

COURSE SYLLABUS

Vocational School

Course Code	Course Na	ame	C	Credit	ECTS Value
ÇGP 208	Science and Mathema Prescho		(2-1-3)	6
Prerequisite Courses:	None				
Course Language:	Turkish	Course Delivery Method:	•	Face-to-fac	e
Course Type and Level:	Required / Spring Seme	ster 2nd Year / A	ssociat	e Degree	
Instructor's Title, First	Name, and Last Name	Class Time	Office	Hours	Contact
Dr. Rana RUDVAN,	Assistant Professor	1:25 PM - 3:45 PM	10:00) AM - 4:00 PM	ranarudvan@cag.edu.tr
Course Coordinator:	Dr. Assistant Professor	Rana RUDVAN			
Teaching the basic sci	ence and math skills a	nd concepts tha	t need	to be addr	essed to support children's

Teaching the basic science and math skills and concepts that need to be addressed to support children's cognitive development in the preschool period, how these concepts can be taught to children, how activities related to these concepts can be planned, how activities can be included in the daily schedule, enabling children to receive science and math education through project-based teaching, providing science and math education in nature using natural materials, and most importantly, developing the child's interest, love, and curiosity in mathematics and science.

Course	parning		Relationships		
Learning Outcomes	Student	s who successfully complete this course will be able to:	Program Outcomes	Net Contribution	
	1 Explains the importance and characte science and mathematics education,		1,2	4,5	
	2	Knows how to plan and organize the science and mathematics center in preschool education,	1,2	5.5	



3	Explains the basic skills and concepts that should be taught to children in preschool science and mathematics education and the order in which they should be taught,	4.5	5.4
4	Plans activity examples related to the fundamental skills and concepts in preschool science and mathematics education,	5.6	5.5
5	Prepares sample materials related to preschool science and mathematics activities,	8	4
6	Knows how to integrate science and math activities with daily life and other activities in the program,	3,4,8,10,9	4,5,5,4,5
7	Knows the teaching methods and techniques commonly used in preschool science education.	6,3	4

Course Content: (Weekly Lesson Plan)

Week			Teaching Methods and Techniques
	CourseScope and Content of Science and Mathematics Education in Preschool	object that represents	Warm-up/icebreaker games, drama activities, group discussion
	Mathematics Education in the Curriculum, Environment, Teacher's Role	photo or short story from daily life related to drama	Brainstorming, concept map, role-playing

	Preschool Period, Inquiry-Based Science Education, and Critical Thinking Skills	_	Case study, small group discussion, interactive presentation
	- Social Responsibility Project	-	Role-playing, group poster preparation, discussion



5			Multimedia analysis, creative music- movement work, interdisciplinary drama
6			Station technique, step-by-step dramatization, peer feedback
	Science and Mathematics Education	Students prepare a visual or brief explanation about a drama technique (e.g., frozen image, hot seat).	Freeze frame, hot seat, improvisation
8	Midterm Exam	-	-
9	Midterm Exam	-	
	Experiments in Science Education		Role-playing, improvisation, feedback session
	Science Education	Prepares a simple observation form for a drama activity.	Problem-based learning, forum discussion, evaluation cards
12			Scenario development, application workshop, peer observation
	Comparison, Grouping in	Brings the necessary materials for the final drama activity as a group.	Workshop, product sharing, joint performance
	Perception, Geometric Shapes, Measurement, Graphs in Mathematics Education		Full-process drama, improvisational performance, group presentation

		15	Material Production with Small Groups	Students bring recycled materials (cardboard, lids, fabric pieces, etc.).	Workshop, collaborative learning, hands-on activity
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16	Group Presentations of Responsibility Projects Participation Certificate	-		/ projects in the ort and	Presentati	on, peer assessment, Q&A
17	Final		-		-	
18	Final		The end-of-te submission is		-	
			Course Res	sources		
Textbook:		Lecturer's	s course notes	3		
	Course Assessment and Evaluation					
	Activities	Number	Contribution		No	tes
Midterm Exa	m	1	20	Written exam		
Homework		1	10	Social Responsib	ility Project	t Implementation
Presentation		1	10	Group presentati	on (Social F	Responsibility)
Participation	/ In-process activities	14	10	Active participation class activities	on in discus	ssions, group work, and in-
Final		1	5	Comprehensive v	vritten exar	n
ECTS Table						
	Content		Number	Hours		Total
Course dura	tion		14	3		42
Out-of-Class	s Work		14	4		56



Homework	1	10	10
Presentation	1	8	8
Participation / In-Process Activities	14	2	28
Midterm Exam (Midterm Exam Duration + Midterm Exam Preparation)	1	16	16
Final Exam (Final Exam Duration + Final Exam Preparation)	1	20	20
	180		
	180 ÷ 30 ≈ 5.0 ≈ 6		
		ECTS Credit:	6











