



## LEVELS OF SCIENTIFIC AND METHODOLOGICAL SUPPORT OF PROFESSIONAL TRAINING OF STUDENTS ON THE BASIS OF AN INTEGRATIVE APPROACH

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### ABSTRACT

Education, Science and production integration, which consists in creating conditions for Lifelong Learning, is one of the effective means of implementing public policy. It can be said that this in turn can be a mechanism for strengthening the organizational forms of unification of areas interested in achieving the effectiveness of training competitive personnel.

Vocational training of students on the basis of an integrative approach is a component of the system of continuing education, the satisfaction of their need for vocational training, the formation of personnel with primary professional knowledge and skills for the sectors of the economy of the Republic, the creation of scientific and methodological tools determines the development of professional education.

### KEYWORDS

Integrative approach, professional training of students, scientific and methodological tool.

### INTRODUCTION

Unfortunately, in professional education, there are a number of problems associated with the level of scientific and methodological support for the professional training of students. In particular,

difficulties in coordinating curricula, the absence of a unity of approaches between teachers, as well as the limitation of relevant research to integrate into the learning process, insufficient training of teachers on



the use of integrative methodologies, the lack of uniform standards for assessing the success of integrated courses create a number of difficulties.

## DISCUSSION

The following principles can be distinguished, taking into account the methodological directions of scientific and methodological provision of integrated education, general scientific stimulation, the study of a new system of methodologies and methods:

**Continuity and concurrency discretion:** ensuring a continuous educational process while maintaining the possibility of discrete Corrections and innovations.

**Standardization and variability:** establishing common standards within these standards while recognizing that diversity is acceptable.

**Generalization and professionalization:** the proportionate development of general knowledge and special skills that provide universal competencies and professional experience.

**Integration, diversification and clarity of status:** combining different areas of knowledge, diversifying approaches, while maintaining the clarity of the state of each element in the system.

**Fundamentalization and pragmatization:** strengthening fundamental knowledge in combination with a professional practical direction to solve pressing problems.

**Democratization and sustainability:** ensuring access to education for different groups of the population, taking into account the democratization and stability of the system.

**Globalization and regionalization:** in the case of the process of integralization of economies, cultures and technologies at the world level, regionalization is

aimed at strengthening the influence of regional factors and limiting global processes in certain areas.

**Sociocultural and multiethnic:** refers to the analysis of the influence of various socio-cultural and multiethnic factors on society and various spheres. It involves assessing the impact of diversity of cultures, languages, and social norms on interactions in different communities.

These principles set the stage for the comprehensive study of modern educational and scientific approaches.

## METHODS

As we know, vocational education activities are a socio-professional - pedagogical complex system, covering goals, content, pedagogical and production processes, education, management and results in the educational process; implementation of pedagogical and production laws in unity, professional classification, indicates that the educational and production integration of students must be organized.

The variety of such dependencies can be seen, the multifactorial nature of their manifestation in professional training, which naturally manifests itself in its scientific and methodological support and is conditionally divided into three levels: methodological, theoretical and methodological.

The methodological level provides for taking into account the trends in economic, scientific and technical and social development of production; identification of leading ideas for the formation of a specialist's personality and increasing his professional training; analysis of existing theories in sociology, pedagogy, psychology, physiology and other disciplines; generalization of Advanced Engineering-pedagogical experience; determination of factors of the effectiveness of professional activity; concept and



conceptual approaches to the development and implementation of curricula and programs, components of the educational process, increasing educational activity, etc.

At the theoretical level, the set of principles on the basis of any educational theory is the embodiment of specific forms, methods, means of teaching of a particular didactic concept, forms of Organization of students for mastering a specific specific area of knowledge and the content of professional activity. These are didactic systems of teaching methods developed in relation to professional education and the organization of independent work of students, methods of design and implementation of components of the educational process, the choice of educational technologies and teaching methods, pedagogical modeling of the process of professional training, etc.

At the methodological level, in order to master the system of meaningful knowledge and methods of its application, theoretical-based and tested educational and program documents, educational and control tools, methodological recommendations, etc. of interconnected, complementary and mutually conditioned methods and methods for the science activities of teachers and students are developed.

Scientific and methodological support of students ' professional training on the basis of an integrated approach in the general case includes various methods of teaching, active use of modern scientific research, interdisciplinary approaches to teaching, as well as the connection between theory and practice, the development of educational materials, laboratories, seminars, internships and other forms of teaching.

On the basis of an integrated approach, the following can be included in the composition of the levels of

scientific and methodological support for the professional training of students:

- development of comprehensive training programs covering various aspects of the specialty and providing a wide range of knowledge;
- creation of modern textbooks, teaching aids, electronic and distribution materials, methodological guidelines, keys and other didactic tools that help to understand the topic;
- introduction of interactive methods of education, role-playing games, projects and other methods for the application of knowledge in practice;
- involve students in scientific projects, encourage critical thinking and develop research skills;
- creating conditions for the individual work of students, taking into account the level of professional training, interests and needs;
- combining knowledge from different fields so that students can see the relationship between different aspects of their specialty;
- assessment of educational quality and teaching methods, development of feedback and monitoring system;
- to provide information about career prospects, practical skills and requirements of the internal and external labor market in various professions.

At this point, we propose that the scientific and methodological tools created in the professional training of students must meet the following requirements:

- reflect the latest trends and current issues in the relevant field, give readers modern knowledge;
- be based on verified and reliable data, conducted research and authoritative sources;



- presentation of a multifaceted view of the subject, taking into account various points of view and approaches;
- introduction of practical examples, cases and solutions to help students develop their practical skills;
- easy inclusion in the learning process and compliance of students with the level of training and curriculum;
- taking into account modern teaching methods, new technologies and innovative approaches in improving educational efficiency;
- to allow the widespread use of electronic format materials that should be open to students;
- sources must be confirmed by reasonable facts and open to scientific criticism and debate.

## RESULTS

The creation of scientific and methodological tools of professional training of students using an integrated approach on the basis of the requirements set will help to more effectively study the educational material, adapt the educational process to the needs of students and the labor market. The result is achieved by:

**Adaptation to the labor market:** educational materials adapted to the needs of enterprises and the labor market meet more modern requirements, provide students with the appropriate knowledge and skills.

**Increase in student motivation:** increases students' interest and motivation for learning when they see a direct link between course material and future professional activities.

**Improved education:** provides more efficient learning of tailored learning tools for students as they are more adaptable to individual needs.

**Practical skills development:** an integrated approach can involve interaction with practical tasks, simulation

or Real-world projects that help develop the practical skills needed in the professional field.

Reducing the gap between theory and practice: combining theoretical material with practical experience helps students better understand and apply knowledge in life situations.

High labor competitiveness: graduates will have the opportunity to be in demand in the labor market and successfully adapt to the professional environment.

## CONCLUSION

In conclusion, we can say that the creation and use of scientific and methodological means of professional training of students on the basis of an integrated approach is a key element of the educational system.

The importance of such scientific and methodological tools is manifested in giving students modern knowledge, harmonizing theory and practice, supporting the individual development of each student. The integrated approach takes into account many aspects of teaching, including current industry trends and various teaching methodologies, these resources provide systematic and deep assimilation of material, help develop analytical skills and form a stable professional foundation of students.

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