



European School Innovation Academy

# Join us for this year's European School Innovation Academy's Summer Schools in Greece!

ESIA is endorsed by:



(<http://www.eps.org>)

Save the dates!

**Week 1: 28 June to 3 July 2020**

Stories of Tomorrow

<http://stories.ea.gr>

spaceEU

<http://space.ea.gr>

CASE

<http://www.project-case.eu/summer-school/>

GS04Schools

<http://gso4school.ea.gr/>

**Week 2: 5 - 10 July 2020**

Frontiers

<http://frontiers.ea.gr/>

Go-Lab

<http://golab.ea.gr>

Open Schools for Open Societies

<http://osos.ea.gr>

PLATON / Polar Star

<http://platon-course.ea.gr>

iMuScica

<http://imuscica.ea.gr>

Questions, comments, ideas?

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The European School Innovation Academy (ESIA) is proud to announce a new series of exciting Summer Schools for 2020. We are happy to present you with an even wider array of courses based on the latest educational trends, such as: **Open Schooling, STE(A)M, School Innovation, Digital Storytelling, Creativity in Education, 21st Century Skills, The Big Ideas of Science, Space Education, Deeper Learning, Online Labs, Inquire Based Science Education, and much more!**

All courses are supported by experts from all over Europe that will help and support you in creating more exciting learning settings and resources. Come join us in Marathon, Greece in July 2020 for a unique opportunity to interact and work closely with educational experts and scientists to develop new learning activities for your schools and students.

**Are you a teacher or headmaster in primary and secondary education and interested to:**

- Bring Innovation to your School?
- Modernize science education in your school?
- Design an exciting Space Mission to Mars?
- Experience how to use the arts to teach science subjects, like high-energy physics?
- Learn about the Big Ideas of Science?
- Establish an open, curious, welcoming, democratic school environment which will support the development of innovative and creative projects?
- Understand how to include online and remote labs in your science classroom?
- Integrate "storytelling" in your science teaching?
- Find engaging ways on how to combine STEM with Arts?
- Take initiative to implement innovative practices in your school?
- Introduce Inquire Based Science Education (IBSE) to make science lessons more exciting for your students?
- Establish a school environment which fosters learner independence and interdependence?
- Facilitate the process for envisioning, managing and monitoring change in your school?
- Learn how to inspire, engage and connect with the local society around your school?
- Become part of a world-wide network of innovative science teachers?

**Register today! Places are limited!**

**The importance of professional development**

Our societies and economies depend on the activities of teachers. No matter if it is school, college or university, a qualified teacher is the builder of a student. Even a teacher in special skills or technical courses is keeping role responsibilities for the society. The leaders of tomorrow are created by a teacher today. At the same time, if a teacher fails to discover the power and skills of a student, the student is likely to never achieve its full potential. Teachers must become the coaches of learning and exchange the "instructor" role for that. ESIA supports this process by offering opportunities for new forms of teaching, and outlines strategies for how teachers' roles and conditions can support and enable deeper learning for students.

**The ESIA Summer Schools 2020 – an overview**

28 June to 3 July 2020 & 5-10 July 2020 – Marathon, Greece

ESIA training activities are specifically designed for teaching professionals in all disciplines. The common objectives of ESIA trainings are to introduce teachers to innovative ways for conduct their learning settings and classrooms. Participants will meet interesting proposals mixing inquiry-based learning, resource-based and project-based teaching methodologies, and many more. Furthermore, teachers and education professionals will be trained in linking those approaches with the numerous collections of open digital educational resources, engage in real research experiences and contact experts in diverse science and art fields.



**ESIA SUMMER SCHOOLS 2020**

# The ESIA Summer Schools 2020 - An Overview

ESIA Summer Schools 2020 - Week 1

28 June - 3 July 2020



## Storytelling to facilitate students' deeper learning in STEM

Join us in an exciting and innovative summer school about Storytelling in the science classroom! Understand the enormous potential of storytelling to support the development of students' inquiry skills and help them gain initial scientific experience while at the same time enable to them to use the potential of the imagination and creativity. <http://stories.ea.gr/>

**Keywords:** Secondary school teachers, digital storytelling, ICT and science, deeper learning



## Creativity, Arts and Science in Primary Education

CASE introduces case studies for creative science inquiry, e.g. Learning Science Through Theater, Puppetry and Learning through Art and Narratives for primary schools. The participants will learn how to implement these approaches in the primary school setting. After the completion of the Summer School the participants will be able to collaborate with schools and implement them. <http://www.project-case.eu/summer-school/>

**Keywords:** Primary school teachers, theater, arts, science education



## Space exploration in education

Space science and technology are powerful mediums for demonstrating the excitement of a scientific or technical career, particularly when coupled with suitable role models. The SpaceEU summer school will focus on giving teachers ideas and guidelines on identifying opportunities and entry points of space related themes in their science curriculum. Participants will engage in hands-on workshops that blend together the idea of interdisciplinary learning and the 'science as a whole' approach with inquiry learning. Find out more about the summer school here: <http://space.ea.gr/>

**Keywords:** Space, Science Education, Inquiry, Big Ideas of Science, Science Careers



## GSO4School Summer School 2020

Do you believe that Art is the missing component for STEM? GSO4SCHOOL proposes an innovative method to motivate school students and teachers to participate in interdisciplinary science-and-arts initiatives and to develop and establish a network that will work together, exchange practices and maintain the Global Science Opera activities in the Future. <http://gso4school.ea.gr/>

**Keywords:** Digital literacy, Music, ICT, Inquiry teaching, STEAM

ESIA Summer Schools 2020 - Week 2

5 - 10 July 2020



## Bringing Nobel Prize Science to Your Classroom

Do you want exciting groundbreaking discoveries such as the Discovery of Gravitational Waves or the Discovery of the Higgs Boson be taught in your classroom? Can you imagine your students performing virtual visits to CERN or VIRGO, analyzing real experimental data and interacting with world leading scientists in the field of Physics? Then the FRONTIERS, European initiative is helping you to bring Nobel Prize Physics to the classroom! <http://frontiers.ea.gr/>

**Keywords:** Research Centers, Science Education; Frontier Physics; Nobel Prize, IBSE



## Open Schools for Open Societies

Get familiar with the OSOS Open Schooling Model which puts emphasis on creating viable change to school settings that lasts and expands. Learn about the OSOS Open Schooling approach and prepare your school to participate in a strong school network which is ready to share their experiences with others. Through the OSOS Summer School Course, you will be given the knowledge and skills to assess existing learning methods and material in your school, abandon those which fail or are too costly, learn lessons, and disseminate and reproduce the successful ones on a larger scale. <http://osos.ea.gr>

**Keywords:** School heads, communities of practice, change agents, schools as innovative ecosystems, RRI principles, Open Schooling



## Using Online Science Laboratories for Inquiry Learning

The Go-Lab course will introduce teachers to the use of online virtual experiments and remote laboratories as well as to the concept of inquiry-based science teaching in order to help them develop, improve and enhance their teaching skills and practices. In the school teachers will learn how to develop and use Inquiry Learning Spaces that include online labs and applications that guide the students through their experiments. <http://golab.ea.gr/>

**Keywords:** Science teachers, online / remote labs, Inquiry Based Science Education, ICT



## PLATON - Polar Star

The PLATON Summer School 2020 is the 4th PLATON school organized. On top of deploying the PLATON methodology, this year our summer school draws inspiration from high quality activities on Arctic research and Astronomy that cover both primary and secondary education. Its main objective is to introduce to teachers a seamless STEAM teaching approach along with all its separate components and a set of activities related to contemporary science achievements. <http://platon-course.ea.gr>

**Keywords:** Inquiry Based Science Education, interdisciplinarity, Big Ideas of Science, 21st Century Skills



## Teaching Science and Mathematics Through Musical Instrument Modelling

iMuSciCA is offering an interdisciplinary experience that encourages STEAM pedagogy through ICT. It offers a solution based on an innovative educational approach that addresses secondary school students. The solution intends to support mastery of core academic content on STEM subjects (Physics, Geometry, Mathematics, and Technology/Engineering), and to develop students' creativity and deeper learning skills through their engagement in music activities. <http://imuscica.ea.gr/>

**Keywords:** Music, ICT, Inquiry teaching, STEAM

Participation for all courses can be funded by Erasmus+ (KA1).