



Málaga

WWW.IDEVELOPCOURSES.COM

Course Description

Competences

Methodology

Results

Day by day Planning

DAY 1: Science and Technology

- 9:00- Introduction to STEAM Education, Understanding the principles and importance of STEAM education
- 10:00- Robotics and Programming in a STEAM Classroom, Exploring the role of robotics and programming in STEAM education
- 11:00- Coffee Corner
- 11:15- Workshop: Incorporating Robotics and Programming into STEAM Lessons, Hands-on session on integrating robotics and programming into science and technology lessons
- 12:30- Group Discussion: The Future of STEAM Education
- 14:00

DAY 2: Tools

- 9:00- Software and Materials for STEAM Projects, Exploring various software and materials suitable for STEAM projects
- 10:00- Workshop: Creating a STEAM Project, Step-by-step guide on creating a STEAM project based on a curricular science topic
- 11:00- Coffee Corner
- 11:15- Project Development: Designing a STEAM Project
- 12:30- Sharing and Feedback: Participants present and discuss their project ideas
- 14:00

DAY 3: Engineering

- 9:00- Introduction to Engineering in STEAM, Understanding the role of engineering in STEAM education
- 10:00- Example 1: Human Body (Basic Scratch Game), Hands-on session creating a basic Scratch game related to the human body
- 11:00- Coffee Corner
- 11:15- Example 2: Water Cycle (Experimentation), Engaging in a water cycle experimentation project
- 12:30- Reflection and Application: Applying Engineering Concepts in Projects
- 14:00

DAY 4: Why STEAM

9:00-	Creating STEAM Projects Based on Science and Technology Topics, Strategies for
10:00	developing STEAM projects aligning with science and technology subjects
10:00-	Workshop: Project Development Session
11:00	
11:00-	Coffee Corner
11:15	
11:15-	Group Collaboration: Developing STEAM Project Ideas
12:30	
12:30-	Presentation: Sharing and Discussing Developed Project Concepts
14:00	

DAY 5: Starting my own STEAM Project

9:00-	Example 1: Simple Machines (Experimentation), Hands-on experimentation with
10:00	simple machines
10:00-	Example 2: Microbit Robotics (Automated Sun-Powered Light), Building and
11:00	programming a Microbit robotics project
11:00-	Coffee Corner
11:15	
11:15-	Project Development: Creating Personal STEAM Projects
12:30	
12:30-	Project Implementation: Practical Application of Projects
2:00	

DAY 6: Design

9:00-	The Role of Arts in STEAM Education, Understanding the fundamentals of
10:00	incorporating arts into STEAM
10:00-	Workshop: Creating STEAM Projects Based on Arts Topics
11:00	
11:00-	Coffee Corner
11:15	
11:15-	Project Development: Integrating Arts into STEAM Projects
12:30	
12:30-	Presentation and Feedback: Sharing Arts-Based STEAM Project Ideas
14:00	

DAY 7: Arts

9:00-	Example 1: Musical Tubes (Physics and Music), Engaging in a project that combines
10:00	physics and music
10:00-	Example 2: Comics with Block Constructions (Lego), Creating comics with Lego block
11:00	constructions
11:00-	Coffee Corner
11:15	

- 11:15- Exploring Interesting Projects: Minecraft Education, History of Architecture, and Stop
12:30 Motion with Lego Blocks
- 12:30- Project Development: Participants begin developing their arts-based STEAM projects
14:00

DAY 8: Mathematics

- 9:00- Creating STEAM Projects Based on Mathematics Topics, Strategies for developing
10:00 STEAM projects aligning with mathematics subjects
- 10:00- Workshop: Project Development Session
11:00
- 11:00- Coffee Corner
11:15
- 11:15- Group Collaboration: Developing Mathematics-Based STEAM Project Ideas
12:30
- 12:30- Presentation: Sharing and Discussing Developed Project Concepts
2:00

DAY 9: Methodology

- 9:00- Example 1: Coordinates Axis (Scratch), Practical session on creating a project based on
10:00 coordinates axis using Scratch
- 10:00- Example 2: Quantification (ScratchJr), Application of quantification concepts in
11:00 ScratchJr
- 11:00- Coffee Corner
11:15
- 11:15- Workshop: Methodology in Action
12:30
- 12:30- Practical Application: Participants implement the learned methodology in their
2:00 projects

DAY 10: My Own STEAM Project

- 9:00- Project Finalization and Refinement, Participants refine and put the finishing touches
10:00 on their personal STEAM projects
- 10:00- Project Presentation Rehearsal, Participants rehearse and prepare to present their
11:00 projects
- 11:00- Coffee Corner
11:15
- 11:15- Project Presentations, Each participant presents their unique STEAM project to the
12:30 group
- 12:30- Evaluation and Certificate Distribution, Group evaluation and feedback session,
14:00 Participants receive their training certificates