

**‘Specialization in ICTs and Special Education: Psychopedagogy of Integration’  
Postgraduate Program  
DEMOCRITUS UNIVERSITY OF THRACE Department of Greek Philology  
in collaboration with  
NCSR DEMOKRITOS Informatics and Telecommunications Institute**

**THE ROLE OF SCIENCE AND S.T.E.M. EDUCATION IN SPECIAL EDUCATION**

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## **ABSTRACT**

Students with learning difficulties have the right to enjoy equal opportunities in all areas of their lives and in education. The integrated teaching approach S.T.E.M. teaches students Science and Technology through exploratory activities. In this way, the interdisciplinarity of these areas is highlighted and students acquire skills that will be particularly useful to them in modern life. Such activities can play a very important role in educating children with learning disabilities as they can acquire the appropriate knowledge and skills and thus ensure equal opportunities in both academic and social life. In this way, in addition to the cognitive ones, we also have psychological benefits for the students, favoring their social integration. The present research is a bibliographic review in which the necessary adjustments that are necessary in order to have the maximum possible benefits from students with learning difficulties are investigated. The relationship between such activities and cognitive and metacognitive skills are also being explored. The results showed that education in the S.T.E.M. It has cognitive and psychological benefits for students with learning disabilities and at the same time can benefit from the development of skills necessary for the social integration of these children.

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