



*Training Course:
Curriculum & Methods of Teaching Science*

*10 - 14 February 2025
Barcelona (Spain)
Grupotel Gran Via 678*

Training Course: Curriculum & Methods of Teaching Science

Training Course code: SC234932 From: 10 - 14 February 2025 Venue: Barcelona (Spain) - Grupotel Gran Via 678 Training Course Fees: 6000 € Euro

Introduction

This training course will shed the light on teaching methods for science and curriculum preparation and strategies. In this Education, in Curriculum & Methods of Teaching Science conference, you will learn to make your knowledge as an excellent researcher accessible to your students. We will show you how to communicate science to novices as well as advanced students in science. You will experience the value of teaching with analogies and you will be guided to train your students' competencies. Based on up-to-date findings from research into teaching and learning science.

You will be able to

- implement evidence-based strategies into your own teaching,
- use student's everyday conceptions for the development of courses,
- prepare analogies and models to teach in your field,
- implement problem-based teaching,
- set up for experiments and teach the nature of science.

Training Objectives

At the end of this training course, participants will learn:

- Evidence-based teaching main principles and curriculum of visible learning and mind frames which will help you to embrace these principles
- Adapt learning theories to science teaching, starting with behaviorism up to cognitivism, constructivism, and neurodidactics.
- Implement and reflect upon one evidence-based teaching strategy in your own teaching.
- How to guide students from their everyday conceptions to scientific ones.
- Use your students' pre-conceptions not as obstacles but as starting points for teaching science.
- Methods for a quick assessment of your students' conceptions.
- Strategies for how we can change our students' conceptions and how we can help your students to change their ideas.
- Address the pre-instructional conceptions of your students in your teaching.

- Choose good analogies for teaching science and implement them fruitfully.
- Frame your science teaching to make it relevant for your students.

Methodologies

The training course consists of lectures and assignments at the end of each day. The assignment is designed to let you implement the day's content into your own teaching syllabus, for example when developing an analogy for your own course. By developing the assignments and giving feedback on others' assignments with group discussion.

Target Audience

This course is intended for:

- Instructors who want to expand their knowledge of the new trends in teaching methods.
- Curriculum Assessment Specialist.
- Anyone who wants to learn about the Education in Curriculum & Methods of Teaching Science.

Training Course Outlines

Introduction: Teaching and Learning Science

- Evidence-based science teaching
- Rate teaching strategies
- How the brain computes information
- from behaviorism to constructivism
- Encouraging higher-order thinking

Conceptual Change

- Identifying everyday conceptions
- No teaching without everyday conceptions
- Assessing your students' conceptions
- Learning as conceptual change
- Learning as ontological change
- Tips for engagement

Teaching with analogies

- Why science is hard to grasp
- Using analogies
- How to teach analogies
- Successful instructional analogies
- Multiple representations in science

Re-Frame your science teaching

- Make science relevant
- Active learning with socio-centric
- issues
- Tasks for active learners
- Active Learning with Digital Tools
- Setting goals for students
- Supervision of theses
- Communication risk and uncertainty

Registration form on the Training Course: Curriculum & Methods of Teaching Science

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