

## Official Transcript of Records

### ESA Academy Training Session:

*ESA/ELGRA Gravity-Related Research Summer School 2019*

### Student personal data:

Complete name: **Francesca Covella**  
 Date of birth: **Italy**  
 Country of Citizenship: **1999-01-28**

### Course data:

Location: **Training and Learning Facility, ESEC-Galaxia, Belgium**  
 Date: **24 - 28 June 2019**  
 Total duration: **35 h**

Lecture	Duration
Welcome and Introduction	30 min
ESA Programmes and Opportunities	30 min
Introduction to ELGRA and SELGRA	30 min
Introduction to Gravity-Related Research	1 h 30 min
ESA Education Office and Hands-On Programmes + Visit e-Technology lab	1 h
Introduction to Gravity-Related Research in Human Physiology - Artificial Gravity as a New Space Countermeasure	1 h 15 min
Develop a Gravity-Related Experiment	1 h
Introduction to Gravity-Related Research in Life Science - Gravity Machines and Animal Models	1 h 15 min
Journey to Mars	1 h
Importance of Plant Biology Research in Altered Gravity Simulation and Radiation	1 h
SYT2018 Avalanche Team	30 min
SYT-HE2018 Spin Doctors Team	30 min
FYT2018 G-Reach Team	30 min
DYT2018 STAR Team	30 min
Introduction to Gravity-Related Research in Physical Science - Complex Fluids in Microgravity	1 h 15 min
Project Management	1 h 15 min
Preparations of Organic Solar Cell Active Layers Under Microgravity Conditions	1 h
What is the Link Between Brain, Gravity and Fractals?	1 h
Mechanobiology - Mechanical Unloading by Microgravity	1 h
Multiphase Thermal Management Research in Microgravity	1 h
Life Cycle of an ISS Experiment	1 h
Visit ESEC-Redu	1 h 15 min
Team Project	14 h 15 min
Conclusions	30 min

# **Evaluation result:**

Grading system:

Grade:

**B**

Grade	Definition	Grade	Definition
A	Outstanding performance with only minor errors	D	Fair but with significant shortcomings
B	Above the average standard but with some errors	E	Performance meets the minimum criteria
C	Generally sound work with a number of notable errors	F	Fail – performance did not meet the minimum criteria

Transinne, 4 July 2019



Hugo Marée  
Head of Education Office  
European Space Agency