and Technical Problems in Construction  
建築的科學和技術問題的解決方法
- Basics of Pedagogy and Andragogy  
教育學和成人教育之基礎學
- Experiment Planning  
實驗計劃
- Technological Control of Water Supply and Sanitation Facilities  
供水和衛生設施之技術控制
- Preparation and Execution of the Master's Thesis  
碩士論文之準備和執行
- Water Supply and Sanitation Modeling  
供水和衛生之建模
- Sewage Sludge Treatment and Disposal  
污水處理和處置
- Inhibitory Circulating Systems Water Treatment for Industrial Enterprises  
工業企業的抑制循環系統水處理
- Special Methods of Water Preparation  
水製備之特殊方法
- Theoretical Foundations of Biological Wastewater Treatment  
生物污水處理的理論基礎
- Water Supply and Sanitation CAD Systems  
供水和衛生之CAD系統
- Ecological Monitoring of Water Objects  
水物件的生態監測

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

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# RIVER AND UNDERGROUND HYDRAULIC FACILITIES 河流和地下水力設施

FIELD OF STUDY / 學科領域

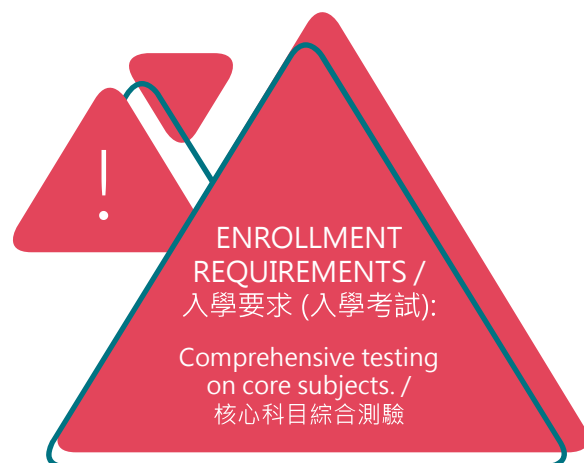
08.04.01 «CONSTRUCTION» / 建築施工

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

MIKHAIL I. BALZANNIKOV

Director of ACEI SSTU, Vice-Rector of Architectural and Construction Education, Professor, Doctor of Technical Sciences

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY /  
2年全職學習



PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- Collection and systematization of information and initial data for hydraulic engineering objects designing; calculation and design of parts and assemblies using standard tools; preparation of design and working technical documentation, design of complete development work of hydraulic engineering facilities.
  - Organization of metrological support of technological processes, use of quality control standard methods of construction hydraulic engineering projects.
  - Study and analysis of scientific and technical information, national and international experience; participation in experiments on the set procedures, making descriptions of taken research and systematization of results.
- 水利工程物件設計的資訊和初始數據的收集和系統化；使用標準工具以計算和設計零件和組件；準備設計和工作技術文件，以設計液壓工程設施的完整開發工作。
- 組織技術過程的計量支持，在建設水力工程專案中，使用質量控制標準方法。
  - 由國家和國際經驗，研究和分析科學和技術資訊；參與設定程序的實驗，描述所採取的研究和結果的系統化。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Philosophical Problems of Science and Technology  
科學與技術的哲學問題
- Mathematical Modeling  
數學建模
- Special Sections of Advanced Mathematics  
高級數學專題
- Scientific Research Methodology  
科學研究方法論
- Information Technology in Construction  
建築資訊科技
- Business Foreign Language  
商業外語
- Methods for Solving Scientific and Technical Problems in Construction  
建築的科學和技術問題之解決方法
- Basics of Pedagogy and Andragogy  
教育學和成人教育之基礎學
- Experiment Planning  
實驗計劃
- Scientific Problems of Construction Economics  
建築經濟學之科學問題
- Hydrosphere Ecology  
水文生態學
- Use of Renewable Energy Sources  
再生能源的使用
- Hydraulic Facilities Safety  
液壓設施安全
- Environmental Hydraulic Facilities  
環境液壓設施
- Modern Problems in Construction Science, Engineering and Technology  
建築科學、工程與技術之現代問題
- City Hydropower Facilities  
城市水力發電設施
- Underground Hydraulic Facilities  
地下水力設施

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

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# COMPUTER SCIENCE AND ENGINEERING

## 計算機科學與工程

FIELD OF STUDY / 學科領域

09.04.01 «COMPUTER SCIENCE AND ENGINEERING» / 計算機科學與工程

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

SERGEY P. ORLOV

Head of «Computer Engineering» Department, Professor, Dr. of Technical Sciences

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY /  
2年全職學習

ENROLLMENT  
REQUIREMENTS /  
入學要求 (入學考試):  
Comprehensive testing  
on core subjects. /  
核心科目綜合測驗

### PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- Preparation for supercomputer technologies
- Software design and hardware of mobile devices and applications.
- Invitation of leading Russian and foreign scientists from universities and partner organizations to deliver lectures.
- 超級計算機科技的準備。
- 行動通訊設備和應用的軟體設計和硬體。
- 本方案邀請來自大學和合作夥伴組織的俄羅斯和外國科學家提供講座。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Computer systems  
計算機系統
- Programming Technology  
程式設計技術
- Methodology of Scientific Research  
科學研究方法論
- Technology of Multi-Service Networks  
多功能網絡技術
- Theoretical Computer Science  
多功能網絡技術
- Theory of Design (Systems Analysis and Engineering Requirements)  
設計理論 (系統分析和工程需求)
- Computer-Aided Design of Parallel Programs  
並行程式的計算機輔助設計
- Intelligent Systems and Knowledge Bases  
智能系統和知識庫
- Foreign Language  
外國語文
- Analysis Systems of Space Sensing Data  
空間感應數據分析系統
- Image Recognition Systems  
圖像辨識系統
- Mathematical Models of Computer Systems  
計算機系統的數學模型
- Design Systems in FPGA, FPAA and FPGA  
FPGA, FPAA和FPGA的設計系統
- Data Processing System-on-Chip  
晶片上數據處理系統
- Reliability of Distributed Computing Systems  
分佈式計算系統的可靠性
- Computer Multimedia Technology  
計算機多媒體技術

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

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# INFORMATION SYSTEMS AND TECHNOLOGY 資訊系統和科技

FIELD OF STUDY / 學科領域

09.04.02 «INFORMATION SYSTEMS AND TECHNOLOGY» / 資訊系統和科技

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

SEMEN A. PIYAVSKII

Head of «Information Develop Educational Systems and Technologies» Department, Professor,  
Doctor of Technical Sciences

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY /  
2年全職學習

ENROLLMENT  
REQUIREMENTS /  
入學要求 (入學考試):  
Comprehensive testing  
on core subjects. /  
核心科目綜合測驗



PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- Organization of academic exchange with leading universities in Russia and abroad.
- 組織與俄羅斯和國外的頂尖大學的學術交流。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Logic and Methodology of Science  
邏輯和科學方法論
- Optimal Control Theory  
最優控制理論
- Neural Networks Theory  
類神經網絡理論
- Research and Modeling Methods of Information Processes and Technologies  
資訊處理和技術之研究和建模方法
- Quality Evaluation and Information Systems Projects Control  
質量評價和資訊系統專案控制
- Information Systems Design  
資訊系統設計
- Methodological Foundations of Information Technologies  
資訊科技之方法基礎
- Logic of Educational Systems Development in Information Society  
資訊社會中教育系統發展的邏輯
- Logic of Social Processes and Movements in Information Society  
資訊社會中社會過程和運動的邏輯
- Scientific Work Methodology  
科學工作方法論
- Information Systems in Banking  
銀行資訊系統
- Administrative Information Systems  
行政資訊系統
- Perspective Information Technologies  
透視資訊技術
- Logic of Technical Systems Development in Information Society  
資訊社會技術系統發展的邏輯
- Logic of Economic Processes in Information Society  
資訊社會經濟過程的邏輯
- Intelligent Systems  
智慧系統
- Statistical Processing Information Technologies  
統計處理資訊科技
- Business Processes Designing  
業務流程設計

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

443100, Samara, Molodogvardeyskaya street, 244, main building

Phone: +7 (846) 278-43-71, e-mail: [international.samgtu@gmail.com](mailto:international.samgtu@gmail.com), web-page: [www.samgtu.com](http://www.samgtu.com)

# DEVICES AND METHODS OF MEASUREMENT AND CONTROL OF PROCESS PARAMETERS OF HYDROCARBONS PIPELINE 測量控制碳氫化合物管道過程參數的裝置和方法

FIELD OF STUDY / 學科領域

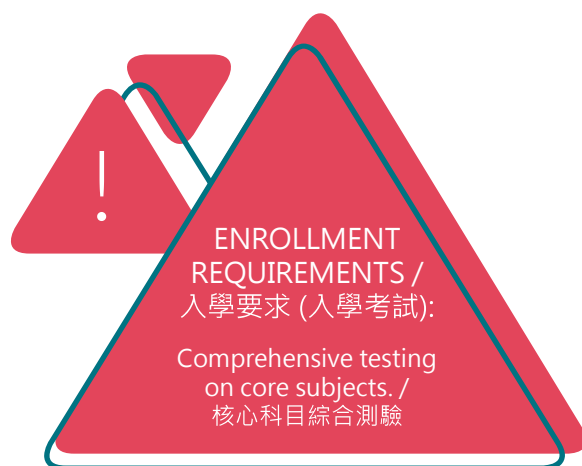
12.04.01 «INSTRUMENT ENGINEERING» / 儀器工程

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

VLADIMIR S. MELENTIEV

Head of «Information and Instrumentation Technology» Department, Professor, Dr. of Technical Sciences

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY /  
2年全職學習



ENROLLMENT  
REQUIREMENTS /  
入學要求 (入學考試):  
Comprehensive testing  
on core subjects. /  
核心科目綜合測驗

PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- Control of the pipeline system of hydrocarbon products; search systems for the hydrocarbons fields in the world's oceans; system of non-destructive testing products (speakers); automated signal processing systems of analyzers of composition

and properties of substances.

- 碳氫化合物管道系統的控制；世界海洋中碳氫化合物場的搜索系統；非破壞性測試產品系統（揚聲器）；物質成份和性質分析儀之自動訊號處理系統。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Mathematical Modeling in Instrument Systems  
儀器系統的數學建模
- Methods for Measuring the Basic Technological Parameters of Oil and Gas Fields  
石油和天然氣田基本技術參數測量方法
- Information Technology in Instrument Engineering  
儀器工程的資訊科技
- Technology of Non-Destructive Testing of Oil and Gas Fields  
油氣田非破壞性的試驗技術
- Physical Methods to Control Oil and Gas Fields  
控制油氣田的物理方法
- CAD Basics of Measuring Instruments  
基礎測量儀器的計算機輔助設計
- Automation of Technological Processes of Oil and Gas Fields  
油氣田技術過程自動化
- Intelligent Sensors  
智慧感應器
- Technological Reliability of Pipelines  
管道技術的可靠性
- Processes Pipeline Transport  
流程管道運輸
- Application Software  
應用程式軟體
- Computer Collection and Processing of the Measuring Information in the Oil and Gas Industry  
石油天然氣工業測量訊息的計算機採集和處理
- Industrial Safety of Pipeline Systems  
管道系統工業安全
- Assessment and Analysis of Risks  
風險評估和分析
- Fundamentals of Reliability Theory  
可靠性理論的基礎
- Optimization of Instrument Designs  
儀器設計的優化
- Detection and Filtering Signals in Non-Destructive Testing  
非破壞性測試的檢測和過濾訊號
- Methods of Technical Diagnostics  
技術診斷方法
- Modern Microcircuitry  
現代微電路學
- Modern Electric Drives  
現代電力驅動
- Measurement and Control of Technological Processes of Oil and Gas Fields  
油氣田技術過程的測量與控制
- Measurement and Control of Physical Quantities  
物理量的測量和控制

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

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# INSTRUMENT ENGINEERING

## 儀器工程

FIELD OF STUDY / 學科領域

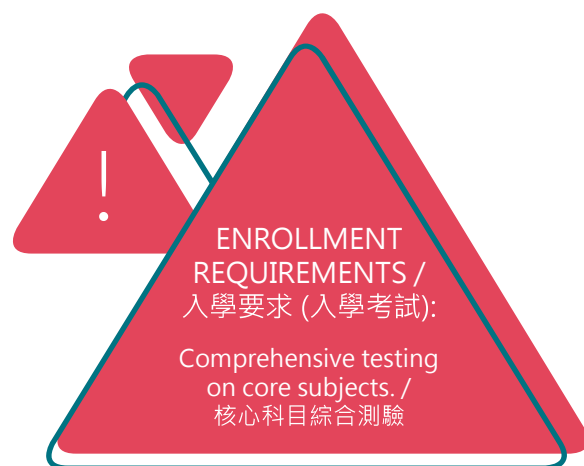
12.04.01 «INSTRUMENT ENGINEERING» / 儀器工程

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

VLADIMIR S. MELENTIEV

Head of «Information and Instrumentation Technology» Department, Professor, Dr. of Technical Sciences

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY /  
2年全職學習



PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- Control of the pipeline system of hydrocarbon products; search systems for the hydrocarbons fields in the world's oceans; system of non-destructive testing products (speakers); automated signal processing systems of analyzers of composition

and properties of substances.

- 碳氫化合物管道系統的控制；世界海洋中碳氫化合物場的搜索系統；非破壞性測試產品系統（揚聲器）；物質成份和性質分析儀之自動訊號處理系統。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- History and Methodology of Instrument Engineering  
儀器工程的歷史與方法
- Information Technology in Instrument Engineering  
儀器工程的資訊技術
- Mathematical Modeling in Instrument Systems  
儀器系統的數學建模
- Modern Problems of Science and Instrument Engineering  
科學與儀器工程之現代問題
- Foreign Language  
外國語文
- Measurement and Information Systems  
測量和資訊系統
- Intelligent Measuring Tools  
智能測量工具
- Experiment and Test Automation  
實驗和測試自動化
- CAD Basics of Measuring Instruments  
計算機輔助設計測量儀器之基礎
- Metrological Assurance of Measuring Instruments  
測量儀器之計量保證
- Modern Microcircuitry  
現代微電路
- Latest Technology in Instrument Engineering  
儀器工程最新技術
- Modern Electric Drives in Instrument Engineering  
儀器工程之現代電力驅動
- Modern Electric Cars  
現代電動汽車
- Fundamentals of Reliability Theory  
可靠性理論之基礎學
- Optimization of Instrument Designs  
儀器設計優化
- Information Devices of Robotic Systems  
機器人系統的資訊設備
- Measuring Robotic Systems  
機器人系統測量

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

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Phone: +7 (846) 278-43-71, e-mail: [international.samgtu@gmail.com](mailto:international.samgtu@gmail.com), web-page: [www.samgtu.com](http://www.samgtu.com)

# THERMAL ENGINEERING AND HEAT TECHNOLOGY 熱力工程和熱能技術

FIELD OF STUDY / 學科領域

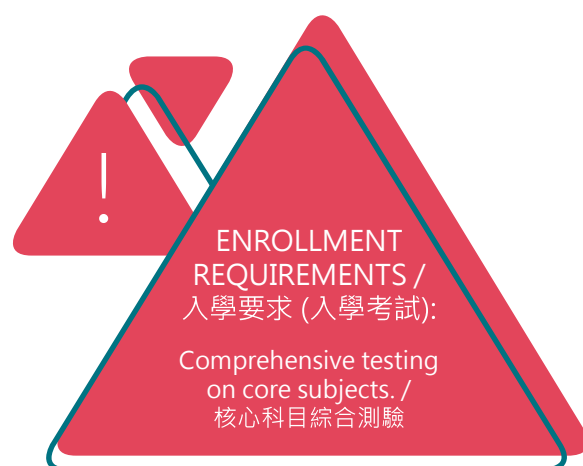
13.04.01 «THERMAL ENGINEERING AND HEAT TECHNOLOGY» / 熱力工程和熱能技術

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

MIKHAIL Y. LIVSHITS

Head of «Management and Systems Analysis of Thermal Power and Socio-Technical Systems» Department, Professor, Dr. of Technical Sciences

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY /  
2年全職學習



PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- Within the framework of academic mobility development it is expected to create a system of mutual exchange of special courses with leading universities in the country, including National Research «Bauman Moscow State Technical University».
- It is planned to invite the leading foreign and Russian scientists from universities and partner organizations to deliver lectures.
- Internship of MSc students at the University of Hannover (Germany) are to be organized.
- 在學術流動發展的架構內，本方案預期將建立一個與俄羅斯頂尖大學相互交流特殊課程的系統。
- 本方案計劃邀請來自各大學和合作夥伴組織的外國和俄羅斯科學家提供講座。
- 將組織在德國漢諾威大學(U. of Hannover)之科學碩士(MSc)學生實習。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Modern Problems of Power Engineering, Heat Engineering and Heat Technologies  
電力工程・熱力工程和熱能技術的現代問題
- Identification and Adaptation of the Control of Technological Processes of Thermal Diffusion of Thermal Physics  
熱物理的熱擴散技術過程控制的識別和適應
- Mathematical Modeling of Energy Processes and Systems  
能量過程和系統的數學建模
- Renewable Energy Resources  
再生能源資源
- Hydrodynamics and Heat Transfer in Liquids  
液體的流體動力學和熱傳導
- Equations of Mathematical Physics in Thermal Conductivity and Elasticity  
熱導率和彈性的數學物理方程式
- Production of Heat and Electricity at Thermal Power Stations  
火力發電廠的熱能和電力生產
- Combined-Cycle and Gas Turbine Power Plants  
聯合循環和燃氣渦輪機發電廠
- Basics of Effective Investment in Energy  
能源有效投資的基礎學科
- Computational Methods and Computer Technologies in Management of Thermal Engineering Systems  
熱力工程系統管理的計算方法和計算機技術
- Advanced Technologies and Innovations in Thermal Engineering  
熱力工程的先進技術與創新
- Environmental Issues of Heat Energy Production and Use  
熱能生產和使用的環境議題
- Problems of Energy and Resources in Thermal Engineering and Heat Technology  
熱力工程和熱能技術的能源與資源問題
- Modern Methods of Calculation and Design of Thermal Power Plants  
火力發電廠的現代計算與設計方法
- Heat Balance Calculation of Thermal Power Plants  
火力發電廠的熱平衡計算
- Modern Technologies of Water and Fuel Treatment at Thermal Power Stations  
熱力發電站的水和燃料處理的現代技術
- Water-Chemical Regimes of Power Plants  
發電廠的水與化學體系
- Special Issues of Burning Gas  
燃燒氣體的特殊議題
- Technical Methods of Burning Gas  
燃燒氣體的技术方法
- Structural Modeling and Management of Heating Systems with Distributed Parameters  
具有分佈參數的加熱系統的結構建模和管理
- Dynamic Optimization of Thermal Power Facilities and Systems  
熱力發電設施和系統的動態優化

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

443100, Samara, Molodogvardeyskaya street, 244, main building

Phone: +7 (846) 278-43-71, e-mail: [international.samgtu@gmail.com](mailto:international.samgtu@gmail.com), web-page: [www.samgtu.com](http://www.samgtu.com)

# MODERN TECHNOLOGIES IN ELECTRICAL ENGINEERING AND AUTOMATED ELECTRIC DRIVE

## 電機工程與自動化電力驅動的現代技術

FIELD OF STUDY / 學科領域

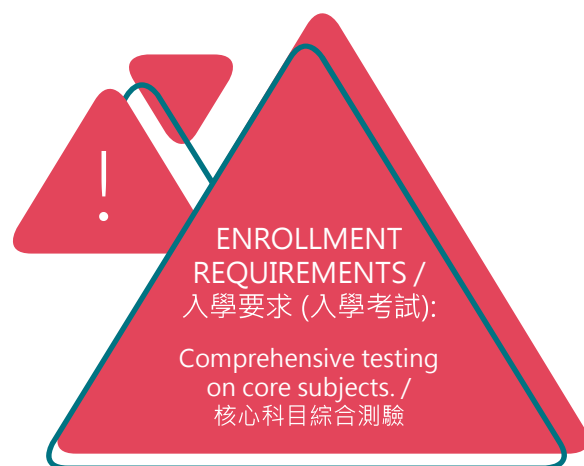
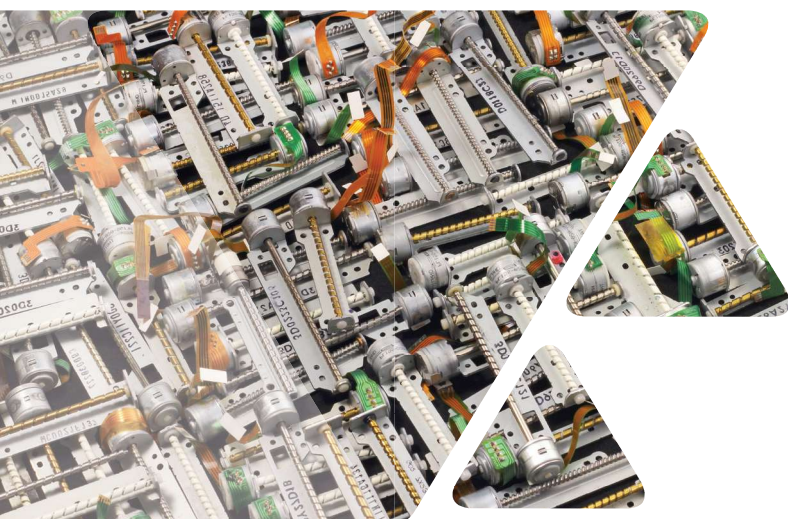
13.04.02 «ELECTRICAL ENGINEERING AND TECHNOLOGY» / 電機工程與科技

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

YURY A. MAKARICHEV

Head of «Electromechanics and Automobile Electric Equipment» Department, Associate Professor,  
Dr. of Technical Sciences

Length of Schooling / 學制長度:  
2,5 YEARS OF PART-TIME STUDY  
2-5年兼職學習



PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- It is planned to invite the leading foreign and Russian scientists from universities and partner organizations to deliver lectures and to organize internships of MSc students at the leading universities of Russia
- 本方案計劃邀請來自大學和合作夥伴組織的優秀外國和俄羅斯科學家，在俄羅斯的頂尖大學提供講座和組織科學碩士(MSc)學生的實習

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Methods of Technical Decisions in Design and Management Tasks  
設計與管理任務的技術決策方法
- Information Technology in Electrical Engineering and Electric Drive  
電機工程與電力驅動的資訊技術
- Technical Foreign Language  
技術外語
- Automation of Experimental Research Data Processing  
實驗研究數據處理的自動化
- Economics and Organization of Innovative Production of Electrical Equipment  
電機設備創新生產的經濟學與組織
- Quality Management Systems in Industry and Education  
工業與教育的質量管理系統
- Automatic Electric Drive in Energy-Saving Technologies  
節能技術的自動電力驅動
- Optimization of Operation Modes of Electrical and Electromagnetic Transducers  
電機與電磁傳感器的工作模式優化
- Identification Methods of Objects of Management  
管理目標的識別方法
- Expert Systems in the Creation and Operation of Electrical and Electromechanical Transducers  
專家系統在電機和機電傳感器的創造和操作
- Programmable Logic Controllers and Network Technology  
可編程邏輯控制器和網絡技術
- Modern Problems of Electrical and Electromechanical Transducers  
電機和機電傳感器的現代問題
- Calculation Models and Methods of Electromechanical Systems  
機電系統的計算模型和方法
- Optimal Design in Electrical Engineering and Electric Drive  
電機工程和電力驅動的最佳化設計
- Electrical and Technological Automated Systems  
電機和技術自動化系統
- Mathematical Modeling of Electromechanical Systems Elements  
機電系統元件的數學建模
- Special Chapters of Mathematics  
數學特別章
- Electric Drive for Energy Efficient Technologies  
電力驅動的節能技術
- Automatic Electric Drive  
自動電力驅動
- Microcontroller Control Systems  
微控制器控制系統
- Multivariable Systems of Automatic Control  
自動控制的多變量系統
- New Technologies of Control of Electromechanical Transducers Based on Power Semiconductor Technology  
基於功率半導體技術的新型機電傳感器控制技術
- Modern Information and Management Systems in Motor Vehicles  
汽車的現代資訊和管理系統
- Computer Technology Research of Electrical and Electromechanical Transducers  
電機與機電傳感器的計算機技術研究
- Electromechanical Converters of Standard Production Machinery and Technological Complexes  
標準生產機械和技術綜合體的機電轉換器

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

443100, Samara, Molodogvardeyskaya street, 244, main building

Phone: +7 (846) 278-43-71, e-mail: [international.samgtu@gmail.com](mailto:international.samgtu@gmail.com), web-page: [www.samgtu.com](http://www.samgtu.com)

# OPTIMIZATION OF POWER SUPPLY SYSTEMS AND IMPROVING THEIR EFFICIENCY

## 電力供應系統優化與其效率提高

FIELD OF STUDY / 學科領域

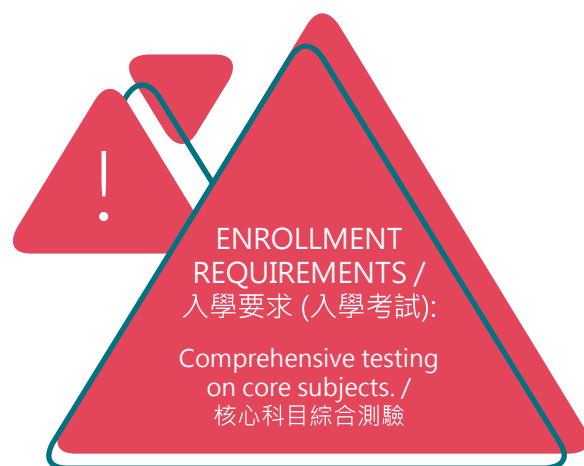
13.04.02 «ELECTRICAL ENGINEERING AND TECHNOLOGY» / 電機工程與科技

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

VLADIMIR I. POLISHCHUK

Head of «Electric Power Supply of Industrial Enterprises» Department, Professor, Dr. of Technical Sciences

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY /  
2年全職學習



ENROLLMENT  
REQUIREMENTS /  
入學要求 (入學考試):  
Comprehensive testing  
on core subjects. /  
核心科目綜合測驗

### PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- Within the framework of academic mobility development it is expected to create a system of mutual exchange of special courses with leading Russian universities.
- It is planned to invite the leading foreign and Russian scientists from universities and partner organizations to deliver lectures.
- 在學術交流發展的架構內，預期將建立一個與俄羅斯主要大學相互交流特殊課程的系統。
- 計劃邀請來自大學和合作夥伴組織的領先外國和俄羅斯科學家提供講座。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Humanitarian Aspects of Professional Activity  
專業活動之人道主義面向
- Scientific Discourse  
科學話語
- Planning and Processing of Experimental Research Data in Electrical Engineering and Technology  
電機工程技術的實驗研究數據之規劃與處理
- Modern Technologies in Electrical Engineering and Technology  
電機工程技術之現代科技
- Energy and Resource Saving in Electrical Engineering and Technology  
電機工程技術之能源和資源節約
- Modern Problems of Electrical Engineering and Technology Sciences  
電機工程與科技之現代問題
- Algorithms of Automated Calculation of Electric Power Supply Systems  
電力供應系統自動計算的方法論
- Special Issues of Electric Power Supply  
電力供應的特殊議題
- Innovation Workshop (Design Workshop)  
創新研討會 (設計專題研討會)
- Bases of Commercialization of Technological Achievements  
技術成果商業化基礎
- Trends in Electrical Equipment Development in Energy Sector  
能源部門之電機設備發展趨勢
- Maintenance and Repairing of Electrical Systems  
電力系統的維護和修理
- Installation and Maintenance of Electrical Installations  
電機裝置的安裝和維護
- Optimizing Structure and Parameters of Electric Power Supply Systems  
電力供應系統結構和參數之優化
- Advanced Technologies in Electric Power Industry  
電力工業先進科技
- Electric Power Quality in Electric Power Systems  
電力系統之電力質量
- Energy Audit  
能源審計
- Microprocessor-Based Protection in Electric Power Systems  
基於微處理器的電力系統保護
- Relay Protection and Automation of Electric Power Systems  
電力系統之繼電保護與自動化
- Diagnosis of Electric Power Supply Systems  
電力供應系統的診斷
- Installation and Adjustment of Electric Power Supply Systems  
電力供應系統之安裝與調整
- Energy Savings in Electric Power Supply Systems  
電力供應系統的節能
- Information Systems in Electric Power Industry  
電力工業的資訊系統
- Dispatching Control in Electric Power Supply Systems  
電力供應系統的調度控制
- Modes of Operation Analysis of Electric Power Supply Systems  
電力供應系統的運行分析模式
- Modes of Operation Optimization of Electric Power Supply Systems  
電力供應系統的運行優化模式
- Optimization of Structure of Electric Power Supply Systems  
電力供應系統的結構優化

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

443100, Samara, Molodogvardeyskaya street, 244, main building

Phone: +7 (846) 278-43-71, e-mail: [international.samgtu@gmail.com](mailto:international.samgtu@gmail.com), web-page: [www.samgtu.com](http://www.samgtu.com)

# RELAY PROTECTION, AUTOMATION AND CONTROL OF ELECTRIC POWER SYSTEMS MODES

電力能源系統模式的繼電保護，自動化和控制

FIELD OF STUDY / 學科領域

13.04.02 «ELECTRICAL ENGINEERING AND TECHNOLOGY» / 電機工程與科技

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

ALEKSANDER S. VEDERNIKOV

Dean of Electrical Engineering Faculty, Associate Professor, PhD

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY /  
2年全職學習

ENROLLMENT  
REQUIREMENTS /  
入學要求 (入學考試):

Comprehensive testing  
on core subjects. /  
核心科目綜合測驗

## PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- Due to the reform of electric power industry and the transition to market relations, the value of planning and operational management of power systems has increased significantly. The electricity sector companies are facing technical and economic challenges to answer which highly skilled professionals are required. The MSc's graduates are specialists in the field of relay protection and emergency control and of dispatching control in the electric power industry who are able to provide enterprises work without downtime and economic loss.
- When training the students of the program 13.04.02 «Electrical Engineering and Technology» it is planned to introduce a model of practice-oriented engineering training, including project modules. The launch of modular educational programs for team performance of the educational projects of

increasing complexity in the ideology of the Global Initiative for modernization of engineering education CDIO (think – design - implement - exploit) will produce professionals with a unique engineering thinking who are ready to work as a team.

- 由於電力工業的改革和市場關係的轉換，電力系統的規劃和運行管理的價值有顯著的增加。電力領域公司正面臨技術和經濟挑戰，需要高度熟練的專業人才。本方案科學碩士(MSc)畢業生是繼電保護和緊急控制領域、及電力調度控制領域的專家，他們能夠為企業提供無停機和經濟損失的工作。
- 培訓本方案13.04.02“電機工程與科技”學生時，計劃引入一個以實踐為導向的工程培訓模式，包括專業模組。在全球倡議現代化CDIO（思想 - 設計 - 實施 - 開發）的意識形態下，工程教育日益複雜的教育專業，團隊執行的模組化教育計劃的推出，將產生具有獨特工程思維的專業人士，齊力為一個團隊工作。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Planning and Processing of Experimental Research Data in Electrical Engineering and Technology  
電機工程與技術的實驗研究數據的規劃與處理
- Modern Technologies in Electrical Engineering and Technology  
電機工程與科技的現代技術
- Energy and Resource Saving in Electrical Engineering and Technology  
電機工程和科技的能源和資源節約
- Modern Problems of Electrical Engineering and Technology Sciences  
電機工程與技術科學的現代問題
- Electromagnetic Compatibility in Electric Power Systems  
電力系統的電磁兼容性
- Stability of Electric Power Systems  
電力系統的穩定性
- Innovation Workshop (Design Workshop)  
創新研討會 (設計研討會)
- Bases of Commercialization of Technological Achievements  
科技成果的商業化基礎
- Main Electrical Equipment of Electrical Systems and Networks  
電機系統與網絡的主要電機設備
- Digital Launchers and Measuring Elements of Relay Protection  
繼電保護的數位發射器和測量元件
- Control of Frequency, Active Power Flows and Voltage in Electric Power Systems  
電力系統的頻率、主動功率流和電壓的控制
- Disturbance Control of Electric Power Systems  
電力系統的擾動控制
- Technology Workshop on Analysis and Planning of Electric Modes of Electric Power Systems  
電力系統電力模式分析與規劃技術研討會
- Methods and Tools of Electric Power Quality Management  
電力質量的管理方法與工具
- Automatic Emergency Response Mode Control in Electric Power Systems  
電力系統的自動應急模式控制
- Reliability of Relay protection and Automation Devices  
繼電保護和自動化裝置的可靠性
- Optimization of Modes of Electric Power Systems Elements of Active-Adaptive Electrical Grid  
主動適應電網的電力系統元件的模式優化
- Dispatching Control in Electric Power Supply Systems  
電力供應系統的調度控制
- Sources and Schemes of Control Current of Electric Power Stations and Substations  
電力站和變電站控制電流的來源和方案
- Calculation of Asymmetrical Short-Circuits in Electric Power Systems  
電力系統中非對稱短路的計算
- Elimination of Accidents in Electric Power Systems Preventing Violations of the Normal Operation of Electric Power Systems  
消除電力系統意外事故以防止違反電力系統正常運行
- Devices of Remote Indication and Telemetry  
遠程指示與遙測的裝置
- Planning of Electric Power Modes of Electric Power Systems  
電力系統電力模式的規劃
- Microprocessor-Based Relay Protection and Automation  
基於微處理器的繼電保護和自動化

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

443100, Samara, Molodogvardeyskaya street, 244, main building

Phone: +7 (846) 278-43-71, e-mail: [international.samgtu@gmail.com](mailto:international.samgtu@gmail.com), web-page: [www.samgtu.com](http://www.samgtu.com)

# ELECTROTHERMAL PROCESSES AND COMPLEXES WITH POWER SUPPLY AND CONTROL SYSTEMS

電源供應和控制系統的電熱處理和複合物

FIELD OF STUDY / 學科領域

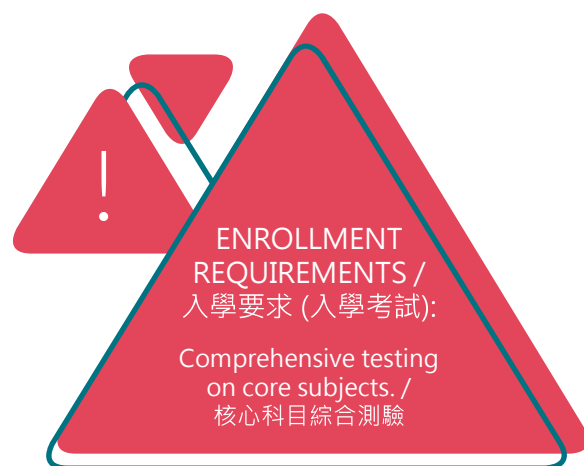
13.04.02 «ELECTRICAL ENGINEERING AND TECHNOLOGY» / 電機工程與科技

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

LEV S. ZIMIN

Professor of «Power Supply of Industrial Enterprises» Department, Dr. of Technical Sciences

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY /  
2年全職學習



PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- An academic mobility program with the leading Russian universities including Moscow Power Engineering Institute and Bauman Moscow State Technical University is expected to be established.
- The leading foreign and Russian scientists from partner universities and organizations are invited to give lectures/lecture courses.
- 在學術流動發展的架構內，本方案預期將建立一個與俄羅斯頂尖大學相互交流特殊課程的系統。
- 本方案計劃邀請來自各大學和合作夥伴組織的外國和俄羅斯科學家提供講座。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Automated Systems of Experimental Research Data Design and Processing  
實驗研究數據設計與處理的自動化系統
- Economics and Organization of Innovative Electrical Equipment Production  
創新電機設備生產的經濟與組織
- Modern Design and Construction Techniques in Power and Electrical Engineering  
電力 and 電機工程的現代設計與建造技術
- Special Professional Units Research and Modeling  
特殊專業單位研究與建模
- Basics of Systems with Distributed Parameters Theory  
具有分佈參數理論系統的基礎
- Mathematical Models of Electro-Technological Processes  
電工技術處理的數學模型
- Automated Electrotechnological Complexes and Systems  
自動化電工綜合體與系統
- Algorithmic and Optimization of Electro-Technological Processes and Complexes  
電工技術過程與複合材料的運算法與優化
- Processes and Complexes of Induction Heating  
感應加熱的過程和複合物
- Electrical Heating and Melting Furnaces  
電加熱和熔化爐
- Energy Saving in Electro-Technological Complexes  
節能在電工技術複合物
- Structural Modeling of Objects With Distributed Parameters  
具有分佈參數物件的結構建模
- Methods of Electro-Technological Systems Analysis  
電工技術系統分析之方法
- Optimal Control of Electrothermal Processes  
電熱處理的最優控制
- Microprocessor Devices in Electrothermal Control Systems Complexes  
微處理器裝置在電熱控制系統複合物
- Power Supply of Electrothermal Units  
電熱單位的電源供應
- Electrothermal Processes and Complexes Control Systems  
電熱處理和複合控制系統
- Technological Diagnosis of Electro-technological Systems  
電工技術的技術診斷
- Methods of The Experiment Planning and Processing  
實驗計劃與處理之方法
- Switchgear and Electric Networks of High Frequency Systems  
高頻系統之開關櫃和電子網路
- High-Voltage Equipment of Operational and Technical Communication Center  
高壓設備運行和技術通信中心
- Evaluation of Mathematical Models of Electrothermal Processes Accuracy and Reliability  
電熱處理準確性和可靠性之數學模型評價
- Methodology and Technology of Scientific Experiment  
科學實驗之方法論與技術

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

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Phone: +7 (846) 278-43-71, e-mail: [international.samgtu@gmail.com](mailto:international.samgtu@gmail.com), web-page: [www.samgtu.com](http://www.samgtu.com)

# AUTOMATION OF TECHNOLOGICAL PROCESSES AND PRODUCTION 技術處理和生產之自動化

FIELD OF STUDY / 學科領域

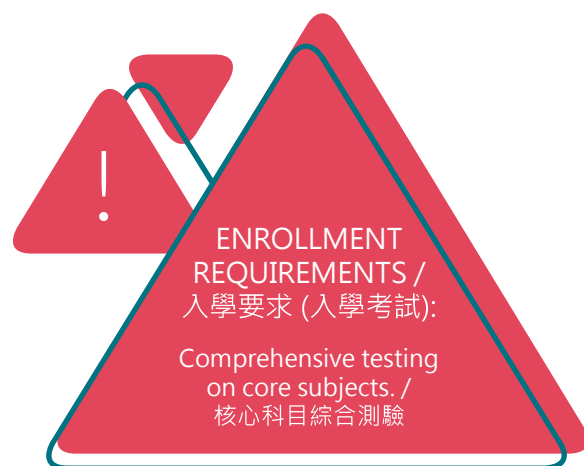
15.04.04 «AUTOMATION OF TECHNOLOGICAL PROCESSES AND PRODUCTION»  
/ 技術處理和生產之自動化

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

NIKOLAY G. GUBANOV

Head of «Automation and Control of Technological Processes» Department, Associate Professor, PhD

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY /  
2年全職學習



## PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- Within the framework of academic mobility development it is expected to create a system of mutual exchange of special courses with leading universities in the country, including Gubkin Russian State University of Oil and Gas and ITMO University.
- It is planned to invite the leading foreign and Russian scientists from universities and partner organizations to deliver lectures.
- 在學術流動發展的架構內，本方案預期將建立一個與俄羅斯頂尖大學相互交流特殊課程的系統。
- 本方案計劃邀請來自各大學和合作夥伴組織的外國和俄羅斯科學家提供講座。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Computer Technology in the Field of Automation and Control  
計算機技術在自動化和控制領域
- Modern Problems of Automation and Control  
自動化與控制的現代問題
- Software of Design Calculation of Automation Reliability  
自動化可靠性的設計計算之軟體
- Technical and Information Support of Control Systems  
控制系統的技術和資訊支持
- Identification of Dynamic Objects  
動態對象的標識
- Application Programming  
應用程式編程
- Modeling of Object and Control Systems  
目標和控制系統的建模
- Methods and Algorithms for Processing Signals and Images  
訊號和圖像處理的方法和運算法
- Computer Methods of Designing Control Systems  
設計控制系統的計算機方法
- Stability and Safety of Reactor Units in Oil and Gas Refining Processes  
石油和天然氣精煉過程中反應器單元的穩定性和安全性
- Software Tools of Technological Processes Modeling  
軟體工具的技術處理建模
- Designing a Single Information Space of Virtual enterprises  
設計虛擬企業的單一訊息空間
- Patenting  
專利
- Russian as a Foreign Language (advanced)  
俄語作為外語 (高級)
- Modern Microprocessors in Control Systems  
控制系統的現代微處理器
- Modern Tools for Development of Application Software of Microprocessor Systems  
用於微處理器系統應用軟體開發的現代工具
- Modern Trends in the Development of Oil and Gas Refining  
石油和天然氣精煉發展的現代趨勢
- Distributed Computer Information Management Systems  
分佈式計算機訊息管理系統
- Special Control Systems in Oil and Gas Processing  
石油和天然氣加工的特殊控制系統

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

443100, Samara, Molodogvardeyskaya street, 244, main building

Phone: +7 (846) 278-43-71, e-mail: [international.samgtu@gmail.com](mailto:international.samgtu@gmail.com), web-page: [www.samgtu.com](http://www.samgtu.com)

# INTELLIGENT SYSTEMS OF COMPLEX INFRASTRUCTURE MONITORING 監控複雜基礎設施的智慧系統

## FIELD OF STUDY / 學科領域

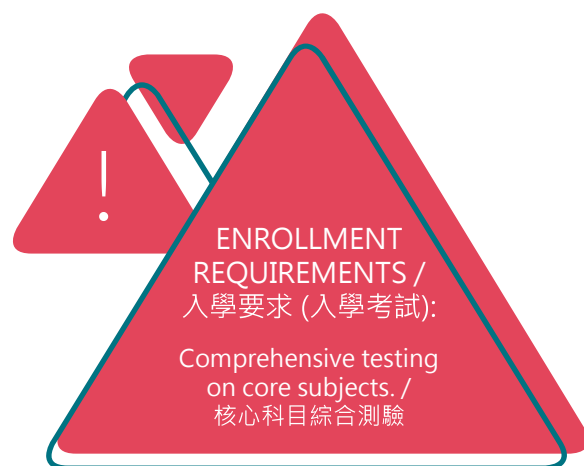
15.04.04 «AUTOMATION OF TECHNOLOGICAL PROCESSES AND PRODUCTION»  
/ 技術處理和生產之自動化

## FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

SERGEY V. SUSAREV

Associate Professor of «Automation and Control of Technological Processes» Department, PhD

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY /  
2年全職學習



## PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- Within the framework of academic mobility development it is expected to create a system of mutual exchange of special courses with Russian leading universities.
- It is planned to invite the leading foreign and Russian scientists from universities and partner organizations to deliver lectures.
- 在學術流動發展的架構內，本方案預期將建立一個與俄羅斯頂尖大學相互交流特殊課程的系統。
- 本方案計劃邀請來自各大學和合作夥伴組織的外國和俄羅斯科學家提供講座。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Software Tools of Design Calculation of Reliability of Complex Infrastructure  
複雜基礎設施可靠性的設計計算之軟體工具
- Ensuring Safety of Complex Infrastructure  
複雜基礎設施的確保安全
- Methods and Algorithms for Processing Signals of Complex Infrastructure  
複雜基礎設施處理訊號的方法和運算法
- Technical and Information Support of Control Systems of Complex Infrastructure  
複雜基礎設施控制系統的技術和訊息支援
- Use of Programmable Logic Controllers in Intelligent Monitoring Systems  
智慧監控系統中使用可編程邏輯控制器
- Distributed Management Systems of Complex Infrastructure  
複雜基礎設施的分佈式管理系統

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## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

443100, Samara, Molodogvardeyskaya street, 244, main building

Phone: +7 (846) 278-43-71, e-mail: [international.samgtu@gmail.com](mailto:international.samgtu@gmail.com), web-page: [www.samgtu.com](http://www.samgtu.com)

# INTELLIGENT TRANSPORT SYSTEMS SOFTWARE AND HARDWARE 智慧運輸系統軟體和硬體

## FIELD OF STUDY / 學科領域

15.04.04 «AUTOMATION OF TECHNOLOGICAL PROCESSES AND PRODUCTION»  
/ 技術處理和生產之自動化

## FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

NIKOLAY G. GUBANOV

Head of «Process Technologies Control and Automation» Department, Assistant Professor, PhD

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY /  
2年全職學習

ENROLLMENT  
REQUIREMENTS /  
入學要求 (入學考試):  
Comprehensive testing  
on core subjects. /  
核心科目綜合測驗

## PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- An academic mobility program with the leading Russian universities is expected to be established.
- The leading foreign and Russian scientists from partner universities and organizations are invited to give lectures/lecture courses.
- 在學術流動發展的架構內，本方案預期將建立一個與俄羅斯頂尖大學相互交流特殊課程的系統。
- 本方案計劃邀請來自各大學和合作夥伴組織的外國和俄羅斯科學家提供講座。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

Among the main disciplines of the program there are such as

- Modern Trends in the Development of Intelligent Transport Systems  
智慧運輸系統發展的現代趨勢
- Methods for Large-Scale Infrastructure Management Systems  
大型基礎設施管理系統的方法

- Software Simulation of Traffic Flows  
交通流量的模擬軟體
- Methods of Transport System Optimization  
運輸系統優化之方法
- Distributed Intelligent Transport Systems Hardware and Software for the Information Storage and Protection  
分佈式智慧運輸系統的硬體和軟體用於訊息儲存和保護

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

443100, Samara, Molodogvardeyskaya street, 244, main building

Phone: +7 (846) 278-43-71, e-mail: [international.samgtu@gmail.com](mailto:international.samgtu@gmail.com), web-page: [www.samgtu.com](http://www.samgtu.com)

# MULTI-AGENT SYSTEMS AND TECHNOLOGY OF COORDINATED CONTROL OF ROBOTIC DEVICES

## 多代理系統和協調控制的機器人設備之技術

### FIELD OF STUDY / 學科領域

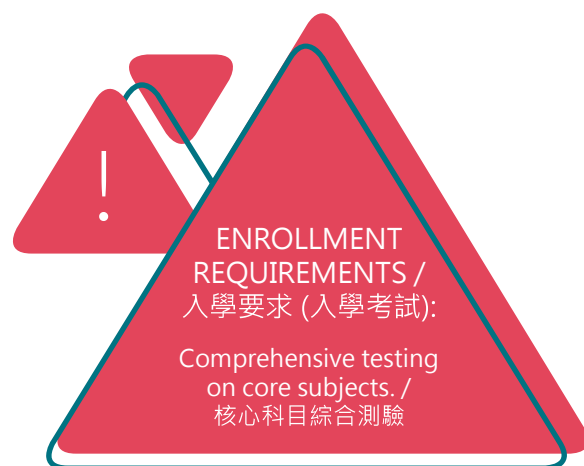
15.04.04 «AUTOMATION OF TECHNOLOGICAL PROCESSES AND PRODUCTION»  
/ 技術處理和生產之自動化

### FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

PAVEL O. SKOBELEV

Head of «Electronic Systems and Information Security» Department, Professor, Dr. of Technical Sciences

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY /  
2年全職學習



### PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- Within the framework of academic mobility development it is expected to create a system of mutual exchange of special courses with Russian leading universities.
- It is planned to invite the leading foreign and Russian scientists from universities and partner organizations to deliver lectures.
- 在學術流動發展的框架內，本方案預期將建立一個與俄羅斯頂尖大學相互交流特殊課程的系統。
- 本方案計劃邀請來自各大學和合作夥伴組織的外國和俄羅斯科學家提供講座。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Design of Multi-Agent Control Systems of Robotic Devices  
機器人裝置的多代理控制系統之設計
- Intelligent Information Systems  
智慧資訊系統
- Modern Trends in Development of Remotely Piloted Robotic Devices  
遙控機器人裝置發展的現代趨勢
- Robotics and Control Systems  
機器人和控制系統
- Distributed Computer Information Management Systems  
分佈式計算機訊息管理系統
- Supervisory Control and Data Acquisition System  
監督控制和數據採集系統

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## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

443100, Samara, Molodogvardeyskaya street, 244, main building

Phone: +7 (846) 278-43-71, e-mail: [international.samgtu@gmail.com](mailto:international.samgtu@gmail.com), web-page: [www.samgtu.com](http://www.samgtu.com)

# DESIGN AND TECHNOLOGICAL SUPPORT OF MACHINERY PRODUCTION 機械生產的設計和技術支援

## FIELD OF STUDY / 學科領域

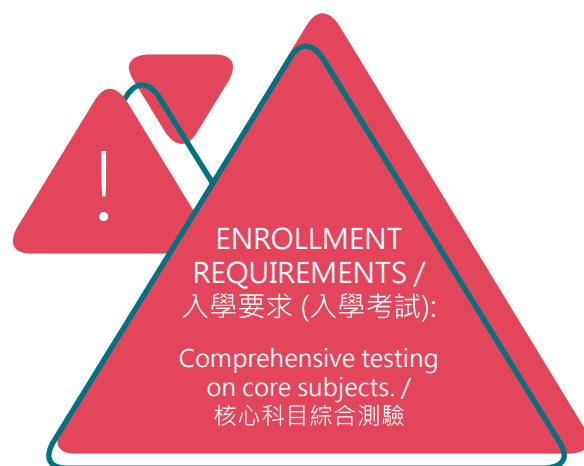
15.04.05 «DESIGN AND TECHNOLOGICAL SUPPORT OF MACHINERY PRODUCTION»  
/ 機械生產的設計和技術支援

## FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

NIKOLAY V. NOSOV

Professor of «Power Supply of Industrial Enterprises» Department, Dr. of Technical Sciences

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY /  
2年全職學習



## PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- An academic mobility program with the leading Russian universities is expected to be established.
- The leading foreign and Russian scientists from partner universities and organizations are invited to give lectures/lecture courses.
- 在學術流動發展的框架內，本方案預期將建立一個與俄羅斯頂尖大學相互交流特殊課程的系統。
- 本方案計劃邀請來自各大學和合作夥伴組織的外國和俄羅斯科學家提供講座。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Mathematical Modeling in Mechanical Engineering  
機械工程的數學建模
- Computer Technologies in Science and Industry  
科學與工業的計算機科技
- Intellectual Property Protection  
知識產權的保護
- Mathematical Methods of Processing Experimental Data  
處理實驗數據的數學方法
- Methods for Mechanical Tests and Calculations in Engineering Analysis  
工程分析的機械測試和計算之方法
- Metrological Support in Modern Mechanical Engineering  
現代機械工程的計量支持
- Modern Methods and Product Controls  
現代方法和產品控制
- Simulation of Machining Processes  
加工工藝的模擬
- Modelling of Pre-Machining Technological Processes  
預先加工工藝的模擬
- Software Engineering Tasks,  
軟體工程任務
- Programming Languages in Technologies  
科技的編程語言
- Methodology of Scientific Research in Engineering  
工程科學研究之方法論
- Nanotechnology in Mechanical Engineering  
機械工程的奈米科技
- Reliability and Diagnostics of Technological Systems  
科技系統的可靠性和診斷
- Modern Problems of Machine-Building Production Tool Support  
機器製造生產工具支持的現代問題
- Calculation, Modeling and Design of Equipment with Computer Control  
計算機控制設備的計算、建模和設計
- Technological Quality Assurance  
技術質量的保證
- Scientific Fundamentals of Engineering Technology  
工程技術的科學基礎
- Processing Technology and Programming of CNC Machines  
數控機床的加工技術與編程
- Technological Preparation of Production on the Basis of CAD-CAM Systems  
基於CAD-CAM系統的生產技術製備
- Methodology of Process Equipment and Tooling  
工藝設備和模具的方法論
- Theory of Tool Design for CNC Machine Tools  
數控機床工具的工具設計理論
- Repair Technology and Service of Machine Tools with CNC  
CNC機床工具的維修技術與服務
- Process Monitoring of Technological Equipment  
技術設備的工藝監控
- Stamps and Molds Design  
壓型器和模具設計
- Modelling of Casting and Metal Forming Processes  
鑄造和金屬成型工藝的建模

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

443100, Samara, Molodogvardeyskaya street, 244, main building

Phone: +7 (846) 278-43-71, e-mail: [international.samgtu@gmail.com](mailto:international.samgtu@gmail.com), web-page: [www.samgtu.com](http://www.samgtu.com)

# INTENSIFICATION OF OIL REFINING AND PETROCHEMISTRY PROCESSES 煉油和石油化學製程的增強

FIELD OF STUDY / 學科領域

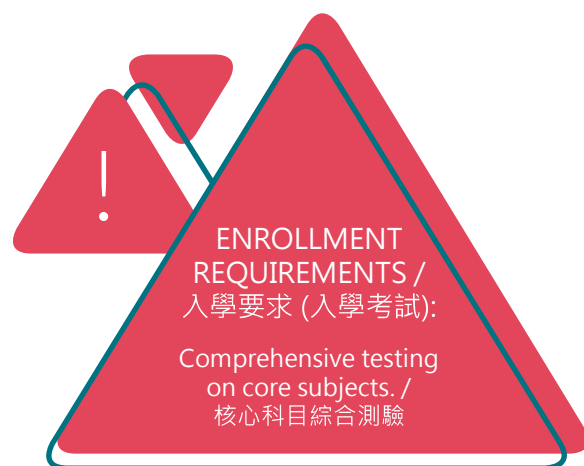
18.04.01 «CHEMICAL ENGINEERING» / 化學工程

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

ANDREY A. PIMERZIN

Head of «Chemical Engineering of Oil and Gas Processing» Department, Professor, Dr. of Chemical Sciences

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY /  
2年全職學習



PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- 1) An academic mobility program with the leading Russian universities is expected to be established.
- 2) The leading foreign and Russian scientists from partner universities and organizations are invited to give lectures/lecture courses.
- 在學術流動發展的架構內，本方案預期將建立一個與俄羅斯頂尖大學相互交流特殊課程的系統。
- 本方案計劃邀請來自各大學和合作夥伴組織的外國和俄羅斯科學家提供講座。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Theoretical Studies and Experimental Methods in chemistry  
化學的理論研究和實驗方法
- Kinetics and Catalysis in Oil Refining and Petrochemistry  
煉油和石油化學的動力學和催化反應
- Environmental Problems in Oil Refining and Petrochemical Industry  
煉油和石化工業的環境問題
- Processes Involving Mass Transfer in Condensed Phase Systems  
冷凝相系統中質量傳遞涉及的方法
- Modern Methods of Modeling and Intensification of Oil Refining and Petrochemistry Technological Processes  
煉油和石油化學技術過程的建模和增強之現代方法
- Efficient Use of Natural Resources and Energy in Oil Refining and Petrochemicals  
煉油和石油化工的有效利用自然資源和能源
- Basics of Technical Translation  
技術翻譯基礎
- Technological Design in Oil Refining and Petrochemistry Production  
煉油與石化生產之技術設計
- Basics of Oil Refining and Petrochemistry Production Theoretical Analysis  
煉油與石化生產理論分析之基礎
- Oil Refining and Petrochemistry Industry Equipment  
煉油和石油化學工業設備
- Equipment of Oil Refining and Petrochemistry Special Products  
煉油和石油化學特殊產品之設備
- Chemistry and Technology of Obtaining Special Products in Oil Refining and Petrochemistry  
獲得煉油與石油化工特殊產品之化學與技術
- Chemistry and Technology of Oil Additives and Fuel Production  
油添加劑和燃料生產之化學與技術
- Chemmotology of Oil Refining and Petrochemistry Products  
煉油和石化產品的化工學
- Structure and Properties of Oil Refining and Petrochemistry Special Products  
煉油和石化特殊產品的結構和性質
- Patenting  
專利

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

443100, Samara, Molodogvardeyskaya street, 244, main building

Phone: +7 (846) 278-43-71, e-mail: [international.samgtu@gmail.com](mailto:international.samgtu@gmail.com), web-page: [www.samgtu.com](http://www.samgtu.com)

# INDUSTRIAL ECOLOGY AND RATIONAL USE OF NATURAL RESOURCES 工業生態與自然資源的合理使用

## FIELD OF STUDY / 學科領域

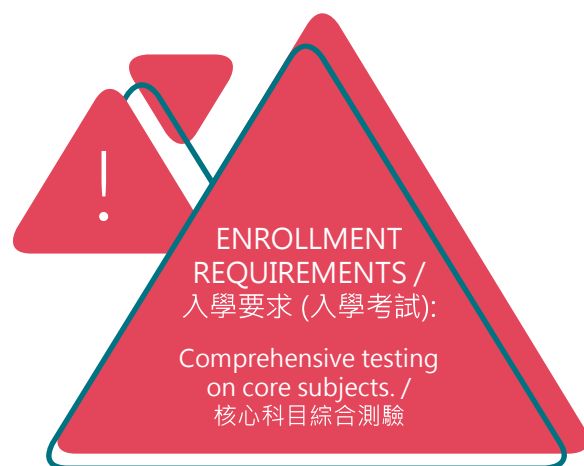
18.04.02 «ENERGY AND RESOURCE SAVING PROCESSES IN CHEMICAL ENGINEERING, PETROCHEMISTRY AND BIOTECHNOLOGY»  
/ 化學工程、石油化學和生物科技的能源和資源節約過程

## FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

DMITRY E. BYKOV

SSTU Rector, Professor, Doctor of Technical Sciences

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY /  
2年全職學習



## PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- An academic mobility program with the leading Russian universities is expected to be established.
- The leading foreign and Russian scientists from partner universities and organizations are invited to give lectures/lecture courses.
- 在學術流動發展的架構內，本方案預期將建立一個與俄羅斯頂尖大學相互交流特殊課程的系統。
- 本方案計劃邀請來自各大學和合作夥伴組織的外國和俄羅斯科學家提供講座。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Chemical, Petrochemical and Biological Industries Economy and Management  
化工、石化和生物工業之經濟與管理
- Complementary Chapters of Mathematics  
數學(補充章節)
- Theory of System Analysis and Decision-Making  
系統分析與決策理論
- Optimization and Organization Methods of Energy and Resource Saving and Chemical Technological Systems  
能源、資源節約與化學技術系統之優化和組織方法
- Industrial Ecological Safety Management  
工業生態安全管理
- Surface Phenomena and Disperse Systems  
表面現象和分散系統
- Basics of Thermodynamics and Resource Saving  
熱力學和資源節約之基礎學
- Resource Saving and Environmental Protection in Oil Production, Refining, Petrochemistry and Energy Sectors  
石油生產、煉油、石油化工和能源部門之資源節約和環境保護
- Resource Saving and Environmental Protection in Metallurgy, Mechanical Engineering and Construction Industry  
冶金、機械工程和建築行業之資源節約和環境保護
- Design and Operation of Gas Emission Treatment Equipment  
氣體排放處理設備之設計和操作
- Design and Operation of Sewage Treatment Equipment  
污水處理設備之設計與操作
- Design and Operation of the Processing Equipment and Industrial and Municipal Solid Waste  
加工設備、工業和都市垃圾之設計與操作
- Industrial Environmental Monitoring  
工業環境監測
- Environmental Quality Assessment and Management  
環境質量評估與管理
- Treatment and Disposal of Sewage Sludge  
污水污泥之處理和處置
- Recultivation of Pits with Waste  
廢物坑再生
- Basics of Planning and Mathematical Processing of Experimental Data  
實驗數據的規劃和數學處理之基礎學
- Basics of Multivariate Data Analysis  
多變量數據分析之基礎學
- Using Professional Software  
專業軟體使用
- Methods and Means of Environmental Information Processing  
環境訊息處理之方法與手段
- Logistics Waste Management  
物流廢物管理
- Basics of Recycling  
資源回收基礎學

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

443100, Samara, Molodogvardeyskaya street, 244, main building

Phone: +7 (846) 278-43-71, e-mail: [international.samgtu@gmail.com](mailto:international.samgtu@gmail.com), web-page: [www.samgtu.com](http://www.samgtu.com)

# BIOTECHNOLOGY OF FUNCTIONAL FOOD PRODUCTS AND BIOLOGICALLY ACTIVE SUBSTANCES

## 功能性食品和生物活性物質之生物科技

FIELD OF STUDY / 學科領域

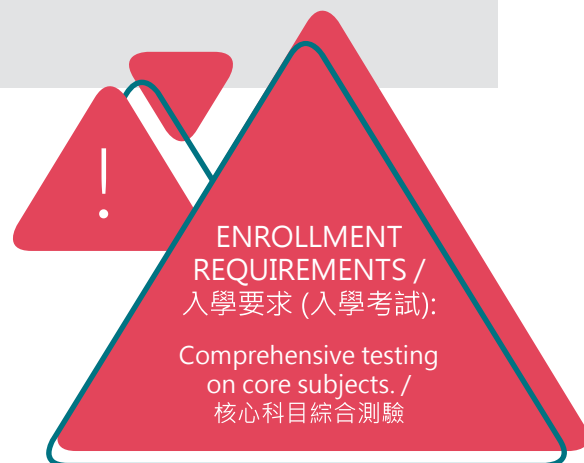
19.04.01 «BIOTECHNOLOGY» / 生物科技

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

VLADIMIR V. BAKHAREV

Doctor of Technical Sciences, Food Production Technologies Faculty Dean

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY /  
2年全職學習



### PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- Biotechnology is one of the key directions of innovative technological development in a number of industries. Over the past few years there is a rapid growth due to greater opportunities for the solution of global problems, in particular, the preparation of functional food products, probiotics, prebiotics and synbiotics, dietary protein and enzyme preparations, synthesis of food ingredients.
- Nowadays in the Russian Federation there is a need to create a powerful modern bioindustry, capable of ensuring the country's needs for basic products of biotechnology. To achieve this goal students of the Faculty of Food Production Technologies get in-depth fundamental and professional training in the field of molecular biology and genetics of microorganisms, biochemistry and biotechnology food products and biologically active substances, environmental biotechnology.
- 生物科技是許多行業創新技術發展的關鍵方向之一。在過去幾年來，生物科技發生快速增長，由於有更大的機會以解決全球性問題，特別是製成功能性食品、益生菌、益生元和合生素、膳食蛋白質和酶製劑、食品的合成。
- 如今在俄羅斯聯邦，需要建立一個強大的現代生物技術工業，能夠確保俄羅斯對生物科技的基本產品的需求。為實現此一目標，對食品生產技術學院的學生，進行深入的基礎和專業培訓，培訓領域包括分子生物學、微生物遺傳學、生物化學和生物技術食品、生物活性物質、環境生物技術。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Humanitarian Aspects of Professional Activity  
專業活動之人道主義面向
- Scientific Discourse  
科學話語
- Modern Problems of Biotechnology  
生物科技的現代問題
- Mathematical Modeling of Biotechnological Processes  
生物科技處理的數學建模
- Methodology of Research in Biotechnology  
生物科技研究方法論
- Modern Problems of Ecology, Energy and Resources Saving in Biotechnology  
生物科技的生態、能源和資源節約之現代問題
- Bioethics and Biosafety  
生物倫理學和生物安全
- Biochemistry and Physiology of Microorganisms  
微生物之生物化學和生理學
- Basics of New Producing strains Design of Biologically Active Substances  
生物活性物質的新生產菌株和設計的基礎
- Scientific Base for Biotechnology Development of Functional Food Products  
功能食品的生物科技開發之科學基礎
- Biotechnology of Biologically Active Substances  
生物活性物質的生物科技
- Biotechnological Processes of Food Processing  
食品加工的生物科技處理
- Innovation Workshop  
創新研討會
- Engineering Enterprise  
工程企業
- Quality Management of Biotechnology Products  
生物科技產品質量管理
- Innovative Biotechnology Processing of Vegetable Raw Materials  
蔬菜原料的創新生物加工
- Innovative Biotechnology of Fermentation and Bakery Industries  
發酵和麵包工業的創新生物科技
- Modern Problems of Food Technology  
食品科技的現代問題
- Scientific Base of Food Technology Efficiency Increase  
食品技術效率提高的科學基礎
- Biotechnology of Human Normal Flora Products and Probiotic Products  
人類正常植物產品和益生菌產品的生物科技
- Biotechnology Prebiotics and Probiotic Products  
益生菌和益生菌產品的生物科技
- Practice Work for Primary Professional Skills Obtaining  
獲得主要專業技能的實踐工作

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

443100, Samara, Molodogvardeyskaya street, 244, main building

Phone: +7 (846) 278-43-71, e-mail: [international.samgtu@gmail.com](mailto:international.samgtu@gmail.com), web-page: [www.samgtu.com](http://www.samgtu.com)

# INDUSTRIAL ECOLOGY AND RATIONAL USE OF NATURAL RESOURCES 工業生態與自然資源的合理使用

FIELD OF STUDY / 學科領域

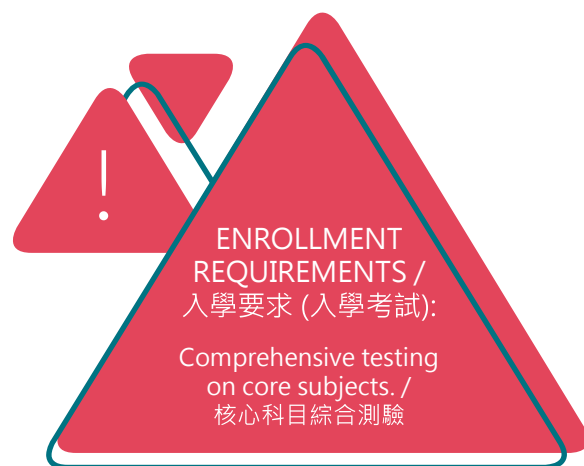
20.04.01 «TECHNOSPHERE SAFETY» / 技術安全

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

MIKHAIL I. BALZANNIKOV

Director of ACEI SSTU, Vice-Rector of Architectural and Construction Education, Professor, Doctor of Technical Sciences

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY /  
2年全職學習



## PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- Participation in project work in the field of human protection from man-made influences. Participation in the development of security requirements in the preparation of rational investments and projects.
- Security control operation; selection of well-known methods of protecting human and environment and elimination of emergency situations for specific conditions. Preparation of safety instructions.
- Performing monitoring of fields and danger sources environment; participation in safety assessment, environmental impact assessment.
- Participation in carrying out scientific research in the field of security, perform experiments and processing the results.
- 參與人類保護領域的專案工作，避免人為的影響。參與制定合理投資和專案的安全要求。
- 安全控制的操作；選擇保護人類和環境的知名方法以消除特定條件下的緊急情況。安全說明的準備。
- 執行田野和危險源環境的監測；參與安全性評估、環境影響評估。
- 參與安全領域的科學研究，執行實驗與處理結果。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Information Technologies in Safety Sphere  
安全領域的資訊技術
- Security Economy and Management  
安全經濟與管理
- Risk Management, System Analysis and Modeling  
風險管理、系統分析與建模
- Business Foreign Language  
商業外語
- Monitoring Safety  
安全監控
- Safety Systems Calculation and Design  
安全系統計算與設計
- Experiment Planning  
實驗計劃
- Physical and Chemical Bases of Environment Protection Processes  
環境保護過程之物理化學基礎
- Modern River Basin Protection Issues  
現代河流流域保護議題
- Modern Technologies of Physico-Chemical Wastewater Treatment  
物理化學廢水處理之現代技術
- Ensuring Environmental Safety in the Field of Professional Activity  
專業活動領域之確保環境安全
- Environmental Diagnosis of Environment State  
環境狀況之環境診斷
- Safety Expertise  
安全性專長
- Logic and Methodology of Scientific Research  
科學研究之邏輯與方法論
- Modern Regional Issues to Ensure the Necessary Environment Quality  
確保必要環境質量之現代區域性議題
- Environmental Risks  
環境風險

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

443100, Samara, Molodogvardeyskaya street, 244, main building

Phone: +7 (846) 278-43-71, e-mail: [international.samgtu@gmail.com](mailto:international.samgtu@gmail.com), web-page: [www.samgtu.com](http://www.samgtu.com)

# MONITORING OF AREAS WITH HIGH ANTHROPOGENIC LOAD 高人居負載地區的監測

FIELD OF STUDY / 學科領域

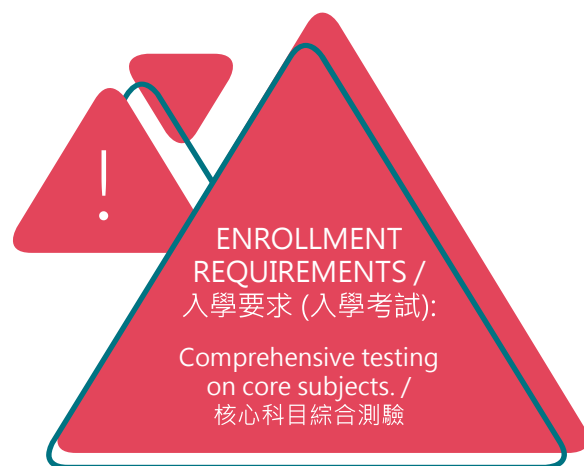
20.04.01 «TECHNOSPHERE SAFETY» / 技術安全

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

ANDREY V. VASILEV

Head of «Chemical Technology and Industrial Ecology» Department, Professor, Doctor of Technical Sciences, Samara Region Honored Ecologist

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY /  
2年全職學習



## PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- An academic mobility program with the leading Russian universities including Ufa State Petroleum Technological University and Kazan State Power Engineering University is expected to be established.
- The leading foreign and Russian scientists from partner universities and organizations are invited to give lectures/lecture courses.
- Master internships in University of Naples Federico II, Italy and Riga Technical University, Latvia.
- 在學術流動發展的框架內，本方案預期將建立一個與俄羅斯頂尖大學相互交流特殊課程的系統。
- 本方案計劃邀請來自各大學和合作夥伴組織的外國和俄羅斯科學家提供講座。
- 本方案碩士學生在義大利的那不勒斯Naples Federico II大學、拉脫維亞(Latvia)的里加技術大學(Riga Technical University)實習。
- 在學術流動發展的框架內，本方案預期將建立一個與俄

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Environmental Economics and Environmental Protection  
環境經濟學與環境保護
- Complementary Chapters of Mathematics  
數學(補充章節)
- Theory of System Analysis and Decision-Making  
系統分析與決策之理論
- Basics of Recycling  
資源回收基礎學
- Surface Phenomena and Disperse Systems  
表面現象和分散系統
- Biological Monitoring  
生物監測
- Physical and Chemical Pollution Monitoring  
物理和化學污染監測
- Environmental Control and Certification  
環境控制與認證
- Security Expertise  
安全專業
- Methods and Tools for Environmental Monitoring  
環境監測之方法與工具
- Systems Engineering Safety and Environmental Risk  
系統工程安全與環境風險
- Basics of Scientific Research  
科學研究基礎學
- Industrial Environmental Monitoring  
工業環境監測
- Assessment and Management of Environmental Quality  
環境質量之評價與管理
- Stable Functioning of Ecological and Economic Systems  
生態與經濟系統之穩定運作
- Methods of Minimizing Enterprise Impact on Environment  
企業對環境影響最小化之方法
- Basics of Planning and Mathematical Processing of Experimental Results  
實驗結果的規劃和數學處理之基礎學
- Basics Multivariable of Data Analysis  
多變量數據分析基礎學
- Using professional Software  
專業軟體之使用

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

443100, Samara, Molodogvardeyskaya street, 244, main building

Phone: +7 (846) 278-43-71, e-mail: [international.samgtu@gmail.com](mailto:international.samgtu@gmail.com), web-page: [www.samgtu.com](http://www.samgtu.com)

# CONSTRUCTION OF CONTROLLED DIRECTIONAL AND HORIZONTAL WELLS 受控方向和水平井的建造

FIELD OF STUDY / 學科領域

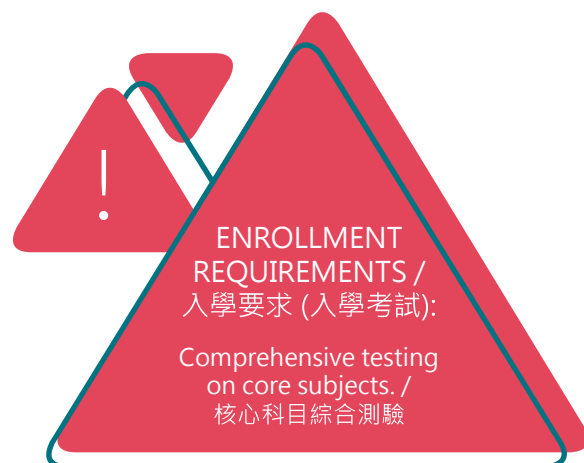
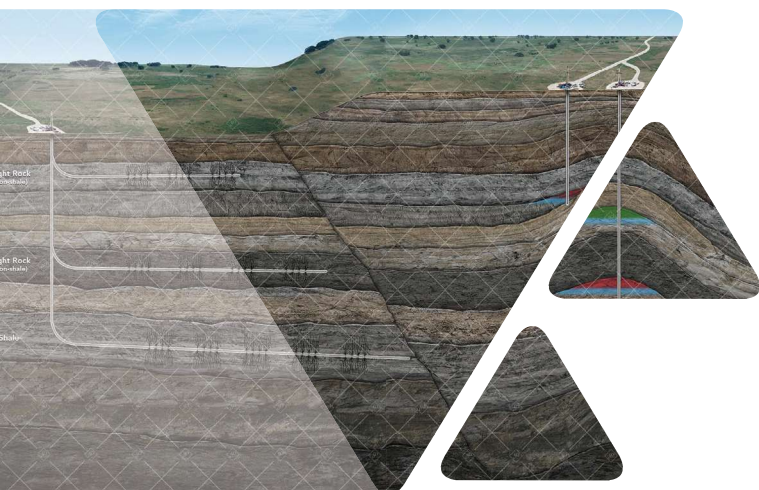
21.04.01 «OIL AND GAS ENGINEERING» / 石油和天然氣工程

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

VERA V. ZHIVAEVA

PhD, Associate Professor, Head of «Oil and Gas Wells Drilling» Department

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY /  
2年全職學習



ENROLLMENT  
REQUIREMENTS /  
入學要求 (入學考試):

Comprehensive testing  
on core subjects. /  
核心科目綜合測驗

## PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- An academic mobility program with the leading Russian universities including Gubkin University is expected to be established.
- The leading foreign and Russian scientists from partner universities and organizations are invited to give lectures/lecture courses.
- Master internships in University of Koblenz – Landau, Germany.
- 在學術流動發展的框架內，本方案預期將建立一個與俄羅斯頂尖大學相互交流特殊課程的系統。
- 本方案計劃邀請來自各大學和合作夥伴組織的外國和俄羅斯科學家提供講座。
- 本方案碩士學生在德國的University of Koblenz – Landau大學實習。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Mathematical Modeling in Oil and Gas Industry  
石油和天然氣工業之數學建模
- Methods of Mathematical Physics  
數學物理學之方法
- General Theory of Dynamical Systems  
動力系統之通用理論
- Economy and Management of Oil and Gas Production  
石油和天然氣生產之經濟與管理
- Design Methodology in Oil and Gas Industry and Project Management  
石油天然氣工業和專案管理之設計方法
- Business Planning in Oil and Gas Industry  
石油和天然氣工業之商業規劃
- Information Systems  
資訊系統
- Theory of Decision-Making  
決策理論
- Problems of Oil and Gas World Market  
石油和天然氣之世界市場問題
- Safety Process During Wells Construction  
油井施工的安全處理
- Wells Rinse under Complicated Conditions  
複雜情況下之油井沖洗
- Numerical Methods in Oil and Gas Industry  
石油和天然氣工業的數值方法
- Computer Aided Design  
計算機輔助設計
- Intelligent Wells Pumping In  
智慧井泵注入
- Special Software  
特殊軟體
- Computer Modeling Methods of Controlled Directional Wells Construction  
控制定向井建構之計算機建模方法
- Oil Fields Chemicals  
油田化學品
- Disperse Systems  
分散系統
- Complications and Accidents Prevention and Elimination  
併發症和事故之預防和排除
- Process Fluids for Wells opening, Development and Killing  
油井打開、發展和消滅之處理流體
- Construction of Controlled Directional Wells on Land and at Sea  
陸地和海上受控定向井之建造
- Measurement and Control of Oil and Gas Production Technological Processes  
石油和天然氣生產技術過程之測量和控制
- Production Management at Enterprises  
企業生產管理
- Oil and Gas Bearing Areas  
石油和天然氣貯藏地區
- Management and Marketing in Industry  
工業管理與行銷
- Drilling Fluid Mechanics  
鑽井流體力學
- Information Technology in Drilling  
鑽井資訊科技

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

443100, Samara, Molodogvardeyskaya street, 244, main building

Phone: +7 (846) 278-43-71, e-mail: [international.samgtu@gmail.com](mailto:international.samgtu@gmail.com), web-page: [www.samgtu.com](http://www.samgtu.com)

# HYDROCARBONS PIPELINE TRANSPORT

## 碳氫化合物管道運輸

FIELD OF STUDY / 學科領域

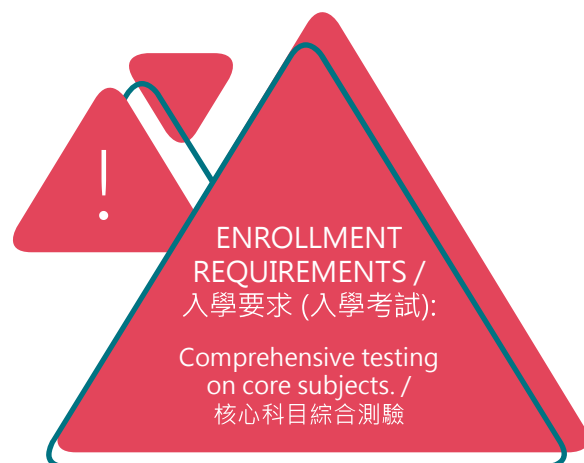
21.04.01 «OIL AND GAS ENGINEERING» / 石油和天然氣工程

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

VLADIMIR K. TYAN

Doctor of Technical Sciences, Head of «Pipeline Transport» Department

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY /  
2年全職學習



ENROLLMENT  
REQUIREMENTS /  
入學要求 (入學考試):

Comprehensive testing  
on core subjects. /  
核心科目綜合測驗

PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- An academic mobility program with the leading Russian universities is expected to be established.
- The leading foreign and Russian scientists from partner universities and organizations are invited to give lectures/lecture courses.
- 在學術流動發展的架構內，本方案預期將建立一個與俄羅斯頂尖大學相互交流特殊課程的系統。
- 本方案計劃邀請來自各大學和合作夥伴組織的外國和俄羅斯科學家提供講座。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Mathematical Modeling in Oil and Gas Industry  
石油和天然氣工業之數學建模
- Methods of Mathematical Physics  
數學物理學之方法
- General Theory of Dynamical Systems  
動力系統之通用理論
- Economy and Management of Oil and Gas Production  
石油和天然氣生產之經濟學與管理
- Design Methodology in Oil and Gas Industry and Project Management  
石油天然氣工業和專案管理之設計方法論
- Business Planning in Oil and Gas Industry  
石油和天然氣工業之商業規劃
- Information Systems  
資訊系統
- Theory of Decision-Making  
決策理論
- Problems of Oil and Gas World Market  
石油和天然氣之世界市場問題
- Technological Processes of Hydrocarbons Pipeline Transport  
碳氫化合物管道運輸之技術處理
- Methods of Prevention and Elimination of Accidents and Disasters Consequences  
預防和排除事故和災害後果之方法
- Computer Aided Design  
計算機輔助設計
- Multiphase Flows  
多相流動
- Application software in Hydrocarbons Pipeline Transport  
碳氫化合物管道運輸之應用軟體
- Measurement and Control of Oil and Gas Production Technological Processes  
石油和天然氣生產技術過程之測量和控制
- Industrial Safety of Pipeline Systems  
管道系統之工業安全
- Evaluation and Risks Analysis  
評估和風險分析
- Numerical Methods in Oil and Gas Industry  
石油和天然氣工業之數值方法
- Physical and Chemical Research Methods of Materials, Reagents and Hydrocarbon Systems  
材料、試劑和烴系統之物理和化學研究方法
- Technological Reliability of Pipelines  
管道之技術可靠性
- Methods of Hydrocarbons Pipeline Transport Similarity and Dimension Theory  
碳氫化合物管道運輸之相似性和尺寸理論
- Resource-saving Technologies in Oil and Gas Industry  
石油和天然氣工業之資源節約技術
- Offshore Oil and Gas Design and Operation  
海洋石油和天然氣之設計和運作

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

443100, Samara, Molodogvardeyskaya street, 244, main building

Phone: +7 (846) 278-43-71, e-mail: [international.samgtu@gmail.com](mailto:international.samgtu@gmail.com), web-page: [www.samgtu.com](http://www.samgtu.com)

# OIL FIELDS DEVELOPMENT

## 油田開發

FIELD OF STUDY / 學科領域

21.04.01 «OIL AND GAS ENGINEERING» / 石油和天然氣工程

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

VICTOR V. KONOVALOV

PhD, Head of «Oil and Gas Fields Development» Department

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY /  
2年全職學習

ENROLLMENT  
REQUIREMENTS /  
入學要求 (入學考試):

Comprehensive testing  
on core subjects. /  
核心科目綜合測驗

### PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- An academic mobility program with the leading Russian universities including Saint Petersburg Mining University, Gubkin University and Ufa State Petroleum Technological University is expected to be established.
- The leading foreign and Russian scientists from partner universities and organizations are invited to give lectures/lecture courses.
- 在學術流動發展的框架內，本方案預期將建立一個與俄羅斯頂尖大學相互交流特殊課程的系統，包括聖彼得堡礦業大學(Saint Petersburg Mining University)、古布金大學(Gubkin University)和烏法國立石油技術大學(Ufa State Petroleum University)。
- 本方案計劃邀請來自各大學和合作夥伴組織的外國和俄羅斯科學家提供講座。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Mathematical Modeling in Oil and Gas Industry  
石油和天然氣工業之數學建模
- Methods of Mathematical Physics  
數學物理學之方法
- General Theory of Dynamical Systems  
動力系統之通用理論
- Economy and Management of Oil and Gas Production  
石油和天然氣生產之經濟學與管理
- Design Methodology in Oil and Gas Industry and Project Management  
石油天然氣工業和專案管理之設計方法
- Business Planning in Oil and Gas Industry  
石油和天然氣工業之商業規劃
- Information Systems  
資訊系統
- Theory of Decision-Making  
決策理論
- Current Problems in Oil and Gas Science, Engineering and Technology  
石油和天然氣科學、工程和技術之當前問題
- Development of Oil Fields  
油田開發
- Construction of Oil Fields  
油田建設
- Operating Oil Wells under Complicated Conditions  
複雜情況下之油井操作
- Numerical Methods in Oil and Gas Industry  
石油和天然氣工業之數值方法
- Computer Aided Design  
計算機輔助設計
- Management of Intelligent Fields Development  
智慧領域發展之管理
- Methods of Wells and Reservoirs Hydrodynamic Studies  
井和貯藏的流體動力學研究之方法
- Measurement and Control of Oil and Gas Production Technological Processes  
石油和天然氣生產技術過程之測量和控制
- Oil Fields Operational Management  
油田作業管理
- Oil Fields Chemicals  
油田化學品
- Disperse Systems  
分散系統
- Oil Fields Computer Modeling  
油田計算機建模
- Special Application Software  
特殊應用軟體
- Technologies Targeted Stimulation  
技術目標刺激
- Methods of Reservoir and Wells Stimulating  
貯藏和油井之刺激方法

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

443100, Samara, Molodogvardeyskaya street, 244, main building

Phone: +7 (846) 278-43-71, e-mail: [international.samgtu@gmail.com](mailto:international.samgtu@gmail.com), web-page: [www.samgtu.com](http://www.samgtu.com)

# PROJECT MANAGEMENT IN OIL AND GAS INDUSTRY 石油和天然氣工業之專案管理

FIELD OF STUDY / 學科領域

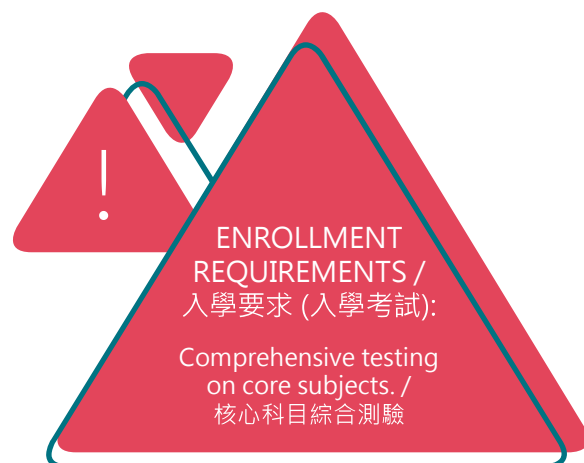
21.04.01 «OIL AND GAS ENGINEERING» / 石油和天然氣工程

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

LARISA A. ILYINA

Doctor of Economics, Associate Professor, Head of «Industrial Economics and Production Management» Department, Dean of Engineering Economics Faculty

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY /  
2年全職學習



## PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- Prospects of the program development are designed taking into account the employers views and the Department of graduates employment which has the status of a regional center of graduates employment, Engineering Economics Faculty, and its Chairs organize activities to promote employability of graduates.
- Program development is associated with the adjustment of its structure and content, the introduction of interactive forms of learning, the transition to design modular education, systematic updating of the program, taking into account the requirements of professional standards, the annual monitoring of the implementation process of the program.

本方案發展前景是考慮到雇主的意見和畢業生就業中心而設計的，後者地位是區域畢業生就業中心、工程經濟學院，其主席的組織活動以促進畢業生的就業能力。

- 方案的發展是與其結構和內容的調整有關，例如互動式學習的引入，向模組化教育的設計過渡，計劃系統更新，專業標準的要求，每年監測方案執行過程。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Foreign Language in Professional Sphere  
專業領域外語
- Humanitarian Aspects of Professional Activity  
專業活動之人道主義面向
- Technology of Controlled Directional and Horizontal Wells Construction  
控制方向和水平井建構之技術
- Technology of Oil and Gas Production  
石油和天然氣之生產技術
- Hydrocarbons Pipeline Transport Technology  
碳氫化合物管道輸送技術;
- Economy and Management of Oil and Gas Production  
石油和天然氣生產之經濟與管理
- Problems of Oil and Gas World Market  
石油和天然氣世界市場之問題
- Methodology of Design in Oil and Gas Industry  
石油和天然氣工業設計之方法論
- Management Decision-making Technology  
管理決策技術
- Business Planning in Oil and Gas Industry  
石油和天然氣工業之商業規劃
- Econometrics  
計量經濟學
- Management of Marketing and Branding projects in Oil and Gas Industry  
石油和天然氣工業的市場行銷和品牌專案之管理
- Organizational Skills and Leadership  
組織技能和領導
- Team Building Projects  
團隊建設專案
- Project Management in Oil and Gas Industry  
油氣工業專案管理
- Innovation Workshop  
創新研討會
- Basics of Technological Achievements Commercialization  
技術成果商業化之基礎學
- Projects Strategic of Oil and Gas Bearing Regions Development  
石油天然氣貯藏地區開發之專案策略
- Project Management Business Acceleration  
專案管理業務加速
- Economic Analysis of Costs and Effectiveness of Manufacturing Processes in Oil and Gas Industry  
石油和天然氣工業製造過程的成本和效率之經濟分析
- Evaluation and Planning Margins of Technological Processes and Oil and Gas Industry  
技術應用和石油天然氣工業之評估和規劃幅度
- Production Management at Hydrocarbons Pipeline Transport Facilities  
碳氫化合物管道運輸設施之生產管理
- Crisis Management in Risk Management System  
風險管理系統之危機管理
- Economic and Legal Issues of Holding Making  
控股之經濟和法律議題
- Legal Business Environment (in English)  
法律業務環境 (英文)

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

443100, Samara, Molodogvardeyskaya street, 244, main building

Phone: +7 (846) 278-43-71, e-mail: [international.samgtu@gmail.com](mailto:international.samgtu@gmail.com), web-page: [www.samgtu.com](http://www.samgtu.com)

## SELF-PROPAGATING HIGH-TEMPERATURE SYNTHESIS (SHS) OF POWDER AND COMPOSITE NANOMATERIALS AND NANOCOATINGS TECHNOLOGY 粉末和複合奈米材料和奈米塗層技術之自蔓延高溫合成

FIELD OF STUDY / 學科領域

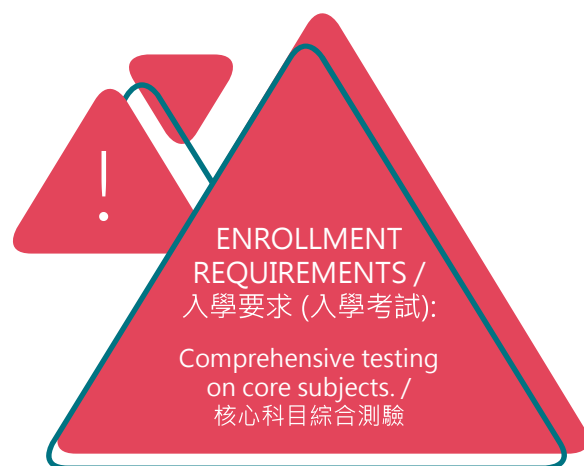
22.04.01 «MATERIAL ENGINEERING AND MATERIALS TECHNOLOGY» / 材料工程與材料技術

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

ALEKSANDR P. AMOSOV

Doctor of Physical and Mathematical Sciences, Professor, Head of «Material Engineering, Powder Metallurgy, Nanomaterials» Department, Honored Scientist of the Russian Federation, Russian Academy of Sciences Expert

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY /  
2年全職學習



ENROLLMENT  
REQUIREMENTS /  
入學要求 (入學考試):

Comprehensive testing  
on core subjects. /  
核心科目綜合測驗

### PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- An academic mobility program with the leading Russian universities including Institute of Structural Macrokinetics and Materials Science RAS is expected to be established.
- The leading foreign and Russian scientists from partner universities and organizations are invited to give lectures/lecture courses.
- 在學術流動發展的架構內，本方案預期將建立一個與俄羅斯頂尖大學相互交流的計劃，包括結構宏觀動力學研究所、材料科學研究所。
- 本方案計劃邀請來自各大學和合作夥伴組織的外國和俄羅斯科學家提供講座。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Foreign Language in Professional Sphere  
專業領域外語
- Humanitarian Aspects of Professional Activity  
專業活動之人道主義面向
- Scientific Discourse  
科學話語
- Math Modeling  
數學建模
- Modern Problems of Materials Science  
材料科學之現代問題
- Computer and Information Technologies in Science and Production  
科學和生產之計算機與資訊科技
- Material Engineering and Technologies of Modern Advanced Materials  
現代先進材料之材料工程與技術
- History and Methodology of Science  
科學之歷史和方法論
- Physical and Chemical Basics of SHS  
SHS之物理和化學基礎
- Synthesis of Nanomaterials in Combustion and Explosion  
奈米材料在燃燒和爆炸中之合成
- Theory of Sintering and Interfacial Interactions  
燒結和界面相互作用之理論
- Scientific Basics and Practice of Nanocoatings Application  
奈米塗層應用之科學基礎和實踐
- Modern Methods of Structural Analysis in Material Engineering  
材料工程的結構分析之現代方法
- Theory of Heterogeneous Systems Combustion  
異構系統燃燒之理論
- Innovation Workshop  
創新研討會
- Basics of Technological Achievements Commercialization  
技術成果商業化之基礎學
- Metal Market and Nonmetal Steel Market Management  
金屬市場和非金屬鋼鐵市場管理
- Innovation Management  
創新管理
- Intellectual Property Protection and Patenting  
知識產權之保護和專利
- Optimization of Economic and Technological Problems  
經濟和技術問題之優化
- Decisions Management in Material Engineering and Metallurgy  
材料工程與冶金之決策管理
- Mechanics of Deformation and Fracture  
變形和斷裂力學
- Structural Strength of Materials  
材料的結構強度
- Special Disciplines for Master Thesis  
專業碩士論文

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

443100, Samara, Molodogvardeyskaya street, 244, main building

Phone: +7 (846) 278-43-71, e-mail: [international.samgtu@gmail.com](mailto:international.samgtu@gmail.com), web-page: [www.samgtu.com](http://www.samgtu.com)

# FOUNDRIY METALLURGICAL PROCESSES AND TECHNOLOGIES 鑄造冶金工藝和技術

FIELD OF STUDY / 學科領域

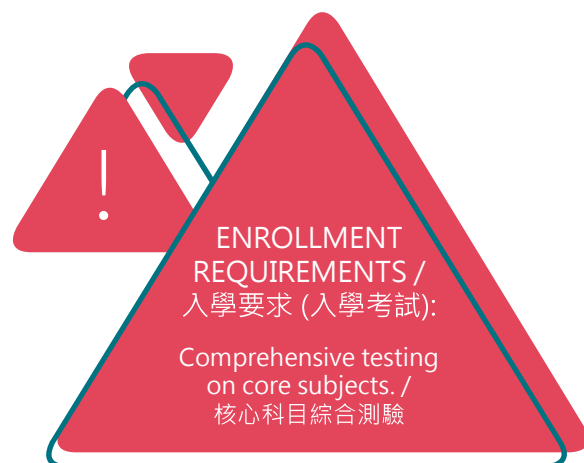
22.04.02 «METALLURGY» / 冶金

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

KONSTANTIN V. NIKITIN

Doctor of Economics, Associate Professor, Head of «Industrial Economics and Production Management» Department, Dean of Engineering Economics Faculty

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY /  
2年全職學習



ENROLLMENT  
REQUIREMENTS /  
入學要求 (入學考試):

Comprehensive testing  
on core subjects. /  
核心科目綜合測驗

PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- An academic mobility program with the leading Russian universities including Ural Federal University, Siberian Federal University, Ufa State Aviation Technical University is expected to be established.
- The leading foreign and Russian scientists from partner universities and organizations are invited to give lectures/lecture courses.

在學術流動發展的架構內，本方案預期將建立一個與俄羅斯頂尖大學相互交流的計劃，包括烏拉爾聯邦大學 (Ural Federal University)、西伯利亞聯邦大學 (Siberian Federal University)、烏法國立航空技術大學 (Ufa State Aviation Technical University)。

- 本方案計劃邀請來自各大學和合作夥伴組織的外國和俄羅斯科學家提供講座。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Organization of Experiments Mathematical Planning  
數學規劃實驗組織
- Scientific Research Methodology  
科學研究方法論
- Modern Problems of Metallurgy and Materials  
冶金與材料之現代問題
- Information Technologies in Metallurgy  
冶金資訊技術
- Modeling and Optimization of Metallurgical Processes  
冶金工藝之建模與優化
- Structure and Properties of Steel Alloys  
鋼合金之結構和性能
- Methods of Control and Testing of Metallic Materials  
金屬材料控制和測試之方法
- High-Technology Treatment of Metals and Alloys  
金屬和合金之高科技處理
- Theory and Practice of Structural Heredity  
結構性遺傳之理論與實踐
- Efficient Use of Resources in Metals Production  
金屬生產資源之有效利用
- Market of Metals and Alloys (Steel Market Management)  
金屬和合金市場 (鋼鐵市場管理)
- Cast Composite Alloys (Nanostructured Alloys)  
鑄造複合合金 (奈米結構合金)
- Technology for Genetic Engineering and Non-Ferrous Alloys  
基因工程和有色金屬合金之技術
- Modern Non-Ferrous Alloy Production Technology  
現代有色金屬合金生產技術
- Metallurgical Processes of Welding and Brazing  
焊接和釐焊之冶金過程

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

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Phone: +7 (846) 278-43-71, e-mail: [international.samgtu@gmail.com](mailto:international.samgtu@gmail.com), web-page: [www.samgtu.com](http://www.samgtu.com)

# CONTROL IN ENGINEERING SYSTEMS 工程系統中的控制

FIELD OF STUDY / 學科領域

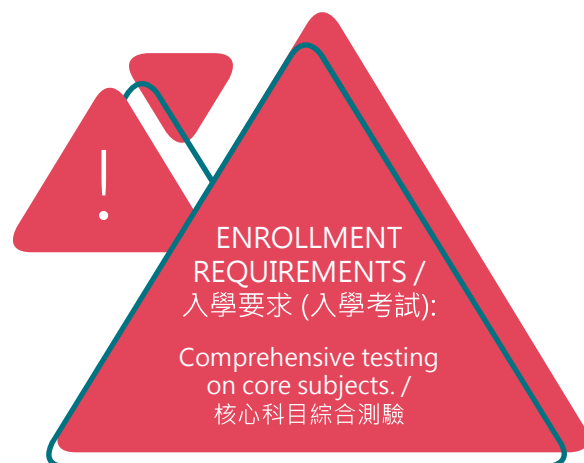
27.04.04 «MANAGEMENT IN ENGINEERING SYSTEMS» / 工程系統管理

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

VLADIMIR N. MITROSHIN

Doctor of Technical Sciences, Professor, Head of «Automation and control in engineering systems» Department

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY /  
2年全職學習



PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- Individual students preparation for future employers; training, research and production complex for continuous study of qualified graduates; intensification of highly qualified specialists training through doctoral studies.
- 方案個人學生是為未來的雇主做準備；培訓、研究和生產複合材料是為合格畢業生的繼續學習；經由博士研究而強化高素質專業人才的訓練。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- History and Methodology of Science and Technology in the Field of Control  
控制領域科學技術的歷史和方法
- Mathematical Modeling of Objects and Control Systems  
物件和控制系統之數學建模
- Computer Technology Control in Engineering Systems  
工程系統中的計算機技術控制
- Information Support System Design  
資訊支援系統設計
- Automation and Control  
自動化與控制
- Modern Problems of Control Theory  
控制理論之現代問題
- Optimal Control  
最優控制
- Adaptive Control  
適應性控制
- Object and Control Systems Identification and Diagnosis  
物件與控制系統之識別和診斷
- Integrated Automatic Control System  
集成自動控制系統
- Basics of Systems Analysis and Operations Research  
系統分析與作業研究之基礎
- Methods of Regulators in Hybrid Continuous-Discrete Control Systems Synthesis  
混合連續離散控制系統合成之調節器方法
- Control Systems with Distributed Parameters  
分佈式參數控制系統
- Neural Network System  
類神經網絡系統
- Special Course of Control Theory  
控制理論特殊課程
- Typical Models of Technical Objects Control  
技術物件控制之典型模型
- Intelligent Technologies in Control Systems  
控制系統的智慧技術
- System Simulation  
系統模擬
- Methods of Fuzzy Logic in Control Systems  
控制系統模糊邏輯之方法
- Control under Uncertain Conditions  
不確定條件下的控制
- Information and Control Computing Complexes in Automation and Control Systems  
自動化和控制系統的資訊和控制計算
- Information and Organizational Support of Automated Control Systems  
自動化控制系統的資訊和組織支援

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

443100, Samara, Molodogvardeyskaya street, 244, main building

Phone: +7 (846) 278-43-71, e-mail: [international.samgtu@gmail.com](mailto:international.samgtu@gmail.com), web-page: [www.samgtu.com](http://www.samgtu.com)

# ECONOMY AND REAL ESTATE APPRAISAL

## 經濟和房地產評估

FIELD OF STUDY / 學科領域

38.04.01 «ECONOMICS» / 經濟學

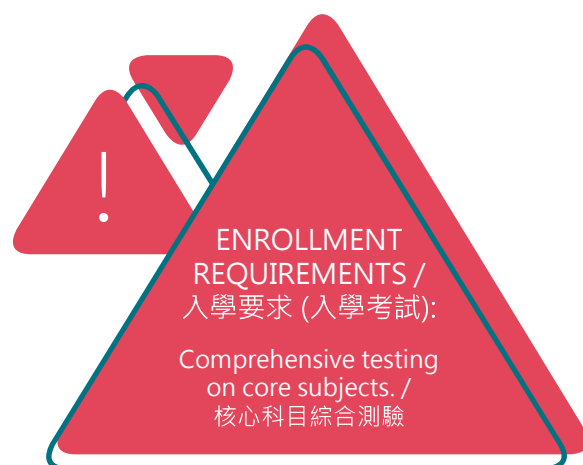
FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

NATALIYA V. SHEKHOVA

Head of the Department of Economics, Professor, Dr. of Economics

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY  
2 YEARS AND 6 MONTHS OF PART-TIME STUDY

2年全職學習  
2年6個月兼職學習



PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- Prospects of the program development are considered taking into account the views of employers. Program development is connected with the adjustment of its structure and content, the introduction of interactive forms of learning, the transition to design modular training, systematic updating to meet the requirements of professional standards, the improvement of the forms of independent evaluation in the framework of professional public accreditation, development of methodological approaches to qualifying sections as part of the final certification.
- 本方案發展前景是考慮到雇主的意見和畢業生就業中心而設計的，後者地位是區域畢業生就業中心、工程經濟學院，其主席的組織活動以促進畢業生的就業能力。方案的發展是與以下事項有關，結構和內容的調整，互動式學習的引入，向模組化培訓設計過渡，計劃系統更新以滿足專業標準的要求，每年監測方案執行過程，在專業公共認證框架中以改進獨立評估的形式，開發作為最終認證一部分的合格章節的方法。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Philosophy of Economics  
經濟哲學
- Modern Techniques and Methods of Economic Phenomena and Processes study  
研究經濟現象與過程之現代技術與方法
- Business Foreign Language  
商業外語
- Computer Technology in Economic Science and Education  
經濟科學與教育之計算機技術
- Corporate Information Systems  
公司資訊系統
- Psychology and Pedagogy  
心理學和教育學
- Psychology of Business Communication  
商業傳播心理學
- Microeconomics (advanced level)  
微觀經濟學 (高級)
- Macroeconomics (advanced level)  
宏觀經濟學 (高級)
- Econometrics (advanced level)  
計量經濟學 (高級)
- Finance of a Company  
公司財務
- Business Planning and Organization of the Company  
商業規劃和公司組織
- Asset Management of Companies and Investment Planning  
公司資產管理和投資規劃
- Business Value Estimation  
商業價值估計
- Property Management  
物業管理
- Natural Resources as an Object of Property  
自然資源作為一個財產物件
- Financial Management  
財務管理
- Corporate Finances  
公司財務
- Valuation of Intangible Assets and Intellectual Property  
無形資產和知識產權之估值
- Property Valuations  
物業估值

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

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Phone: +7 (846) 278-43-71, e-mail: [international.samgtu@gmail.com](mailto:international.samgtu@gmail.com), web-page: [www.samgtu.com](http://www.samgtu.com)

# ENTERPRISE ECONOMY

## 企業經濟

FIELD OF STUDY / 學科領域

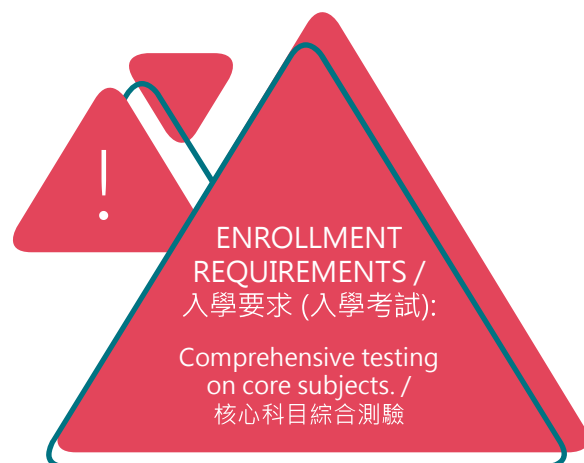
38.04.01 «ECONOMICS» / 經濟學

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

INESSA V. KOSYAKOVA

Doctor of Economics, Professor, Head of «National and World Economy» Department, corresponding member of International Academy of Organizational Sciences

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY /  
2年全職學習



### PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- Expansion of the internship places with different enterprises of Samara region and small business organizations; wider students participation in research projects; development of the commercialization of research work system; involvement of financial institutions in the implementation of educational programs; special admission, financed by expenses of customer enterprises; students' participation in international programs and projects.
- 藉由薩馬拉地區(Samara region)不同企業和小企業組織而擴大學生實習地點；更廣泛的學生參與研究專題；發展研究工作系統的商業化；使金融機構參與執行教育方案；由客戶企業費用資助的特殊入學；學生參與國際計劃和專案。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Theory and Practice of Microeconomics  
微觀經濟學理論與實踐
- Modern Problems of Macroeconomics  
宏觀經濟學之現代問題
- Models and Methods of Econometrics  
計量經濟學之模型和方法
- History and Methodology of Economics and Production  
經濟與生產之歷史與方法論
- Computer Technologies in Economics and Manufacturing  
經濟和製造之計算機科技
- Economic Planning and Coordination of Enterprise Activities  
企業活動的經濟規劃和協調
- Banks and Financial Market Institutions  
銀行和金融市場機構
- Actual Problems in Enterprise Economy  
企業經濟的實際問題
- Theory and Practice of National Economy  
國民經濟之理論與實踐
- Marketing Management  
市場行銷管理
- Foreign Language in Business and Professional Communication  
商務與專業溝通之外語
- Environmental and Economic Safety Management  
環境與經濟安全之管理
- Actual Problems of Labor Market  
勞動力市場的實際問題
- Strategic Management of Enterprise Human Resources  
企業人力資源之策略管理
- Management of Corporate Finances  
公司財務管理
- Enterprise Cost Management  
企業成本管理
- Theory and Practice of Production Organization  
生產組織之理論與實踐
- Innovative Marketing  
創新行銷
- Actual Problems of Management  
管理之實際問題
- Management of Financial and Commercial Risks and Insurance  
金融和商業風險與保險之管理
- The Problems of International Finance and Banking  
國際金融和銀行的問題
- Enterprise Business  
企業商業
- Enterprise Innovation Activities  
企業創新活動
- Quality Control  
品質控制
- Actual Problems of Business Planning  
商業規劃的實際問題
- Management of Enterprise External Economic Activity  
企業對外經濟活動之管理
- International Pricing  
國際定價

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

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Phone: +7 (846) 278-43-71, e-mail: [international.samgtu@gmail.com](mailto:international.samgtu@gmail.com), web-page: [www.samgtu.com](http://www.samgtu.com)

# INNOVATIVE ENTREPRENEURSHIP

## 創新創業

FIELD OF STUDY / 學科領域

38.04.02 «MANAGEMENT» / 管理學

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

EVGENY E. ERMOLAEV

Head of «Urban and Construction Management» Department, Professor, Doctor of Economics

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY /  
2年全職學習



ENROLLMENT  
REQUIREMENTS /  
入學要求 (入學考試):

Comprehensive testing on  
core subjects.  
Interview in English

核心科目綜合測驗  
英語面試

PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- Extension of internships in partner universities.
- Preparation of certificates on specific subjects for Masters in partner universities.
- The possibility of obtaining double diplomas.
- 在合作伙伴大學擴展實習。
- 為合作伙伴大學碩士課程準備特定科目認證。
- 獲得雙重文憑的可能性。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Business Organization  
商業組織
- Cross-Cultural Management  
跨文化管理
- Business Foreign Language  
商業外語
- Leadership and Business Ethics  
領導和商業倫理
- Managerial Economics  
管理經濟學
- Scientific Research Methodology  
科學研究方法論
- Research Tools and Methods  
研究工具和方法
- Modern Strategic Analysis  
現代策略分析
- Accounting & Finance  
會計與金融
- Financial Statements  
財務報表
- Organizational Theory & Behavior  
組織理論與行為
- Sustainable Business Development  
可持續商業發展
- Innovation and Entrepreneurship  
創新與創業
- Project Management  
專案管理
- International Business Law  
國際商法
- Socially Responsible Marketing  
社會責任行銷
- Sustainable Development Management  
可持續發展管理
- Strategic Marketing and Management  
策略行銷和管理
- Modern Methods of Designing and Business Decisions Making  
設計和業務決策制定之現代方法

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

443100, Samara, Molodogvardeyskaya street, 244, main building

Phone: +7 (846) 278-43-71, e-mail: [international.samgtu@gmail.com](mailto:international.samgtu@gmail.com), web-page: [www.samgtu.com](http://www.samgtu.com)

# PRODUCTION MANAGEMENT

## 生產管理

FIELD OF STUDY / 學科領域

38.04.02 «MANAGEMENT» / 管理學

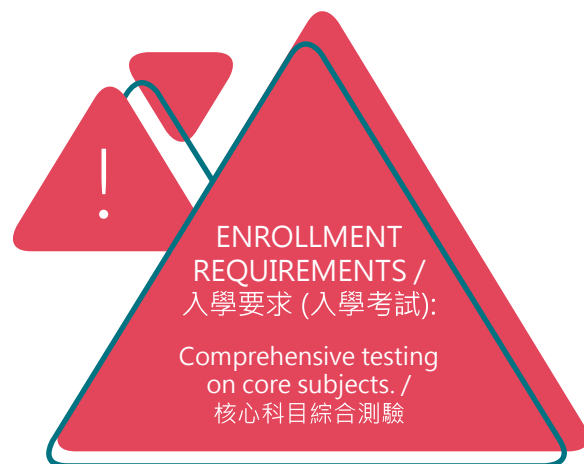
FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

NATALIA A. USHANOVA

Professor of «Urban and Construction Management» Department, Associate Professor, Doctor of Economics

Length of Schooling / 學制長度:  
2 YEARS AND 4 MONTHS  
OF FULL-TIME STUDY

2年4個月全職學習



PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- Rational combination of market and state regulation.
- Extensive use of strategic planning and management in organizations.
- Sharp increase in the level of manager skills in organization management.
- Use of management practices for optimal solutions, selected on the basis of a careful analysis of alternative solutions to the problem.
- Improvement of management structures due to the greater decentralization of responsibilities.
- Constant care of professional development organization employees.
- Maximize use of innovation, economic and mathematical methods.
- 市場和國家監管的合理結合。
- 在組織中，廣泛使用策略規劃和管理。
- 在組織管理中，經理技能水準的急劇增加。
- 在對問題的替代解決方案，進行認真分析的基礎上選擇最佳解決方案的管理作法。
- 藉由更多的權力下放，以改善管理結構。
- 組織員工專業發展的不斷關懷。
- 最大限度的使用創新、經濟、數學方法。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- |                                               |                                                              |
|-----------------------------------------------|--------------------------------------------------------------|
| • Strategic Management<br>策略管理                | 心理學和教育學                                                      |
| • Research Methods in Management<br>管理學研究方法   | • Modern Construction Technology<br>現代建築技術                   |
| • Modern Strategic Analysis<br>現代策略分析         | • Production Management Methods<br>生產管理方法                    |
| • Corporate Finances<br>公司財務                  | • Personnel Policy and HR Audit<br>人事政策和人力資源審計               |
| • Organizational Theory & Behavior<br>組織理論與行為 | • Modern Economic Concepts<br>現代經濟概念                         |
| • Business Foreign Language<br>商業外語           | • Innovative Project Management<br>創新專業管理                    |
| • Modern Quality Management<br>現代質量管理         | • Innovation and Business Process Reengineering<br>創新和業務流程再造 |
| • Psychology and Pedagogy                     | • Strategic Planning<br>策略計劃                                 |

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

443100, Samara, Molodogvardeyskaya street, 244, main building

Phone: +7 (846) 278-43-71, e-mail: [international.samgtu@gmail.com](mailto:international.samgtu@gmail.com), web-page: [www.samgtu.com](http://www.samgtu.com)

# PROJECT MANAGEMENT

## 專案管理

FIELD OF STUDY / 學科領域

38.04.02 «MANAGEMENT» / 管理學

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

LARISA A. ILYINA

Doctor of Economics, Associate Professor, Head of «Industrial Economics and Production Management» Department, Dean of Engineering Economics Faculty

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY /  
2年全職學習

ENROLLMENT  
REQUIREMENTS /  
入學要求 (入學考試):

Comprehensive testing  
on core subjects. /  
核心科目綜合測驗

PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- Prospects of the program development are designed taking into account the employers views and The Department of graduates employment which has the status of a regional center of graduates employment, Engineering Economics Faculty, and its Chairs organize activities to promote employability of graduates.
- Program development is associated with the adjustment of its structure and content, the introduction of interactive forms of learning, the transition to design modular education, systematic updating of the program, taking into account the requirements of professional standards, the annual monitoring of the implementation process of the program.
- By 2020 a network in a modular format with the participation of several leading Russian universities like Ufa State Petroleum Technological University, Tyumen State University, Ural Federal University is planned to be created.
- 本方案發展前景是考慮到雇主的意見和畢業生就業中心而設計的，後者地位是區域畢業生就業中心、工程經濟學院，其主席的組織活動以促進畢業生的就業能力。
- 方案的發展是與其結構和內容的調整有關，例如互動式學習的引入，向模組化教育的設計過渡，計劃系統更新，專業標準的要求，每年監測方案執行過程。
- 到2020年，一個模組化形式的網絡計劃將被建立，參加的包括幾所俄羅斯頂尖大學，例如烏法國立石油技術大學(Ufa State Petroleum Technological University)，秋明州立大學(Tyumen State University)，烏拉爾聯邦大學(Ural Federal University)等。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Audit in Investment Projects Management  
投資專案管理之審計
- Foreign Language  
外語
- Information Technology in Project Management  
專案管理資訊科技
- Corporate Finances  
公司財務
- International Marketing  
國際市場
- Methodology of Scientific Research in Management  
管理科學研究之方法論
- Methods and Models of Management Decision-Making  
管理決策之方法和模型
- Search Methods of Custom Design Solutions  
定制設計解決方案的搜尋方法
- Taxation of Investment Activity  
投資活動稅
- Legal Support of Investment Activity  
投資活動的法律支持
- Forecasting and Modeling of Project Risks  
專案風險之預測與建模
- Software for Project Management  
專案管理軟體
- Production Management  
生產管理
- Network Analysis of Projects in Production Management  
生產管理專案之網絡分析
- Strategic Marketing;  
策略行銷
- Theory of Investment Analysis and Project Financing  
投資分析與專案融資之理論
- Venture Projects Management  
風險專案管理
- Innovative Business Activity Management  
創新商業活動管理
- Company's Infrastructure Management  
公司基礎設施管理
- Quality control  
品質控制
- Project Human Resource Management  
專案人力資源管理
- Project Management;  
專案管理
- Production Asset Management of Infrastructure Companies  
基礎設施公司之生產資產管理
- Business Cost Management  
商業成本管理
- Management Accounting  
管理會計
- Accounting and budgeting  
會計和預算
- Econometrics  
計量經濟學

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

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Phone: +7 (846) 278-43-71, e-mail: [international.samgtu@gmail.com](mailto:international.samgtu@gmail.com), web-page: [www.samgtu.com](http://www.samgtu.com)

# PROJECTS AND PROGRAMS MANAGEMENT IN MUNICIPAL SERVICES AND CONSTRUCTION

## 市政服務和建築之專案和計劃管理

FIELD OF STUDY / 學科領域

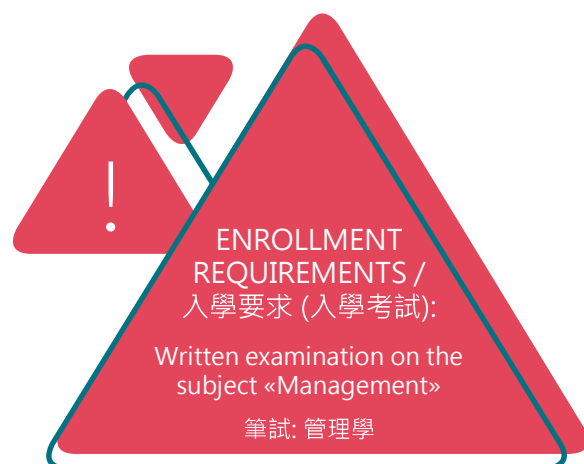
38.04.02 «MANAGEMENT» / 管理學

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

EVGENY E. ERMOLAEV

Head of «Urban Construction and Management» Department, Professor, Doctor of Economics

Length of Schooling / 學制長度:  
**2 YEARS AND 4 MONTHS**  
OF FULL-TIME STUDY  
2年4個月全職學習



### PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- The rational combination of market and state regulation.
- Extensive use of strategic planning and management in organizations.
- The sharp increase in the level of skills in the management of an organization.
- The use of optimal solutions in management practices selected on the basis of a careful analysis of alternative solutions to the problem.
- Improvement of management structures due to the greater decentralization of responsibilities.
- Constant care of professional development of employees.
- Maximum use of innovation, economic and mathematical methods.
- 市場和國家監管的合理組合。
- 在組織中廣泛使用策略規劃和管理。
- 組織管理技術水平準的急劇增加。
- 在管理做法中使用最佳解決方案，選擇是基於問題的替代解決方案進行認真分析。
- 藉由更多的權力下放，以改善管理結構。
- 不斷的關心員工的專業發展。
- 最大限度地的利使用創新、經濟、數學方法。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Organizational Theory and Behavior  
組織理論和行為
- Modern Strategic Analysis  
現代策略分析
- Research Methods in Management  
管理學研究方法
- Social and Ethical Responsibility in the Development of Projects and Programs  
專案和計劃開發的社會和道德責任
- Quality Management of projects and Programs in Municipal Services and Construction  
市政服務和建設的專案和計劃之質量管理
- Innovation Management in Municipal Services and Construction  
市政服務和建築之創新管理
- Modern Methods of Decision-Making Management  
決策管理的現代方法
- Marketing Research in Municipal Services and Construction  
市政服務和建築之市場研究
- Theory and Methodology of Innovation  
創新理論與方法論
- System of Financing of Projects and Programs  
專案和計劃之財務系統
- Projects and Programs Management of Urban Development and Construction  
城市發展和建設之專案和計劃管理
- Business Planning in Municipal Services and Construction  
市政服務和建築之商業規劃

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## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

443100, Samara, Molodogvardeyskaya street, 244, main building

Phone: +7 (846) 278-43-71, e-mail: [international.samgtu@gmail.com](mailto:international.samgtu@gmail.com), web-page: [www.samgtu.com](http://www.samgtu.com)

# STRATEGIC MANAGEMENT IN FUEL AND ENERGY COMPLEXES (FEC) 燃料和能源綜合體(FEC)之策略管理

FIELD OF STUDY / 學科領域

38.04.02 «MANAGEMENT» / 管理學

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

LARISA A. ILYINA

Doctor of Economics, Associate Professor, Head of «Industrial Economics and Production Management» Department, Dean of Engineering Economics Faculty

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY /  
2年全職學習

ENROLLMENT  
REQUIREMENTS /  
入學要求 (入學考試):

Comprehensive testing  
on core subjects. /  
核心科目綜合測驗

## PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- Prospects of the program development are designed taking into account the employers views and. The Department of graduates employment which has the status of a regional center of graduates employment, Engineering Economics Faculty, and its Chairs organize activities to promote employability of graduates.
- Program development is associated with the adjustment of its structure and content, the introduction of interactive forms of learning, the transition to design modular education, systematic updating of the program, taking into account the requirements of professional standards, the annual monitoring of the implementation process of the program.
- By 2020 a network in a modular format with the

participation of several leading Russian universities like Ufa State Petroleum Technological University, Tyumen State University, Ural Federal University is planned to be created.

- 本方案發展前景是考慮到雇主的意見和畢業生就業中心而設計的，後者地位是區域畢業生就業中心、工程經濟學院，其主席的組織活動以促進畢業生的就業能力。
- 方案的發展是與其結構和內容的調整有關，例如互動式學習的引入，向模組化教育的設計過渡，計劃系統更新，專業標準的要求，每年監測方案執行過程。
- 到2020年，一個模組化形式的網絡計劃將被建立，參加的包括幾所俄羅斯頂尖大學，例如烏法國立石油技術大學(Ufa State Petroleum Technological University)，秋明州立大學(Tyumen State University)，烏拉爾聯邦大學(Ural Federal University)等。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Organization and Management of FEC Infrastructure  
FEC基礎設施之組織與管理
- Organization of Production  
組織生產
- Machinery and Equipment of Oil and Gas Refining  
油氣精煉之機械設備
- Basics of Oil and Gas Refining  
石油和天然氣精煉基礎
- Oil and Gas Refining Enterprise Technology  
石油和天然氣煉製企業技術
- Oil and Gas Enterprise Technology  
石油和天然氣企業技術
- Basics of Oil and Gas Fields Development  
油氣田開發基礎
- Strategic Management of FEC  
FEC的策略管理

---

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

443100, Samara, Molodogvardeyskaya street, 244, main building

Phone: +7 (846) 278-43-71, e-mail: [international.samgtu@gmail.com](mailto:international.samgtu@gmail.com), web-page: [www.samgtu.com](http://www.samgtu.com)

# HUMAN RESOURCES (HR) MANAGEMENT

## 人力資源管理

FIELD OF STUDY / 學科領域

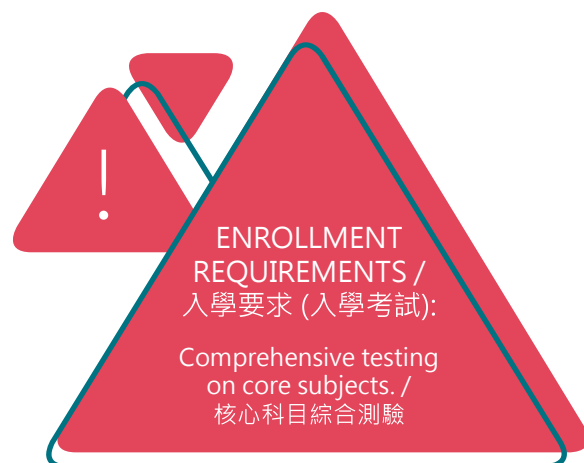
38.04.03 «HUMAN RESOURCES MANAGEMENT» / 人力資源管理

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

GALINA P. GAGARINSKAYA

Doctor of Economics, Professor, Head of «Economy and Enterprise Management» Department

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY /  
2年全職學習



### PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- Within the framework of academic mobility development, program is expected to create a system of mutual exchange courses with leading Russian universities, including Institute of Structural Macromechanics and Materials Science RAS.
- The leading foreign and Russian scientists from partner universities and organizations are invited to give lectures/lecture courses.
- 在學術流動發展的框架內，本方案預期將建立一個與俄羅斯頂尖大學相互交流特殊課程的系統。
- 本方案計劃邀請來自各大學和合作夥伴組織的外國和俄羅斯科學家提供講座。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- State Social Policy and Social Development Management Organization  
國家社會政策與社會發展管理組織
- Organization Theory and Organizational Design  
組織理論與組織設計
- Development of Labor Legislation and its Impact on HR Management  
勞動立法的發展及其對人力資源管理的影響
- Development of Management Systems Quality  
管理體系質量的發展
- Theory and Practice of State and Enterprise HR Policy  
國家和企業人力資源政策之理論與實踐
- Modern HR Management Issues  
現代人力資源管理議題
- Innovative Technology of Development, Justification and Taking HR Decisions  
發展、理由和人力資源決策之創新技術
- System of Motivation and Stimulation of Labor Activity  
勞力活動動機和刺激之系統
- Technology Management of Personnel Skills Improvement  
人員技能改進之技術管理
- Organizational Culture Management  
組織文化管理
- Organization of Research and Teaching in HR Management  
人力資源管理的研究與教學之組織
- Modern Methods of Sociological Research  
社會學研究的現代方法
- Modern Management of Employment Problems  
就業問題的現代管理
- Development of HR Strategy  
人力資源策略的發展
- Functional and Cost Analysis of HR Management Technology  
人力資源管理技術的功能和成本分析
- HR Consulting and Auditing  
人力資源諮詢與審計
- Team Building  
團隊建立
- Evaluation of HR Effectiveness  
人力資源效率評估
- Assessing Economic and Social improvement of HR Management Efficiency  
人力資源管理效率的經濟和社會改善之評估
- Budgeting of Personnel Management  
人事管理預算
- Strategic Management of Company's HR  
公司人力資源策略管理
- Foreign Language in Business and Professional Communication  
商務與專業溝通之外語
- Modern Problems of Management  
管理的現代問題
- Anticrisis HR Management  
反危機人力資源管理
- Modern HR Management Problems of State and Municipal Service  
國家和市政服務的現代人力資源管理問題
- Risk HR Management  
風險人力資源管理
- HR Controlling  
人力資源控制
- Evaluating effectiveness of HR Management Services  
人力資源管理服務有效性之評估
- Modern Approaches to Workplaces Design  
工作場所設計的現代方法

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

443100, Samara, Molodogvardeyskaya street, 244, main building

Phone: +7 (846) 278-43-71, e-mail: [international.samgtu@gmail.com](mailto:international.samgtu@gmail.com), web-page: [www.samgtu.com](http://www.samgtu.com)

# STATE AND MUNICIPAL MANAGEMENT

## 國家和市政管理

FIELD OF STUDY / 學科領域

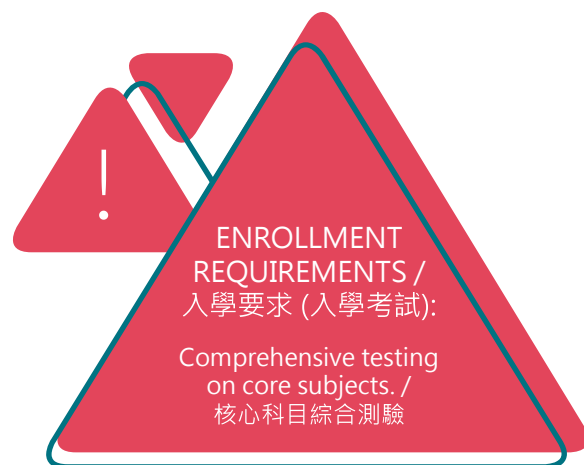
38.04.04 «STATE AND MUNICIPAL MANAGEMENT» / 國家和市政管理

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

GALINA P. GAGARINSKAYA

Doctor of Economics, Professor, Head of «Economy and Enterprise Management» Department

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY /  
2年全職學習



### PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- Within the framework of academic mobility development, program is expected to create a system of mutual exchange courses with leading Russian universities, including Institute of Structural Macrodynamics and Materials Science RAS.
- The leading foreign and Russian scientists from partner universities and organizations are invited to give lectures/lecture courses.
- 在學術流動發展的框架內，本方案預期將建立一個與俄羅斯頂尖大學相互交流特殊課程的系統。
- 本方案計劃邀請來自各大學和合作夥伴組織的外國和俄羅斯科學家提供講座。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Economics of Public Sector  
公共部門經濟學
- Theory and Mechanisms of Modern Public Administration  
現代公共管理之理論與機制
- Information and Analytical Technology of State and Municipal Management  
國家和市政管理資訊與分析技術
- Personnel Policy and Human Resources Audit  
人事政策和人力資源審計
- Legal Support of State and Municipal Management  
國家和市政管理的法律支持
- Municipal Management and Local Government  
市政管理和地方政府
- Management in Social Sphere  
社會領域的管理
- History of State Bodies and Institutions in Russia  
俄羅斯國家和機構之歷史
- Conflict Management and Stress Technology  
衝突管理與壓力技術
- Theory and Practice of Management Decision-Making  
管理決策的理論與實踐
- Project Management  
專案管理
- State and Municipal Management System  
國家和市政管理系統
- System of Motivation and Stimulation in State and Municipal Management  
國家和市政管理的動機和激勵系統
- Theory and Practice of Strategic Management  
策略管理之理論與實踐
- State and Municipal Property Management Technologies  
國家和市物業管理技術
- City Economy and Management of Socio-Economic Development  
城市經濟與社會經濟發展管理
- Management and Assessment of Human Resources  
人力資源管理與評估
- Modern Personnel Management Problems of State and Municipal Service  
國家和市政服務之現代人事管理問題
- Anticrisis HR Management  
反危機人力資源管理
- Information Competence of State and Municipal Employees  
國家和市級員工的資訊能力
- Modern Approaches to Workplaces Design  
工作場所之現代方法
- Concept of International Organization Strategic Management  
國際組織策略管理理念
- HR Controlling  
人力資源控制
- Business Evaluation  
商業評估
- Evaluation of Personnel Effectiveness  
人事效能評價
- Financial Planning and Budgeting  
財務規劃與預算
- Budgeting of Personnel Management  
人事管理預算

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

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Phone: +7 (846) 278-43-71, e-mail: [international.samgtu@gmail.com](mailto:international.samgtu@gmail.com), web-page: [www.samgtu.com](http://www.samgtu.com)

# URBAN MANAGEMENT

## 城市管理

FIELD OF STUDY / 學科領域

38.04.04 «STATE AND MUNICIPAL MANAGEMENT» / 國家和市政管理

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

ALEXANDER G. PLEKHANOV

Professor of «Urban Management and Construction» Department, Associate Professor, Doctor of Economics

Length of Schooling / 學制長度:

2 YEARS AND 6 MONTHS  
OF FULL-TIME STUDY

2年6個月全職學習

ENROLLMENT  
REQUIREMENTS /  
入學要求 (入學考試):

Written examination on the  
subject "State and Municipal  
Management"

筆試主題：國家和市政管理

### PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- The rational combination of market and state regulation.
- Extensive use of strategic planning and management in the activities of state and municipal government organizations.
- Maximum use of innovation, economic and mathematical methods in the state and municipal administration.
- 市場和國家監管的合理組合。
- 在國家和市政府組織的活動中，廣泛使用策略規劃和管理。
- 在國家和市政管理中，最大限度的使用創新、經濟、數學方法。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Economics of Public Sector  
共部門經濟學
- Theory and Mechanisms of Modern Public Administration  
現代公共管理之理論與機制
- Personnel Policy and Human Resources Audit  
人事政策和人力資源審計
- Legal support of State and Municipal Management  
國家和市政管理之法律支持
- Municipal management and Local Self-Government  
市政管理和地方自治
- Management in Social Sphere  
社會領域的管理
- Ethics and Civil Responsibility of Public Servants  
公務員的倫理和民事責任
- Theory and Methodology of Innovation  
創新之理論與方法論
- Strategic Planning of Urban (Municipal) Facilities  
城市(市政)設施之策略規劃
- Project Management of Programs for the Development of Urban (Municipal) Facilities  
城市(市政)設施的發展方案之專案管理
- Managerial Economics  
管理經濟學
- Information and Analytical Technologies of State and Municipal Management  
國家和市政管理之資訊和分析技術
- Territorial Organization of Facilities  
領土設施安排
- State and Municipal Finances  
州和市政之財政
- Engineering and Economic Foundations of Urban Development  
城市發展的工程和經濟基礎
- Program Management of Municipal Infrastructure  
城市基礎設施之專案管理
- Psychology and Pedagogy  
心理學和教育學
- Business Foreign Language  
商業外語
- System of Financing of Projects and Programs in the Housing Complex  
住房綜合體專案和計劃之融資系統
- Modern Methods of Real Estate Organization and Management  
房地產組織與管理之現代方法
- Basics of Management and Regulation of Housing-and-Municipal Services  
住房和市政服務的管理和監管之基礎
- Organization and Management of Energy and Resource Saving in a housing-and-municipal complex  
個住房和市政綜合體中能源和資源節約之組織和管理
- Innovation Management in the City (Municipal) Sector  
城市(市政)部門的創新管理

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

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# COSTUME DESIGN

## 服裝設計

FIELD OF STUDY / 學科領域

54.04.01 «DESIGN» / 設計

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

TATIANA V. KARAKOVA

Head of «Design» Department, Professor, Doctor of Architecture, Counsellor of the Russian Academy of Architecture and Construction Sciences, member of the Russian Union of Architects

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY /  
2年全職學習

### PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- Formation of highly qualified personnel in the field of fashion design.
- Introduction of a variety of students participation forms in interdisciplinary research projects, in the creative intellectual and scientific events; enhance graduates performance.
- 培養形成在時尚設計領域的高素质人才。
- 介紹各種學生參與跨學科的研究專題、創造性的智力和科學事件；提高畢業生的表現。

### ENROLLMENT REQUIREMENTS / 入學要求 (入學考試):

Written examination on the design engineering, which includes the following sections:

- Fundamentals of theory and design methodology;
- Composition basics;
- Design project techniques;
- Ergonomics in design engineering;
- Modern technologies and materials in costume design.

設計工程相關科目的筆試，包括以下部分：

- 理論和設計方法的基礎；
- 組成基礎；
- 設計專案技術；
- 設計工程人體工程學；
- 環境物體設計中的現代技術和材料。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Philosophical Problems of Science and Technology  
科學與技術的哲學問題
- Modern Design Issues  
現代設計議題
- Psychology and Pedagogy  
心理學和教育學
- Business Foreign Language  
商業外語
- Academic Drawing  
學術繪圖
- Academic Painting  
學術繪畫
- Design Research Techniques  
設計研究技術
- Marketing and Management in Design  
設計的行銷和管理
- Social Design Fundamentals  
社會設計基礎
- Economy in Design Engineering  
設計工程經濟
- Design Engineering  
設計工程
- Computer technologies in Design  
設計的計算機技術
- Information Technology  
資訊科技
- History and Methodology in Design Engineering  
設計工程的歷史和方法論
- Costume Design Coloristics  
服裝設計色彩
- Project Implementation in Material  
材料的專案實施
- Fashion Philosophy  
時尚哲學
- Contemporary fashion history  
當代時尚歷史
- Design Theory in the Context of Modern Science  
現代科學背景的設計理論
- Professional Communication in Design  
設計專業溝通
- Costume Design  
服裝設計
- Modern Foreign Aesthetics  
現代外國美學
- Costume Design Industrial and Technological Foundations  
服裝設計、工業和技術基礎
- Contemporary Technologies in Design  
設計的當代技術
- Organization of Project Activities  
專案活動組織
- The Russian Federation Regulatory Framework of Project Activities  
俄羅斯聯邦專案活動監管框架
- Historical Cut  
歷史切
- 20th Century Styles History  
20世紀風格歷史
- Fashion Brands Designing Methodology  
時尚品牌設計方法
- Fashion Industry PR Strategy  
時尚產業公關策略
- Visual Design Psychometry  
視覺設計心理測量
- History of Design Methods for Costume Design  
服裝設計之設計方法歷史

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

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# ENVIRONMENTAL DESIGN

## 環境設計

FIELD OF STUDY / 學科領域

54.04.01 «DESIGN» / 設計

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

TATIANA V. KARAKOVA

Head of «Design» Department, Professor, Doctor of Architecture, Counsellor of the Russian Academy of Architecture and Construction Sciences, member of the Russian Union of Architects

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY /  
2年全職學習

### PROSPECTS FOR THE DEVELOPMENT OF THE PROGRAM / 方案發展前景:

- Formation of highly qualified specialists in the sphere of environmental problems solving of the city. Their active participation in the work of the Chief Architect Office upon the development of Samara environmental cadastre included in the strategy for socio-economic development of Samara until 2025.
- 在城市環境問題解決領域以形成高素質的專家。他們積極參與首席建築師辦公室在薩馬拉環境地籍的發展工作，包括薩馬拉的社會經濟發展策略，直到2025年。

### ENROLLMENT REQUIREMENTS / 入學要求 (入學考試):

Written examination on the design engineering, which includes the following sections:

- Fundamentals of theory and design methodology;
- Composition basics;
- Design project techniques;
- Ergonomics in design engineering;
- Modern technologies and materials in design of environmental objects.

設計工程相關科目的筆試，包括以下部分：

- 理論和設計方法的基礎;
- 組成基礎;
- 設計專案技術;
- 設計工程人體工程學;
- 環境物體設計中的現代技術和材料。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Philosophical Problems of Science and Technology  
科學與技術的哲學問題
- Modern Design Issues  
現代設計議題
- Psychology and Pedagogy  
心理學和教育學
- Business Foreign Language  
商業外語
- Academic Drawing  
學術繪圖
- Academic Painting  
學術繪畫
- Design Research Techniques  
設計研究技術
- Marketing and Management in Design  
設計的行銷和管理
- Social Design Fundamentals  
社會設計基礎學
- Economy in Design Engineering  
設計工程之經濟
- Objective-Spatial Environment of the City  
Coloristics  
城市色彩學的目標空間環境
- Design Engineering  
設計工程
- Computer technologies in Design  
設計的計算機科技
- Information Technology  
資訊科技
- History and Methodology in Design Engineering  
設計工程的歷史和方法論
- Typology of Architectural Environment Forms  
建築環境形態的類型學
- Modern Technologies of Building Materials  
建築材料的現代技術
- Design Theory in the Context of Modern Science  
現代科學背景的設計理論
- Professional Communication in Design  
設計的專業溝通
- Methods of Urban Environment Spatial Analysis  
城市環境空間分析的方法
- Spatial Perception Theory  
空間感知理論
- Environmental Design Engineering and Technological Foundations  
環境設計工程與科技基礎
- Contemporary Technologies in Design  
設計的當代科技
- Organization of Project Activities  
專案活動的組織
- Modern Foreign Aesthetics  
現代外國美學
- Ecology in Environment Design  
環境設計的生態學
- Engineering Equipment of Urban Areas  
城市區域的工程設備
- Barrier-Free Urban Environment  
無障礙城市環境
- Visual Communication in Design  
設計的視覺溝通
- Visual Design Psychometry  
視覺設計心理測量
- Theoretical Foundations of Visual Perception  
視覺感知的理論基礎
- Organic Approach to Urban Environment Design  
城市環境設計的組織性方法
- Landscape-Ecological Bases of Urban Environment  
城市環境的景觀生態基礎

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

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Phone: +7 (846) 278-43-71, e-mail: [international.samgtu@gmail.com](mailto:international.samgtu@gmail.com), web-page: [www.samgtu.com](http://www.samgtu.com)

# GRAPHIC DESIGN

## 平面設計

FIELD OF STUDY / 學科領域

54.04.01 «DESIGN» / 設計

FULL NAME OF THE COURSE DIRECTOR / 課程主任全名 學術頭銜與科學學位

ELENA V. SHLIENKOVA

Head of «Design» Department, Professor, Doctor of Architecture, Counsellor of the Russian Academy of Architecture and Construction Sciences, member of the Russian Union of Architects

Length of Schooling / 學制長度:  
2 YEARS OF FULL-TIME STUDY /  
2年全職學習

PROSPECTS FOR THE DEVELOPMENT OF THE  
PROGRAM / 方案發展前景:

- Students get the necessary knowledge in the design engineering, project management and marketing, identity and brand strategies, computer technology, photo- and infographics, illustrations and design of periodicals and multi-paged publications, advertising, media and art design, web- and interactive design, augmented reality, printing technology, management and marketing, economy in design.
- 學生獲得以下必需的知識，領域包括設計工程、專案管理、行銷、身份和品牌策略、計算機技術、照片和圖表、期刊和多頁出版物的插圖和設計、廣告、媒體和藝術設計、網絡和互動設計、擴增實境(Augmented Reality)、印刷技術、管理和行銷、設計經濟等。
- 在經濟、行銷、社會文化領域，學生獲得溝通能力，同時為解決不同複雜程度的設計問題提供廣泛的選擇。
- Obtained communication skills in the field of economic, marketing, socio-cultural areas provide a wide range of options for solving design problems of varying levels of complexity.

ENROLLMENT  
REQUIREMENTS /  
入學要求 (入學考試):

Enrollment is carried out on the basis of two entrance tests:

- 1) building parti diagram;
- 2) interview on graphic design theory and terms of reference.

註冊是基於兩個入學考試的基礎：

- 1) 建立基本設計(parti)圖;
- 2) 平面設計理論和參考的面談。

## LIST OF ACADEMIC DISCIPLINES / 課程名單:

- Design Engineering  
設計工程
- Scientific Research and Creative Work  
科學研究與創造性工作
- Research Practice  
研究實習
- Design Theory in the Context of Modern Science  
現代科學背景的設計理論
- Design Social Foundations  
設計社會基礎
- Modern Design Issues  
現代設計議題
- Industrial and Technological Basics of Graphic Design  
平面設計的工業和技術基礎
- Graphic Design Coloristics  
平面設計色彩
- Coloring  
著色
- Academic Drawing  
學術繪圖
- Modern Printing Technology  
現代印刷科技
- Editorial Activity  
編輯活動
- Multi-page Publication Design  
多頁出版設計
- Design Research Techniques  
設計研究技術
- History and Methodology in Design Engineering  
設計工程的歷史和方法論
- Economy in Design Engineering  
設計工程的經濟
- Marketing and Management in Design  
設計的行銷和管理
- Psychology and Pedagogy  
心理學和教育學
- Business Foreign Language  
商業外語
- Visual Design Psychometry  
視覺設計心理測量

## Contact Information / 聯絡資訊：地址，電話，電子信箱，網頁:

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