

Syllabus

科目名 Course title	実践工学総合科目G / Comprehensive Subject of Practical Engineering G	
副題 Course subtitle	Space law for new space actors: fostering responsible national space activities	
担当教員名 Name of Instructors	北村 健太郎 (協力:国連宇宙部) / KITAMURA Kentaro (Supported by UNOOSA)	
単位数 Credit	2 credits	
授業の概要 Course Description	Increased awareness of the fundamental principles of international space law through a series of virtual and in person lectures by United Nations experts, as well as an in-person interactive scenario-based exercise taking advantage of the five consecutive in-person lectures at Kyutech. Students will be discussing within the break up groups as policy and law makers of a mock emerging space faring nation to overcome challenging scenarios to find solutions by setting necessary procedures and regulation.	
カリキュラムにおけるこの授業の位置付け Course and Curriculum linkage	The objective of this course is to help students become familiar with the principles of space law and policy which are crutial for every country.	
授業計画 Course Calendar/Class Topic	テーマ	内容
	<ol style="list-style-type: none"> 1. Introduction to Space Law – Why Space Law Matters 2. From Vision to Action: The Role of National Space Policies 3. The Outer Space Treaty – key principles, obligations and benefits 4. Liability, Rescue and Return: International Obligations under Space Law 5. The Registration Convention: International and National Obligations 6. Space Debris: Mitigation and Emerging Remediation Approaches 7. Long-Term Sustainability of Outer Space Activities 8. –Nuclear Power Sources in Outer Space 9. –Dark and Quiet Skies: Protecting Astronomy and the Environment 10. Mid-term Exam 11. Planetary Defense and Planetary Protection 12. Space Resources: Legal and Policy Perspectives 13. National Space Law, Purpose and Scope 14. 7 Key elements of a space law 15. Authorization and Continuing Supervision of National Space Activitie 16. Insuring space missions 17. & Continuation of Scenario-based Exercise 18. Group Presentations and Expert Feedback Session 	<p>Introduction to Space Law – Why Space Law Matters</p> <p>Introduction to National Space Policies</p> <p>The Outer Space Treaty [& student presentations]</p> <p>Liability Convention, Rescue and Return Agreement [& student presentations]</p> <p>Registration Convention [& student presentations]</p> <p>Space Debris Mitigation Guidelines [& student presentations]</p> <p>Space Resources and Long-term Sustainability of Outer Space Activities [& student presentations]</p> <p>Use of Nuclear Power Sources in Outer Space & Dark and Quiet Skies [& student presentations]</p> <p>Mid-term Exam</p> <p>Planetary Defence and Planetary Protection [& student presentations]</p> <p>Space Resources [& student presentations]</p> <p>National Space Law: Purpose and Scope [& student presentations & SBE]</p> <p>Seven Key Elements of a National Space Law , Introduction of Scenario Based Exercise (SBE) [SBE in break up groups]</p> <p>Authorization and Continuous Supervision[& student presentations& SBE]</p> <p>Insuring space missions [& student presentations & SBE]</p> <p>In class student presentations of SBE in break up groups</p>
授業の進め方 General Course Policies	Lectures virtual, and lecture in person.	
授業の達成目標 Course Objectives	授業の達成目標の解説) The goal of this course is	The goal of the course is to raise awareness and enhance students' understanding of key elements of international space law. Through a series of lectures, both in-person and online, students will be exposed to comprehensive and informative content on various aspects of space law. The course aims to deepen their knowledge of fundamental principles, regulations, and policies governing space activities. By the end of the course, students will have gained a broader perspective on the legal framework surrounding space exploration, fostering their ability to navigate and apply space law principles effectively.
	具体的な授業の達成目標 Course Objectives	<ol style="list-style-type: none"> 1. Understanding the fundamental principles of international space law 2. Raising awareness of national space law and policy 3. Applying the knowledge through presentations and solving a Scenario Based Exercise
成績評価の基準および評価方法 Evaluation Methods and Grading Criteria	Evaluation will be made through the following points; ・Mid-Term Exam (30%) ・Final Exam (40%) ・In class presentation (20%) ・In class participation (10%)	
授業外学習(予習・復習)の指示 Assignment Instructions	Students are expected to make a presentation on their country' s national space activities as well as future plans and the surrounding national law in relations to space law. If more than one course participants come from the same country, the course lecturer will assign different countries.	
キーワード Keywords	International Law, Space Law, National Space Law , Space Policy.	
教科書 Required Textbooks	None.	

参考書 References/Recommended Reading	<p>1) Question of the Peaceful Use of Outer Space [RES 1348 (XIII)] (https://www.unoosa.org/oosa/oosadoc/data/resolutions/1958/general_assembly_13th_session/res_1348_xiii.html)</p> <p>2) UNOOSA Annual Report 2024 (https://www.unoosa.org/documents/pdf/annualreport/UNOOSA_Annual_Report_2024.pdf)</p> <p>3) Overview of UNOOSA's activities (https://www.unoosa.org/oosa/en/ourwork/index.html)</p> <p>4) Treaty on Principles Governing the Activities of States in the Exploration and Use of Outer Space, including the Moon and Other Celestial Bodies*</p> <p>5) Convention on International Liability for Damage Caused by Space Objects*</p> <p>6) Convention on Registration of Objects Launched into Outer Space*</p> <p>7) Agreement on the Rescue of Astronauts, the Return of Astronauts and the Return of Objects Launched into Outer Space*</p> <p>8) International Co-operation in the Peaceful Uses of Outer Space [RES 1721 (XVI)]*</p> <p>9) International Cooperation in the Peaceful Uses of Outer Space [A/RES/55/122]*</p> <p>10) Application of the concept of the "launching State" [A/RES/59/115]*</p> <p>11) Recommendations on enhancing the practice of States and international intergovernmental organizations in registering space objects [A/RES/62/101]*</p> <p>12) Recommendations on national legislation relevant to the peaceful exploration and use of outer space [A/RES/68/74]*</p> <p>13) Declaration on the fiftieth anniversary of the Treaty on Principles Governing the Activities of States in the Exploration and Use of Outer Space, including the Moon and Other Celestial Bodies [A/RES/72/78]*</p>
	<p>14) The Principles Relating to Remote Sensing of the Earth from Outer Space [A/RES/41/65]*</p> <p>15) The Principles Relevant to the Use of Nuclear Power Sources in Outer Space [A/RES/47/68]*</p> <p>16) Safety Framework for Nuclear Power Source Applications in Outer Space [A/AC.105/934]*</p> <p>17) Space Debris Mitigations Guidelines of the Committee on the Peaceful Uses of Outer Space [ST/SPACE/49]*</p> <p>18) Compendium of space debris mitigation standards adopted by States and international organizations [A/AC.105/2023/CRP.12] (https://www.unoosa.org/res/oosadoc/data/documents/2023/aac_1052023crp/aac_1052023crp_12_0.html/AC105_2003_CRP12E.pdf)</p> <p>19) Guidelines for the Long-term Sustainability of Outer Space Activities of the Committee on the Peaceful Uses of Outer Space*</p> <p>20) Working Group on Legal Aspects of Space Resource Activities (https://www.unoosa.org/oosa/en/ourwork/copuos/lsc/space-resources/index.html)</p> <p>21) Schematic overview of national regulatory frameworks for space activities [A/AC.105/C.2/2023/CRP.28*] (https://www.unoosa.org/res/oosadoc/data/documents/2023/aac_105c_22023crp/aac_105c_22023crp_28_0.html/AC105_C2_2023_CRP28E.pdf)</p> <p>22) National Space Law and Policy Database, ASTRO (https://astro.unoosa.org/astro/en/national-space-law-landing-page.html)</p> <p>23) Report of the Committee on the Peaceful Uses of Outer Space (A/80/20) (https://www.unoosa.org/oosa/oosadoc/data/documents/2025/a/a8020_0.html)</p> <p>* Documents can be found at https://astro.unoosa.org/astro/instruments-treaties-search.html and at https://www.unoosa.org/res/oosadoc/data/documents/2025/stspace/stspace61rev_3_0.html/st_space_61rev03E.pdf</p>
備考 Notes	
電子メールアドレス Email address	To be announced