







Teacher training course

"STEAM WITH CONSTRUCTION ACTIVITIES FOR KINDERGARTENS" AGENDA

Day 1	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.
Day 2	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
Day 3	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

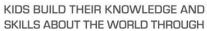






1!	5:30 – 16:30	Workshop: STEAM activities with learning units from groups A and B
Day 4		Ecology, Entrepreneurship, Light and Shadows with STEAM and LEGO DUPLO for kids
09	9:30 – 12:00	Visiting a kindergarten
	2:30 – 14:00	Lunch
-	4:00 – 15:00	Learning group C: Ecology and Entrepreneurship – learning units and activities Learning group D: Light and Shadows – learning units and activities
11	5:00 – 15:30	Coffee break
	5:30 – 16:30	Workshop: STEAM activities with learning units from groups C and D
Day 5		Probabilities, Weight, Balance, Mechanisms with STEAM and LEGO DUPLO for kids
0:	9:30 –10:30	Learning group E: Probabilities – learning units and activiti
10	0:30 – 11:00	Coffee break
1:	1:00 – 12:30	Learning group F: Weight and Balance – learning units and activities Learning group G: Mechanisms – learning units and activities
1.	2:30 – 14:00	Lunch
	4:00 – 16:30	Workshop: STEAM activities with learning units from groups E, F, and G
Day 6		Acceleration, Distance, Control, and Management with STEAM and LEGO DUPLO for kids
09	9:30 – 10:30	 Learning group H: Acceleration and Distance – learning units and activities
10	0:30 – 11:00	Coffee break
1:	1:00 – 12:30	Learning group I: Control and Management – learning units and activities.
12	2:30 – 14:00	Lunch
14	4:00 – 16:30	Workshop: STEAM activities with learning units from groups H and I
Day 7		Coding with STEAM and LEGO DUPLO for kids
09	9:30 – 10:30	Learning group J: Coding – learning units and activities
10	0:30 - 11:00	Coffee break
	1:00 – 12:30	Workshop: STEAM activities with learning units from Group J Evaluation of the STEAM activities with LEGO DUPLO in
		the kindergarten.
12	2:30 – 14:00	Workshop: Developing a STEAM activity with LEGO DUPLO









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