

Facts and Figures about STEM Education in Romania

Nicoleta Mirea

Politehnica University Timisoara, Romania
nicoleta.mirea@student.upt.ro

Diana Florina Robescu

Politehnica University Timisoara, Romania
diana.robescu@student.upt.ro

Constantin Florin Bogdea

Politehnica University Timisoara, Romania
constantin.bogdea@student.upt.ro

George Carutasu

Politehnica University Timisoara, Romania
george.carutasu@upt.ro

Abstract

The paper aims to clarify the research context from the etymology perspective of the science, technology, engineering, and mathematics (STEM) words. The importance of this multi-, inter- and trans-disciplinary fields of education will be explained by answering the question: “Why do we learn?” The debate on the answer will be connected to individuals’ objective for a better life and society, with the pleasure of learning new things to broaden knowledge horizons and/or because individuals want to launch challenges, to stand out. Presented approach includes a review of the literature for clarifying the context from epistemological perspective, concepts definition and understanding and is presenting figures on the STEM education in Romania. The paper describes how this educational method should change the training and subsequent development of teachers, to an entrepreneurial attitude, without the strict notion to the business relations, but to the qualities, skills, and competencies of an entrepreneur.

Keywords: Science, engineering, technology, mathematics, STEM, entrepreneurship