

SPECIALIZED EDUCATION MANAGEMENT IN HIGH SCHOOL BY MEANS OF THE IMPLEMENTATION OF PROGRESSIVE AND PERSPECTIVE RELATIONS IN THE SYSTEM “SCHOOL – HIGHER EDUCATIONAL INSTITUTION“

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Abstract. The article deals with the management issues in the organization of specialized education in high school through the implementation of the principle of continuity between secondary and higher education. In the context of today’s globalization challenges it is important that education authorities should create conditions which will help maximize organizational and pedagogical close interaction between schools and universities. The author puts forward the mechanism of integration in the system ‘school – higher educational institution’.

Keywords: management, specialized education, principle of continuity, integration, secondary and higher educational institutions.

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Introduction

The problem of improving the quality of secondary education at present is becoming of increasingly global significance in terms of innovation and information space. In the context of the government decentralization, the empowerment of local government and reforming the Ukrainian complete secondary education and prospects for its transition to the 12-year pattern, educational authorities should create favourable conditions for closer integration of the educational process for a particular local community.

The twenty-first century challenges everything that surrounds us. With technologies and machinery rapidly changing, we must always learn in order not to stay behind the modern life. Nowadays there are global changes in social, cultural and educational values. Changes in the mind of every teacher in the system of his value orientations result in a transformation of educational activities, global revolution in educational content, methods and technologies of training and education.

Therefore, it is necessary to consider the activities of the Department of Education and Science of the Executive Committee of Kryvyi Rih City Council on management of specialized education in high school, the purpose of which is to provide progressive and perspective relations in the system ‘school - higher educational institution’.

The system ‘school - higher educational institution’

According to L. Pshenychna, management in education – is a set of principles, methods, organizational forms and processing control techniques of the educational process aimed at improving efficiency (Pshenychna, 2012).

Activities of the Department Education and Science of the Executive Committee of Kryvyi Rih City Council are aimed to create appropriate conditions for the effective operation for 146 secondary schools, each participant in the educational process, providing motives and incentives to work. For this purpose it is essential to use administrative methods - regulation of performers, the standardized work with senior staff; methods of psychological and educational impact, providing favourable psychological climate, stimulating creativity and initiative, forecasting social development for the network of institutions, which manage high school; methods of social impact, introducing healthy competition, tolerance and the increase of the prestige and image.

The staff of Kryvyi Rih secondary schools have been selected on the basis of knowledge in educational management. However, it is still difficult to change the mentality of directors (or command authoritarian style of leadership) to managerial (democratic or collective). The democratic leadership style in particular involves a genuine partnership and equality of the communicative process. Such a leader does not focus on the problem of power or adhere to social distance communication. He promotes extensive network of communication in the team (official and unofficial, role and personal, unilateral and bilateral, etc.). As L. Karamushka claims “democratically oriented leader must always take into account the needs and interests of each employee to create best conditions to meet them (Karamushka, 2004).

It should also be noted that the leadership style depends on a number of objective and subjective factors, the combination of which ensures the appropriateness of a particular style of leadership in a particular management situation.

This task is urgent for their specific professional orientation as the teacher is the leader and organizer of children’s life and work. Therefore, the use of knowledge management can significantly enrich the training of our employees’ education and increase their overall development.

New approaches to education in high school serve the need of creating real conditions for accounting individual characteristics, interests and needs of students and forming adequate ideas about future profession. If to consider the specialized education as a means of differentiation and individualization of learning, it will indeed take into account the abilities and inclinations of the students, their professional interests and intentions of further life activity. Thus, according to modern Ukrainian scientists - V. Madzihon, O. Malykhin, V. Synov, I. Siniahovska, M. Tymenko, V. Fedoryshyn and others, the system of pre-profile training and specialized training needs to be improved through theoretical, methodological and practical intelligence implementation.

For the purpose of the effective management of the educational area of the city the Department of Education and Science of the Executive Committee of Kryvyi Rih City Council uses a scientific approach to:

- strategic and current planning for the management and development of education in the city, taking, if necessary, measures to optimize the network of educational institutions;
- the development of 10th and 11th form students at lyceums, gymnasia and specialized secondary schools;
- the determination of economic efficiency the qualified teaching staff training;
- moral and economic incentives for educators;
- the organization of education and the effective management of its work and so on.

Thus, the management of educational institutions from a scientific perspective can be defined as the purposeful interaction of management and management subsystems for the

regulation of the educational process in order to transfer it to a higher quality level. In its form – it is the process of collecting and analyzing information, whereas information is the subject and the product of management. Analysis of the information cannot be performed without a definite database, collected and classified in the system. Education authorities are interested in improving the quality of secondary education that will ensure the successful training of highly qualified specialists – university graduates.

Among 146 Kryvyi Rih secondary schools, 118 are of I-III educational level; 18 of them did not manage to launch 10th forms in 2016/2017. Further trends and demographic analysis show that the high school will gradually be transformed into the institutions with necessary conditions for providing high quality training.

Among 6,589 of 10th and 11th form students, 100% are involved into the specialized training. According to specialization there are such directions: natural and mathematical - 29.4% (1,934 students); social and humanitarian - 17.9% (1,176 students); philological - 28.8% (1,896 students); technological - 18.7% (1,244 students); sports - 4.3% (285 students); artistic and aesthetic - 0.9% (54 students).

In 2016/2017 school year, natural and mathematical specialization was introduced in 61 secondary schools, socio-humanitarian - in 38 schools, philological – in 50, technological – in 38, art-aesthetic and sports areas - in 2 schools.

Thus 49 secondary schools opened 260 classes with the in-depth study of certain subjects, with the enrolment of 7,095 students. Among the subjects studied on the advanced level, students most often choose foreign languages (mostly English), the Ukrainian language and literature as well as mathematics.

The pre-profile training has covered the body of students from 8th and 9th classes with 4,674 students studying on the advanced level, representing 42.3% of the total number of students in 8th and 9th forms.

Specialization of education is determined by students' educational needs, staff capacity, material and technical base of educational institutions as well as graduates' socio-cultural and environmental prospects of obtaining further education. For this purpose schools carry out active vocational work.

To improve professional competence of the pedagogical community, working in specialized classes and classes with specialized subjects conferences, seminars, workshops, meetings of 'round tables' and other scientific and methodological activities are organized in the city. The city education authority analyzes the state of implementation areas of specialized education in general educational institutions of the city, reveals problematic issues and takes management decisions. Management decisions, at that – is a selection of the best governing body, appropriate in the given situation, the way of solving management problems out of several options with the argumentation both for themselves and for others.

The participants will become acquainted with interactive forms and methods of organization and time limit extracurricular activities for the development of civic competencies of the individual, to assess the benefits of integration as a pedagogical tool forming, try themselves in psychological quests for understanding of the priority of constitutional rights and freedom of pupils and teachers.

Distance learning has been widely spread recently. It's a form of educational process in educational institutions, which provides indirect interactions in the educational process of the participants separated from each other by a great distance through information and communication technologies.

General educational institutions working in experimental mode are members of Ukrainian part-time specialized schools attached to Junior Academy of Sciences of Ukraine. They represent such circles as “School of a young scientist”, “Urban remote school “A Step to Olympus” which provide deepening learning of mathematics, physics, astronomy, chemistry, biology, geography, economics and history. Basic disciplines continue to operate based on such portals as “Class rating” and “The School of Olympic Reserve”.

The monitoring of the websites of secondary educational institutions confirms the increased use of distance education as a form of specialized education.

The city has created the appropriate conditions for professional training of the teaching staff: teachers attend training courses at Kryvyi Rih State Pedagogical University, based on programs of high school profile training. Modern teachers who work in specialized classes are competent and responsible people who know their profession perfectly and are experienced enough in related fields of knowledge. They are able to work effectively in accordance with international standards, ready for continuous professional development, social and professional mobility.

Today the teacher’s competence determines the status and level of educational culture of professionalism and skill.

The problem of improving the level of professionalism of the teaching staff requires rethinking of scientific values of the education system, improving its educational opportunities, best practices and finding ways of improving the competence of teachers of different types of schools. In this situation, complicated functions of the senior profile school are not only in the implementation of the social order for the creative individual, but also in discovering ways of optimal functioning of education as a source and factor of sustained growth of society. The high profile school performs its function in the conditions of creating new knowledge, new ways of preparing future citizens for creativity, revealing prospects of personal growth and professional development.

Using various forms and methods profile education organization involves close cooperation with universities. The choice is driven by several factors: the logistics of the establishment, staffing, the number of classes in parallel, the number of profiles, interests of students and their parents and so on.

The analysis of the existing practice has allowed developing a subsequent administrative algorithm of high school specialized education:

- organizing coordination of activities for psychological and educational services in secondary schools;
- the creation of basic schools in each of the seven administrative units of the city;
- the organization of pre-profile training for secondary school pupils by introducing a system of special courses, electives and clubs;
- conducting a survey among graduates of secondary schools and their parents, aimed at identifying the students’ desire to study a particular profile;
- the analysis and synthesis of the survey data, identifying educational situation in order to reflect the supply and demand and to avoid wasteful duplication of structures;
- broad information and explanatory work among students of 9th forms and their parents encouraging a careful choice of further education;
- the determination of the best forms of specialized education in secondary schools for each district;
- the participation in the development of content specialized education in each high school institution;

- a purposeful formation of logistical, financial, human and educational resources;
 - the monitoring and quality analysis of profile education in the city secondary schools.
- The successful implementation of this management algorithm can be achieved due to:
- the active use of information and communication technologies;
 - the prerequisites for changing the educational profile of disciplines;
 - the significant increase in the proportion of independent educational activity of senior students. According to O. Malykhin, “the preparation of a young generation for self-training and the need to generate skills and ability to acquire specific knowledge in various fields independently have proceeded to the new stage” (Malykhin, 2009).
 - the systematic psychological and pedagogical support of profile training, providing advice on the choice of future profession;
 - the organization of work with parents;
 - the use of new educational technologies, primarily interactive project methods and so on.

It is possible to provide the effectiveness of the higher profile education through the implementation of the principle of continuity between secondary and higher education, between general education and higher educational institutions, by providing integration as well as progressive and perspective relations in the system ‘school – higher educational institution’.

It is important to resent a mechanism of management integration into the system ‘school – higher educational institution’ based on the experience of the Department of Education and Science of the Executive Committee of Kryvyi Rih City Council.

Table 1

| Comprehensive school | Higher educational institution |
|---|---|
| Conducting educational tours to universities | Days of Open Doors in higher educational institution with the purpose to explore faculties, specialties and conditions of the admission campaign |
| Involvement in the learning process of electives, elective courses, clubs, academics, specialized trainings and specialized classes | Participation in the review of students’ research works on the base of the Small Academy of Sciences of Ukraine |
| Organization of summer educational practices for 10 th form students according to their specialization | Participation in the jury for the defence in the contest of students’ research works at the Small Academy of Sciences of Ukraine |
| Conducting joint research and teaching activities (conferences, seminars, workshops) | Organization of counselling centres for the participants the EIT at higher educational institutions |
| Developing joint public projects for the attraction of financial investments and the strengthening of the material and technical base of the classrooms accordingly | Carrying out joint educational activities, volunteer programs, community campaigns |

The Department of Education and Science of the Executive Committee of the City Council:

- conducts meetings and ‘round table’ gatherings with the heads of schools and universities;
- works within the parliamentary groups from the National Assembly of the Permanent Committee on Education and Science;
- organizes counselling centres and tasks for testing for the participants of the EIT (External Independent Testing);
- conducts August analytical conference to analyse the indicators of functioning and development of secondary and higher education;
- provides the implementation of progressive and perspective relations in the system ‘school - higher educational institution’.

The suggested mechanism of cooperation is represented in the table below:

The suggested mechanism of cooperation will be effective under the following conditions:

- building a unified system of process control profiling in high school;
- developing necessary tools for the identification of educational conditions, prediction of the demands for certain profiles and determination of the best forms of specialized education in secondary schools in each district separately and in the whole city;
- creation of original models of pre-profile training and specialized training within a school, a district and the city;
- modernization of training and experimental activities for the teaching staff willing to work in the specialized school;
- creation of quality monitoring system for profile education;
- analyzing the results of the state final certification of 4th, 9th and 11th form students and the EIT of school leavers.
- taking into account the world tendencies in specialized schools, improving the quality of basic and secondary educational structure for optimization of profile education in high school;
- psychological and pedagogical support of students’ pre-profile preparation and profile training in middle and high school in order to create conditions for their conscious choice of the future profession.

Conclusions and suggestions

According to the research of teaching activities for the successful organizational and educational interaction between secondary and higher educational institutions on the issue of specialized education in high school it is recommended:

- to improve and diversify educational forms, methods and technology for profile studies using characteristic didactics of high school;
- to take measures to upgrade the search and motivation research, innovate the teaching staff’s methods for the work with high school students;
- to identify and promote promising teaching experience on profiling education, taking into account European tradition;
- to promote the innovative models of pre-profile and profile education in secondary schools, providing progressive and perspective implementation of the relations in the system ‘school – higher educational institution’;

- to direct innovative educational groups to ensure the development of a student as a person, guided by humanistic norms and values, a recognized citizen of Ukraine and a successful self-reliant social unit in the Ukrainian society;
- to create a favourable psychological and pedagogical innovation climate for teachers of secondary schools of the city;
- to enhance professional competence of management and teaching staff through self-education, active participation in international projects and conferences in the framework of the implementation of new state standards of primary, basic and secondary education;
- to enhance the effectiveness of the educational process to ensure continuity between the specialization and academic study of students;
- to monitor the implementation of inner school specialized education in high school, taking into account the results of the state final certification of school leavers, their participation in the EIT and future employment;
- to implement the task of students' pre-profile training in the organization of summer camps, training practices and excursions;
- to develop relationships with scientists, educational and community organizations for the integrated organization of profile education.

Thus, in the context of prospective contemporary globalization challenges education authorities consider it to be important to create conditions that will help the development of organizational and pedagogical close interaction between secondary and higher education. The Department of Education and Science of the Executive Committee of Kryvyi Rih City Council will continue to improve the management of profile education for the high school students, identifying problems as well as considering current tendencies and achievements.

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