### 2.2 Course outline

<table>
<thead>
<tr>
<th>Course Outline</th>
<th>Academic hours</th>
<th>Lectures</th>
<th>Seminar(s)</th>
<th>Homework</th>
<th>Academic hours per topic</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Part 1. Introduction to Nuclear Nonproliferation</strong></td>
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<tr>
<td><strong>Topic 1.1. Introduction to the nonproliferation studies.</strong></td>
<td>6</td>
<td>6</td>
<td>12</td>
<td>24</td>
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<tr>
<td>Sept. 10. 18.00 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>
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<tr>
<td>Sept. 10. 19.30 Seminar 1.1.2. Review of nonproliferation literature. (At PIR Center)</td>
<td>2</td>
<td>2</td>
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<tr>
<td>Sept. 12. 16.00 Lecture 1.1.2. Basic concepts in nuclear nonproliferation studies. Review of leading international institutions dealing with nonproliferation.</td>
<td>2</td>
<td>2</td>
<td>4</td>
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<tr>
<td>Sept. 19. 14.30 Lecture 1.1.3. Nuclear Nonproliferation Treaty (1968) and its role in global security architecture</td>
<td>2</td>
<td>2</td>
<td>4</td>
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<tr>
<td>Sept. 19. 16.00 Seminar 1.1.3. NPT Celebrates 50: Main Achievements and Key Challenges. Three Pillars of Nuclear Nonproliferation.</td>
<td>2</td>
<td>2</td>
<td>4</td>
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<tr>
<td><strong>Topic 1.2. Evolution of the nuclear nonproliferation regime: 1968 - 2018</strong></td>
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<td>4</td>
<td>8</td>
<td>16</td>
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<tr>
<td>Sept. 26</td>
<td>16.00</td>
<td>Lecture 1.2.2. Evolution of the nuclear nonproliferation regime in the times of transition towards a polycentric world: 1990s to 2010s</td>
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<tr>
<td>Oct. 3</td>
<td>14.30</td>
<td>Simulation/ Provisional Test 1.2.3. Cuban Missile Crisis and Use of Nuclear Weapons: Summarizing the Lessons Learned and Assessing the Current Risks (Part 1)</td>
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<tr>
<td>Oct. 3</td>
<td>16.00</td>
<td>Simulation/ Provisional Test 1.2.3. Cuban Missile Crisis and Use of Nuclear Weapons: Summarizing the Lessons Learned and Assessing the Current Risks (Part 2)</td>
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</tr>
<tr>
<td>Oct. 17</td>
<td>14.30</td>
<td>Lecture 2.2.1. Contemporary problems facing the nuclear nonproliferation regime</td>
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</tbody>
</table>

**Part 2. Key Problems and Transformation of Global Debate over Nuclear Nonproliferation**

<table>
<thead>
<tr>
<th>Topic</th>
<th>Time</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>Topic 2.1.</td>
<td>14.30</td>
<td>NPT Review Process</td>
</tr>
<tr>
<td>Topic 2.2.</td>
<td>14.30</td>
<td>Contemporary Problems of the Nuclear Nonproliferation Regime</td>
</tr>
<tr>
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<tr>
<td>Oct. 17</td>
<td>16.00</td>
<td>Seminar 2.2.1. Towards the NPT Review Conference-2020</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Topic 2.3. Nuclear Nonproliferation, Strategic Stability, and Disarmament</strong></td>
</tr>
<tr>
<td>Oct. 24</td>
<td>14.30</td>
<td>Debate 2.3.1. Will the world be more secure without nuclear weapons? (Oxford-style debate) Part 1</td>
</tr>
<tr>
<td>Oct. 24</td>
<td>16.00</td>
<td>Debate 2.3.1. Will the world be more secure without nuclear weapons? (Oxford-style debate) Part 2</td>
</tr>
<tr>
<td>Oct. 31</td>
<td>14.30</td>
<td>Seminar/Provisional Test 2.2.2. Contemporary problems of the nuclear nonproliferation regime.</td>
</tr>
<tr>
<td>Nov. 7</td>
<td>14.30</td>
<td>Test/Oral exam</td>
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<td><strong>Total:</strong></td>
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</table>

**Part 1. Introduction to Nuclear Nonproliferation**

**Topic 1.1. Introduction to the Nonproliferation studies**

**September 10, 2018 18.00-19.20**

**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).

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

**September 10, 2018 19.30-20.50**

**Seminar 1.1.2. Review of nonproliferation literature.** (At PIR Center)

**PIR Center staff**

**Essential Readings**

General Readings

- Ядерное нераспространение. Учебник в двух томах. Том 1, Том 2. ПИР-Центр, 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 12, 2018 14.30-15.50

<table>
<thead>
<tr>
<th>Lecture 1.1.1. Weapons of mass destruction and their delivery systems: the basics</th>
<th>Dr. Vladimir A. Orlov</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summary: Nuclear proliferation as a major challenge to global security in the 21st century. Other types of proliferation of weapons of mass destruction.</td>
<td></td>
</tr>
</tbody>
</table>

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


Web resources

• PIR Center Project: “The Future of the NPT: Shaping Russia’s Position”

• “Demilitarization” Section, OPCW

• Biological Weapons, UNODA

September 12, 2018 16.00-17.20

| Lecture 1.1.2. Basic concepts in nuclear nonproliferation studies. Review of leading international institutions dealing with nonproliferation. | Dr. Vladimir A. Orlov |

*Summary:* Basic concepts in nuclear Nonproliferation studies. Review of literature. Review of leading international institutions dealing with nonproliferation.

Essential Readings


General Readings


### Web resources

- **International Atomic Energy Agency**
- **The Preparatory Commission for the Comprehensive Nuclear-Test-Ban Treaty Organization**

### September 19, 2018 14.30-15.50

**Lecture 1.1.3. Nuclear Nonproliferation Treaty (1968) and its role in global security architecture**

**Dr. Vladimir A. Orlov**

**Summary:** Definition of nuclear nonproliferation regime. Nuclear Nonproliferation Treaty (1968) and its role in global security architecture

### Essential Readings

- **The Treaty on the Non-Proliferation of Nuclear Weapons**;

### General Readings


### Web resources

- **Disarmament Education. UNODA.**
### Seminar 1.1.3. NPT Celebrates 50: Main Achievements and Key Challenges. Three Pillars of Nuclear Nonproliferation

**Summary:** The state of the NPT at its 50 and the path ahead of the Treaty.

#### Essential Readings
- [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. Yaderney 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](#)

#### 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
- PIR Center Project “The Future of the NPT: Shaping Russia’s Position”

### Topic 1.2. Evolution of the nuclear nonproliferation regime: 1968 - 2018

#### September 26, 2018 14.30-15.50

**Lecture 1.2.1. Evolution of the nuclear nonproliferation in the times of the Cold War: 1960s to 1980s**

**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


General Readings

- Горбачев, Михаил Сергеевич. *В меняющемся мире*. Издательская группа ACT. 2018

Web resources

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

September 26, 2018 16.00-17.20

Lecture 1.2.2. 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”

<table>
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<tr>
<td><strong>Summary</strong>: The students simulate the decision-making process during the Cuban Crisis.</td>
</tr>
</tbody>
</table>

| October 3, 2018 16.00-17.20 |
Simulation/ Provisional Test 1.2.1.
Cuban Missile Crisis and Use of Nuclear Weapons: Summarizing the Lessons Learned and Assessing the Current Risks (Part 2)

Dr. Bruce Allyn, Ms. Cynthia Lazaroff

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

Part 2. Key Problems and Transformation of Global Debate over Nuclear Nonproliferation
**Topic 2.1. NPT Review Process**

**October 10, 2018 14.30-15.50**

|---|---|


**Essential Readings**

- [1995 Review and Extension Conference of the Parties to the Treaty on the Non-Proliferation of Nuclear Weapons](https://www.un.org/Docs/scouncil/sc15/15-047.htm);

**Web resources**

- PIR Center Project “[The Future of the NPT: Shaping Russia’s Position](https://www.pir.org/15226)"  

**October 10, 2018 16.00-17.20**

|---|---|


**Essential Readings**

• 2005 NPT Review Conference, Reaching Critical Will.
• 2010 NPT Review Conference, Reaching Critical Will.
• 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

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
• 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
Lecture 2.3.1. Contemporary problems facing the nuclear nonproliferation regime

Dr. Vladimir A. Orlov

**Summary:** Issues of treaty withdrawal, lack of compliance on the part of the states, nuclear weapons in new political and technological reality.

---

**Essential Readings**

- **Strengthening the nuclear nonproliferation regime in 2016-2020. Recommendations** by PIR Center, April 2016.
- Matthew Kroenig, Tristan Volpe. **3-D Printing the Bomb? The Nuclear Nonproliferation Challenge.** The Washington Quarterly, Fall 2015
- **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**

- The William J. Perry Project.

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**October 17, 2018 16.00-17.20**

Seminar 2.2.1. Towards the NPT Review Conference-2020

Dr. Vladimir A. Orlov

**Summary:** Students will have to weight on merits and failures of the NPT and its possible future

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**Essential Readings**

- **Strengthening the nuclear nonproliferation regime in 2016-2020.**
Recommendations by PIR Center, April 2016.


Web resources

- PIR Center Project “The Future of the NPT: Shaping Russia’s Position”

### Topic 2.3. Nuclear Nonproliferation, Strategic Stability, and Disarmament

**October 24, 2018 14.30-15.50**

Debate 2.1.1. Will the world be more secure without nuclear weapons? (Oxford-style debate) Part 1

Mr. Adlan R. Margoev

*Summary*: The students divide into two groups and debate the pros and cons of the nuclear weapons for provision of global security.

**October 24, 2018 16.00-17.20**

Debate 2.1.1. Will the world be more secure without nuclear weapons? (Oxford-style debate) Part 2

Mr. Adlan R. Margoev

*Summary*: The students divide into two groups and debate the pros and cons of the nuclear weapons for provision of global security.

### Essential Readings


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

Web resources:

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

<table>
<thead>
<tr>
<th>October 31, 2018 14.30-15.50</th>
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<td>Seminar/Provisional Test 2.2.2. Contemporary problems of the nuclear nonproliferation regime.</td>
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<tr>
<th>November 7, 2018 14.30-15.50</th>
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<tbody>
<tr>
<td>Test/Oral exam</td>
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</table>

Examples of questions

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, its components and subjects. 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

GENERAL LITERATURE FOR THE COURSE


• Securing our common future. An Agenda for Disarmament. UN, 2018.
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


А.И. Микоян. Так было. Вагриус, 1999.

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

Горбачев, Михаил Сергеевич. В меняющемся мире. Издательская группа АСТ. 2018

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

Center for Nonproliferation Studies in Monterey, California: www.nonproliferation.org

Carnegie Endowment for International Peace: www.carnegieendowment.org/npp/

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


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

UNODA: Disarmament Education.

The William J. Perry Project.