

## THE ISU FACULTY

The ISU Faculty is specialized in integrating the technical aspects of space into clear, interdisciplinary programs for students with a range of professional and educational backgrounds. There will also be additional guest lecturers of interest to the class.



## ISU FACILITIES

ISU is the proud owner of a number of education tools, including amongst others radio telescopes, a ground station and concurrent design facility. Those tools broaden the hands-on training possibilities for the participants of ISU's programs.



## WANT TO STUDY FURTHER

ISU also offers a space studies and a master program. Further information on ISU programs available at : [www.isunet.edu](http://www.isunet.edu)

*"A unique course, which not only gives a detailed insight into many space-related topics, but also allows an opportunity to meet interesting professional people. I would definitely recommend the ESC to anyone who is interested in this industry."*



**OLESYA SKIRTACH,**  
Legal Counsel at SES Satellite Leasing Limited, ESC 16



## REGISTRATION

Class size is strictly limited. Register early to reserve your place on the Executive Space Course. Registration will be complete through the payment of a EUR 500 deposit before 8 March 2019. The payment of the remaining fees is due no later than 22 March 2019. Registration is done online: [www.isunet.edu/ESC](http://www.isunet.edu/ESC)

## LOCATION

ISU Central Campus near the beautiful city of Strasbourg in Alsace, France.



## DATES

08-12 April 2019  
5 days

## FEE

EUR 3,750 which includes the course fee, all course materials, lunches, a reception and two evening events. A cancellation policy applies, further details under [www.isunet.edu](http://www.isunet.edu).

## ACCOMMODATION

A block of rooms at a special ISU rate is reserved at the 7 Hotel & Fitness Illkirch located adjacent to the ISU Campus. Please reserve directly with the hotel indicating that you are attending the ISU course at: [contact@7hotel.fr](mailto:contact@7hotel.fr)



### International Space University

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**EXECUTIVE  
SPACE  
COURSE**  
08-12 APRIL 2019



## EXECUTIVE SPACE COURSE

The International Space University (ISU), the world's leading university dedicated to the interdisciplinary study of space, is once again offering its acclaimed one-week Executive Space Course.

The Executive Space Course looks at current space and space-related activities and explains the technology, science, business case, regulatory environment and policies upon which each phase of a space program or mission is based.

### OBJECTIVES

The course, taught in English, aims to:

- ▶ Provide a neutral and global overview of space and space related subjects
- ▶ Explain core engineering and technical concepts in a simple manner
- ▶ Deliver a greater understanding of the challenges and opportunities of the space sector
- ▶ Give an insight into the traditional space markets (telecom, navigation, earth observation...) as well as new space economy.



### WHAT WILL I GAIN?

Participants will leave the course with knowledge and skills enabling them to understand and communicate more effectively with their colleagues in other disciplines. They will develop their comprehension and expertise of space-related activities and terminology.

### METHODOLOGY

This intense course exposes participants to the interdisciplinary, international and intercultural learning environment of the International Space University.

The course is conducted through lectures and experiential learning with workshops and case studies. A challenging project encapsulating all major aspects learned during the week and applying concurrent engineering to a modern telecommunications satellite ends the week.

## ISU ESC18 PROGRAM

	Monday 08 April	Tuesday 09 April	Wednesday 10 April	Thursday 11 April	Friday 12 April
9:00 to 10:00	Welcome and Overview of the Executive Space Course	Leaving the Planet: Propulsion and Space Transportation	Space Navigation & Applications	Space Telecommunications & Applications	New Space Overview
10:15 to 11:15	Why Space?	Space Markets & Future Trends	Tech Transfer & Export Control	Space Telecommunication and Navigation Law	Legal Implications of New Space
11:30 to 12:30	Organisation of the Space Sector and Outlook	Space Systems Design	Space - General Legal Framework	The Telecommunications Market	11:30 - 12:00 Closing Ceremony
12:30 to 14:00	Lunch	Lunch	Lunch	Lunch	Lunch (optional)
14:00 to 15:00	The Space Environment	Remote Sensing & Applications	Risk Management & Case Study	Introduction to the ISU Concurrent Design Facility	
15:15 to 16:15	International Cooperation in Space	Microgravity Applications / EYAS Sat Workshop	Space Mission Design	Concurrent Design Workshop	
16:30 to 17:30	Orbits	Microgravity Applications / EYAS Sat Workshop	Intellectual Property	Concurrent Design Workshop (continued)	
17:30 to 18:30	Welcome Reception			Presentation of Workshop Results	
		Boat tour of Strasbourg: 18:00 - 19:15	Distinguished lecture: 18:30 - 19:30		
		Dinner: 20:00 - 22:30	Dinner: 19:30 - 22:30		

The above is a tentative schedule. Changes might apply for the next session.

*"The ESC is the only executive course on Earth for anyone interested in space related topics. An intense one-week boot camp to better understand the industry, mature ideas, and get inspired for the decades to come."*



**JEREMY HORNUNG,**  
Consultant at aXoma Consultants,  
ESC 16

*"Educational, fun and multidisciplinary, which challenged the 'usual' understanding from my discipline. A very good point!"*



**MARI EDHOLM,**  
Trainee / Advisor at the Norwegian Space Centre, ESC 16



### PARTICIPANT'S PROFILE

The course is intended mainly for non-technical professionals of diverse backgrounds and experience from around the world.

*"This week overexceeded my expectations: great lecturers, great organization, and a bunch of new friends!"*



**AURORE HUTZLER**  
Post-Doctoral Researcher at  
Naturhistorisches Museum Wien, ESC 16

### + BENEFITS FOR THE COMPANY

- ▶ Help staff get a clearer picture of how the global space sector is structured
- ▶ Stay a step ahead and keep abreast of the latest space developments
- ▶ Generate business opportunities via other participants
- ▶ Ensure smooth exchanges and communication on space issues within the company.

### + BENEFITS FOR THE PARTICIPANT

- ▶ Lecturers available for additional information
- ▶ Several networking opportunities
- ▶ Use of ISU's facilities
- ▶ ISU network of more than 4 400 alumni from over 100 countries.