

CERTIFICATE OF COMPLETION

Innovative Practices for Engaging STEM Teaching

18th August – 12th October 2014



European Schoolnet Academy

This is to certify that

Federica Biglino

has successfully completed the Innovative Practices for Engaging STEM Teaching online course on the European Schoolnet Academy

Brussels on 12 October 2014



Gabriela Collado
Course Coordinator
European Schoolnet



Marc Durando
Executive Director
European Schoolnet

Course details

- Dates: 18 August to 12 October 2014
- Duration: 27 hours (3 hours per week)
- Description: <http://www.europeanschoolnetacademy.eu/web/innovative-practices-for-engaging-stem-teaching-ii/course>
- Organiser: EUN Partnership aisbl (known as European Schoolnet), Rue de Trèves 61, B-1040 Brussels

The course is supported by inGenius which intends to mainstream its results to a wider audience. inGenius is co-funded by the European Commission via the ECB project, contract number 226662. The course and the materials are the sole responsibility of European Schoolnet and it does not represent the opinion of the European Commission. The Commission is not responsible for any use that might be made of information contained therein.



Course contents



Module 1: Increasing student's engagement to study STEM

The aim of this module is to understand the reasons behind the fall in student motivation for STEM subjects at school, and to explore ways of reversing the situation, based on participants' discussions and exchanges.



Module 2: Original teaching practices in the STEM classroom

The aim of this module is to look at innovative teaching practices and explore the opportunities and challenges they offer.



Module 3: Innovative STEM teaching: using STEM resources from across Europe

The aim of this module is to provide examples on how to effectively disseminate and exchange teaching resources from educational STEM projects (European, national, regional, or other publically funded projects) with fellow STEM educators.



Module 4: Discovering virtual & remote labs and how to use them in the classroom

The aim of this module is to learn more about how to reinforce inquiry-based science education in the classroom through remote and virtual laboratories as innovative teaching tools for the STEM classroom.



Module 5: Exploring STEM in the real world - Virtual visits to research centres

The aim of this module is to virtually explore research and education facilities in order to have a better idea of how STEM are applied to real life, and to explore, through virtual visits to research centres, some STEM passionate topics, areas and current technologies.



Module 6: Helping students to understand what STEM jobs are - Career counselling

The aim of this module is to provide relevant guidance and advice to science teachers that can be applied in the classroom to inform students about needs and opportunities in the STEM job market, particularly looking at job opportunities in industries and the skills that students will need in order to work in STEM fields.



Module 7: Meeting real life STEM professionals

The aim of this module is to better understand the importance and impact on students of meeting real life STEM professionals, to learn more about existing programmes and how schools can get involved in them, and to find out how schools can set up their own meetings with professionals and what activities they can do.



Module 8: Dealing with stereotypes

The aim of this module is to uncover the reality under the gender issue related to STEM careers and jobs.