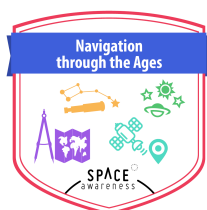


## CERTIFICATE OF COMPLETION

### Navigation through the Ages

27th February 2017 - 12th April 2017



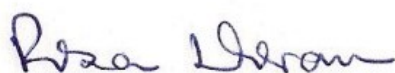
### European Schoolnet Academy

This is to certify that

**Giger Matthias**

has successfully completed Navigation Through the Ages course on the European Schoolnet Academy

Brussels, 13.04.2017



Rosa Doran  
Course Coordinator  
Núcleo Interactivo de Astronomía



Marc Durando  
Executive Director  
European Schoolnet

#### Course details

Dates: 27th February 2017 - 12th April 2017

Duration: 12 Hours

Description: <http://www.europeanschoolnetacademy.eu/web/navigation-through-the-ages>

Organiser: Núcleo Interactivo de Astronomía, EUN Partnership aisbl (known as European Schoolnet)



## Course contents



### Module 1: Introduction to Navigation through the Ages

The learning objectives of Module 1 are:

1. Understand how navigation builds on contributions of various cultures, and how it can be used as a vehicle to broaden children's minds and develop a sense of European and global citizenship.
2. Understand the importance of measuring space and time through the ages.
3. Discover a brief history of navigation: tracking solar and lunar patterns in the sky. Constellations.
4. Learn how to use ICT-based approaches in the navigation topic.



### Module 2: The history of navigation

The learning objectives of Module 2 are:

1. Deepen knowledge on the history of navigation, in the context of a multidisciplinary approach.
2. Gain specific knowledge on: movement of the Sun, stars and planets, constellations. How to find the latitude of a place. Longitude. Coordinate Systems.
3. To know some historical techniques and instruments used to determine position.
4. Understand how IBSE and ICT tools can be applied in the context of history of navigation.



### Module 3: Navigation tools and terms

The learning objectives of Module 3 are:

1. Deepen knowledge on basic concepts in navigation, in the context of a multidisciplinary approach.
2. Understand how and where the tools and terms used in navigation fit in the various curricula and subjects.
3. Gain specific knowledge on instruments and techniques to determine position.
4. Understand how IBSE and ICT tools can be applied in the context of navigation tools and terms.



### Module 4: The European Global Navigation Satellite System

The learning objectives of Module 4 are:

1. Understand how the Galileo European Satellite System works.
2. Understand the current needs of citizens, such as increased mobility and how space is important in tackling them.
3. Learn about the multitude of careers existing at the intersection of space

## Course contents

and navigation.

4. Understand how they can use these concepts in their lessons and to inspire their students.