Master Program in Space Institutions and Policies
ASI-SIOI-CNR
Edition 2013

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COPUOS
Master Program in Space Institutions and Policies

in collaboration with
The Master Program in Space Institutions and Policies, at its 5th edition, aims at the training of specialists, with legal, economic, political and industrial expertises, able to operate at a national, european and international level.
The course is aimed to shape multi-skilled professionals able to:

✓ meet the demands of the space sector, whether in government, industry or academy;
✓ work effectively in an international and multidisciplinary environment.
The current 5th edition of the Program gathers a challenging group of participants:

- Different age
- Several nations
- Multi-cultures and languages
- Various educational and/or professional backgrounds
Space requires comprehensive multi-disciplinary competences in order to provide solutions to the main space issues at global level.

A number of topics is covered by different backgrounds of the teachers and delivered lectures.
Space Teaching Format consists of five modules:

- **Space Law**
- **Policies and International Relations**
- **Industrial**
- **Socio-economic**
- **Technical and Scientific**

**Keyword**

INTER-DISCIPLINARITY
Innovative Approach

Institutions
Space Agencies
R &D Entities
University
Space Companies
Industrial Space Associations

INTER-DISCIPLINARITY

DIFFERENT ACTORS
Representatives from different national space agencies, countries and regional entities present their space governance, programs and activities, cooperating with the master program.
**Law Module**

**1967 OST**
Outer Space Treaty

**1968 ARRA**
Rescue Agreement

**1972 LIAB**
Liability Agreement

**1975 REG**
Registration Convention

**1979 MOON**
Moon Convention

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**Customary Law**

**State Practice**

**UNGA Resolutions**

**International law**

**European Affaires and Treaties**

**Lisbon Treaty**

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**Mission**

**Goals**

**Participant Profile**

**Capacity Building**

**Master Program**

**Innovative Approach**

**International Educational Approach**

**Team Project**

**Skills Acquired**

**External Activities**

**Modules**
Policies and International Relations Module

- International regional intergovernmental organizations
- European Space Policy
- National Space Agencies
- Bilateral and multilateral relations
- National Space Policies

INT. RELATIONS
COOPERATION
COORDINATION
NEGOTIATION
GOVERNANCE
Industrial Module

Space Programme Management

- Technical Management
- Cost Management and Financial Aspects
- Risk Management and Marketing
- Technological Research
- Institutional relations
- Industrial Associations

SPACE VALUE CHAIN

- User ground equipment and terminals
- Satellite manufacturing
- Launch services
- Lease or sale of satellite capacity
- Value Added services
- Consumers

MANUFACTURER → LAUNCH OPERATORS → OPERATORS → SERVICE PROVIDERS → CONSUMERS

INSTITUTIONS → SCIENTIFIC COMMUNITY → INDUSTRY
Technical & Scientific Module

Orbits and Mission Analysis

Satellites and orbital platforms

Launchers

ISS & Space Exploration

Earth Observation

Satellite Navigation

Scientific Missions

Satellite Telecommunication

Integrated Space Applications
"Space Activities in a Changing World"

- **Space Law**: Space law relating to the safety and security in outer space.
- **Policies and International Relations**: The answer from space through the analysis of the main space systems.
- **Industrial**: Asteroids: response to threats, commercial exploitation and technological issues.
- **Socio-economic**: Fund raising methods for Space Activities in a changing world.
Skills acquired

- Deep knowledge of the outer space legal framework
- Analysis of national space policies and international cooperation projects
- Study of the global socio-economic landscape related to the space
- Theoretical and practical training on the industrial dynamics of space projects

**Holistic and open-minded professionals able to manage the space sector’s complexity**
External Activities

PROFESSIONAL VISITS

ASI - Rome
ESA/ESRIN – Frascati (Rome)
Thales Alenia Space - Rome
Selex ES - Campi Bisenzio (Florence)
Altec - Turin
CGS - Milan
Telespazio - Valle del Fucino
Avio - Colleferro (Rome)
Thank you for your attention