

# SPbSPU - Current Trends in the Development of Civil Engineering Education

**Nikolay Vatin**  
Prof., Ph.D.  
Dean  
Civil Engineering Faculty

**Elena Nikonchuk**  
Director  
International Educational  
Projects Office

December 10-12, 2012  
TEMPUS CEN-EAST Project  
Kick-Off Meeting  
Bologna, Italy





# The transition to a two-tier degree system was officially completed last year in Russia

- Bachelor – 4 years, 240 ECTS
- Master – 2 years, 120 ECTS
- Specialist – 5 - 5.5 years
- PhD – 3 years, 210 ECTS, study part - 27 ECTS, research part - 183 ECTS





# New generation of Federal educational standards

Professional standards



Federal State Educational Standard of Higher Professional Education



<b>Bachelor "Construction"</b>	<b>Master "Construction"</b>	<b>Specialist "Construction of unique buildings and structures"</b>	<b>Specialist "Construction of railways, bridges and tunnels"</b>
<b>Ministry of Education Order №54 от 18.01.10</b>	<b>Ministry of Education Order №750 от 21.12.09</b>	<b>Ministry of Education Order №2055 of 24.12.10</b>	<b>Ministry of Education Order №2052 of 24.12.10</b>



# Some Universities got the right for the development of its own educational standards

---

Three categories of the universities:

- National Universities (2) Moscow State University named after M.V. Lomonosov“, St,Petersburg State University
- Federal Universities (8) (e.g. FGAO VPO "Northern (Arctic) Federal University named after M.V. Lomonosov")
- National research Universities, (29) (e.g. State Educational Institution "St. Petersburg State Polytechnic University").





# Reduction the Universities number

---

- North-West Technical University joined the St. Petersburg State Mining University
- University of Refrigeration and Food Engineering joined the St. Petersburg University of Information Technologies, Mechanics and Optics
- St. Petersburg Institute of Machine Building (LMZ-VTUZ) is attached to the St. Petersburg State Polytechnic University
- St. Petersburg State Medical Academy named after Mechnikov and the Medical Academy of Postgraduate Education created North-Western State Medical University named after Mechnikov

The process of new mergers ....



# Implementation of the CSE: quality of the Polytechnical University entrants is growing

## Access score and a competition rate for the Civil Engineering Faculty

	Score	Competition
<b>2012:</b>	<b>225</b>	<b>8</b>
<b>2011:</b>	<b>221</b>	<b>8</b>
<b>2010:</b>	<b>212</b>	<b>8</b>





# The students' intake trends

- **Maintaining a high access score**
- **The number of nonresident students increasing**
- **Growing competition (a number of applicants for one place)**





# Introduction of new specializations for civil engineers in 2011. Intake for the first year students in civil engineering.

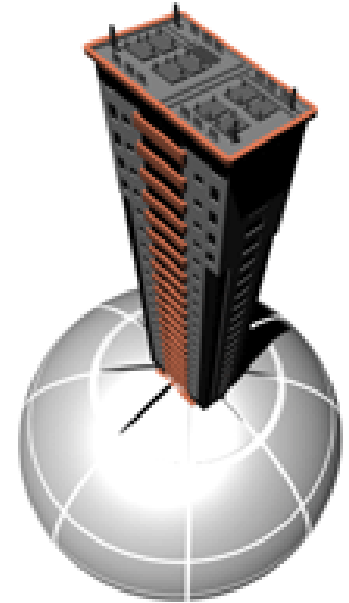
---

## New specialties:

### 1. "The construction of unique buildings and structures"

#### MA and BA

- high-rise and long-span structures
- NPP
- development of underground space
- and so on ....







## Master degree is a demanded form of training and retraining (data revenues in 2011 by the Department of Technology, Organization and Economics of Construction)

<b>Total received</b>	<b>34 persons</b>	<b>100%</b>
-----------------------	-------------------	-------------

### Budget / contract

<b>Budget</b>	<b>20 pers.</b>	<b>59%</b>
<b>Contract</b>	<b>14 pers.</b>	<b>41%</b>

### Distribution by universities

<b>From SPbSPU</b>	<b>7 pers.</b>	<b>21%</b>
<b>From other universities</b>	<b>27 pers.</b>	<b>79%</b>

### Distribution by countries

<b>Russia</b>	<b>13 pers.</b>	<b>38%</b>
<b>Kazakhstan</b>	<b>13 pers.</b>	<b>38%</b>
<b>China</b>	<b>2 pers.</b>	<b>6%</b>
<b>Moldova</b>	<b>3 pers.</b>	<b>9%</b>
<b>Belorussia</b>	<b>1 pers.</b>	<b>3%</b>
<b>Lithuania</b>	<b>1 pers.</b>	<b>3%</b>
<b>Canada</b>	<b>1 pers.</b>	<b>3%</b>
<b>Palestina</b>	<b>1 pers.</b>	<b>3%</b>



# E-learning technologies provide a broad coverage



СТР-01 Подготовительные, земляные работы и устройство фундаментов на строительной площадке

ОДО СТР-01 Переключиться к роли... Редактировать

- Люди
- Участники
- Элементы курса
- Ресурсы
- Тесты
- Форумы
- Поиск по форумам

Применить  
Расширенный поиск

### ★ Заголовки тем

- Новостной форум**  
Полный курс электронных пособий на диске СТР-01  
[Программа курса СТР-01](#)
- 1 Нормативные документы
  - [МДС 12-46.2008 Методические рекомендации по разработке и оформлению ПОС, ПОР по сносу \(демонтажу\), ППР.7z](#)
  - [Пособие по производству работ при устройстве оснований и фундаментов \(к СНиП 3.02.01-83\).zip](#)
  - [СП \(Свод правил\) 50-101-2004 Проектирование и устройство оснований и фундаментов зданий и сооружений.rar](#)
  - [СП 50-102-2003 свайные фундаменты.rar](#)

### Новостной форум

[Добавить новую тему...](#)

28 Янв 16:31  
Петrochenko Марина  
Полный курс электронных пособий на диске СТР-01 [еще...](#)

[Старые темы ...](#)

### Наступающие события

Не имеется никаких наступающих событий

[Перейти к календарю...](#)  
[Новое событие...](#)

### Последние действия



# Thank you for ATTANTION!

---

**Nikolay Vatin**

**Prof., Ph.D.**

**Dean of Civil Engineering Faculty**

**[Vatin@mail.ru](mailto:Vatin@mail.ru)**

**Elena Nikonchuk**

**Director of**

**International Educational projects**

**Office**

**[nikonchuk@imop.spbstu.ru](mailto:nikonchuk@imop.spbstu.ru)**

**St. Petersburg State Plytechnical University**