### 2.2 Course outline

<table>
<thead>
<tr>
<th>Course Outline</th>
<th>Academic hours</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Lectures</td>
<td>Seminars</td>
</tr>
<tr>
<td><strong>Part 1. Introduction to Nuclear Nonproliferation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Topic 1.1. Introduction to the nonproliferation studies.</strong></td>
<td>2</td>
<td>6</td>
</tr>
<tr>
<td>Sept. 11 17.00 Seminar 1.1.1 Why nuclear nonproliferation matters and will matter in the decades to come: An Introduction. (At PIR Center, with a telebridge with MIIS at Monterey).</td>
<td>2</td>
<td>2</td>
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<tr>
<td>Sept. 11 18.30 Seminar 1.1.2 Review of literature on nuclear nonproliferation. (At PIR Center)</td>
<td>2</td>
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<tr>
<td>Sept. 18 14.30 Lecture 1.1.1 Weapons of mass destruction: the basics.</td>
<td>2</td>
<td>2</td>
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<tr>
<td>Sept. 18 16.00 Seminar 1.1.3 Leading international institutions and think-tanks dealing with WMD nonproliferation.</td>
<td>2</td>
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<tr>
<td><strong>Topic 1.2. Evolution of the nuclear nonproliferation regime: 1968 - 2019</strong></td>
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<tr>
<td>Sept. 25 14.30 Lecture 1.2.1 Nuclear Nonproliferation Treaty (1968) and its role in global security architecture. Three pillars of nuclear nonproliferation.</td>
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<tr>
<td>Sept. 25 16.00 Seminar 1.2.1 Evolution of the nuclear nonproliferation in the times of the Cold War: 1960s to 1980s</td>
<td>2</td>
<td>2</td>
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<tr>
<td>Oct.2 14.30 Lecture 1.2.2 Evolution of the nuclear nonproliferation regime</td>
<td>2</td>
<td>2</td>
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</tbody>
</table>
in the times of transition towards a polycentric world: 1990s to 2010s

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
<th>Event</th>
<th>Duration</th>
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<tbody>
<tr>
<td>Oct. 2</td>
<td>16.00</td>
<td>Seminar 1.2.2 / Provisional Test 1. Contemporary challenges facing the nuclear nonproliferation regime and their implications for the global security</td>
<td>2 4 6</td>
</tr>
</tbody>
</table>

#### Part 2.
Transformation of Global Debate over Nuclear Nonproliferation

<table>
<thead>
<tr>
<th>Topic</th>
<th>2.1. NPT Review Process and New Approaches towards the Nuclear Nonproliferation Regime</th>
<th>2 6 12 20</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oct. 16</td>
<td>Oxford-style Debate 2.1.1 / Provisional Test 2. Does the Treaty on the Prohibition of Nuclear Weapons (TPNW) contribute to the strengthening of the nuclear nonproliferation regime or does it diminish the regime? Part 1</td>
<td>2 4 6</td>
</tr>
<tr>
<td>Oct. 16</td>
<td>Oxford-style Debate 2.1.2 / Provisional Test 2. Does the Treaty on the Prohibition of Nuclear Weapons contribute to the strengthening of the nuclear nonproliferation regime or does it diminish the regime? Part 2</td>
<td>2 4 6</td>
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</tbody>
</table>
### Part 1. Introduction to Nuclear Nonproliferation

#### Topic 1.1. Introduction to the nonproliferation studies

**September 11, 2019 17.00-18.20**

<table>
<thead>
<tr>
<th>Seminar</th>
<th>Topic</th>
<th>Time</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>1.1.1.</td>
<td>1. Why nuclear nonproliferation matters and will matter in the decades to come: An Introduction.</td>
<td>14.30</td>
<td>Seminar at PIR Center staff. (At PIR Center, with a telebridge with MIIS at Monterey).</td>
</tr>
<tr>
<td>1.1.2.</td>
<td>2. Review of literature on nonproliferation.</td>
<td>16.00</td>
<td>Seminar at PIR Center staff. (At PIR Center).</td>
</tr>
</tbody>
</table>

**Summary:** Students explore the interdependence of nuclear nonproliferation and global security.

**September 11, 2019 18.30-19.50**

<table>
<thead>
<tr>
<th>Seminar</th>
<th>Topic</th>
<th>Time</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1.2.</td>
<td>1. Review of literature on nonproliferation.</td>
<td>18.30</td>
<td>Seminar at PIR Center staff. (At PIR Center).</td>
</tr>
</tbody>
</table>

**Essential Readings**


**General Readings**


Ядерное нераспространение. Учебник в двух томах. Том 1. Том 2. ПИР-Цент, 2002 г.


Ядерное нераспространение: учебное пособие. Томский государственный университет, 2017 г.


Web resources

- PIR Center Project: “The Future of the NPT: Shaping Russia’s Position”
- Educational Resources, Nuclear Threat Initiative (NTI).
- Disarmament Education. UNODA.

September 18, 2019 14.30-15.50

Lecture 1.1.1. Weapons of mass destruction: the basics

Dr. Vladimir A. Orlov

Summary: Nuclear proliferation as a major challenge to global security in the 21\textsuperscript{th} century. Other types of proliferation of weapons of mass destruction.

Essential Readings

- Treaty on the Non-Proliferation of Nuclear Weapons
- Convention on the Prohibition of the Development, Production, Stockpiling and Use of Chemical Weapons and on Their Destruction
- Convention on the Prohibition of the Development, Production and Stockpiling of Bacteriological (Biological) and Toxin Weapons and on their Destruction

General Readings

- Hymans, Jacques E. C. Theories of nuclear proliferation: The State of the


Web resources

- PIR Center Project: “*The Future of the NPT: Shaping Russia’s Position*”
- “*Demilitarization*” Section, OPCW
- Biological Weapons, UNODA
- International Atomic Energy Agency
- The Preparatory Commission for the Comprehensive Nuclear-Test-Ban Treaty Organization

September 18, 2019 16.00-17.20

<table>
<thead>
<tr>
<th>Seminar 1.1.3. Leading international institutions and think-tanks dealing with WMD nonproliferation.</th>
<th>Dr. Vladimir A. Orlov</th>
</tr>
</thead>
</table>

*Summary:* Review of leading international institutions dealing with nonproliferation.

**Essential Readings**

- [Leading World Think-Tanks in the Area of WMD Nonproliferation. An Illustrated Fact Sheet](#). PIR Center, 2019.

**Web resources**

- [Arms Control Association](#)
- [Brookings Institution](#)
- [Carnegie Endowment for International Peace](#)
- [Center for Naval Analyses (CNA) Corporation](#)
- [Center for Strategic and International Studies (CSIS)](#)
- Nuclear Threat Initiative (NTI)
- Hudson Institute
- Center for Arms Control and Non-Proliferation (CACNP)
- United Nations Office for Disarmament Affairs (UNODA)
- Center for International Security and Cooperation (CISAC)
- Belfer Center
- RAND Corporation
- James Martin Center for Nonproliferation Studies (CNS)
- Nonproliferation for Global Security Foundation (NPS Global)
- La Fondation pour la recherche stratégique (FRS)
- French Institute of International Relations (IFRI)
- Stockholm International Peace Research Institute (SIPRI)
- The Geneva Centre for Security Policy (GCSP)
- The United Nations Institute for Disarmament Research (UNIDIR)
- Vienna Centre for Disarmament and Non-Proliferation (VCDPN)
- Peace Research Institute Frankfurt (PRIF)
- German Institute for International and Security Affairs (SWP)
- Chatham House
- British American Security Information Council (BASIC)
- Royal United Services Institute (RUSI)
- International Institute for Strategic Studies (IISS)
- Acronym Institute for Disarmament Diplomacy
- Centre for Science & Security Studies (CSSS), King’s College
- The EU Non-proliferation Consortium
- Pugwash Conferences on Science and World Affairs
- Egyptian Council for Foreign Affairs (ECFA)
- Arab Institute for Security Studies (ACISIS)
- Institute for Political and International Studies (IPIS)
- South Asian Strategic Stability Institute (SASSI)
- Observer Research Foundation (ORF)
- Institute of World Economy and International Relations of the Russian Academy of Sciences (IMEMO)
- PIR Center
- Center for Energy and Security Studies (CENESS)
- Ural Federal University (UrFU)
- Tomsk State University (TSU)
- St Petersburg State University (SPbU)
- China Institutes of Contemporary International Relations (CICIR)
- Carnegie-Tsinghua
- Fudan University
### Topic 1.2. Evolution of the nuclear nonproliferation regime: 1968 - 2019

**September 25, 2019 14.30-15.50**

<table>
<thead>
<tr>
<th>Lecture 1.2.1. Nuclear Nonproliferation Treaty (1968) and its role in global security architecture. Three pillars of nuclear nonproliferation.</th>
<th>Dr. Vladimir A. Orlov</th>
</tr>
</thead>
</table>

*Summary:* Definition of nuclear nonproliferation regime. Nuclear Nonproliferation Treaty (1968) and its role in global security architecture. Three pillars of nuclear nonproliferation: nuclear nonproliferation, peaceful use of nuclear energy, and nuclear disarmament

### Essential Readings

- [The Treaty on the Non-Proliferation of Nuclear Weapons](#);
- Vladimir Orlov and Ivan Trushkin. [NPT of Tomorrow](#). Russia in Global Affairs. October 16, 2013
- [Joint Statement by the Foreign Ministers of the Depositary Governments for the Treaty on the Non-Proliferation of Nuclear Weapons 28 June 2018](#)
- [Opening Remarks by Ambassador Anatoly Antonov at the NPT Depositary Conference on the 50th anniversary of the Treaty](#), Washington, June 28, 2018
- [The Nuclear Non-proliferation Treaty: Crashing at 50?](#) Tariq Rauf. Yaderny Kontrol, Issue #6 (500), 2018
- [Towards 2020: Reflections of the Chair of the 2017 session of the Preparatory Committee](#), UN
- [2018 NPT PrepCom Chair’s Reflections on the State of the NPT](#). UN
- [Reflections of the Chair of the 2019 session of the Preparatory Committee](#), UN

### General Readings


*Deputy Foreign Minister Sergey Ryabkov’s remarks at the Conference marking the 50th anniversary of the NPT being opened for signing*, Moscow, June 14, 2018

*Владимир Орлов. Крепость ДНЯО*. Блог ПИР-Центра, 1 июля 2018 г.

Yaderny Kontrol, Issue #6 (500), 2018 (in Russian)

**Web resources**

- [Disarmament Education](https://www.unodc.org/unodc/en/disarmament-education). UNODA.
- PIR Center Project “*The Future of the NPT: Shaping Russia’s Position*”

**September 25, 2019 16.00-17.20**

<table>
<thead>
<tr>
<th>Lecture 1.2.1. Evolution of the nuclear nonproliferation in the times of the Cold War: 1960s to 1980s</th>
<th>Dr. Vladimir A. Orlov</th>
</tr>
</thead>
</table>

**Summary:** Israeli nuclear program, Indian “peaceful” nuclear test, South African nuclear program, creation of the NSG and Zangger Committee, French and Chinese unwillingness to participate in the NPT

**Essential Readings**

- George Bunn. *The Nuclear Nonproliferation Treaty: History and Current*
Problems, Arms Control Association.

General Readings


Web resources

- Interactive NPT Timeline. NTI
- James Martin Center for Nonproliferation Studies at Middlebury Institute of International Studies at Monterey.

October 2, 2019 14.30-15.50

Lecture 1.2. Evolution of the nuclear nonproliferation regime in the times of transition towards a polycentric world: 1990s to 2010s

Dr. Vladimir A. Orlov

Summary: End of the Cold War and nuclear nonproliferation, Iraqi nuclear program, creation of the Additional protocol to the IAEA safeguards agreement, China and France join the NPT, DPRK’s nuclear issue, nuclear tests by India and Pakistan, nuclear test of the DPRK.

Essential Readings

- Treaty on the Prohibition of Nuclear Weapons. United Nations conference to negotiate a legally binding instrument to prohibit nuclear weapons, leading towards their total elimination

**General Readings**

• *Agreed Framework Between the United States of America and The Democratic People's Republic of Korea*, October 21, 1994
• *Announcement by the Prime Minister on the Indian nuclear test*, 1998

**Web resources**

• *The Joint Comprehensive Plan of Action (JCPOA) and its implementation*. European Union External Action Service
• PIR Center Project “The Future of the NPT: Shaping Russia’s Position”

**October 2, 2019 16.00-17.20**

| Seminar 1.2.2 / Provisional Test 1. Contemporary challenges facing the nuclear nonproliferation regime and their implications for the global security | Dr. Vladimir A. Orlov |

*Summary:* Issues of treaty withdrawal. Lack of compliance on the part of the states. Nuclear disarmament process stagnation. Universality of the NPT. Nuclear weapons in new political and technological reality

**Essential Readings**

• *Treaty on the Prohibition of Nuclear Weapons*. United Nations conference to negotiate a legally binding instrument to prohibit nuclear weapons, leading towards their total elimination
General Readings


Web resources

- U.S.-Russia Relations: Quest for Stability, Carnegie Corporation of New York Project by Cynthia Lazaroff, Bruce Allyn, 2019
- The William J. Perry Project, 2015

Part 2. Transformation of Global Debate over Nuclear Nonproliferation

Topic 2.1. NPT Review Process and New Approaches towards the Nuclear Nonproliferation Regime

October 9, 2019 14.30-15.50


Dr. Vladimir A. Orlov


Essential Readings

- 1995 Review and Extension Conference of the Parties to the Treaty on the Non-Proliferation of Nuclear Weapons;
- Vladimir Orlov. The 1995 NPT Review and Extension Conference in “Nuclear Nonproliferation in U.S.-Russian Relations: Challenges and Opportunities”, ed. by Vladimir Orlov, Roland Timerbaev, Anton Khlopkov. PIR Library Series,
2002.
- **2000 Review Conference of the Parties to the Treaty on the Non-Proliferation of Nuclear Weapons**. UNODA
- **2005 NPT Review Conference**. Reaching Critical Will.
- **2010 NPT Review Conference**. Reaching Critical Will.

**General Readings**

- **Politics and Protection: Why The 2005 NPT Review Conference Failed**. Acronym Institute for Disarmament Diplomacy

**Web resources**

- PIR Center Project “*The Future of the NPT: Shaping Russia’s Position*”
- **2015 Review Conference of the Parties to the Treaty on the Non-Proliferation of Nuclear Weapons (NPT)**. UN

**October 9, 2019 16.00-17.20**

| --- | --- |

*Summary:* 2017-2019 PrepComs. Students will have to weight on merits and failures of the NPT and its possible future
Essential Readings

- Towards 2020: Reflections of the Chair of the 2017 session of the Preparatory Committee. UN
- 2018 NPT PrepCom Chair’s Reflections on the State of the NPT. UN

General Readings

- 2017 NPT PrepCom Chair’s Factual Summary. UN
- 2018 NPT PrepCom Chair’s Factual Summary. UN
- 2019 NPT PrepCom Chair’s working paper. Recommendations by the Chair to the 2020 Review Conference. UN

Web resources

- PIR Center Project “The Future of the NPT: Shaping Russia’s Position”
- 2017 Preparatory Committee for the 2020 Nuclear Non-Proliferation Treaty Review Conference. UN
- 2018 Preparatory Committee for the 2020 Nuclear Non-Proliferation Treaty Review Conference. UN

October 16, 2019 14.30-15.50
Oxford-style Debate 2.1.1 / Provisional Test 2. Does the Treaty on the Prohibition of Nuclear Weapons (TPNW) contribute to the strengthening of the nuclear nonproliferation regime or does it diminish the regime? Part 1

Dr. Vladimir A. Orlov

October 16, 2019 16.00-17.20
Oxford-style Debate 2.1.2 / Provisional Test 2. Does the Treaty on the Prohibition of Nuclear Weapons contribute to the strengthening of the nuclear nonproliferation regime or does it diminish the regime? Part 2

Summary: The students divide into two groups and debate the pros and cons of the TPNW for provision of nuclear nonproliferation regime

Dr. Vladimir A. Orlov

Essential Readings

- Treaty on the Prohibition of Nuclear Weapons, United Nations conference to negotiate a legally binding instrument to prohibit nuclear weapons, leading towards their total elimination
- Disarmament to Save Humanity. From: Securing our common future, An Agenda for Disarmament, UN, 2018. (pp. 15-32)

General Readings

- Dispute between Sergey Karaganov and Alexei Arbatov. Global Zero and Common Sense: Nuclear Weapons in the Modern World; Common Sense and Disarmament: The Matter and Philosophy of Nuclear Weapons; Sergei Karaganov’s Response, Russia in Global Affairs, July-October 2010
- Alexandr Radchuk. The Great Nuclear Game of the Game of the 21st century Disarmament or War. Security Index (International Edition), No. 4 (93), Fall 2010
- Gaukhar Mukhatzhanova. The Nuclear Weapons Prohibition Treaty;
Negotiations and Beyond, Arms Control Association, September 2017.
- Why a Ban? ICAN
- Tom Sauer. Whether you like it or not, the Nuclear Ban Treaty is here to stay: a reply to Brad Roberts. March 2018.
- The nuclear weapons ban treaty and the non-proliferation regime. Medicine, Conflict and Survival. Volume 34, 2018

Web resources:
- Film: Countdown to Zero.
- PIR Center Project “Ways Towards Nuclear Disarmament”

**Topic 2.2. If Tomorrow Comes: Lessons Learned, Lessons Ignored**

**October 23, 2019 14.30-15.50**

<table>
<thead>
<tr>
<th>Simulation 2.2.1 / Provisional Test 3. Cuban Missile Crisis and Use of Nuclear Weapons: Summarizing the...</th>
<th>Dr. Bruce Allyn, Ms. Cynthia Lazaroff</th>
</tr>
</thead>
</table>
### Simulation 2.2.2 / Provisional Test 3.

**Cuban Missile Crisis and Use of Nuclear Weapons: Summarizing the Lessons Learned and Assessing the Current Risks (Part 2)**

**October 23, 2019 16.00-17.20**

<table>
<thead>
<tr>
<th>Dr. Bruce Allyn, Ms. Cynthia Lazaroff</th>
</tr>
</thead>
</table>

**Summary:** The students simulate the decision-making process during the Cuban Crisis.

### Essential Readings


### General Readings

- Н.С. Хрущев. Воспоминания. Время. Люди. Власть. В 2 книгах. Кн. 1. Москва, Вече, 2016, сс. 835-844; 858-860
- Н.С. Хрущев. Воспоминания. Время. Люди. Власть. В 2 книгах. Кн. 2. Москва, Вече, 2016, сс. 648-686; 798

### Web resources:

- Briefing Board #87: [Soviet Military Build Up In Cuba](#) (Map). 6 February 1963

**November 6, 2019 14.30-17.20**

<table>
<thead>
<tr>
<th>Oral exam</th>
<th>Dr. Vladimir A. Orlov</th>
</tr>
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<tbody>
<tr>
<td><em>Examples of questions</em></td>
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</tr>
</tbody>
</table>


2. Contemporary global challenges to nuclear nonproliferation.

3. Evolution of the nuclear nonproliferation regime in the 1990s.

4. Key challenges to the NPT review process in 2010 - 2016.


8. Article VI of the NPT and problem of its implementation.

9. NPT review process in the 1990s.


11. Key contemporary regional challenges to nonproliferation regime.

12. Article 4 of the NPT and its implementation.

13. NPT and IAEA.


16. Pillars of the nuclear nonproliferation regime.


18. Challenges to multilateral nuclear disarmament.


20. Definition of nuclear nonproliferation regime and its components. Article 1
and 2 of the NPT.
22. Article 10 of the NPT.

**ESSENTIAL LITERATURE.**

- [The Treaty on the Non-Proliferation of Nuclear Weapons](#)
- Orlov Vladimir and Trushkin Ivan. NPT of Tomorrow. Russia in Global Affairs. October 16, 2013
- Cynthia Lazaroff. [Dawn of a new Armageddon](#), Bulletin of the Atomic Scientists. August 6, 2018

**GENERAL LITERATURE FOR THE COURSE**


*Deputy Foreign Minister Sergey Ryabkov’s remarks at the Conference marking the 50th anniversary of the NPT being opened for signing.* Moscow, June 14, 2018


Бликс Ханс. *Нераспространение: взгляд с Венеры.* Индекс Безопасности, №1 (100) 2012 г. С. 61- 64.


Орлов Владимир. *Главная угроза для нераспространения в том, что каждый тянет одеяло на себя (интервью).* ПИР-Центр, Индекс Безопасности, 1 (116-117), 2016, Том 22, с. 26-35

Орлов Владимир. *Крепость ДНЯО.* Блог ПИР-Центра, 1 июля 2018 г.

Ядерное нераспространение. Учебник в двух томах. *Том 1, Том 2.* ПИР-Центр, 2002 г.


Ядерное нераспространение: учебное пособие. Томский государственный университет, 2017 г.


**USEFUL WEB RESOURCES**

- PIR Center: [www.pircenter.org/en](http://www.pircenter.org/en)
- *Yaderny Control* Facebook group
- Center for Nonproliferation Studies in Monterey, California: [www.nonproliferation.org](http://www.nonproliferation.org)
Carnegie Endowment for International Peace:  
www.carnegieendowment.org/npp/

Nuclear Threat Initiative (NTI): www.nti.org

The Acronym Institute for Disarmament Diplomacy (London):  
www.acronym.org.uk

International Atomic Energy Agency (IAEA): www.iaea.org

UNODA: Disarmament Education.

Project by Cynthia Lazaroff, Bruce Allyn, 2019

The William J. Perry Project. 2015