The Space Studies Program 2023 - Online Edition (SSP23-Online), is a 4-week professional development course for postgraduate students and professionals of all disciplines.

SSP23-online participants will attend a series of 55 core lectures live, covering the principal space related fields, both non-technical and technical, and range from policy and law, business and management and humanities to life sciences, engineering, physical sciences and space applications.

Each of these lectures will be delivered by world renowned space experts and will be live streamed from the SSP onsite location in Brazil.

SSP-online participants will also be given access to the recordings of these lectures during the program for further viewing.

The Space Studies Program SSP23 Online Edition will take place from:

26 June to 20 July 2023

On Brazilian Standard Time zone (GMT-3)

The Core Lectures Series provide a firm foundation of critical background knowledge across seven key topics and introduce participants to the 3I’s mindset required for the modern aerospace era (International, Interdisciplinary, Intercultural).

This Interdisciplinary approach will arm the participants with a unique and invaluable perspective that will prepare them well for any STEM and non-STEM role in the space sector.

After 34 years of the Space Studies Program, there are over 5400 alumni positioned in senior roles across the private and public space sector who share this 3I’s perspective and access for the participants to this network is another added benefit of the program.

At the end of Core Seminar Series, participants should be able to:

- Demonstrate a critical understanding of various discipline relevant to space programs
- Explain the interdisciplinary aspects and relationships of various space-related activities
- Develop a basic framework of knowledge in preparation for subsequent individual and group work.

Deadline for applications: 31 May 2023

More information: admissions@isunet.edu or on www.isunet.edu
SSP23 CORE Lectures LIST

**Week 1**

CLS-1   Cultural Rationales for Space Activities  
CLS-2   National Implementation of Space Law  
CLS-3   Business Structures & Planning  
CLS-4   Cultural Rationales for Space Activities  
CLS-5   National Implementation of Space Law  
CLS-6   Management of Space Projects  
CLS-7   The Electromagnetic Spectrum  
CLS-8   Orbital Mechanics  
CLS-9   Legal Aspects of New Space  
CLS-10  The Space Environment  
CLS-11  Introduction to Space Applications  
CLS-12  Space and the Arts  
CLS-13  Microgravity  
CLS-14  Introduction to Remote Sensing

**Week 2**

CLS-15  The Sun  
CLS-16  Life Cycle of Stars  
CLS-17  Orbits & Applications  
CLS-18  Human Performance in Space  
CLS-19  Policy Rationales for Space Activities  
CLS-20  Satellite Telecommunications  
CLS-21  Space Propulsion & Launch Vehicles  
CLS-22  Human Adaptation & Countermeasures  
CLS-23  Economic Rationales & Costing of Space Programs  
CLS-24  Commercial Satellite Communications Industry  
CLS-25  Entrepreneurial Space  
CLS-26  Our Solar System and Exoplanets  
CLS-27  Space Based Positioning, Navigation & Timing  
CLS-28  Major Space Powers and Emerging Space Players  
CLS-29  Disruptive Technologies and Innovation  
CLS-30  Moon & Mars  
CLS-31  Spacecraft Configuration and Testing  
CLS-32  New Space

**Week 3**

CLS-33  Space Robotics  
CLS-34  Life Support Systems  
CLS-35  Spacecraft Subsystems 1: G&C, Thermal Control, TCC&DH  
CLS-36  Spacecraft Subsystems 2: Structures, Propulsion and Power  
CLS-37  Neuroscience in Space  
CLS-38  Technology Transfer & Export Controls  
CLS-39  Space Operations  
CLS-40  Space Futures  
CLS-41  Financial Issues & Techniques of Space Projects  
CLS-42  Commercial Space Launch Business  
CLS-43  The Heart in Space  
CLS-44  Current & Future Trends in Global Navigation Satellite Systems  
CLS-45  Space Psychology  
CLS-46  Current & Future Space Remote Sensing

**Week 4**

CLS-47  Space Systems Engineering  
CLS-48  Space Medicine  
CLS-49  Astrobiology  
CLS-50  Space Architecture  
CLS-51  Space Mission Design  
CLS-52  Space Education, Outreach & Communications  
CLS-53  Space for Earth’s Sustainability  
CLS-54  Sustainability of Outer Space Activities  
CLS-55  Cosmology: Origin & Fate of the Universe

ISU reserves the right to modify the list and content of SSP core lectures without prior notice as per the availability of its faculty members.

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