



THE IMPORTANCE OF THE MANAGEMENT APPROACH IN ORGANIZING BIOLOGICAL RESEARCH

Ergasheva gulrukhsor surkhonidinovna

Doctor of pedagogical sciences, professor, national pedagogical university of uzbekistan named after nizami, uzbekistan

Allayerova malakhat normahmat kizi

Independent applicant, uzbekistan

ABSTRACT

this dissertation analyzes the role and importance of the management approach in the effective organization of biological research. Management principles play an important role in planning scientific processes, rational use of resources, organizing teamwork and monitoring results. The use of the management approach in scientific research allows us to increase the effectiveness of biological research, implement innovative ideas in practice and expand the application of scientific results.

KEYWORDS

Biological research, management approach, scientific management, planning, research team, project management, efficiency, use of resources, digital technologies.

INTRODUCTION

Biological research is a complex process that covers the entire spectrum – from the development of a scientific idea to the implementation of results in practice. In this process, a management approach that ensures efficiency, consistency and sustainability is of particular importance.

The management approach allows the teacher to carefully plan lessons, use available resources rationally, ensure the activity of students and combine the acquired knowledge with practice. In particular, in biology lessons, management principles play a special role in the effective organization of laboratory work, compliance with safety regulations and analysis of results. The management approach also plays a significant role in the introduction of innovative technologies into the educational process, systematic assessment of students' knowledge, and the development of their creative, independent thinking.

Therefore, for the effective organization of biological research, it is advisable to focus not only on scientific knowledge, but also on the formation of management skills, that is, management efficiency skills. Another aspect of the importance of the management approach in the process of teaching biology and organizing practical classes is that it provides students with deeper knowledge and skills, forms the basis for the formation of leadership qualities, self-confidence and leadership qualities.

Biological research is a complex and multi-stage process that requires effective management at all stages: from the development of a scientific idea to the implementation of results in practice.

Management effectiveness is a high level of success achieved through proper planning, organization, control and implementation of the research process. Planning, resource allocation, organization of teamwork, control and monitoring, implementation of innovations and implementation of results are of great importance for the effective organization of biological research.

Importance of planning: Biological research is often lengthy and multi-stage. Proper planning allows for the rational use of resources, saves time and prevents unnecessary costs.

Organization: Efficiency is increased by properly distributing laboratory equipment, supplies and tasks among researchers. Organizational management ensures that members of the research team work together.

Motivation and Leadership: Encouraging researchers and creating conditions for scientific creativity increases their effectiveness. A manager with strong leadership qualities can direct the team to achieve a common goal.

Control and Monitoring: Step-by-step monitoring during experiments helps to identify errors at an early stage. Evaluation of results and verification of their compliance with scientific goals increases scientific reliability.

Innovative Approach: A management approach facilitates the integration of new technologies into the research process. Thanks to innovative management, scientific results are implemented into practice faster.

Cooperation and communication: the management approach ensures effective interaction between specialists from different fields (biologists, chemists, doctors, IT specialists, etc.). The management approach also plays an important role in international scientific cooperation.

From the above scientific research it follows that the management approach is necessary for the effective organization of biological research. It promotes the rational use of resources, coordination of the activities of the scientific team, ensuring the reliability of the results and more rapid implementation of innovations. Therefore, taking into account management factors in any research process carried out in the field of biology is the key to scientific and practical success. The management approach in teaching biology is an important factor in the effective organization of the educational process. It is also of great importance for the use of innovative technologies, systematic assessment of knowledge, the formation of independent thinking and creativity in students. The use of the management approach in biology education is an important factor in increasing the effectiveness of research. The organization of biological research is a complex, multi-stage and lengthy process. Therefore, for the effectiveness of research, it is necessary to organize them on the basis of a specific goal and a clearly developed plan. The management approach to the organization of biological research allows achieving high efficiency by saving resources, developing teamwork and using modern technologies, while ensuring the quality and practical value of scientific results.

REFERENCES

1. Fayziev Sh.F. Methodology of scientific research and the basics of its organization. - Tashkent: Science and Technology, 2020.
2. Fayziev A., Tokhtayev N. Theory and practice of management. - Tashkent: Publishing House of the National University of Uzbekistan, 2019.

3. Khudoykulov K., Yusupov D. Methodology of scientific research. - Tashkent: Science and Technology, 2022.
4. Bakhramov R., Kholmatov M. Innovative approaches to biology education. - Samarkand: Publishing House of SamSU, 2021.
5. Akhmedov H. Fundamentals of management. - Tashkent: Economics-Finance, 2018.

