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**Негосударственное образовательное учреждение высшего образования
«Школа управления СКОЛКОВО»**



Утверждено
Ректор С.С. Писарев
25” апреля 2024 г.

**РАБОЧАЯ ПРОГРАММА ДИСЦИПЛИНЫ
АСТРОПОЛИТИКА/ASTROPOLITICS**

Направление подготовки	38.03.02 Менеджмент
Квалификация выпускника	Бакалавр
Образовательная программа	Управление и предпринимательство
Форма обучения	Очная
Рабочая программа дисциплины разработана	Rafael Contreras-Luna

Трудоемкость		Контактная работа		Самостоятельная работа	Форма контроля	Семестр/кв артель
з.е.	часы	лекции	семинарские занятия			
2	72	24	24	24	Экзамен	2/3, 3/2

**Москва
2024**

1. АННОТАЦИЯ ДИСЦИПЛИНЫ

Humanity is on the verge of another historically significant migration: the first wave of the human settlement of space. In the end, settlement policies will reflect the physical realities of space, but they will also be dependent on the political and economic realities of Earth. Unlike the space race of the 1960s, today, there are many different actors: the United States, China, Europe, Russia, Japan, India and also non-national possibilities such as Elon Musk's Space X. Quite apart from what might be scientifically or technologically possible, politics will be the deciding factor when and how we are going to the Moon and Mars. In this sense, astropolitical research seeks to explore, understand, and scrutinise the reasons why humanity is doing things in outer space, whether for military, economic, scientific, or exploratory purposes. This course deals with the geopolitics of the outer space and its relevance for the understanding of the world's politics. Students taking this course will obtain basic knowledge about the relation of power and space in the outer space domain and the basic factors affecting political decisions in the outer space. The main goal of the course is to enable its students to understand basic astropolitical realities and to be able to analyze political decisions related to the domain.

2. ПЛАНИРУЕМЫЕ РЕЗУЛЬТАТЫ ОСВОЕНИЯ ДИСЦИПЛИНЫ

В случае успешного освоения курса студенты будут:

знать

- the relevant theoretical concepts and approaches to studying geopolitics of outer space;
- the importance of astropolitics, using appropriate theoretical and conceptual tools;
- the different partnerships between Russia and other space powers/entities and possible points of contention

уметь

- analyse politics and history of the space race

владеть

- skills of critical analysis by making sense of the issues through the various conceptual frameworks employed in the module;
- advanced essay-writing skills.

Дисциплина направлена на развитие следующих компетенций и их индикаторов:

Код компетенции	Формулировка компетенции и/или ее индикатора (ов)
УК-1.	Способен осуществлять поиск, критический анализ и синтез информации, применять системный подход для решения поставленных задач
УК-1-1.	Анализирует задачу, осуществляет ее декомпозицию, определяет приоритетность и этапность действий, направленных на решение задачи
УК-1-2.	Находит и критически анализирует информацию, необходимую для решения поставленной задачи

УК-1-3.	Выбирает оптимальный вариант решения задачи, аргументируя свой выбор
УК-2.	Способен определять круг задач в рамках поставленной цели и выбирать оптимальные способы их решения, исходя из действующих правовых норм, имеющихся ресурсов и ограничений
УК-2-1.	Ставит задачи, необходимые для достижения цели с учетом правовых норм
УК-2-2.	Рассматривает возможные, в том числе нестандартные решения задач, оценивает достоинства и риски возможных решений, выбирает оптимальные решения с учетом ресурсов и ограничений
УК-3.	Способен осуществлять социальное взаимодействие и реализовывать свою роль в команде
УК-3-1.	Знает принципы эффективной командной работы; участвует в распределении ролей в команде, взаимодействует с членами команды в соответствии со своей ролью
УК-3-2.	Участвует в обмене информацией, знаниями и опытом, в презентации результатов работы команды
УК-6.	Способен управлять своим временем, выстраивать и реализовывать траекторию саморазвития на основе принципов образования в течение всей жизни
УК-6-1.	Планирует и решает перспективные задачи собственной деятельности с учетом условий, средств, личностных возможностей, этапов карьерного роста, временной перспективы развития деятельности и требований рынка труда
УК-6-2.	Владеет навыками управления своим временем
УК-6-3.	Проявляет интерес к образованию и использует предоставляемые возможности для приобретения новых знаний и навыков

3. СОДЕРЖАНИЕ И СТРУКТУРА ДИСЦИПЛИНЫ

Название раздела/темы	Всего часов	Трудоемкость (час.) по видам учебных занятий			
		Контактная работа			Самостоятельная работа
		Всего	Лекции	семинары	
Тема 1. Introduction to Astropolitics	8	6	4	2	2
Тема 2. Space race (2)	10	6	2	4	4

To the Moon and beyond					
Тема 3. Celestial bodies	8	6	4	2	2
Тема 4. Ambitions in outer space	10	6	2	4	4
Тема 5. Women in Space	6	4	2	2	2
Тема 6. Treaties and laws for outer space. War, security, space	6	4	2	2	2
Тема 7. Space debris and dual-use technologies	6	4	2	2	2
Тема 8. Biology and humans in space	6	4	2	2	2
Тема 9. Elon Musk: a New Darth Vader?	6	4	2	2	2
Тема 10. Russia-China space cooperation vs NASA? Star Wars of Star Trek?	6	4	2	2	2
Итого	72	48	24	24	24

Topic 1. Introduction to Astropolitics

From Geopolitics to Astropolitics. Applicability of terrestrial theories in outer space. Space race (1) Korolev vs Von Braun.

Readings:

Dolman (2002)

Cadbury (2006)

Topic 2. Space race (2) To the Moon and beyond

Physical context: Physical limits to launch and movement, role of gravity, orbital movement, environmental impacts. The International Space Station.

Topic 3. Celestial bodies

Moon: Geography of the Moon, history, importance, future scenarios. Venus and Mars: Geography of the Venus and Mars, history, importance, future scenarios. Jupiter and Beyond: Geography of the Jupiter and outer planets, history, importance, future scenarios.

Readings:

Doboš (2023)

Sagan (1994)

Topic 4. Ambitions in outer space

The Russian Space Program. US ambitions in outer space. China's, India's. and Japan's

ambitions in outer space.

Readings:

Schreiber (2022)

Topic 5. Women in Space

Women in Space: from Tereshkova to Artemis

Topic 6. Treaties and laws for outer space. War, security, space

Readings:

Weinersmith (2023)

Frazier & Whitman Cobb (2024)

Topic 7. Space debris and dual-use technologies

Readings:

Doboš (2023)

Topic 8. Biology and humans in space

Topic 9. Elon Musk: a New Darth Vader?

Readings:

Eriksson & Newlove-Eriksson (2023)

Topic 10. Russia-China space cooperation vs NASA? Star Wars of Star Trek?

4. ОЦЕНОЧНЫЕ СРЕДСТВА И ПРИМЕРЫ ЗАДАНИЙ ДЛЯ ОЦЕНКИ РЕЗУЛЬТАТОВ ОСВОЕНИЯ ДИСЦИПЛИНЫ

4.1 Текущий контроль

Оценка за курс складывается из следующих видов заданий текущего контроля:

READING QUIZZES - 25% of final grade

To increase your familiarity and confidence with the material, you will complete daily quizzes (or brief, informal tests) based on the readings for the course.

CLASS PARTICIPATION - 25% of final grade

Participation in a seminar course is critical for creating a positive learning environment as well as comprehending the material. It is especially vital for success in one's education, as we tend to learn more as we engage more. To this end, students will be expected to take an active part in class meetings. This requires that we come to class having read course materials and ready to ask questions of one another about them and that we come to class ready to meaningfully engage with one another.

ESSAY - 50% of final grade

Assessment Criteria

Grade		Criteria
Excellent (5)	10	can be given for the essay (no less than 1000 words) written in accordance with the following requirements: a) in the essay, there is a sequential logic structure (introduction, body, and conclusion); b) the essay demonstrates good knowledge and understanding of all texts analyzed; c) the essay contains at least 10 exact quotations
	9	can be given for the essay (no less than 1000 words) written in accordance with the following requirements: a) in the essay, there is a sequential logic structure (introduction, body, and conclusion); b) the essay demonstrates good knowledge and understanding of all

		texts analyzed; c) the essay contains at least 9 exact quotations
Good (4)	8	can be given for the essay (no less than 1000 words) written in accordance with the following requirements: a) in the essay, there is a sequential logic structure (introduction, body, and conclusion); b) the essay demonstrates good knowledge and understanding of all texts analyzed; c) the essay contains at least 8 exact quotations
	7	can be given for the essay (no less than 1000 words) written in accordance with the following requirements: a) in the essay, there is a sequential logic structure (introduction, body, and conclusion); b) the essay demonstrates good knowledge and understanding of all texts analyzed; c) the essay contains at least 7 exact quotations
Satisfactory (3)	6	can be given for the essay (no less than 1000 words) written in accordance with the following requirements: a) in the essay, there is a sequential logic structure (introduction, body, and conclusion); b) the essay demonstrates good knowledge and understanding of all texts analyzed; c) the essay contains at least 6 exact quotations, different from the attributed quotations in assignment
	5	can be given for the essay (no less than 1000 words) written in accordance with the following requirements: a) in the essay, there is a sequential logic structure (introduction, body, and conclusion); b) the essay demonstrates good knowledge and understanding of all texts analyzed; c) the essay contains at least 5 exact quotations
Unsatisfactory (2)	4	can be given for the essay (no less than 1000 words) written in accordance with the following requirements: a) in the essay, there is a sequential logic structure (introduction, body, and conclusion); b) the essay demonstrates knowledge and understanding of the texts analyzed; c) the essay contains at least 4 exact quotations
	3	can be given for the essay (no less than 1000 words) i written in accordance with the following requirements: a) in the essay, there is a sequential logic structure (introduction, body, and conclusion); b) the essay demonstrates knowledge and understanding of the texts

		analyzed; c) the essay contains at least 3 exact quotations
	2	can be given for the essay (no less than 1000 words) if at least one quote is identified incorrectly
	1	can be given for the essay (less than 1000 words) if at least one quote is identified incorrectly

4.2 Промежуточная аттестация

The examination will consist of a 90-minute written test that includes the identification of ten quotations from required course readings and a written essay. The use of any electronic devices is prohibited. The student must: 1) Attribute the given quotations; identify the sections of the texts (such as a chapter) where the quotations are taken from as well as their authors, titles, and year of publication. 2) Based on the given quotations, write an essay in English (1000–1500 words) analyzing semantic relationships between the texts where these quotations are taken from.

Assessment Criteria

Grade		Criteria
Excellent (5)	10	can be given for the essay (no less than 1000 words) if 2 elements are present: 1) the student identified all quotes correctly; 2) the essay written in accordance with the following requirements: a) in the essay, there is a sequential logic structure (introduction, body, and conclusion); b) the essay demonstrates good knowledge and understanding of all texts analyzed; c) the essay contains at least 10 exact quotations, different from the attributed quotations in assignment
	9	can be given for the essay (no less than 1000 words) if 2 elements are present: 1) the student identified all quotes correctly; 2) the essay written in accordance with the following requirements: a) in the essay, there is a sequential logic structure (introduction, body, and conclusion); b) the essay demonstrates good knowledge and understanding of all texts analyzed; c) the essay contains at least 9 exact quotations, different from the attributed quotations in assignment
Good (4)	8	can be given for the essay (no less than 1000 words) if 2 elements are present: 1) the student identified all quotes correctly; 2) the essay written in accordance with the following requirements: a) in the essay, there is a sequential logic structure (introduction, body, and conclusion); b) the

		essay demonstrates good knowledge and understanding of all texts analyzed; c) the essay contains at least 8 exact quotations, different from the attributed quotations in assignment
	7	can be given for the essay (no less than 1000 words) if 2 elements are present: 1) the student identified all quotes correctly; 2) the essay written in accordance with the following requirements: a) in the essay, there is a sequential logic structure (introduction, body, and conclusion); b) the essay demonstrates good knowledge and understanding of all texts analyzed; c) the essay contains at least 7 exact quotations, different from the attributed quotations in assignment
Satisfactory (3)	6	can be given for the essay (no less than 1000 words) if 2 elements are present: 1) the student identified all quotes correctly; 2) the essay written in accordance with the following requirements: a) in the essay, there is a sequential logic structure (introduction, body, and conclusion); b) the essay demonstrates good knowledge and understanding of all texts analyzed; c) the essay contains at least 6 exact quotations, different from the attributed quotations in assignment
	5	can be given for the essay (no less than 1000 words) if 2 elements are present: 1) the student identified all quotes correctly; 2) the essay written in accordance with the following requirements: a) in the essay, there is a sequential logic structure (introduction, body, and conclusion); b) the essay demonstrates good knowledge and understanding of all texts analyzed; c) the essay contains at least 5 exact quotations, different from the attributed quotations in assignment.
Unsatisfactory (2)	4	can be given for the essay (no less than 1000 words) if 2 elements are present: 1) the student identified all quotes correctly; 2) the essay written in accordance with the following requirements: a) in the essay, there is a sequential logic structure (introduction, body, and conclusion); b) the essay demonstrates good knowledge and understanding of all texts analyzed; c) the essay contains at least 4 exact quotations, different from the attributed quotations in assignment

	3	can be given for the essay (no less than 1000 words) if 2 elements are present: 1) the student identified all quotes correctly; 2) the essay written in accordance with the following requirements: a) in the essay, there is a sequential logic structure (introduction, body, and conclusion); b) the essay demonstrates good knowledge and understanding of all texts analyzed; c) the essay contains at least 3 exact quotations, different from the attributed quotations in assignment
	2	can be given for the essay (no less than 1000 words) if at least one quote is identified incorrectly
	1	can be given for the essay (no less than 1000 words) if at least one quote is identified incorrectly

4.3 Примеры заданий

Примеры цитат для атрибутирования

Sample quotation	Key
In its narrowest construct, Astropolitik is the extension of primarily nineteenth- and twentieth-century theories of global geopolitics into the vast context of the human conquest of outer space. In a more general and encompassing interpretation, it is the application of the prominent and refined realist vision of state competition into outer space policy, particularly the development and evolution of a legal and political regime for humanity's entry into the cosmos.	Dolman, Everett (2002) Astropolitik. Frank Cass Publishers.
Although the claims of the absence of meaningful IR and security scholarship on outer space are exaggerated, it can be contended that the corpus of theory-based academic literature on outer space in these disciplines is indeed limited. However, among the limited work, Moltz has insightfully distinguished between four different theoretical schools of thought: (1) global institutionalism; (2) social interactionism; (3) space nationalism; and (4) technological determinism.	Schreiber, Nils (2022) Man, State, and War in Space: Neorealism and Russia's Counterbalancing Strategy Against the United States in Outer Space Security Politics. Astropolitics, 20:2-3, 151-174.
The Voyagers were guaranteed to work until the Saturn encounter. I thought, it might be a good idea, just after Saturn, to have then take one last glance homeward.	Sagan, Carl (1994) Pale Blue Dot: a Vision of the Human Future in Space. Ballantine Books, New York.

Примеры текстов для обсуждения

1. Cadbury, Deborah (2006) Space Race: The Epic Battle Between America and the Soviet Union for Dominion of Space. Harper.

2. Dolman, Everett (2002) *Astropolitik*. Frank Cass Publishers.
3. Doboš, Bohumil (2023) *The Geopolitics of Space Colonization: Future Power Relations in the Inner Solar System*. Routledge.
4. Eriksson, Johan & Newlove-Eriksson, Lindy (2023) *Outsourcing the American Space Dream: SpaceX and the Race to the Stars*, *Astropolitics*, 21:1, 46-62.
5. Frazier, Derrick V. & Whitman Cobb, Wendy (2024) *Space Policy for the Twenty-First Century*. University of Florida Press.
6. Sagan, Carl (1994) *Pale Blue Dot: a Vision of the Human Future in Space*. Ballantine Books, New York.
7. Schreiber, Nils (2022) *Man, State, and War in Space: Neorealism and Russia's Counterbalancing Strategy Against the United States in Outer Space Security Politics*. *Astropolitics*, 20:2-3, 151-174
8. Watzek, Jose Ruiz (2023) *Astropolitics: The Geopolitics of Space*.

5. УЧЕБНО-МЕТОДИЧЕСКОЕ И ИНФОРМАЦИОННОЕ ОБЕСПЕЧЕНИЕ ДИСЦИПЛИНЫ

5.1 Литература

Астрономия : учебник и практикум для вузов / А. В. Коломиец [и др.] ; ответственные редакторы А. В. Коломиец, А. А. Сафонов. — 3-е изд., перераб. и доп. — Москва : Издательство Юрайт, 2024. — 288 с. — (Высшее образование). — ISBN 978-5-534-18299-6. — Текст : электронный // Образовательная платформа Юрайт [сайт]. — URL: <https://urait.ru/bcode/534741> (дата обращения: 26.08.2024).

5.2 Электронные образовательные ресурсы

Материалы дисциплины размещены в LMS: <https://l.skolkovo.ru/login/index.php>

5.3 Профессиональные базы данных и информационные справочные системы (при наличии)

нет

6. ЛИЦЕНЗИОННОЕ И СВОБОДНО РАСПРОСТРАНЯЕМОЕ ПРОГРАММНОЕ ОБЕСПЕЧЕНИЕ

Операционная система Simple Linux, браузер Yandex браузер, антивирусное ПО Calmantivirus;

Свободно распространяемое ПО, в том числе отечественного производства:

Офисный пакет Libre Office, Okular PDF Reader, 7-Zip Архиватор, GIMP Редактирования фотографий, Inkscape Векторная графика, Blender 3D графика, Kdenlive Видеоредактор, Audacity Аудиоредактор, VLC Медиаплеер, Thunderbird Почтовый клиент, Flameshot Создание скриншотов

7. МАТЕРИАЛЬНО-ТЕХНИЧЕСКОЕ ОБЕСПЕЧЕНИЕ ДИСЦИПЛИНЫ

Учебная аудитория для проведения занятий лекционного типа, оснащенная мультимедийным оборудованием, учебной мебелью, доской или со стенами с маркерным покрытием.

Учебная аудитория для проведения занятий семинарского типа, оснащенная мультимедийным оборудованием, учебной мебелью, доской или со стенами с маркерным покрытием.

Аудитория (коворкинг) для самостоятельной работы оснащенная учебной мебелью, ноутбуками.

Материально-техническое обеспечение аудиторий представлено на официальном сайте <https://bbask.ru/sveden/objects/>