



roBOTics and STEM education
for children and primary schools

University of Burgos

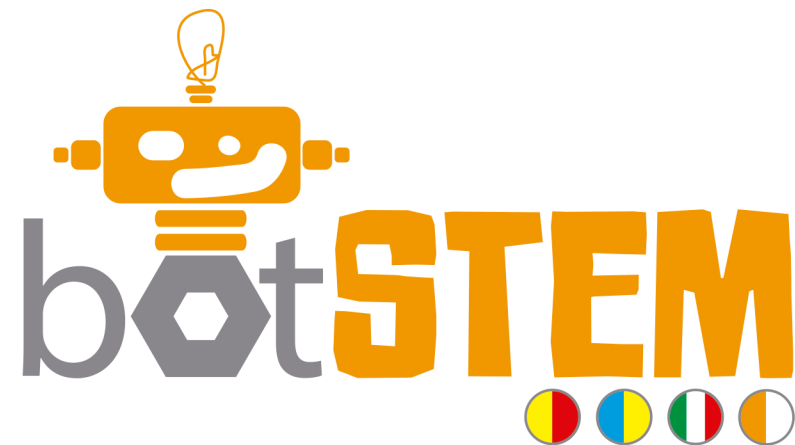
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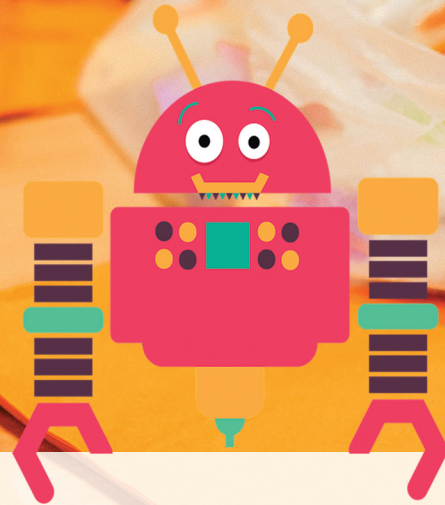
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To improve the potential students' achievement applied to STEM subjects, particularly in Natural Sciences and Mathematics

To implement innovative methodologies, using inquiry teaching and computational thinking.

To develop tools, resources and methods specifically developed for teachers, more motivating and appealing from the point of view of students from 4 to 8 years old.

BOTSTEM aims to develop a new methodology for integrating **STEM** programmes into the formal education curricula for childhood and primary schools, using **inquiry** teaching and educative **robotics** and **code-learning**.



TEACH

BOTSTEM will implement a robot-based approach, including also code-learning, for enhancing the education in STEM fields.

Recent research have demonstrated that early techno-scientific literacy in children as young as 4 years old could improve their long-term achievement in STEM fields and raise the scientific and technological vocations, specially for girls.

Competencies acquired during childhood, including design thinking, inquiry, coding and robotics, are transferable to other areas. These skills are applicable to all areas during their whole academic and labour life.

