

**PEDAGOGIKA OLIY TA'LIMI MUASSASALARIDA KAFEDRA PROFESSOR-
O'QITUVCHILARNING ILMIY-INNOVATSION FAOLIYATINI
TAKOMILLASHTIRISH**

Boqiyev Xushrud

Shahrisabz davlat pedagogika instituti

Matematika va informatika kafedrasи mudiri

Annotation

Ushbu maqolada oliy ta'lim muassasalarida kafedra professor-o'qituvchilarining ilmiy-innovatsion faoliyatini takomillashtirish masalalari tahlil qilingan. Professor-o'qituvchilarning ilmiy-metodik tadqiqotlari, innovatsion ta'lim texnologiyalarini joriy etish, ilmiy hamkorlik va tarmoqlashuvni kuchaytirish, ta'lim dasturlarini zamonaviy talablarga moslashtirish, ilmiy nashrlar va patentlarning ahamiyati yoritilgan. Shuningdek, ilmiy-amaliy seminarlar va treninglar o'tkazish, davlat va xususiy sektor bilan hamkorlik qilish kabi tadbirlar orqali ilmiy-innovatsion faoliyatni rivojlantirish yo'llari ko'rsatilgan. Bu chora-tadbirlar professor-o'qituvchilarning ilmiy salohiyatini oshirish va oliy ta'lim muassasalarining umumiyl rivojlanishini ta'minlashga xizmat qiladi.

Tayanch so'zlar: kommunikatsiya, o'quv jarayoni, bilim, ko'nikma, telekommunikatsiya.

**СОВЕРШЕНСТВОВАНИЕ НАУЧНО-ИННОВАЦИОННОЙ ДЕЯТЕЛЬНОСТИ
ПРОФЕССОРСКО-ПРЕПОДАВАТЕЛЬСКОГО СОСТАВА КАФЕДР В
ВЫСШИХ УЧЕБНЫХ ЗАВЕДЕНИЯХ**

Бакиев Хушруд

Заведующий кафедрой математики и информатики

Шахрисабзского государственного педагогического института

Аннотация

В данной статье анализируются вопросы совершенствования научно-инновационной деятельности профессорско-преподавательского состава кафедр высших учебных заведений. Рассмотрены научно-методические исследования, внедрение инновационных образовательных технологий, усиление научного сотрудничества и сетевого взаимодействия, адаптация образовательных программ к современным требованиям, значение научных публикаций и патентов. Также показаны пути развития научно-инновационной деятельности через проведение научно-практических семинаров и тренингов, сотрудничество с государственным и частным секторами. Эти меры способствуют повышению научного потенциала преподавателей и общему развитию высших учебных заведений.

Ключевые слова: общение, учебный процесс, знания, навыки, телекоммуникации.

IMPROVING THE SCIENTIFIC AND INNOVATIVE ACTIVITIES OF FACULTY MEMBERS OF DEPARTMENTS IN HIGHER EDUCATION INSTITUTIONS

Bakiyev Khushrud

Head of the Department of Mathematics and Computer Science of Shakhrisabz State Pedagogical Institute

Abstract

This article analyzes the issues of improving the scientific and innovative activities of the faculty members of departments in higher education institutions. It examines scientific and methodological research, the introduction of innovative educational technologies, the enhancement of scientific cooperation and networking, the adaptation of educational programs to modern requirements, and the importance of scientific publications and patents. Additionally, the article highlights ways to develop scientific and innovative activities through the organization of scientific-practical seminars and training sessions, as well as collaboration with the public and private sectors. These measures contribute to enhancing the scientific potential of faculty members and the overall development of higher education institutions.

Keywords: communication, educational process, knowledge, skills, telecommunications.

It is known that the improvement of scientific and innovative activity in modern higher education institutions is one of the important conditions for the development of the state and society. Scientific-methodical research and introduction of innovative educational technologies by professors-teachers of the department serve to increase the quality of the educational process. It is also important to strengthen scientific cooperation and networking, adapt educational programs to modern requirements, and understand the importance of scientific publications and patents.

It is a mistake to consider scientific and methodical activity as a new type or direction in comparison with methodical work. There is not and cannot be a continuous line or opposition between them. These are links of the same chain in the educational process, which are filled with new content in connection with current educational tasks at different stages of educational development. However, the scientific-methodical activity of professors and teachers is aimed at the emergence of new traditions related to new technologies, new pedagogical techniques, and their implementation is carried out only on a scientific basis. At the same time, the old traditions accumulated over the years are not lost, but are embodied in new approaches to the development of faculty members in terms of organizing scientific and methodical work. Educational and methodological activity of the professor-teacher aimed at introducing the results of scientific research into the educational process. This type of work is essential for the

teacher, without which the educational process cannot work. It includes: design of working educational programs, didactic provision of the content of educational materials, design of intermediate and final materials, design of the content of control documents, fund of assessment tools, test tasks, development of abstract topics, coursework, final selection of documents, development of their evaluation criteria, introduction of new technologies into the educational process, methods and forms of education and training; including the results of his scientific research on the topic of professional interest for the teacher in the educational process, designing the author's methodical materials, introducing the results of scientific research into the educational process, self-analysis of professional and pedagogical activity to present their pedagogical experience to a wide range of professors and teachers, representatives of relevant educational institutions, and social partners.

Conclusion

Improving the scientific and innovative activity of professors and teachers of the department in higher education institutions plays an important role in the general development of society and increasing the efficiency of the educational system. It is possible to adapt educational programs to modern requirements through scientific and methodical research, introduction of innovative educational technologies, strengthening of scientific cooperation and networking. Also, scientific publications and patents are important in increasing the scientific potential of professors and teachers. These measures help to develop the scientific and innovative activities of professors and teachers and ensure the general development of higher education institutions.

References

1. Computer networking: a top-down approach / James F. Kurose, Keith W. Ross.—6th ed. 2013. by Pearson Education, Inc., publishing as Addison-Wesley.
2. TCP/IP protocol suite/Behrouz A. Forouzan.—4th ed. Published by McGraw-Hill, a business unit of The McGraw-Hill Companies, Inc., 1221 Avenue of the Americas, New York, NY 10020. Copyright © 2010.
3. Беспалько В.П. Бумажная версия электронного учебника. Школьные технологии. - М.: «Народное образование», 2007. -№ 2. - С.54-55.
4. Java Network Programming, Fourth Edition by Elliotte Rusty Harold. 2014.
5. Mariano Martin Martin. Introduction to software for Chemical engineers. CRC Press, 2014;
6. Karimov Q.M., Razzoqov I.D., Mathcad va Matlab muhitida ishlash. O'quv-uslubiy qo'llanma. "Nasaf" nashriyoti, 2014;
7. Djo'rayev M. Fizika o'qitish metodikasi: o'quv qo'llanma. — Toshkent: ABU Matbuot — Konsalt, 2015. — 280 b.

8. Turaev S.J. Methods of the using of software program Microsoft Excel in practical and laboratory occupation on physics, Scientific Bulletin of Namangan State University: 2019. Available at: <https://uzjournals.edu.uz/namdu/vol1/iss10/55>.