

## Teacher training course

### “STEAM WITH CONSTRUCTION ACTIVITIES FOR KINDERGARTENS” AGENDA

<b>Day 1</b>	<b>Introduction to STEAM</b>
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.
<b>Day 2</b>	<b>Constructive activities in kindergarten</b>
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
<b>Day 3</b>	<b>STEAM in kindergarten with LEGO DUPLO</b>
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
<b>Day 4</b>	<b>Ecology, Entrepreneurship, Light and Shadows with STEAM and LEGO DUPLO for kids</b>
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
<b>Day 5</b>	<b>Probabilities, Weight, Balance, Mechanisms with STEAM and LEGO DUPLO for kids</b>
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
<b>Day 6</b>	<b>Acceleration, Distance, Control, and Management with STEAM and LEGO DUPLO for kids</b>
09:30 – 10:30	<ul style="list-style-type: none"> <li>Learning group H: Acceleration and Distance – learning units and activities</li> <li></li> </ul>
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
<b>Day 7</b>	<b>Coding with STEAM and LEGO DUPLO for kids</b>
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



KIDS BUILD THEIR KNOWLEDGE AND SKILLS ABOUT THE WORLD THROUGH



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