



KIDS BUILD THEIR KNOWLEDGE AND SKILLS ABOUT THE WORLD THROUGH



Funded by the European Union

Teacher training course

“STEAM WITH CONSTRUCTION ACTIVITIES FOR KINDERGARTENS” AGENDA

03 August 2024, Saturday	Introduction to STEAM
09:30 – 10:30	Welcome. Ice breaker activity
10:30 – 11:00	Coffee break
11:00 – 12:30	STEAM: What is it? – Key Components of STEAM (Science, Technology, Engineering, Arts, Mathematics). How STEAM works? – 6 main activities: observation, questions, hypotheses, experiment, analysis, conclusion.
12:30 – 14:00	Lunch
14:00 – 15:00	Learning by exploring vs Learning by doing – what is the difference? Example of STEAM in kindergarten.
15:00 – 15:30	Coffee break
15:30 – 16:30	Workshop: Research on STEAM activities in kindergarten.
04 August 2024, Sunday	Constructive activities in kindergarten
09:30 – 10:30	Construction as an activity in the kindergarten. Materials for construction activities in the kindergarten.
10:30 – 11:00	Coffee break
11:00 – 12:30	LEGO DUPLO and other compatible constructive sets.
12:30 – 14:00	Lunch
14:00 – 15:00	Example of constructive activities in kindergarten.
15:00 – 15:30	Coffee break
15:30 – 16:30	Workshop: Construction activities with marshmallows, sticks, cups, paper boxes, and other things
05 August 2024, Monday	STEAM in kindergarten with LEGO DUPLO
09:30 – 10:30	Methodology for using LEGO DUPLO with STEAM approach in the education of kids.
10:30 – 11:00	Coffee break
11:00 – 12:00	Learning materials for methodology – for teachers, for kids.
12:00 – 12:30	LEGO DUPLO and other sets used in learning units.
12:30 – 14:00	Lunch
14:00 – 15:00	Learning group A: Planning and Constructing – learning units and activities Learning group B: Symmetry and Composition – learning units and activities
15:00 – 15:30	Coffee break

15:30 – 16:30	Workshop: STEAM activities with learning units from groups A and B
06 August 2024, Tuesday	Ecology, Entrepreneurship, Light and Shadows with STEAM and LEGO DUPLO for kids
09:30 – 12:00	Visiting a kindergarten
12:30 – 14:00	Lunch
14:00 – 15:00	Learning group C: Ecology and Entrepreneurship – learning units and activities Learning group D: Light and Shadows – learning units and activities
15:00 – 15:30	Coffee break
15:30 – 16:30	Workshop: STEAM activities with learning units from groups C and D
07 August 2024, Wednesday	Probabilities, Weight, Balance, Mechanisms with STEAM and LEGO DUPLO for kids
09:30 – 10:30	Learning group E: Probabilities – learning units and activities
10:30 – 11:00	Coffee break
11:00 – 12:30	Learning group F: Weight and Balance – learning units and activities Learning group G: Mechanisms – learning units and activities
12:30 – 14:00	Lunch
14:00 – 16:30	Workshop: STEAM activities with learning units from groups E, F, and G
08 August 2024, Thursday	Acceleration, Distance, Control, and Management with STEAM and LEGO DUPLO for kids
09:30 – 10:30	<ul style="list-style-type: none"> Learning group H: Acceleration and Distance – learning units and activities
10:30 – 11:00	Coffee break
11:00 – 12:30	Learning group I: Control and Management – learning units and activities.
12:30 – 14:00	Lunch
14:00 – 16:30	Workshop: STEAM activities with learning units from groups H and I
09 August 2024, Friday	Coding with STEAM and LEGO DUPLO for kids
09:30 – 10:30	Learning group J: Coding – learning units and activities
10:30 – 11:00	Coffee break
11:00 – 12:30	Workshop: STEAM activities with learning units from Group J Evaluation of the STEAM activities with LEGO DUPLO in the kindergarten.
12:30 – 14:00	Workshop: Developing a STEAM activity with LEGO DUPLO



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	How to integrate methodology for STEAM with constructive activities in kindergarten?
14:00 – 15:00	Distribution of participation certificates