

# OVERVIEW TOURS



**SPACETOURS Noordwijk**  
Discover the world of ESA ESTEC

	<b>BASIC TOUR</b>	<b>STANDARD TOUR</b>	<b>CUSTOM TOUR</b>
For	Groups with little time, that don't need a lot of technical detail or want a budget option.	A longer programme with more technical detail, more topics and one extra location.	Groups that want to customise the presentation and tour experience, food & beverage as extra options.
Duration	ca. 1,5 hrs	2 - 2,5 hrs	2,5 - 3,5 hrs
Presentation topics	1 ESA Overview	1 ESA Overview 2 360 Virtual Tour Test Centre	Customised presentation with high lights from topics 1-7 to match your interest (see below).
Topics-locations	- <i>Erasmus</i> : research in micro gravity, human space flight, robotics for Moon and Mars 3D Virtual Reality tour of ISS	- <i>Erasmus</i> : research in micro gravity, human space flight, robotics for Moon and Mars 3D Virtual Reality tour of ISS - <i>Lab corridor</i> : 3D printing for space, IXV-ESA's space plane	- <i>Erasmus</i> : research in micro gravity, human space flight, robotics for Moon and Mars 3D Virtual Reality tour of ISS - <i>Lab corridor</i> : 3D printing for space, IXV-ESA's space plane Choice of extra facility depends on availability and your interest: - <i>Satellite Design Facility</i> (opt) - <i>Laboratories</i> - various (opt) - <i>Satellite Test Centre</i> (opt)
Optional service	None	- Coffee-tea service (extra) - Soft drinks (extra) - Bread roll lunch, juice (extra) - Drinks, nuts, snacks (extra)	- Coffee-tea service (extra) - Soft drinks (extra) - Bread roll lunch, juice (extra) - Drinks, nuts, snacks (extra)
Pricing	€ 30 p.p., min. 20 p.	€ 40 p.p., min. 20 p. Catering options at extra cost	€ 50 p.p., min. 20 p. Catering options at extra cost

## PRESENTATION TOPICS



### 1 ESA Overview

- History ESA
- Activities
- Earth Observ.
- Telecom
- Navigation
- Launchers, etc.

### 2 360 Virt. Tour Test Centre

A panoramic tour on screen to see all facilities for satellite testing: vacuum, shakers, thermal extremes

### 3 Concurrent Design Facility

- How CE works
- Team based
- Mission design
- Risk, Cost
- Feasibility
- Benefits ESA

### 4 3D printing for space

- 3D processes
- Applications
- New designs
- Lunar base
- Print in space
- Bio printing

### 5 Robotics for Moon - Mars

- Robotic arms
- Telerobotics
- Sup. autonomy
- Sample return
- ExoMars rover
- Lunar Gateway

### 6 IXV - ESA's space plane

- Mission
- Plane design
- Experiments
- Reentry tech.
- Test campaign
- Pre-post flight

### 7 Spin-offs from Space to Earth

- Econ. aspects
- ESA IP policy
- Return on Inv.
- Bus. develop.
- R&D support
- Many cases

**BASIC** ✓  
**STANDARD** ✓  
**CUSTOM** ✓

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