



Project title: GATE - 2021-1-LT01-KA220-SCH-000027713

GOOD PRACTICES

1	Title	STEAM courses for children	
2	Country	Bulgaria	
3	How is/was	- as a part of a research programme	
	it	- as a part of a private initiative	
	promoted?		
4	Context of The context where the best practice was developed		
	implementat		
	ion	X large city □small city □village	
5	Goals of the	To prepare the future generation for the future.	
	activity		
6	Description	A detailed description of the practice (500 words), describing:	
		a. Content of the educational activities carried out (what participants did/are	
		doing)	
		At Steam Powered Kids the team considers that the STEAM approach is particularly	
		useful for children at primary school level, as it creates a love for studying from an	
		early age and teaches a desire for lifelong learning. Besides STEAM, they also place a	
		focus on entrepreneurial and financial awareness skills, which are considered	
		necessary for the children in the process of their development and their successful	
		professional realization. The trainings are suitable for children and adolescents aged	
		between 7 and 18 years old. The materials, which the organization uses are reliable,	
		flexible and economically replaceable microcontrollers. They use more than 50	
		sensors, compared to Lego (only 6), and Arduino or Espressif microcontrollers.	
		b. Main Steps	
		The children need to select a level first, beginner or advanced and one of the	
		available different courses with various difficulties. They can pick from robot- engineering, make your own drone, 3D stop motion animation, 3D modelling and 3D	
		printing. Tutors with the relevant expertise then work directly with the children on	
		the premises of the organization.	
		c. Theories, on which the practice was based on	
		At the basis of STEAM activities promoted by the organization is learning by doing	
		and by experimenting, through experiences. They encourage the children to work in	
		teams and to communicate with each other. They encourage creativity and	
		individuality by following the principle that it is not the academic knowledge that is	

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		most important, but the ability information.	to think and know where to look for the necessary	
7	Implementa tion choices		e best practice (max: 500 words) by referencing to: Idolescents aged between 7 and 18	
b. Other participants in the activity, besides the promoter and the targe only Steam Powered Kids: https://steampoweredkids.bg c. Duration of a standard session/activity: the organization offers both activities, as well as long term courses with 1 hour sessions d. Number of sessions/activities: 20 sessions				
		e. Teaching methodology, if app		
			used to identify the benefits/progress: not reported	
8	Materials		nts required for experimentation and laboratory work well as artistic materials, required for design, but mmes.	
9	Who runs	Xmentors	Xan organization/institution	
	the activity	🗆 a school	\Box an informal group	
		□an NGO	□other	
10	Benefits and results	(max: 500 words)		
		 a. The benefits of this best practice for the target groups Children ready to experiment and to expand their curiosity and their technical skills, prepared to be the innovators of the future. b. Community/social impact 		
Improved chances for social progress thanks to empowered gifted young Also, parents who consider these programmes as a second chance for the who are outsiders in school, doing below average and not able to bond w peers or to communicate with their teachers.				
11	Relevance	(max: 500 words) (see index of	methodological material)	
	for the GATE Project	approach uses STEAM at its cor b. Did the practice aim to incre		
			vity, entrepreneurial thinking, team work, decision	
		c. Was the practice following certain inclusive principles, such as Universal design		
			children learn programming, using electronics and	
		_	sign, aerodynamics, laws of physics – knowledge	
			, always explaining the reason and the purpose and stheir results and achievements in multiple forms.	
12	Website/E-	https://steampoweredkids.bg	streaments and achievements in multiple forms.	
_	mail /Other			
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contact info
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References,
if any
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