



COURSE TITLE: Curious Minds, Connected STEM Learning: Practical Inquiry and Cross- Curricular Approaches for Primary

DATES: Monday 12, Tuesday 13, Wednesday 14 April 2027

TRAINER/S: Ms Ruth Bonello Gellel, Ms Alexia Micallef Gatt

TARGET AUDIENCE: Primary Educators

VENUE: St Paul Missionary College, Triq Emmanuele Vitale, Rabat

COURSE DESCRIPTION:

This 3-day course focuses on developing Connected STEM learning in primary education, promoting inquiry-based, cross-curricular approaches that link STEM to real-world contexts, particularly sustainability. It emphasises a holistic, student-centred approach, where learners actively investigate, design, collaborate, and apply their understanding.

A central theme is the integration of inquiry, design thinking, and cross-curricular learning, enabling educators to move beyond isolated subjects and create meaningful, connected learning experiences. Participants engage as learners themselves, exploring concepts through hands-on activities, collaborative problem-solving, and reflective practice.

The course is structured as a progressive journey - Explore, Create, Apply - supporting educators in building confidence and competence in designing and implementing Connected STEM in their own classrooms.



LEARNING OUTCOMES:

By the end of this course, participants will be able to:

- Explain the principles of Connected STEM and their application in primary education;
- Design and implement inquiry-based, cross-curricular STEM learning experiences;
- Integrate STEM with literacy and other subject areas to enhance learning connections;
- Use digital tools, including Micro:bit, to support coding, investigation, and problem-solving;
- Plan and adapt STEM activities that connect learning to real-world and sustainability contexts;
- Reflect on and refine teaching practices to support ongoing professional growth in STEM education

COURSE PROGRAMME:

DAY 1: Connecting STEM Through Inquiry and Sustainability

Day 1 introduces participants to the concept of Connected STEM through policy, practice, and hands-on experiences. Educators engage in inquiry-based activities and sustainability-focused coding tasks, experiencing learning from a student perspective. The day builds foundational understanding of how STEM can be integrated meaningfully across the curriculum while fostering curiosity and real-world problem-solving.

Day 2: From Ideas to Impact – Collaboration, Literacy and STEM Design

Day 2 focuses on integration, collaboration, and creation. Participants explore how STEM connects with literacy and critical thinking through structured activities and discussion strategies. Working in groups, they design and build innovative solutions to real-world challenges.



Day 3: Transforming Ideas into Classroom Practice

Day 3 supports participants in translating their learning into practical classroom application. Through observation, collaborative planning, and reflection, educators design their own inquiry-based, cross-curricular STEM activities. The day concludes with presentations and feedback, helping participants refine their ideas and confidently implement Connected STEM in their own teaching contexts.

REGISTRATION:

For provisional bookings please register [HERE](#) .



