



# Training Programs Guide

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Space Academy  
Saudi Space Agency

**2026**

# 01 Introduction

The Space Academy, affiliated with the Saudi Space Agency, presents its Training Programs Catalog for the second half of 2026, aiming to develop national capabilities and equip professionals with the knowledge and skills needed to keep pace with the rapid growth of the Kingdom's space sector.

The catalog offers a diverse portfolio of specialized programs that combine academic knowledge with practical application across a wide range of disciplines, including space science, space engineering, Earth observation, remote sensing, and space policy.

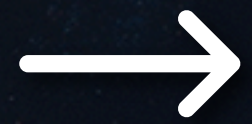
Designed to meet the evolving needs of the space sector, these programs serve professionals from the public and private sectors, recent graduates, university students, and individuals aspiring to build careers in the space industry, enabling them to contribute to the Kingdom's growing space ecosystem and compete on both the national and international levels.



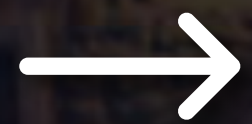
# Select a Training Track



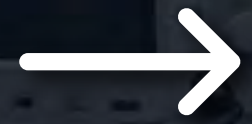
## General Space



## Space Science



## Space Engineering



## Space Applications





SSA Academy



Training Areas



Contact Us

# General Space

## Program Name

# Commercialization & Investment in Space Sector



## Program Brief

This program provides an understanding of investment in the space sector. Covering the structure of the space market, key growth drivers, value chains across space technology development, manufacturing, and operations, services and applications. It also explores the business models, commercialization, investment and the approaches to assessing investment risks within the space industry.

### Course Level

Introduction ■■■

Intermediate ■■■

Advanced ■■■



#### Track

General Space



#### Provider

Space Academy



#### Language

English



#### Target Audience

Investors, entrepreneurs, professionals, and individuals interested in commercial and investment opportunities in the space sector, senior university students and recent graduates in related disciplines.



#### Delivery Method

Online



#### Date & Time

26 - 27 July  
 9:30 a.m. to 1:00 p.m. (KSA Time)



#### Fees

Free



#### Duration

2 Days

[Register Now](#)

## Program Name

# Space Law



## Program Brief

This program provides an introduction of space law, including the evolution of legal frameworks governing space activities and an overview of the key international and legal instruments that shape the sector. The course also explores important regulatory concepts and frameworks relevant to the space industry, such as insurance, licensing, liability and commercial space activities.

### Course Level

Introduction ■■■

Intermediate ■■■

Advanced ■■■



#### Track

General Space



#### Language

English



#### Delivery Method

Online



#### Fees

Free



#### Duration

2 Days



#### Provider

Space Academy



#### Target Audience

Senior university students and recent graduates in related disciplines, professionals working in legal, regulatory, and commercial sectors related to the space industry.



#### Date & Time

19 - 20 July / 6-7 October  
 9:30 a.m. to 1:00 p.m. (KSA Time)

[Register Now](#)

## Program Name

# Space Economy



### Program Brief

This course introduces the fundamental of the space economy and space industry, financing and investment, emerging market trends, market creation, and the economic drivers shaping the sector. It also explores business models and commercialization strategies.

### Course Level

Introduction ■■■

Intermediate ■■■

Advanced ■■■



#### Track

General Space



#### Language

English



#### Delivery Method

Online



#### Fees

Free



#### Duration

2 Days



#### Provider

Space Academy



#### Target Audience

Senior university students and recent graduates in related disciplines, professionals working in economic, regulatory, and commercial sectors related to the space sector.



#### Date & Time

14-15 July / 11-12 October  
 9:30 a.m. to 1:00 p.m. (KSA Time)

[Register Now](#)

## Program Name

# Introduction to Space Sector



## Program Brief

This course provides an introduction to the space sector, covering the Saudi space ecosystem, the fundamentals of space science, key space technologies, and the principles of space law and governance.

### Course Level

Introduction ■■■

Intermediate ■■■

Advanced ■■■



#### Track

General Space



#### Language

Arabic



#### Delivery Method

Online



#### Fees

Free



#### Duration

2 Days



#### Provider

Space Academy



#### Target Audience

Senior university students, recent graduates, and professionals from any field



#### Date & Time

12-13 July / 18-19 August / 20-21 September  
 9:30 a.m. to 1:00 p.m. (KSA Time)

[Register Now](#)

## Program Name

# Space for Leaders



### Program Brief

This program provides participants with an understanding of the space sector and its role in supporting development, innovation, and national competitiveness. It also highlights key global trends and future opportunities in the sector, enabling leaders and decision-makers to better understand its strategic dimensions and explore sector's emerging growth.

### Course Level

Introduction ■■■

Intermediate ■■■

Advanced ■■■

**Track**  
General Space

**Provider**  
Space Academy

**Language**  
Arabic

### Target Audience

Leaders and decision-makers, project and program managers, innovation professionals, and individuals interested in the space sector

**Delivery Method**  
Online

**Fees**  
Free

### Date & Time

2-3 August  
9:30 a.m. to 1:00 p.m. (KSA Time)

**Duration**  
2 Days

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SSA Academy



Training Areas

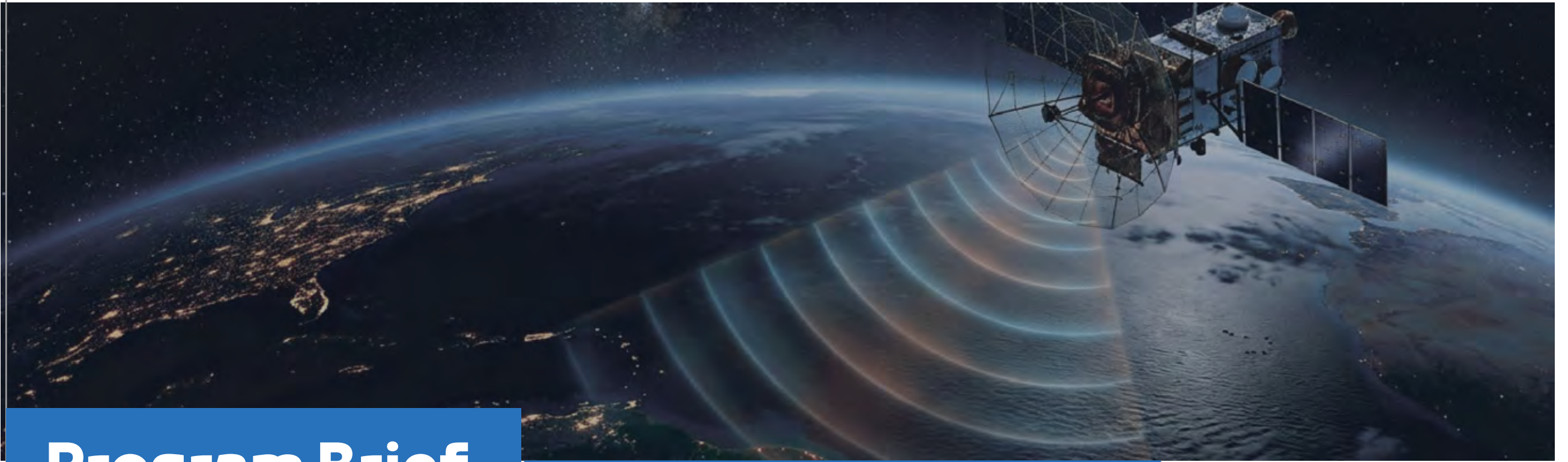


Contact Us

# Space Sciences

## Program Name

# Space Environment



## Program Brief

This course provides an introduction to the physics of the space environment and its impact on space missions. It explores key concepts in solar physics, the heliosphere, near-Earth space environment, space weather, and their effects on satellites, communications, navigation, and space missions, including space debris and its operational impact.

### Course Level

Introduction 

Intermediate 

Advanced 



#### Track

Space Science



#### Provider

Space Academy



#### Language

English



#### Target Audience

Senior university students, recent graduates, and professionals in STEM fields.



#### Delivery Method

Online



#### Date & Time

28–29 July  
9:30 a.m. to 1:00 p.m. (KSA Time)



#### Fees

Free



#### Duration

2 Days

[Register Now](#)

## Program Name

# Space Exploration and Applications



### Program Brief

This program covers human spaceflight, EVA suit systems, astronaut training, space avionics, on-board computing, and key subsystems for planetary surface mobility platforms.

### Course Level

Introduction ■■■

Intermediate ■■■

Advanced ■■■

**Track**  
Space Science

**Provider**  
Space Academy

**Language**  
English

### Target Audience

Senior university students, recent graduates, and professionals in STEM fields.

**Delivery Method**  
Online

### Date & Time

4-5 August  
9:30 a.m. to 1:00 p.m. (KSA Time)

**Fees**  
Free

**Duration**  
2 Days

[Register Now](#)

## Program Name

# Fundamentals of Space Science (Astrophysics & Astronomy)



## Program Brief

This program covers the space science and astronomy fundamentals, covering core principles, observational methods, instrumentation, scientific objectives, and exploration-driving technologies.

### Course Level

Introduction ■■■

Intermediate ■■■

Advanced ■■■



#### Track

Space Science



#### Language

English



#### Delivery Method

Online



#### Fees

Free



#### Duration

2 Days



#### Provider

Space Academy



#### Target Audience

Senior university students, recent graduates, and professionals in STEM fields.



#### Date & Time

21-22 July / 13-14 October  
 9:30 a.m. to 1:00 p.m. (KSA Time)

[Register Now](#)

## Program Name

# Space Environments, Weather & Telecommunication Systems



### Program Brief

This course covers natural and space weather hazards, solar phenomena (CME, solar flares, geomagnetic storms), magnetosphere characteristics, and their impact on telecommunication systems and satellite operations

### Course Level

Introduction 

Intermediate 

Advanced 



#### Track

Space Science



#### Language

English



#### Delivery Method

Online



#### Fees

Free



#### Duration

3 Days



#### Provider

Space Academy



#### Target Audience

Senior university students, recent graduates, and professionals in STEM, meteorology, communications, and satellite operations.



#### Date & Time

29 November - 1 December  
9:30 a.m. to 1:00 p.m. (KSA Time)

[Register Now](#)

## Program Name

# Space Medicine & Human Health in Spaceflight



## Program Brief

This course covers the physiological and medical challenges of human spaceflight, including microgravity effects on the cardiovascular, musculoskeletal, and neurological systems, radiation exposure, psychological health, and countermeasures for long-duration missions.

### Course Level

Introduction ■■■

Intermediate ■■■

Advanced ■■■

**Track**  
Space Science

**Provider**  
Space Academy

**Language**  
English

### Target Audience

Senior university students, recent graduates, and professionals in Medical & STEM fields.

**Delivery Method**  
Online

### Date & Time

13-15 December  
9:30 a.m. to 1:00 p.m. (KSA Time)

**Fees**  
Free

**Duration**  
3 Days

[Register Now](#)

## Program Name

# Fundamentals of Microgravity Research



## Program Brief

This program covers the fundamentals of microgravity research, introduces the scientific experiments and research related to the microgravity environment, contributing to the development of their research skills and the creation of initial research ideas in the field.

### Course Level

Introduction ■■■

Intermediate ■■■

Advanced ■■■



#### Track

Space Science



#### Provider

Space Academy



#### Language

Arabic  
(Writing research in English)



#### Target Audience

Students in the final 2 years of undergraduate studies and recent graduates majoring in science, engineering, and health fields, researchers and individuals seeking to develop their research skills in the field of microgravity.



#### Delivery Method

In-Class (Riyadh)



#### Date & Time

9 - 20 August  
2:00 p.m. to 6:00 p.m. (KSA Time)



#### Fees

Free



#### Duration

Two weeks  
(four days per week)

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SSA Academy



Training Areas

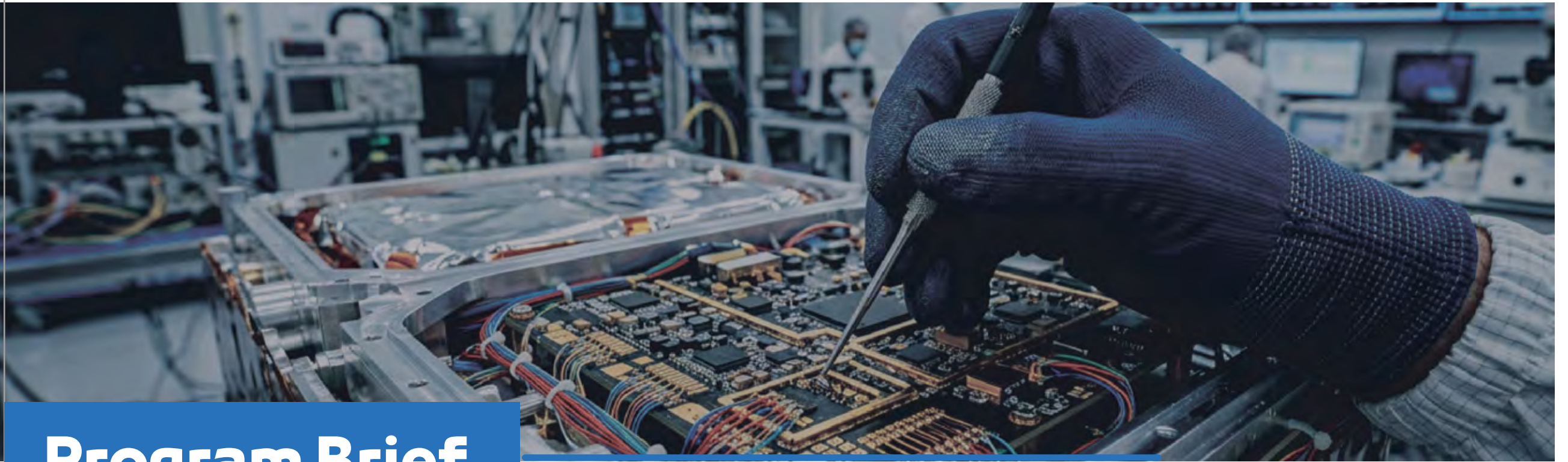


Contact Us

# Space Engineering

## Program Name

# Satellite Design, Engineering and Integration



### Program Brief

This program covers satellite missions, mission architecture, design and engineering principles, and assembly, integration, and testing (AIT) processes.

### Course Level

Introduction ■■■

Intermediate ■■■

Advanced ■■■

**Track**  
Space Engineering

**Provider**  
Space Academy

**Language**  
English

### Target Audience

Senior university students, recent graduates, and professionals in STEM fields.

**Delivery Method**  
Online

### Date & Time

9-10 August  
9:30 a.m. to 1:00 p.m. (KSA Time)

**Fees**  
Free

**Duration**  
2 Days

[Register Now](#)

## Program Name

# Space Situational Awareness (SSA): Engineering, Operations & Policy



### Program Brief

This course covers orbital mechanics, space object tracking, debris risk assessment, active debris removal, SSA sensors, conjunction analysis, collision avoidance, and space traffic management policy.

### Course Level

Introduction ■■■

Intermediate ■■■

Advanced ■■■

**Track**  
 Space Engineering

**Provider**  
 Space Academy

**Language**  
 English

### Target Audience

Senior university students, recent graduates, and professionals in STEM fields.

**Delivery Method**  
 Online

### Date & Time

16-17 August  
 9:30 a.m. to 1:00 p.m. (KSA Time)

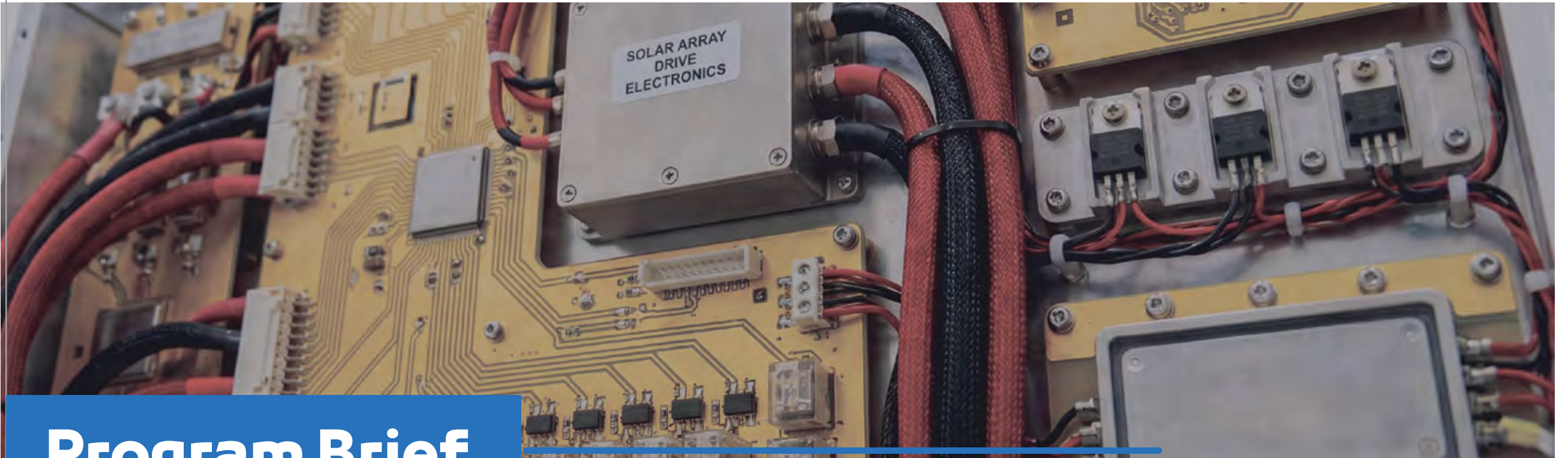
**Fees**  
 Free

**Duration**  
 2 Days

[Register Now](#)

## Program Name

# Electrical Engineering for Space



## Program Brief

This course provides an overview of electrical engineering for space, including foundational insights into space engineering and current trends. It covers onboard power systems, radiofrequency and communications, telemetry and control, and practical applications of electrical engineering in spacecraft and satellite systems.

### Course Level

Introduction ■■■

Intermediate ■■■

Advanced ■■■



#### Track

Space Engineering



#### Language

English



#### Delivery Method

In-Class (Riyadh)



#### Fees

Free



#### Duration

3 Days



#### Provider

Space Academy



#### Target Audience

Senior university students, recent graduates, and professionals in STEM fields.



#### Date & Time

6-8 September / 3-5 November  
 6:00 p.m. to 9:30 p.m. (KSA Time)

[Register Now](#)

## Program Name

# Space Mechanical Engineering and Materials



### Program Brief

This course provides an introduction in mechanical engineering for space, covering core product types, application fields, and spacecraft structure and design principles.

### Course Level

Introduction 

Intermediate 

Advanced 



#### Track

Space Engineering



#### Language

English



#### Delivery Method

In-Class (Riyadh)



#### Fees

Free



#### Duration

3 Days



#### Provider

Space Academy



#### Target Audience

Senior university students, recent graduates, and professionals in STEM fields.



#### Date & Time

8-10 September / 8-10 November  
6:00 p.m. to 9:30 p.m. (KSA Time)

[Register Now](#)

## Program Name

# Fundamentals of Spacecraft Design and Engineering



## Program Brief

This course covers spacecraft design and engineering fundamentals, detailed insights into spacecraft systems, and practical real-life applications.

### Course Level

Introduction ■■■

Intermediate ■■■

Advanced ■■■

**Track**  
Space Engineering

**Provider**  
Space Academy

**Language**  
English

### Target Audience

Senior university students, recent graduates, and professionals in STEM fields.

**Delivery Method**  
Online

### Date & Time

13-15 September / 10-12 November  
9:30 a.m. to 1:00 p.m. (KSA Time)

**Fees**  
Free

**Duration**  
3 Days

[Register Now](#)

## Program Name

# Introduction to Space Mission Design

## Program Brief

This course provides an introduction to space missions and its applications, covering the fundamental concepts of space missions, the architecture and functions of satellite systems and subsystems, methodologies for mission design and data processing.

### Course Level

Introduction ■■■

Intermediate ■■■


Advanced ■■■

 **Track**  
Space Engineering

 **Provider**  
Space Academy

 **Language**  
English


### Target Audience


 Senior university students, recent graduates, and professionals in STEM fields.

 **Delivery Method**  
In-Class (Riyadh)

 **Fees**  
Free

### Date & Time

 23-25 August / 27-29 September / 27-29 October  
6:00 p.m. to 9:30 p.m. (KSA Time)

 **Duration**  
3 Days

[Register Now](#)

## Program Name

# Introduction to Integrated System & Project Lifecycle



## Program Brief

This course introduces the integrated systems approach to space project management, covering the full project lifecycle from concept through design, development, testing, operations, and decommissioning.

### Course Level

Introduction ■■■

Intermediate ■■■

Advanced ■■■



#### Track

Space Engineering



#### Language

English



#### Delivery Method

Online



#### Fees

Free



#### Duration

3 Days



#### Provider

Space Academy



#### Target Audience

Senior university students, recent graduates, and professionals in STEM fields.



#### Date & Time

6-8 December

9:30 a.m. to 1:00 p.m. (KSA Time)

[Register Now](#)



SSA Academy



Training Areas



Contact Us

# Space Applications

## Program Name

# Radar Remote Sensing (SAR)



### Program Brief

This program covers the application of X, L and S-band radar data for the analysis and classification of different forest types, including the assessment of biomass, and condition on vegetation structure

### Course Level

Introduction 

Intermediate 

Advanced 



#### Track

Space Applications



#### Provider

ISRO - IIRS



#### Language

English



#### Target Audience

Senior university students, recent graduates, and professionals in Science engaged in the field of Forest Management, Conservation, Vegetation Ecology, Environmental Studies, Geospatial Technology and individuals working in Forest Carbon Market.



#### Delivery Method

Online



#### Date & Time

21-25 September

9:30 a.m. to 1:00 p.m. (KSA Time)



#### Fees

Free



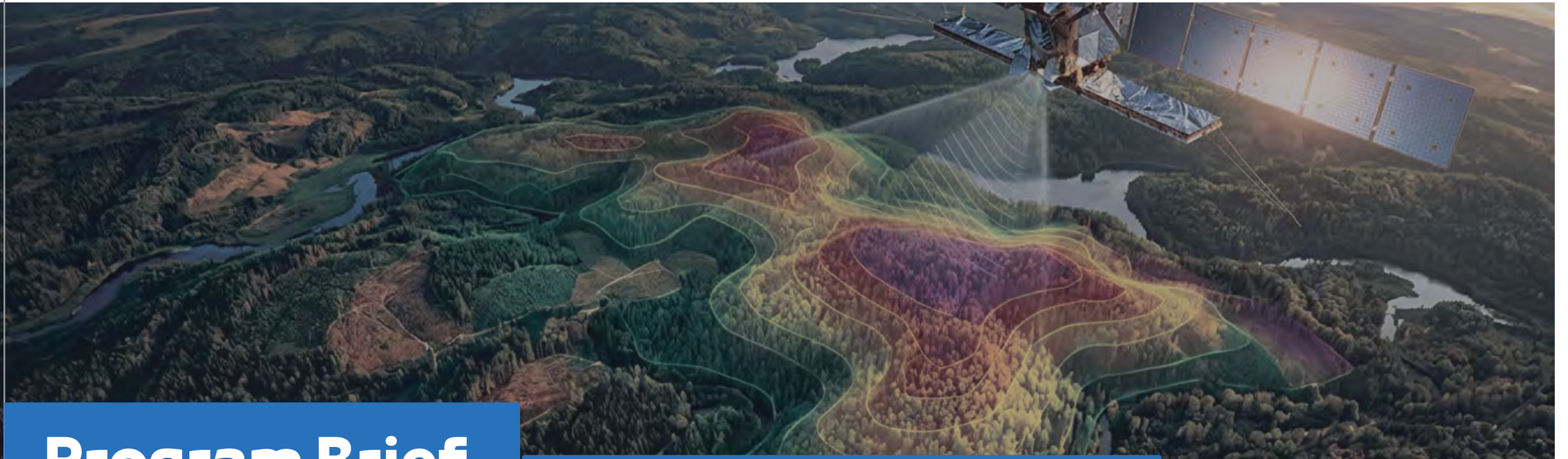
#### Duration

5 Days

[Register Now](#)

## Program Name

# Space Data and AI-Driven Analytics for Earth Observation



### Program Brief

This program covers space data sources and types, fundamentals of Earth observation data sets and systems, and AI/machine learning analytics techniques applied to Earth observation data.

### Course Level

Introduction ■■■

Intermediate ■■■

Advanced ■■■

**Track**  
Space Applications

**Provider**  
Space Academy

**Language**  
English

**Target Audience**  
Senior university students, recent graduates, and professionals in STEM fields.

**Delivery Method**  
Online

**Fees**  
Free

**Date & Time**  
11-12 August  
9:30 a.m. to 1:00 p.m. (KSA Time)

**Duration**  
2 Days

**Register Now**

## Program Name

# Cybersecurity for Space Systems



### Program Brief

This program covers cybersecurity fundamentals, the rationale for its importance in space systems, types of cyber-attacks, and mitigation approaches relevant to space infrastructure.

### Course Level

Introduction ■■■

Intermediate ■■■

Advanced ■■■



#### Track

Space Applications



#### Language

English



#### Delivery Method

Online



#### Fees

Free



#### Duration

2 Days



#### Provider

Space Academy



#### Target Audience

Senior university students, recent graduates, and professionals in STEM fields.



#### Date & Time

25-26 August / 18-19 October  
 9:30 a.m. to 1:00 p.m. (KSA Time)

[Register Now](#)

## Program Name

# Introduction to Space Data Science



### Program Brief

This program covers data science principles, recent AI developments, relevance to the space industry, and prepares learners for AI/ML, big data, and object-oriented programming applications.

### Course Level

Introduction ■■■

Intermediate ■■■

Advanced ■■■

**Track**  
Space Applications

**Provider**  
Space Academy

**Language**  
English

### Target Audience

Senior university students, recent graduates, and professionals in STEM fields.

**Delivery Method**  
Online

**Fees**  
Free

**Date & Time**  
30-31 August / 20-21 October  
9:30 a.m. to 1:00 p.m. (KSA Time)

**Duration**  
2 Days

**Register Now**

## Program Name

# Space Software Design & Development



### Program Brief

This program covers space software engineering essentials, flight software system architectures, core functionalities, and implementation procedures using a concrete use case.

### Course Level

Introduction ■■■

Intermediate ■■■

Advanced ■■■



#### Track

Space Applications



#### Language

English



#### Delivery Method

In-Class (Riyadh)



#### Fees

Free



#### Duration

2 Days



#### Provider

Space Academy



#### Target Audience

Senior university students, recent graduates, and professionals in STEM fields.



#### Date & Time

1-2 September / 25-26 October  
 6:00 p.m. to 9:30 p.m. (KSA Time)

[Register Now](#)

## Program Name

# GNSS (Global Navigation Satellite System)



### Program Brief

This is an Introductory course in engineering within the space industry, emphasizing key application fields such as satellite communication, GPS/GNSS signals, terrestrial applications in position and timing, debris detection considerations, and current trends.

### Course Level

Introduction

Intermediate

Advanced



#### Track

Space Applications



#### Language

English



#### Delivery Method

In-Class (Riyadh)



#### Fees

Free



#### Duration

3 Days



#### Provider

Space Academy



#### Target Audience

Senior university students, recent graduates, and professionals in STEM fields.



#### Date & Time

15-17 September / 15-17 November  
 6:00 p.m. to 9:30 p.m. (KSA Time)

[Register Now](#)

## Program Name

# Space Application: Telecommunication



## Program Brief

This program covers satellite and telecommunication space applications, key use cases, trends, planning systems, and ground station engineering considerations.

### Course Level

Introduction

Intermediate

Advanced

**Track**  
Space Applications

**Provider**  
Space Academy

**Language**  
English

### Target Audience

Senior university students, recent graduates, and professionals in STEM fields.

**Delivery Method**  
In-Class (Riyadh)

**Fees**  
Free

**Date & Time**  
29 Sep - 1 October / 17-19 November  
6:00 p.m. to 9:30 p.m. (KSA Time)

**Duration**  
3 Days

[Register Now](#)

## Program Name

# Space Application: Earth Observation



## Program Brief

This program covers Earth observation technologies, use cases, future opportunities, and different analysis types for satellite-based monitoring applications.

### Course Level

Introduction ■■■

Intermediate ■■■

Advanced ■■■



#### Track

Space Applications



#### Language

English



#### Delivery Method

In-Class (Riyadh)



#### Fees

Free



#### Duration

3 Days



#### Provider

Space Academy



#### Target Audience

Senior university students, recent graduates, and professionals in STEM fields



#### Date & Time

4-6 October / 22-24 November  
 6:00 p.m. to 9:30 p.m. (KSA Time)

[Register Now](#)

## Program Name

# Imagery Services, Artificial Vision and Data Expertise



### Program Brief

This program covers computer vision techniques applied to satellite imagery as a key AI application in space technology, including image processing, object detection, and geospatial data analysis.

### Course Level

Introduction ■■■

Intermediate ■■■

Advanced ■■■

**Track**  
Space Applications

**Provider**  
Space Academy

**Language**  
English

**Target Audience**  
Senior university students, recent graduates, and professionals working in the fields of data science, artificial intelligence, remote sensing, geographic information systems (GIS), and related sciences and engineering, who are interested in satellite imagery applications and geospatial data analysis.

**Delivery Method**  
Online

**Fees**  
Free

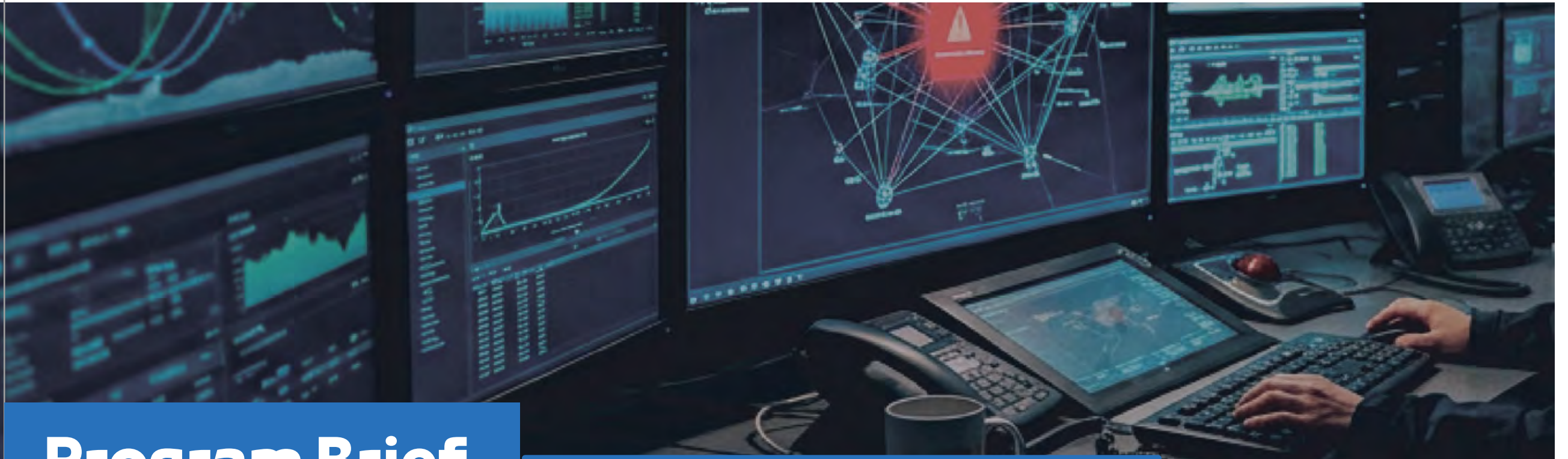
**Date & Time**  
1-3 December  
9:30 a.m. to 1:00 p.m. (KSA Time)

**Duration**  
3 Days

[Register Now](#)

## Program Name

# Artificial Intelligence & Machine Learning for Space Applications



## Program Brief

This program covers AI and machine learning techniques applied to space missions, including autonomous navigation, onboard data processing, satellite image classification, anomaly detection in spacecraft systems, and AI-driven mission operations.

### Course Level

Introduction 

Intermediate 

Advanced 



#### Track

Space Applications



#### Language

English



#### Delivery Method

Online



#### Fees

Free



#### Duration

3 Days



#### Provider

Space Academy



#### Target Audience

Senior university students, recent graduates, and professionals in STEM fields and AI and Computer Sciences



#### Date & Time

20-22 December  
9:30 a.m. to 1:00 p.m. (KSA Time)

[Register Now](#)



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