

Training report - 9-10th, November, 2021. Sf. Gheorghe, Romania.

The course aims to provide a clear, simple introduction to the world of astronomy, astrophysics and cosmology through theoretical summary and experimental materials that is easy to apply and use in geography, mathematics, chemistry, physics or even biology lessons.

During the participation in the training, the course-curriculum helped to develop competencies and skills that allow the teacher to:

- The correct introduction of some basic concepts of astronomy, astrophysics, through various science subjects;
- Teachers learned to describe the sun as a celestial body, to explain the formation of sunspots, how to justify the differential rotation of the Sun, the concepts and theories related to the formation and evolution of the Universe that can be used in physics or geography lessons;
- The transposition and correct use of physics concepts in geography or chemistry classes.
- A more effective orientation in the complex world of astrophysics and cosmology;
- Critically manage, analyse the content available on the Internet and select authentic sources related to the topic of astronomy and space research;

The final discussion and evaluation confirmed the need for such training, as most children are interested in astronomy and space research, but there are no such subjects in the school curriculum, and the various science subjects are related to the topic only through a few lessons. Students, on the other hand, want much more information and explanations about celestial phenomenon.

Teachers liked the many educational videos that showed how to easily illustrate certain stellar or astronomic phenomena, how to present and explain the proprieties of the sky when there is no telescope or no planetarium nearby.

Teachers positively assessed that they became familiar with many useful concepts, had a better understanding of certain solar phenomena, and heard useful explanations about the birth and evolution of the universe, electromagnetic waves that they will use in class.

Participants appreciated the good-natured presentations, the opportunity to ask questions, and get immediate answers. They really liked the topics related to the evolution of solar physics and the universe. They found it helpful to be get familiar with NASE, EAAE and ESO educational programs and competitions, as well as Stellarium software, at the end of the course.

Some teachers are most interested in direct astronomical observation, they are interested in using telescopes, they want to learn to orient themselves in the starry sky during direct, hands-on activities.

