Program Empowering Women in Science and STEM , 5 days

Lisboa

Program Description

Despite progress in education, gender disparities in STEM (Science, Technology, Engineering, and Mathematics) persist due to societal norms, implicit biases, and structural barriers. This 5-day training empowers educators and school leaders to identify and challenge gender stereotypes, create inclusive learning environments, and promote STEM opportunities for all students.

Through interactive workshops, case studies, and expert discussions, participants will develop practical strategies to foster gender equality in STEM education. The course will also explore mentorship, role models, and policy implementation to encourage long-term change in schools and institutions.

Competences

By the end of this course, participants will enhance their skills in:
- Understanding Gender Gaps – Recognizing systemic and cultural barriers in STEM education.
- Challenging Stereotypes – Identifying biases in teaching methods and learning materials.
- Inclusive Teaching Strategies – Designing and implementing gender-responsive STEM lesson plans.
- Mentorship & Role Modeling – Creating support networks for underrepresented students.
- Policy & Institutional Change – Developing school-wide strategies to foster gender equality in STEM.

Methodology

This course follows a practical and participatory approach, combining:
- Interactive Lectures – Engaging presentations with real-world case studies.
- Workshops & Hands-on Activities – Practical exercises to develop inclusive teaching strategies.
- Group Discussions & Role-Playing – Encouraging self-reflection and collaborative learning.
- Expert Panels & Guest Speakers – Real-life insights from professionals in STEM fields.
- Action Planning – Developing strategies for implementing gender-inclusive STEM education.
  By the end of the course, participants will leave with concrete tools, lesson plans, and action steps to promote gender equality in STEM at their institutions.

Results

At the end of the course, participants will be able to:
- Analyze gender disparities in STEM education and their root causes.
- Evaluate STEM curricula and teaching materials for gender bias.
- Apply inclusive teaching strategies that encourage participation from all genders.
- Establish mentorship programs and role models to inspire students.
- Advocate for policy changes to promote gender equality in STEM education.

Day 1: Intro to STEM in education

9.00-09.30	Course Presentations
09.30-10.00	Welcome & Icebreaker: Personal experiences with gender in STEM
10.00-11.0	Intro to STEM and the value of A(rts)
11.00-12.00	How to Plan for STEM into the curriculum (Udemy free course)
12.00-13.00	Discussion, Reflection & Q&A:
13.00-13.30	What barriers prevent girls from pursuing STEM?
13.30-14.00	How can we challenge biases in our own classrooms? STEM classes with diverse student needs in mind

Day 2: Everyone can STEM

9.00-10.00	Recap: Stereotypes in STEM (identify common gender biases).
10.00-11.00	Workshop: Selecting what projects better serve STEM
11.00-12.00	Guest speakers (women in STEM sharing experiences)
12.00-13.00	Quick and easy STEM: Team building, Project build selection, Lesson Plan
13.00-14.00	Practical Workshop: Design and construction

Day 3: Exploring STEM

9.00-10.00	Recap & Group Discussion: Examples of inclusive STEM teaching.
10.00-11.00	Practical Workshop: Design and construction
11.00-12.00	Present finished STEM builds & Peer Review: Evaluating and revise lesson plans.
12.00-13.00	Wrap-up Discussion: How to implement these strategies in our schools.
13.00-14.00	Technology Integration: Using digital tools for inclusive STEM education.

Day 4: STEM Project

9.00-10.00	STEM Project introduction: Cardboard Cajon
10.00-11.00	Presentation and STEM integration
11.00-11.30	Discussion
11.30-12.30	Practical Workshop: Build, Test and Application
12.30-14.00	Practical Workshop Wrap-up, review & Feedback

Day 5: Final project celebration & Wrap up

9.00-10.00 Recap & Group Discussion: Challenges.

10.00-11.00 Presentation of Action Plans: Groups share their strategies.

11.00-12.00 Cardboard Cajon Workshop and Performance

12.00-13.00 Commitment Pledge: Each participant outlines an action step.

13.00-14.00 Wrap-up & Feedback: Reflection on learning outcomes and next steps.