



Deep European CulTour ERASMUS+ PROJECT

STEM EDUCATION

Co-funded by the
Erasmus+ Programme
of the European Union





During the second day of Erasmus+ mobility “Deep European CulTour” in Thessaloniki, teachers and students from partner countries visited Eduact-action for education. Adult participants and youngsters had the opportunity to develop, enhance and acquire key competencies and skills relevant to STEM education and training through innovative curricula and pedagogy. These skills and competencies help our target groups and beneficiaries to be better prepared and equipped for future educational and professional chances, always with a view to the new digital era that is upon us and the fourth Industrial Revolution. The course utilized the LEGO® Education SPIKE™ Prime hardware and software and it was best suited for teachers and students with little or no programming experience who would like to learn both the fundamentals of robot programming and pedagogy associated with the accompanying STEM concepts. This LEGO SPIKE Prime Training course focused on learning how to program the LEGO Education SPIKE™ Prime robot using the Scratch-based programming software. Our mission was to inspire students and teachers in robotics! Partner countries grouped together in groups of 3 (1 x SPIKE Prime) and designed their own dancing robot. Programmed the robot to move and dance to their chosen Greek folk music and host a dance competition.

As an outcome, Lego Spike has allowed students and teachers to grapple with questions of sensor accuracy, motor latency, response times and priorities without having to have extensive experience in circuit design, assembly-level programming or artificial intelligence. Further, Lego Robotics allowed students to easily explore topics in product design and prototyping.

