

Expert-led research on the educational environment of a higher education institution: findings and analysis

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Abstract

The importance of the educational environment in personal growth, education, and building is realized via the analysis of scientific resources. One of the most crucial elements of such processes, according to some, is the educational environment. The terms "educational environment" and "educational environment of institution of higher education" are defined by the author. The writers promote the idea that the educational setting is a network of resources for individual education. The environmental approach to education, which aims to create and develop an educational environment that must fulfil a student's educational needs, is changing the emphasis on teaching, it is highlighted. The author's method of assessing the quality of the educational environment at a higher education institution is supported and approved, and the rating scale for this method is introduced. The method recommends doing a professional assessment of the learning environment of a higher education institution using qualitative (modality) and quantitative (professional breadth, professional saturation, sociocultural intensity, congruence, openness, mobility, informativeness) factors. A higher education institution's typology of the educational environment is offered (innovative-professional, formal-professional, pragmatically-oriented, formal general cultural educational environment). The analysis and explanation of the experiment's findings at Borys Grinchenko Kyiv University's University College are provided. Three expert groups, which included student, teacher, and parent representatives, evaluated the college's educational setting. Even while assessments made by several expert groups are comparable, it becomes clear that there are important disparities, which has been demonstrated with the help of the right statistical techniques. It has been concluded that there is tremendous potential for the validation of the entire monitoring system of the educational environment of institution of higher education and associated diagnostic instruments.

Keywords: educational environment; professional training; institution of higher education.

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INTRODUCTION

One of the most significant factors of the quality of education due to its specifics is educational environment of institution of higher education. Interest in researching it as a component of integral social and living environment of an individual has been growing for the last few decades. At the same time the paradigm of educational environment in personal building and development has changed from the necessary condition to the active contributor that must be created and realized in order to provide high-quality education. The scientific discourse presents different views

on the phenomenon of educational environment which is considered as a part of sociocultural space ([Krylova, 2005](#)); a system of impacts and factors of personal development ([Yasvin, 2001](#)); a complex of opportunities for personal learning and developing ([Deryabo, 1997](#)); a complex of human practices and material systems ([Warger & Dobbin, 2009](#)); a complex of conditions in which instruction takes place and which influence students' performance and relationships ([Fraser, 2002](#)); a product of a mutual activity of subjects of education ([Slobodchikov, 2010](#)); a complex of facilities for personal education ([Bratko, 2015](#)). We prefer to regard educational environment as a field of opportunities for personality. If conditions characterize 'space', environment is characterized by the notion 'opportunities', i.e. space becomes environment when conditions become opportunities. English-speaking publications extensively demonstrate the results of the study on the impact of educational environment on personality, which researchers interpret as educational environment ([Salmi, 2009](#)); educational climate ([Hiemstra, 1991](#)); academic environment ([Lizzio, Wilson, & Simons, 2002](#)), study/learning environment ([Abualrub, Karseth, & Stensaker, 2013](#); [Moos, 1979](#); [Warger & Dobbin, 2009](#); [Fraser, 2002](#)). The analysis of the resource base enables to state the development of the environmental approach in education that provides the subject of management with techniques and technologies of using educational environment for personal development and self-development, ensuring the quality of education. To achieve the objective of our research we appeal to approaches to examination, diagnostics and evaluation of educational environment including educational environment of institution of higher education presented in works of S. Deryabo ([1997](#)), R. Moos ([1979](#)), V. Rubtsov & T. Ivoshina ([2002](#)), B. Fraser ([2002](#)), V. Yasvin & S. Rybinskaya ([2015](#)), which has become the theoretical basis for developing the author's approach to evaluation of educational environment of institution of higher education. Monitoring the state of educational environment of institution of higher education may turn into a significant component of the internal system of ensuring the quality of education and its results may serve to make good managerial decisions.

THE OBJECTIVE OF RESEARCH

The purpose of our research paper is substantiation and approval of the author's technique of evaluation of a current state of educational environment of institution of higher education by the example of University College of Borys Grinchenko Kyiv University according to qualitative and quantitative parameters in order to take managerial decisions concerning its development.

RESEARCH METHODOLOGY

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The purpose of research has made us use the complex of the relevant methods: scientific literature analysis in order to establish the state of the problem development, the definition of the categorical and conceptual apparatus of investigation; synthesis, generalization, systematization for theoretical substantiation and practical development of approaches to diagnostics of the current state of educational environment of institution of higher education; empirical: expert evaluation, vector modelling; mathematical and statistical methods (Mann-Whitney U-test, Kolmogorov-Smirnov test, Friedman test) to assess the experimental work results.

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RESULTS AND DISCUSSION

The analysis of the phenomenon of environment, the thesaurus of environmental approach in education, scientific resources dealing with issues about examining educational environment as a factor of personal development and the author's point presented in our previous publications ([Bratko, 2017](#)) enable to determine the content of fundamental notions of the research. On basis of methodology of the system and environmental approaches, it is defined that the educational environment is a multilevel system of conditions / circumstances / factors / opportunities that provides optimal parameters of the educational activity of certain educational individual in all aspects – target, content, process, result, resource. The educational environment is characterized by: systematic, integrity, unity, emergence, variability, organization, structural, plasticity, communicativeness, eventfulness, configurability, saturation, vectority, sphericity, openness, dialog / polychology, organization, stability, adaptability, functionality ability for development and self-development. The educational environment of a higher educational institution is an integrity that encompasses a set of conditions, impacts, opportunities for vocational training, personal development and socialization of the future specialist. The component structure (personal, axiological-semantic, information-content, organizational-active, spatial and substantive components) and functions (polystructural educational in the unity of educational-professional, educational-socializing, educational-cultural functions and personalized-developing function) of the educational environment of the university college have been determined as well. On the whole, realization of the environmental approach in higher education, professional training takes into account guaranteeing quality education by means of mediation of educational environment of an institution. The environmental approach includes increase in activities directed at designing, modelling and creating educational environment that have to meet educational needs of a student efficiently.

Analysed approaches to evaluation of activities of educational institutions, effectiveness of educational process, quality of educational environment

(L. Vashchenko (2005), S. Deryabo (1997), V. Yasvin (2018), etc.) enable to define the main qualitative and quantitative parameters of evaluation of educational environment of institution of higher education. As a rule, in researches of environment of institutions of secondary education presence or absence of conditions and opportunities for development of activity or inactivity of the subject of education and their personal freedom is taken as a criterion indicator of modality. In our study we take into consideration educational environment of institution of higher education. Therefore, the qualitative parameter (modality) of educational environment of institution of higher education is adjusted with its main functions (polystructural educational one which consists of educational-professional, educational-socializing, educational-cultural and personalized-developing functions) and is characterized from the typological point of view. Defining the type of educational environment of institution of higher education, the degree of its orientation to profession, socializing, inculturation, general personal development is taken into account. Such an approach enables to determine the types of educational environment of institution of higher education considering existing approaches to typology of educational environment: *innovative-professional* (modern, filled with professional content and activities with well-developed practice-oriented component of educational process, prioritizing development of professional competences of future specialists, creative thinking, 21st century skills, open-mindedness and adaptability to sociocultural context); *formal-professional* (filled with professional context but preference is given to theoretical instruction, practice-oriented component of educational process is underdeveloped, characterized by low saturation of socio-humanitarian life of an educational institution); *pragmatically-oriented* (environment aimed at meeting individual educational needs of students and their parents concerning organization of professional training and socio-humanitarian life of an educational institution); *formal general cultural* (first of all aimed at general cultural and personal development of students, occasionally harmful to professional training). Researchers of educational environment suggest different lists of its quantitative parameters. The most frequently mentioned ones are the following: breadth, intensity, awareness, resilience, community, dominance, social activity, mobility, information, formality, emotionality, orientation, structure, coherence, professionalism, security. We have made a list of characteristics for evaluation of educational environment of institution of higher education taking into consideration researchers' discoveries, our own position, peculiarities of an institution of higher education as an institution that provides professional training. Hence, in our case, the quantitative parameters feature filling the environment of an institution of higher education with various factors of professional training, namely: *professional breadth* (quantity and quality of subjects and objects, processes, phenomena with professional orientation), *professional saturation* (the degree of saturation with professional resources, technologies, contacts with people in profession, educational projects, clubs and studios),

sociocultural intensity (the degree of saturation with conditions, impacts, opportunities for personal socializing and inculturation), *congruence* (the degree of adjustment of functioning all components), *openness* (demonstrates the degree of social orientation and involvement of educational environment in the surrounding world, availability of ways for social partnership to perform multiaspect educational function of educational environment), *mobility* (the degree of ability of educational environment to meet demands of outside context concerning the content, forms, methods and technologies of professional training), *informativeness* (features the degree of saturation and availability of information resources).

The approbation of determined criteria for evaluation of educational environment of institution of higher education by means of the expert method was carried out at University College of Borys Grinchenko Kyiv University (further on College) during 2012-2018. This publication presents the results of the research conducted in 2018. The participants of educational process – students, teachers, parents – performed a function of experts.

Expert groups were offered to evaluate the types of educational environment (its modality) according to 5-point scale, where 5 points corresponds to the highest level of the certain type manifestation and 1 point – to the lowest one. It is important to remember that there cannot be ‘pure’ type of educational environment. Any educational environment of an educational institution possesses characteristics of every type. However, characteristics of a peculiar type can dominate, thus they determine general orientation of environment.

Evaluation of educational environment of institution of higher education according to modality was made by 294 students (22.7% out of overall number of the student body at the time of the experiment, all courses and majors which are provided at College were represented), 83 teachers (49% out of general number of pedagogical staff) with different work experience in institutions of higher education (10 people with work experience of less than 5 years; 19 people – from 5 to 10 years; 23 people – from 10 to 20 years; 31 people – from 20 to 30 years), 250 parents. A special Google-form was created to carry out the survey. Identification of nature of received results and their verification were made by means of statistical methods. All calculations were made by means of digital tables Excel, statistical package SPSS ([Panchenko & Adamenko, 2010](#)).

Generalized results of evaluation by experts (students, teachers, parents) of manifestation of types of educational environment (modality) at University College in 2018 are presented in [Table 1](#).

Generalized results demonstrate that the highest points by each group of experts were given to innovative-professional environment. However, other types of environment have also a high degree of manifestation. It must be stated that evaluation of parent experts and teacher experts are almost identical in all types. Evaluation of innovative-professional and pragmatically-oriented types of environment is similar by all types of experts. Points by

student experts are significantly different from those by other experts concerning the formal general cultural type of environment. In comments students wrote that they were excessively involved in different entertaining events and concerts and they didn't always understand their connection with the content and goals of professional training. The answers of experts show that educational environment of College corresponds to its aim – providing professional training. In our opinion, it is a bit advance evaluation. In future it is necessary to enhance opportunities for students to obtain professional knowledge and skills at College. We are going to demonstrate approaches to evaluation of reliability of received results by means of statistical methods by the example of the group of student experts. The qualitative and quantitative composition of the group of student experts (according to specialty) and the results of evaluation by them (average indicators in every specialty) of types of educational environment at University College are presented in [Table 2](#). Kolmogorov-Smirnov test has shown that students' evaluation data are not arranged appropriately, therefore for their comparison we apply non-parametric tests. Since they were dependent groups, the same students evaluated educational environment according to four types. [Table 3](#) and [Table 4](#) show the comparative results of evaluation of types of educational environment of University College by student experts and statistics according to Friedman test. As we see, a posteriori knowledge of statistics χ^2 equals 156.721, its significance is less than 0.05, so the differences between 4 lines of points are considerable.

Table 1. The results of evaluation of manifestation of types of educational environment by experts at College, 2018

No	Type of educational environment	Expert group		
		Students	Teachers	Parents
1	innovative-professional	4.22	4.13	4.14
2	formal-professional	3.31	3.34	3.22
3	pragmatically-oriented	3.72	3.51	3.71
4	formal general cultural	3.71	3.23	3.22

Table 2. The results of evaluation of manifestation of types of educational environment at College by student experts, 2018

No	Specialty	Amount of students	Type of educational environment			
			innovative-professional	formal-professional	pragmatically-oriented	pragmatically-oriented
1	journalism	33	4.15	3.18	3.48	3.52
2	social work	11	4.00	2.55	3.36	3.64
3	design	22	3.59	3.41	3.41	3.91
4	choreography	5	4.20	3.80	3.60	3.40
5	science of law	8	4.13	3.25	3.25	3.75
6	secondary education (music)	14	3.71	3.00	3.50	3.36
7	information, library and archives	23	4.35	3.26	4.00	3.83
8	primary education	70	4.43	3.33	3.87	4.01

No	Specialty	Amount of students	Type of educational environment			
			innovative- professional	formal- professional	pragmatically- oriented	pragmatically- oriented
9	pre-school education	27	4.44	3.67	3.85	3.78
10	secondary education (arts)	16	4.00	3.31	4.06	3.19
11	finances	24	4.29	3.50	3.83	3.67
12	secondary education (physical education)	12	4.58	3.17	3.75	3.58
13	management	29	4.28	3.28	3.62	3.55
14	total	294	4.22	3.31	3.72	3.71

Table 3. The comparative results of evaluation of types of environment at College by student experts (Friedman test), 2018

No	Type of educational environment	Average ranks
1	innovative-professional	3.09
2	formal-professional	2.02
3	pragmatically-oriented	2.46
4	formal general cultural	2.44

Table 4. Statistics (Friedman test) for student experts

1	N	294
2	Chi-Square	156.721
3	df	3
4	Asymp. Sig.	0.000

Calculations for other groups of experts are made in an analogical way. [Table 5](#) and [Table 6](#) show the comparative results of evaluation of types of educational environment at University College by teacher experts and statistics according to Friedman test. As we see, a posteriori knowledge of statistics χ^2 equals 30.172, its significance is less than 0.05, so the differences between 4 lines of points are considerable. [Table 7](#) and [Table 8](#) show the comparative results of evaluation of types of educational environment of University College by parent experts and statistics according to Friedman test. As we see, a posteriori knowledge of statistics χ^2 equals 183.803, its significance is less than 0.05, so the differences between 4 lines of points are considerable.

Expert evaluation of educational environment of College according to the quantitative parameters (professional breadth, professional saturation, sociocultural intensity, congruence, openness, mobility, informativeness) in 2018 was made by three groups of experts consisting of students, teachers and parents of about 50 people in each group. The survey was conducted by means of Google-form. General data about the results of evaluation of educational environment of College according to specific characteristics, namely – average value in expert groups according to the quantitative parameters (professional breadth, professional saturation, sociocultural intensity, congruence, openness, mobility, informativeness) is presented in [Table 9](#). The graphic image of the results of evaluation of educational environment of College according to the parameters is presented in [Fig. 1](#).

Let us analyse obtained results. First of all, we are going to identify how different are points of certain groups of experts in pairs according to Mann-Whitney U-test. Let us present the analysis results and give examples of calculations in [Table 10](#) and [Table 11](#). The analysis of the calculation results in pair of students – teachers shows that points by students and teachers differ considerably according to the following parameters as sociocultural intensity, informativeness (significance is less than 0.05).

Table 5. The comparative results of evaluation of types of environment at College by teacher experts (Friedman test), 2018

No	Type of educational environment	Average ranks
1	innovative-professional	3.08
2	formal-professional	2.37
3	pragmatically-oriented	2.37
4	formal general cultural	2.17

Table 6. Statistics (Friedman test) for teacher experts

1	N	83
2	Chi-Square	30.172
3	df	3
4	Asymp. Sig.	0.000

Table 7. The comparative results of evaluation of types of environment of College by parent experts (Friedman test), 2018

No	Type of educational environment	Average ranks
1	innovative-professional	3.18
2	formal-professional	2.10
3	pragmatically-oriented	2.65
4	formal general cultural	2.06

Table 8. Statistics of Friedman test for parent experts

1	N	250
2	Chi-Square	183.803
3	df	3
4	Asymp. Sig.	0.000

Table 9. The results of evaluation of educational environment of college according to the parameters (average values, in expert groups), 2018

No	Parameter	Expert group			Average value
		Students	Teachers	Parents	
1	professional breadth	4.10	4.10	4.37	4.19
2	professional saturation	4.00	3.98	4.54	4.17
3	sociocultural intensity	4.06	4.42	4.63	4.37
4	congruence	3.67	3.74	4.37	3.93
5	openness	3.67	4.00	4.63	4.10
6	mobility	3.90	3.80	4.54	4.08
7	informativeness	4.29	3.98	4.61	4.30

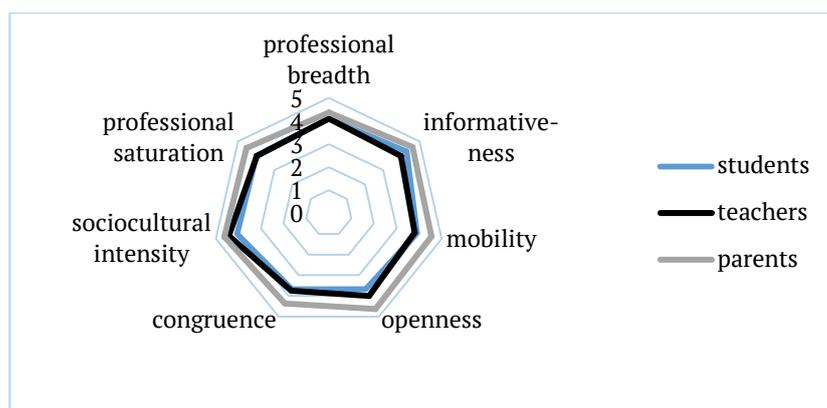


Figure 1. **The graphic image of the results of evaluation of educational environment of College according to the parameters, 2018**

Table 10. **The comparison of evaluation of educational environment of College according to the quantitative parameter of Mann-Whitney U-test for 2 expert groups of students and parents, 2018**

No	Parameter	Status	N	Mean rank	Sum of ranks
1	professional breadth	students	50	42.17	2108.5
		parents	41	50.67	2077.5
		Total	91		
2	professional saturation	students	50	39.65	1982.5
		parents	41	53.74	2203.5
		Total	91		
3	sociocultural intensity	students	50	37.62	1881.0
		parents	41	56.22	2305.0
		Total	91		
4	congruence	students	50	36.93	1846.5
		parents	41	57.06	2339.5
		Total	91		
5	openness	students	5	35.85	1792.5
		parents	41	58.38	2393.5
		Total	91		
6	mobility	students	50	38.12	1906.00
		parents	41	55.61	2280.0
		Total	91		
7	informativeness	students	50	40.97	2048.5
		parents	41	52.13	2137.5
		Total	91		

Table 11. **Statistics of Mann-Whitney U-test for 2 expert groups of students and parents, 2018**

No	Parameter	Mann-Whitney U	Wilcoxon W	Z	Asymp. Sig. (2-tailed)
1	professional breadth	833.5	2108.5	-1.699	0.089
2	professional saturation	707.5	1982.5	-2.742	0.006
3	sociocultural intensity	606.0	1881.0	-3.715	0.000
4	congruence	571.5	1846.5	-3.890	0.000
5	openness	517.5	1792.5	-4.328	0.000
6	mobility	631.0	1906.0	-3.395	0.001
7	informativeness	773.5	2048.5	-2.255	0.024

Student experts evaluate informativeness higher (+0.31) than teacher experts do. Teacher experts evaluate sociocultural intensity higher (+0.36) than student experts do. Other parameters do not have significant differences. Evaluation by students and parents differ in all parameters except professional breadth (significance is less than 0.05). In particular, parents evaluate educational environment according to parameters – professional saturation (+0.54), sociocultural intensity (+0.57), congruence (+0.7), openness (+0.96), mobility (+0.55), informativeness (+0.32). Evaluation by teachers and parents differ considerably in all parameters except professional breadth (significance is less than 0.05). We should state that parents evaluate educational environment higher than teachers in all parameters. In particular: professional saturation (+0.56), sociocultural intensity (+0.21), congruence (+0.63), openness (+0.63), mobility (+0.74), informativeness (+0.63). On the whole, points by parent experts are higher than those of other experts in every parameter. Although student experts and teacher experts evaluate educational environment differently, their points are very similar. Such results were unexpected. Researches by V. Yasvin (2018) show that the highest points are usually given by teacher experts and administration board, the lowest ones – by students, and point by parents are between them. From interviewing parents, it is stated that they idealize the place where their children are studying. Partially, parents explain that by the fact that they took responsibility in choosing an educational institution taking into consideration their children's age and they did not choose the worst one.

CONCLUSION

1. The role of educational environment as a factor of personal education and development, which not only has to be taken into consideration in educational process but also has to be created, is emphasized. Based on existing approaches to interpreting the notions 'educational environment', 'educational environment of institution of higher education', it is determined that educational environment is a multilevel system of conditions / circumstances / factors / opportunities that provides optimal parameters of the educational activity of certain educational individual in all aspects - target, content, process, result, resource. The educational environment of a higher educational institution is an integrity that encompasses a set of conditions, impacts, opportunities for vocational training, personal development and socialization of the future specialist. The component structure and functions of the educational environment of the university college have been determined.

2. The author's technique of evaluating the state of educational environment of institution of higher education is suggested. It makes expert evaluation of educational environment of institution of higher education according to the qualitative (modality) and quantitative (*professional breadth, professional saturation, sociocultural intensity, congruence, openness, mobility,*

informativeness) parameters. The typology of educational environment of institution of higher education (innovative-professional, formal-professional, pragmatically-oriented, formal general cultural educational environment) is presented.

3. The results of approbation of technique of evaluating the state of educational environment of institution of higher education by the example of educational environment of University College of Borys Grinchenko Kyiv University are presented. Reliability of obtained results is proved by means of Mann-Whitney U-test, Kolmogorov-Smirnov test, Friedman test. It is shown that expert groups consisting of students, teachers and students' parents evaluate educational environment, where the experiment took place, in a different way but their points are very similar.

Further research perspectives are connected with development of the integral system of monitoring educational environment of institution of higher education and corresponding diagnostic tools. In particular, research interest deals with development of criteria of evaluating the components of educational environment of institution of higher education.

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