

Space Sustainability Course- how to design more sustainable missions?
March Monday 16th to Thursday the 19th 2026

The goal of the course is to give the students a sense of what space sustainability means, how to design and operate missions, and how to manage space business with a sustainability perspective. The experts will tackle the history of space sustainability and geopolitical challenges. Students will be introduced to Space law and regulations. Different tools and methods will be presented and then used in group works. On the last day, the concept of Environmental Social Governance (ESG) and Corporate Social Responsibility (CSR) will be presented. Throughout the 4-days the concepts covered are accompanied by group work, in which the students will develop a concept for a space mission, evaluating the technical, economical, governance and geopolitical aspects of sustainability in space.

The target audience is composed of professionals with a few years of working experience with an interdisciplinary background, should it be engineers, managers or policy practitioners. The group work will also allow a learning-by the peers dimension to the students and identify the challenges from other disciplines.

After completing the course, the participants will have a better understanding of the challenges of space sustainability, a concrete set of tools and methods on how to better measure, analyse and act towards more sustainable space missions. The four-day course also allows in-depth exchanges with experts.

Day 1- Introduction history and geopolitics- Monday 16th March

13:00-14:00	Introduction to the course What are the metrics or space sustainability?	Emmanuelle David
14:00-15:30	Introduction on Space Sustainability: History, Geopolitics and Space Law	Dr. Benjamin Guyot, Space Talk
15:30- 16:00	Coffee Break	
16:00-17:00	Introduction on Space Sustainability: History / Geopolitics – Group Work	Dr Benjamin Guyot, Space Talk / Natalia Archinard, DFAE
17:00- 18:00	Practitioner’s Testimony: Swiss Space Diplomacy at the UN	Natalia Archinard, DFAE, Federal Department of Foreign Affairs (TBC)

Day 2- technical side- Overview- The metrics of sustainability and Space Sustainability Enablers - Tuesday 17th March

09:00-09:45	What are the metrics of space sustainability? <i>The course will describe which are today the metrics to measure sustainability in the economic, societal and environmental perspective</i>	Emmanuelle David
09:45-10:30	What are the technical enablers for Space sustainability (Part 1) <ul style="list-style-type: none"> - Space Logistics - SSA - ... 	Dr Hellmich / Emmanuelle David, EPFL Space Center,
10:30-10:45	Break	
10:45-12:00	What are the technical enablers for Space sustainability (Part 2) <ul style="list-style-type: none"> - Space Logistics - SSA 	Dr Hellmich / Emmanuelle David, EPFL Space Center,
12:00-13:00	Lunch	
13:00-14:30	Introduction to the Space Sustainability Rating <i>The expert will introduce the Space Sustainability rating and go in depth in the input required and how it can support the development of more sustainable missions?</i>	Emmanuelle David, Space Sustainability Rating Association
14:30-15:30	Introduction to the Space Sustainability Rating- Group work	
15:30-16:00	Break	
16:00-17:00	A vision on space sustainability from above and through time	Prof Claude Nicollier

Day 3- Tools and methodologies for more sustainable missions, Wednesday 18th March

09:00-10:00	Introduction to Life Cycle Assessment in an eco-design perspective <i>The course will present LCA approach, tools developed at EPFL and how they can be applied in an eco-design perspective during mission development</i>	Mathieu Udriot / Marnix Verkammen, EcoDeltaV
10:00-10:30	Break coffee	
10:30-12:00	Introduction to Life Cycle Assessment in an eco-design perspective- Group work	Mathieu Udriot / Marnix Verkammen, EcoDeltaV
12:00-13:30	Lunch	
13:30-15:00	ESA's Tools - MASTER + DRAMA suite <i>During the session, the expert will introduce activities at ESA and the tools MASTER and Drama that are used for developing more sustainable missions</i>	Vitali Braun, IMS consulting
15:00-16:00	ESA's Tools - MASTER + DRAMA suite- Group work	Vitali Braun, IMS Consulting
16:00-16:30	Coffee Break	
16:30- 17:30	Practitioners' presentation- ClearSpace	Romains Buch, ClearSpace

Day four- ESG/CSR and economics of Space Sustainability, Thursday 19th March

08:00-09:30	ESG/CSR and economics of space sustainability	Sabrina Alam, KPMG Luxembourg
09:30-09:45	Break	
09:45-11:00	ESG/CSR and economics of space sustainability- Group Work	Sabrina Alam, KPMG Luxembourg
11:00-12:00	Conclusion and goodbye	Emmanuelle David