Scientix, the community for science education in Europe

Scientix Moodle courses

Scientix has received funding from the European Union’s H2020 research and innovation programme – project Scientix 3 (Grant agreement N. 730009), coordinated by European Schoolnet (EUN). The content of the presentation is the sole responsibility of the presenter and it does not represent the opinion of the European Commission (EC) nor European Schoolnet (EUN) and neither the EC nor EUN are responsible for any use that might be made of information contained.
Under the framework of European Schoolnet, **Scientix promotes and supports a Europe-wide collaboration among STEM (science, technology, engineering and maths) teachers, education researchers, policymakers and other STEM education professionals.**
WHAT IS SCIENTIX

Scientix, the community for science education in Europe, promotes and supports European collaboration in STEM (science, technology, engineering and maths) teaching, research and policy.

www.scientix.eu

WHAT CAN I GET AS A TEACHER

Inspiration
Explore the Scientix repository for teaching materials.

Partnership
Discover science projects, get involved and build networks!

Workshops
Face-to-face exchange with your peers across Europe at events.

Multilingual
Free translations on your demand of your favourite teaching materials.

Connection
Opportunities to attend online training courses free of charge, such as webinars and MOOCs.

Support
Scientix Ambassadors and National Contact Points are here to help you!

Scientix is among the top 100 innovations in education in the world according to HundrED
- **Browse through the Scientix resources repository and find inspiration for your classes**

- **Get involved in European STEM education projects via our matching tool**

- **Participate in national and European workshops and professional development courses**

- **Download all presentations, videos and materials from our conferences, and stay tuned for future ones**

- **Participate in online training, webinars or communities of practice**

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Moodle courses on Scientix European Network
Panagiota Argyri, Mathematician Model High School of Smyrna, Scientix Ambassador
2.12.2017, Athens,
MoodleMoot 2017, 1st National Conference
- Scientix workshops at other events
- Scientix presentations at international conferences
- Scientix webinars
- Scientix Moodle
- Networking events for Science Education projects
- Online meeting room
- COMMUNITIES OF PRACTICE
• The Scientix Moodle was designed as a peer learning platform for exchange of good practices among STEM teachers.

• The most recent courses on the Moodle platform were developed by teachers from a variety of national backgrounds, who shared from their experiences of using different tools and pedagogies in their classrooms.

• The courses are self-paced and can be accessed by anyone, at any time. Users do not need to create a Moodle account to follow them.

• The Moodle courses are translated and uploaded in all the 24 official languages of the European Union.
Moodle courses on Scientix European Network
Panagiota Argyri, Mathematician Model High School of Smyrna, Scientix Ambassador

- STEM tools for teachers
- ICT tools for teachers
- Classroom management lessons
- Office tools for teachers
- Web2 tools for teachers
- Moodle training

http://moodle.scientix.eu/
**Moodle courses on Scientix European Network**

Panagiota Argyri, Mathematician Model High School of Smyrna, Scientix Ambassador


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**Rock Detective**

This course aims to explain how to recognize a rock type starting from its characteristics.

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**Teaching Robotics with EV3**

Teacher: Gisella Dre

This introductory Robotics course uses the LEGO® MINDSTORMS® EV3 Education Core Set (hardware referred to as EV3) and EV3 Education Edition Programming Software (free download) to teach the first steps on STEM Robotics to middle school students.

The course goals are: learning, to build, to program, and to test solutions related to STEM problems.

This course is divided into the following arguments:

1. Opening the EV3 kit
2. Learning the EV3 Programming SW
3. Building your first mobile robot
4. Moving your robot

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**Using the Maker approach in teaching Science**

Teacher: Natali Geogly

Technological changes in the past decades made it possible for everyone to make instruments, devices of a complexity undreamed of before. Rapid prototyping, programmable microcontrollers, cheap sensors and the open source libraries of creations led to the Maker movement: a technology enriched enhancement of the DIY approach.

This movement can be put to work in teaching by a creative Science teacher. You can design and make your own tools, and also make and use the ones others designed. The students can also be makers designing and building devices during a Science class.

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Well structured and friendly environment

http://moodle.scientix.eu/course/view.php?id=873
Strategies for using ICT tools in STEM classes

Teacher: Panagiota Argyri

ICT (Information and Communication Technology - or Technologies) is an umbrella term that includes any communication device or application: radio, television, cellular phones, computer and network hardware and software, satellite systems and so on, as well as the various services and applications associated with them, such as videoconferencing and distance learning.

This course is focusing on ICT tools for STEM education.

There is a plethora of ICT tools, but:

- Which ICT tools are appropriate corresponding to the objectives of the teaching and learning approaches?
- In what ways are ICT used and why?
- What strategies have to be implemented for the effective use of ICT?

This course provides a mini guide and a small tool box as supportive material in using effectively innovative ICT tools for different phases of the teaching and learning process.

The content of the course is based on a collection and analysis of the existing bibliography. It is divided into categories and it includes Web 2.0 tools. ICT tools for STEM lessons, many resources that provide useful links and a review of the Scientix repository of teaching materials, of projects and courses about ICT tools.

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Listo Bloom's taxonomy with verbs of teaching phase objective, which Web 2.0 tools do you use or do you think are more appropriate?

### Using GPS in Science Education

**Teacher:** Norbertas Airostis

This course consists of three linked modules. In the first module, "Effective GPS application model," we review and determine the success assumptions for effective GPS application in science education. In the next module, "Android App for GPS," you will gather the necessary skills to GPS-based research and learning using Android App "GPS Essentials". It also introduces the meter apps. By combining GPS and meter apps, you will get efficient data collection and analysis. In the final module, we introduce the teaching scenarios and pedagogical aspects. At the end of the course, participants are invited to share the GPS application of science education experiences.

### How to Use Virtual Science Hub - ViSII

**Teacher:** Tsetseo Hristova

- This online course helps teachers to use Virtual Science Hub, which is a part of GLOBAL excursion project.
- The course gives an overview of Virtual Science Hub and how to use its resources, such as how to register, how to make a trip, how to use a flashcard, virtual tour, questionnaires, and how to use a MashMe video conferencing and also presents the capabilities of Virtual Science Hub for social network.
- After the course, teachers following the instructions can create their own excursion.

### Use of Augmented Reality (AR) in Education

**Teacher:** Daniel Aguirre-Molina

Augmented Reality (AR) is a technology that is rapidly entering the science classroom. With this course, a brief introduction to the possibilities of AR is offered. From a simple environment of our classroom, we can find many possibilities to enhance the learning experience. The course includes the possibilities of using LAYAR and ARMAI in our lessons, and the use of SketchUp with the plug-in of AR-Reality to design our own 3D models.

### Socioscientific Issues in Science Education: Examples, Perspectives and Teachers' Role

The course aims to inform teachers about incorporating SSI in Science Education. More specifically, it aims to explore currently SSI and relate them to science education standards, discuss several pedagogies related to the teaching of such issues, and give teachers examples of students' discussions so as to point to the several ethical, moral, social and other dimensions, beyond the scientific one, that might emerge in the classroom.

### Making Android Apps

**Teacher:** Alojz Blazic

In this course, you will find a tutorial about free and very powerful open source platform for making Android Apps: MIT App Inventor. Course also contains forum where you can share ideas and ask questions about App Inventor. Platform is designed for very easy to use and it provides a lot of training materials which you can use in your classroom.

### Nearpod

**Teacher:** Nada Stojicovic

This course introduces Nearpod, a great tool for presenting educational materials. It can be used on smart phones, tablets, PC, and various OS (Android, Windows, iOS). Easy to share, with PDF report this tool saves time and brings interactivity to your classroom.

### Hi Oppia, Nice to Meet You

**Teacher:** Nada Stojicovic

This course introduces Oppia, an online learning tool that enables anyone to easily create and share interactive activities. These activities, called 'explorations,' simulate a one-on-one conversation with an intelligent tutor. During this course, you can learn some basics in how to use this tool.
As proposal

The Academy is a platform where you can learn about innovation in the school and classroom through online professional development courses for teachers in primary and secondary schools.

Develop your teaching practice online for free