# 2. Course outline and schedule

## 2.1 Course outline

<table>
<thead>
<tr>
<th>Course Outline</th>
<th>Lectures</th>
<th>Seminars</th>
<th>Homework</th>
<th>Academic hours per topic</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Topic 1. Nonproliferation at the cross-road of regional and global politics</strong></td>
<td>2</td>
<td>2</td>
<td>6</td>
<td>10</td>
</tr>
<tr>
<td>Nov. 5 17.30 Lecture 1.1. Introduction to the course: what regions of the globe are most vulnerable to proliferation and why – Dr. Vladimir A. Orlov</td>
<td>2</td>
<td>2</td>
<td>4</td>
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<tr>
<td><strong>Topic 2. WMD nonproliferation in the Middle East</strong></td>
<td>4</td>
<td>2</td>
<td>6</td>
<td>12</td>
</tr>
<tr>
<td>Nov. 5 19.00 Lecture 2.1. WMD Proliferation in the Middle East – Dr. Vladimir A. Orlov</td>
<td>2</td>
<td>2</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td><strong>Topic 3. Great powers’ responses to regional nonproliferation challenges</strong></td>
<td>4</td>
<td>8</td>
<td></td>
<td>12</td>
</tr>
</tbody>
</table>
**Roadmap for Russia-US Cooperation on the NPT Review Process by 2020**

Part 1

[jointly with MIIS at Monterey via telebridge] – Dr. Vladimir A. Orlov and Prof. William Potter, Mr. Adlan Margoev and Ms. Sarah Bidgood, with Mr. Albert Zulkharneev and Ms. Yulia Sych

### Topic 2. WMD nonproliferation in the Middle East (Cont.)

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nov. 20</td>
<td>14.30</td>
<td>Lecture 2.2. Iran’s Nuclear Program and JCPOA: a case study of addressing proliferation through diplomacy – Dr. Vladimir A. Orlov</td>
<td></td>
</tr>
<tr>
<td>Nov. 20</td>
<td>16.00</td>
<td>Seminar 2.1. Zone Free of Nuclear and other WMD in the Middle East: History of the Issue and Prospects of Establishment – Dr. Vladimir A. Orlov</td>
<td></td>
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</tbody>
</table>

### Topic 4. WMD nonproliferation in the South Asia

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nov. 27</td>
<td>14.30</td>
<td>Lecture 4.1. Indian nuclear program: a case study of weaponization of civilian infrastructure – Dr. Ildar Akhtamzyan</td>
<td></td>
</tr>
<tr>
<td>Nov. 27</td>
<td>16.00</td>
<td>Lecture 4.2. Pakistani nuclear program: catching-up with the neighbor – Dr. Ildar Akhtamzyan</td>
<td></td>
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<tr>
<td>TBA</td>
<td></td>
<td>Seminar 4.1. Nuclear Weapons in South Asia: strategic balances and political dilemmas - Amb. Vyacheslav Trubnikov</td>
<td></td>
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</tbody>
</table>

### Topic 5. WMD nonproliferation in East Asia

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dec. 3</td>
<td>17.30</td>
<td>Lecture 5.1. Nonproliferation and Disarmament issues in the East Asia region (Japan, South Korea, Taiwan) – Dr. Alexander Vorontsov</td>
<td></td>
</tr>
</tbody>
</table>
2.2 Course schedule

**TOPIC 1. NON-PROLIFERATION AT THE CROSS-ROAD OF REGIONAL AND GLOBAL POLITICS**

**October 29, Tuesday. 17.30 – 18.50**

<table>
<thead>
<tr>
<th>Seminar 1.1. Preparing for the Online Seminar on U.S.-Russian Dialogue on the NPT Review Process</th>
<th>Mr. Adlan Margoev</th>
</tr>
</thead>
</table>

**November 5, Tuesday. 17.30 – 18.50**

<table>
<thead>
<tr>
<th>Lecture 1.1. Introduction to the course: what regions of the globe are most vulnerable to proliferation and why</th>
<th>Dr. Vladimir A. Orlov</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Summary:</strong> The subject, goals and objectives of the course. Historic cases of WMD considerations and decisions: Europe, Middle East, Latin America, Far East, South Asia, Africa. Solutions to the non-proliferation risks of the Soviet Union disintegration. Non-proliferation at the end of the Cold War: globalization of the NPT, regional opportunities and challenges to WMD proliferation. Classification of proliferators and phenomenon of threshold states. Proliferation vs. non-proliferation calculus and regional conflicts.</td>
<td></td>
</tr>
</tbody>
</table>

**Essential Readings**

- The Nuclear Tipping Point: Prospects for a World of Many Nuclear Weapon States in Kurt Campbell, Robert Einhorn, and Mitchell Reiss (eds.) The
General Readings

- Agreement between the Republic of Argentina and the Federative Republic of Brazil for the exclusively peaceful use of nuclear energy, 1991
- F. W. de Klerk, President of South Africa. Extract of a speech announcing developments relating to South Africa’s nuclear capability, the normalization of international relations and accession to the Treaty on the Non-Proliferation of Nuclear Weapons, 1993
- Ядерное нераспространение: Краткая энциклопедия. М.: Российская политическая энциклопедия (РОССПЭН); ПИР-Центр, 2009

TOPIC 2. WMD NONPROLIFERATION IN THE MIDDLE EAST
November 5, Tuesday. 19.00 – 20.20

Lecture 2.1. WMD Proliferation in the Middle East | Dr. Vladimir A. Orlov

Summary: History and contemporary review of the nuclear proliferation in the Middle East. Israel as the only state in the region with nuclear weapons. Cases of Egypt; Israel; Iraq; Libya; Syria; Turkey. Motivations for regional state actors for development of their WMD programs. Role of non-state actors in the region with regard to WMD proliferation and terrorism.

Essential Readings

- Ten Steps Toward a Weapons of Mass Destruction-Free Zone in the Middle East. PIR Center, 2013.

General readings

- Ближний и Средний Восток. Ядерное нераспространение. Под общей редакцией Орлова В.А. М., ПИР-Центр, 2002 (2-е изд., переработанное и расширенное).
- Военная ядерная программа Израиля. Ядерное нераспространение: Краткая энциклопедия. ПИР-Центр.
- Военная ядерная программа Ирака. Ядерное нераспространение: Краткая энциклопедия. ПИР-Центр.
- Военная ядерная программа Ливии. Ядерное нераспространение: Краткая энциклопедия. ПИР-Центр.
- Военная ядерная программа Сирии. Ядерное нераспространение: Краткая энциклопедия. ПИР-Центр.

Web resources

- Country Profiles. Database. NTI.org

### TOPIC 3. GREAT POWERS’ RESPONSES TO REGIONAL NON-PROLIFERATION CHALLENGES

#### November 19, Tuesday. 19.00 – 20.20


<table>
<thead>
<tr>
<th>Dr. Vladimir A. Orlov and Prof. William Potter, Mr. Adlan Margoev and Ms. Sarah Bidgood, with Mr. Albert Zulkharneev and Ms. Yulia Sych</th>
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<tbody>
<tr>
<td>Summary: Presentation of the Roadmap for Russia-US Cooperation. Moderated discussion.</td>
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#### November 19, Tuesday. 21.30 – 22.50


<table>
<thead>
<tr>
<th>Dr. Vladimir A. Orlov and Prof. William Potter, Mr. Adlan Margoev and Ms. Sarah Bidgood, with Mr. Albert Zulkharneev and Ms. Yulia Sych</th>
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<tr>
<td>Summary: Presentation of the Roadmap for Russia-US Cooperation. Moderated discussion.</td>
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### TOPIC 2. WMD NONPROLIFERATION IN THE MIDDLE EAST (CONT.)

#### November 20, Wednesday. 14.30 – 15.50

**Lecture 2.2. Iran’s Nuclear Program and JCPOA: a case study of addressing proliferation through diplomacy.**

<table>
<thead>
<tr>
<th>Dr. Vladimir A. Orlov</th>
</tr>
</thead>
</table>

**Essential Readings**
- Joint Comprehensive Plan of Action, agreed by Iran and P5+1, Vienna, July 14, 2015

General Readings


Web resources

- Iranian Nuclear Program: Russia’s Interests. PIR Center.
- Iranian Nuclear Problem. Carnegie Moscow Center.

November 20, Wednesday. 16.00 – 17.20


Dr. Vladimir A. Orlov


Essential Readings

- Establishment of a nuclear-weapon-free zone in the region of the Middle East. General Assembly Resolution 33/64. December 14, 1978.
- Resolution on the Middle East. The Conference of the Parties to the Treaty on the Non-Proliferation of Nuclear Weapons. 1995.
- Ten Steps Toward a Weapons of Mass Destruction-Free Zone in the Middle East. PIR Center, 2013.

General Readings

- Establishing Regional Conditions Conducive to a Middle East Free of Weapons of Mass Destruction and Delivery Systems. Working paper submitted by the United States of America. Preparatory Committee for the

- Владимир Орлов. Зона, свободная от ОМУ, на Ближнем Востоке: не откладывать развязок. Международная Жизнь. № 6, 2011, с. 6-21.

Web resources

- Middle East WMDFZ, EU Non-Proliferation Consortium.
- 2012 Conference on the Middle East Zone Free of Weapons of Mass Destruction - Searching for Solutions 04.10.2012. PIR Center

TOPIC 4. WMD NONPROLIFERATION IN THE SOUTH ASIA

November 27, Wednesday. 14.30 – 15.50

Lecture 4.1. Indian nuclear program: a case study of weaponization of civilian infrastructure. Dr. Ildar Akhtamzyan

Summary: Political, security and economic backgrounds for the military nuclear program of India. The course of the program from the beginning up to 1998. Indian efforts to build the nuclear arsenal tailor the nuclear doctrine. Way off the isolation: U.S.-Indian deal, IAEA agreement, attempts to get in NSG. The current role and future of the nuclear arsenal and doctrine of India. Nuclear security and safety in India.

Essential Readings

- Prospects of Engaging India and Pakistan in Nuclear Arms Limitations. Edited by Alexei Arbatov, Vladimir Dvorkin and Sergey Oznobishchev. – Moscow, IMEMO RAN, 2012.

General Readings
- Ashley J. Tellis, India’s Emerging Nuclear Posture: Between Recessed Deterrence and Ready Arsenal (Santa Monica, CA: RAND Corp., 2001)

**Web resources**

- **NTI: India**. 2017.
- Perkovich George, Dalton Toby. *India’s Nuclear Options and Escalation Dominance*, 2016.

**November 27, Wednesday. 16.00 – 17.20**

<table>
<thead>
<tr>
<th>Lecture 4.2. Pakistani nuclear program: catching-up with the neighbor.</th>
<th>Dr. Ildar Akhtamzyan</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Summary:</strong> Political, security and economic backgrounds for the military nuclear program of Pakistan. The course of the program from the beginning up to 1998. Pakistan efforts to build the nuclear arsenal tailor the nuclear doctrine. AQ Khan network: Pakistan’s episode or policy? Attempts to end with the isolation. The current role and future of the nuclear arsenal and doctrine of Pakistan. Nuclear security and safety in Pakistan.</td>
<td></td>
</tr>
</tbody>
</table>

**Essential Readings**

- **Prospects of Engaging India and Pakistan in Nuclear Arms Limitations.** Edited by Alexei Arbatov, Vladimir Dvorkin and Sergey Oznobishchev. – Moscow, IMEMO RAN, 2012.

**General Readings**

- Naeem Salik, The Genesis of South Asian Nuclear Deterrence: Pakistan’s Perspective (Karachi: Oxford University Press, 2009)

**Web resources**


**TBA**

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<tbody>
<tr>
<td>Summary: Bilateral nuclear balances between Pakistan and India, India and China. Regional nuclear triangle China-India-Pakistan. Connections between South Asian nuclear balances and neighboring regions. South Asian nuclear balances and global security.</td>
<td></td>
</tr>
</tbody>
</table>

**Essential Readings**

- [Interview with Vyacheslav Trubnikov, member of the directorate of the Primakov Institute of World Economy and International Relations](#) // Moscow Defense Brief. - 2016. - No.1(56)
- Trubnikov Vyacheslav. [The Role of Nuclear Status in India’s and Pakistan's Foreign and Domestic Policy. Russia's Perspective](#) // Prospects of Engaging India and Pakistan in Nuclear Arms Limitations. Edited by Alexei Arbatov, Vladimir Dvorkin and Sergey Oznobishchev. – Moscow, IMEMO RAN, 2012, pp. 11-18

**General Readings**

- [Evolution of India's nuclear policy](#). Government of India.
**Web resources**


**TOPIC 5. WMD NONPROLIFERATION IN EAST ASIA**

**December 3, Tuesday. 17.30 – 18.50**

<table>
<thead>
<tr>
<th>Lecture 5.1. Nonproliferation and Disarmament issues in the East Asia region</th>
<th>Dr. Alexander V. Vorontsov</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summary: Concern dealing with the possibility of nuclearization chain reaction in the East Asia region (Japan, South Korea, Taiwan)</td>
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</tbody>
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**Essential Readings**


**General Readings**


**December 3, Tuesday. 19.00 – 20.20 (TBC)**

<table>
<thead>
<tr>
<th>Seminar 5.1. Round Table. WMD program of the DPRK: disarmament and nonproliferation aspects, scenarios for denuclearization</th>
<th>Mr. Oleg V. Rozhkov</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summary: DPRK Nuclear Missile program consistent development as one of the most acute challenge to global nonproliferation regime</td>
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</table>

**Essential Readings**


**General Readings**

TOPIC 6. REGIONAL INSTRUMENTS STRENGTHENING NONPROLIFERATION

December 11, Wednesday. 14.30 – 15.50
Lecture 6.1. Nuclear-weapon-free-zones. Dr. Ildar Alhtamzyan

December 14, Wednesday. 16.00 – 17.20
Seminar 6.1. Nuclear-weapon-free-zones: current challenges and prospects Dr. Ildar Alhtamzyan
Summary: Comparative analysis of NWFZ treaties

December 17, Tuesday. 17.30 – 18.50
Oral Exam Dr. Vladimir A. Orlov

Examples of questions

1. What regions of the globe are most vulnerable to proliferation and why?
2. Challenges of WMD Proliferation in the Middle East.
3. Israel’s Nuclear-Weapon Program.
4. Iran’s Nuclear Program: key milestones in its development and challenges to nonproliferation.
5. Iran’s Nuclear Program and challenges to nonproliferation – in search of diplomatic solution. Key milestones.
8. History of WMD programs in Iraq and lessons for the nonproliferation regime.
9. Libya and nuclear proliferation: history and lessons learned.
10. Indian nuclear-weapon program: key developments and challenges to nonproliferation.
11. Pakistan’s nuclear weapon program: key developments and challenges to nonproliferation.
13. History of DPRK military nuclear program.
14. States that renounced they nuclear weapons or nuclear weapons on their territories: history and their motivations.
<table>
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<tr>
<th></th>
<th>Military nuclear program of the DPRK: disarmament and nonproliferation aspects.</th>
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<tbody>
<tr>
<td></td>
<td>Prospects for a nuclear-weapons free Korean Peninsula.</td>
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<td></td>
<td>Threshold powers of the East Asia region (Japan, South Korea, Taiwan).</td>
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<td></td>
<td>Nuclear-weapon-free-zones: international legal basis and principles, NPT and</td>
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<td>GA resolutions, mechanisms of establishment, protocols for non-member states.</td>
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<td>Antarctic Treaty.</td>
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<td>Treaty for the Prohibition of Nuclear Weapons in Latin America and the</td>
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<td>Caribbean.</td>
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<td>South Pacific Nuclear Free Zone Treaty.</td>
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<td>Treaty on the Southeast Asia Nuclear Weapon-Free Zone.</td>
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<td>Treaty on a Nuclear-Weapon-Free Zone in Central Asia.</td>
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<tr>
<td></td>
<td>Nuclear-weapon-free-zones: current challenges and prospects.</td>
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