

SURE Symposium

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Using Urban Green Spaces as an
Extracurricular Educational Activities:
Sample of Yıldız Technical University
Davutpaşa Campus

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INTRODUCTION

- Urban green spaces, where people can relax and socialize in their daily lives, come in various forms. Urban agricultural areas, urban forests, parks, gardens, roadsides, boulevards and many biological elements exist side by side or intertwined in these regions.
- Visiting these scenes of nature have a restorative effect on people's psychology and can also be used as nature education areas for the big city residents who make up more than half of the world's population.

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PURPOSE OF ARTICLE

The aim of this study was to measure the level of awareness and knowledge of social studies and science education teacher candidates and graduate students at Yıldız Technical University about the biological environment in their surroundings. In order to achieve this goal, the level of awareness of teacher candidates was assessed and their knowledge of the biological environment was examined, as well as the relationship between their level of awareness and their knowledge of the biological environment.

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PURPOSE OF ARTICLE

The study aimed to investigate the following questions:

- What is the level of awareness of teacher candidates?
- What is the relationship between their level of awareness?
- What their knowledge of the biological environment?

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METHODS

Model of the research

The model of this research is *mixed-methods*.

A survey was administered to measure students' biological awareness, while a qualitative scale with open-ended responses was used to determine their level of knowledge based on campus photographs.

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Scope and Sample of the Research

The field of this research is limited to the education faculty, science and social studies teacher candidates at Yıldız Technical University, Davutpasa campus. A purposive sample of 134 students was included in the study.

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Data Collection Tool of the Research

In this research, a scale developed by the researchers was used as the measurement tool, consisting of two main parts.

The first part measured the students' level of biological awareness, while **the second** part aimed to determine their knowledge level by presenting formations related to the flora and fauna of the campus area.

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Data Collection Tool of the Research

The students' knowledge levels were measured using both qualitative and quantitative measurement tools. The assessment of the flora knowledge level consisted of 20 questions, the fauna knowledge level consisted of 18 questions, and the visual knowledge level was assessed using 20 photographs.

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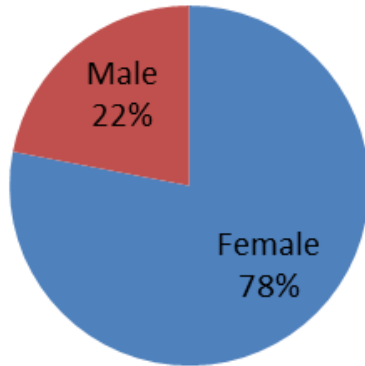
Analysis of Research Data

Research Data were obtained by the researchers using the SPSS program(One-Way Anova) and the qualitative content analysis of the open-ended responses to the photographs.

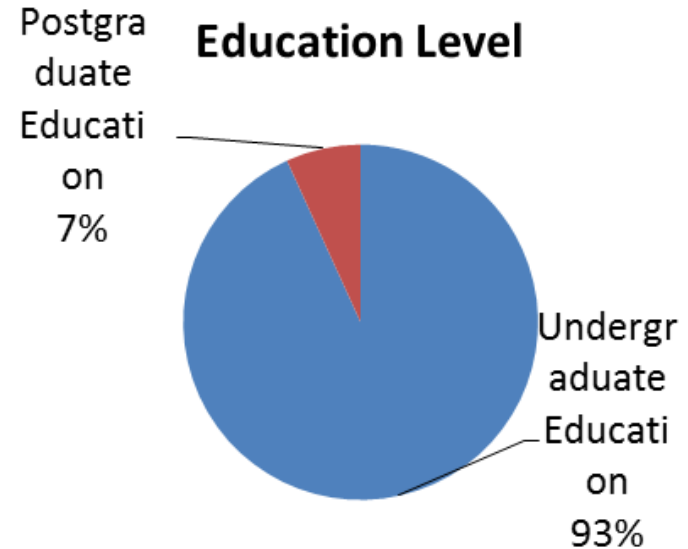
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RESULTS

Research sample group



Education Level



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RESULTS

The findings of our research that we will share here are related to the relationship between the biological awareness and knowledge levels that we investigated.

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Yıldız Techn

RESULTS

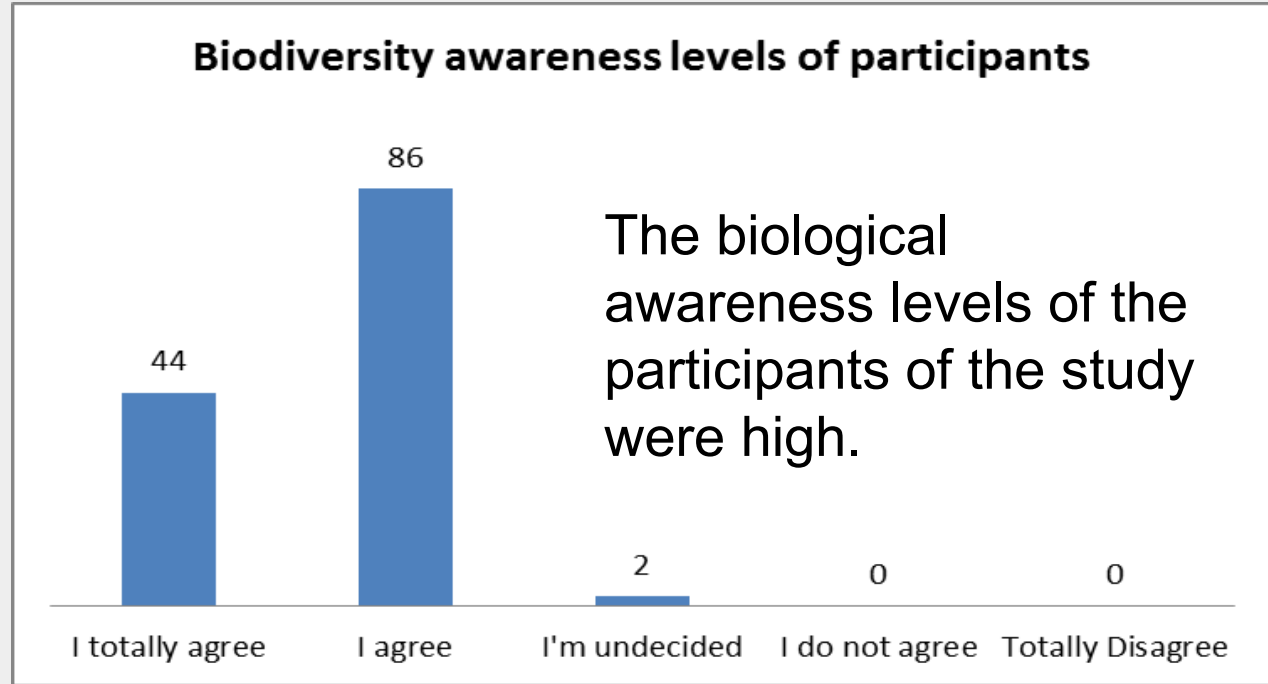
ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
1.Gender	Between Groups	9,793	46	,213	1,410	,086
	Within Groups	12,836	85	,151		
	Total	22,629	131			
What are the settlement areas that you have lived in before? (You can tick more than one option)	Between Groups	84,769	46	1,843	1,104	,341
	Within Groups	141,860	85	1,669		
	Total	226,629	131			
3.Education Level	Between Groups	3,545	46	,077	2,125	,001
	Within Groups	3,083	85	,036		
	Total	6,629	131			

According to the Anova test; The relationship between biological awareness and gender, place of residence and education level

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ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Total_Flora	Between Groups	14125,08	46	307,067	,869	,695
	Within Groups	30040,83	85	353,422		
	Total	44165,91	131			
Total_Fauna	Between Groups	20503,38	46	445,726	1,412	,086
	Within Groups	26521,43	84	315,731		
	Total	47024,81	130			
Total_Flora+Fauna	Between Groups	51466,96	46	1118,847	1,340	,122
	Within Groups	70135,71	84	834,949		
	Total	121602,7	130			

According to the Anova test; The relationship between biological awareness and knowledge of flora and fauna

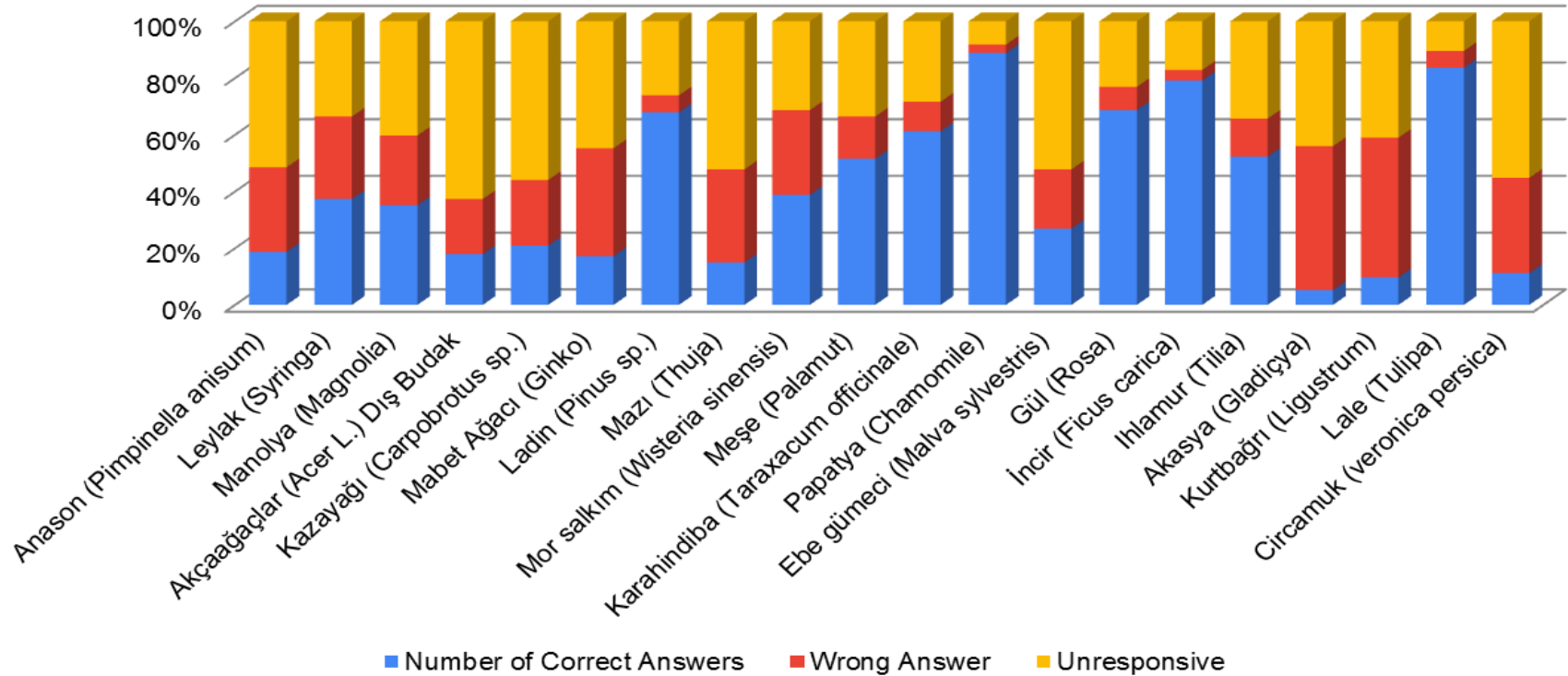
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RESULTS

In our study, it was found that students have a high level of biological attitudes, but their knowledge levels about the plants and animals in the campus area where they live are low.

Figure: Response status of the participants to the photographs taken in the campus area

RESULTS



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RESULTS

As a result of this research the central point of Davutpaşa Campus, one of the Campuses of Yıldız Technical University, Orta Bahçe which has the features of a green oasis for the surrounding urban region, has been determined as a perfect spot for instructional trips.

CONCLUSION

The most important result of the research is that although the biological awareness of the pre-service teachers is high, their level of knowledge is low.

It is important to provide training at every stage of education to overcome this deficiency. This is even more important in the training of teachers; because teachers have an important role in the transfer of knowledge.

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REFERENCES

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End

THANK YOU FOR LISTENING ...

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