

SCIENCE
PROBLEMS.UZ

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Actual problems of social and humanitarian sciences
Актуальные проблемы социальных и гуманитарных наук

Ijtimoiy-gumanitar fanlarning dolzarb muammolari

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SCIENCEPROBLEMS.UZ

IJTIMOIIY-GUMANITAR FANLARNING DOLZARB MUAMMOLARI

№ 8 (5) – 2025

АКТУАЛЬНЫЕ ПРОБЛЕМЫ СОЦИАЛЬНО- ГУМАНИТАРНЫХ НАУК

ACTUAL PROBLEMS OF HUMANITIES AND SOCIAL SCIENCES

TOSHKENT-2025

BOSH MUHARRIR:

Isanova Feruza Tulqinovna

TAHRIR HAY'ATI:

07.00.00- TARIX FANLARI:

Yuldashev Anvar Ergashevich – tarix fanlari doktori, siyosiy fanlar nomzodi, professor, O'zbekiston Respublikasi Prezidenti huzuridagi Davlat siyosati va boshqaruvi akademiyasi;

Mavlanov Uktam Maxmasabirovich – tarix fanlari doktori, professor, O'zbekiston Respublikasi Prezidenti huzuridagi Davlat siyosati va boshqaruvi akademiyasi;

Xazratkulov Abror – tarix fanlari doktori, dotsent, O'zbekiston davlat jahon tillari universiteti.

Tursunov Ravshan Normuratovich – tarix fanlari doktori, O'zbekiston Milliy Universiteti;

Xolikulov Axmadjon Boymahmatovich – tarix fanlari doktori, O'zbekiston Milliy Universiteti;

Gabrielyan Sofya Ivanovna – tarix fanlari doktori, dotsent, O'zbekiston Milliy Universiteti.

Saidov Sarvar Atabullo o'g'li – katta ilmiy xodim, Imom Termiziy xalqaro ilmiy-tadqiqot markazi, ilmiy tadqiqotlar bo'limi.

08.00.00- IQTISODIYOT FANLARI:

Karlibayeva Raya Xojabayevna – iqtisodiyot fanlari doktori, professor, Toshkent davlat iqtisodiyot universiteti;

Nasirxodjayeva Dilafruz Sabitxanovna – iqtisodiyot fanlari doktori, professor, Toshkent davlat iqtisodiyot universiteti;

Ostonokulov Azamat Abdukarimovich – iqtisodiyot fanlari doktori, professor, Toshkent moliya instituti;

Arabov Nurali Uralovich – iqtisodiyot fanlari doktori, professor, Samarqand davlat universiteti;

Xudoyqulov Sadirdin Karimovich – iqtisodiyot fanlari doktori, dotsent, Toshkent davlat iqtisodiyot universiteti;

Azizov Sherzod O'ktamovich – iqtisodiyot fanlari doktori, dotsent, O'zbekiston Respublikasi Bojxona instituti;

Xojayev Azizxon Saidaloxonovich – iqtisodiyot fanlari doktori, dotsent, Farg'ona politexnika instituti

Xolov Aktam Xatamovich – iqtisodiyot fanlari bo'yicha falsafa doktori (PhD), dotsent, O'zbekiston Respublikasi Prezidenti huzuridagi Davlat siyosati va boshqaruvi akademiyasi;

Shadiyeva Dildora Xamidovna – iqtisodiyot fanlari bo'yicha falsafa doktori (PhD), dotsent v.b, Toshkent moliya instituti;

Shakarov Qulmat Ashirovich – iqtisodiyot fanlari

nomzodi, dotsent, Toshkent axborot texnologiyalari universiteti

09.00.00- FALSAFA FANLARI:

Hakimov Nazar Hakimovich – falsafa fanlari doktori, professor, Toshkent davlat iqtisodiyot universiteti;

Yaxshilikov Jo'raboy – falsafa fanlari doktori, professor, Samarqand davlat universiteti;

G'aybullayev Otabek Muhammadiyevich – falsafa fanlari doktori, professor, Samarqand davlat chet tillar instituti;

Saidova Kamola Uskanbayevna – falsafa fanlari doktori, "Tashkent International University of Education" xalqaro universiteti;

Hoshimxonov Mo'min – falsafa fanlari doktori, dotsent, Jizzax pedagogika instituti;

O'roqova Oysuluv Jamoliddinovna – falsafa fanlari doktori, dotsent, Andijon davlat tibbiyot instituti, Ijtimoiy-gumanitar fanlar kafedrasini mudiri;

Nosirxodjayeva Gulnora Abdukaxxarovna – falsafa fanlari nomzodi, dotsent, Toshkent davlat yuridik universiteti;

Turdiyev Bexruz Sobirovich – falsafa fanlari doktori (DSc), Professor, Buxoro davlat universiteti.

10.00.00- FILOLOGIYA FANLARI:

Axmedov Oybek Saporbayevich – filologiya fanlari doktori, professor, O'zbekiston davlat jahon tillari universiteti;

Ko'chimov Shuxrat Norqizilovich – filologiya fanlari doktori, dotsent, Toshkent davlat yuridik universiteti;

Hasanov Shavkat Ahadovich – filologiya fanlari doktori, professor, Samarqand davlat universiteti;

Baxronova Dilrabo Keldiyorovna – filologiya fanlari doktori, professor, O'zbekiston davlat jahon tillari universiteti;

Mirsanov G'aybullo Qulmurodovich – filologiya fanlari doktori, professor, Samarqand davlat chet tillar instituti;

Salaxutdinova Musharraf Isamutdinovna – filologiya fanlari nomzodi, dotsent, Samarqand davlat universiteti;

Kuchkarov Raxman Urmanovich – filologiya fanlari nomzodi, dotsent v/b, Toshkent davlat yuridik universiteti;

Yunusov Mansur Abdullayevich – filologiya fanlari nomzodi, O'zbekiston Respublikasi Prezidenti huzuridagi Davlat siyosati va boshqaruvi akademiyasi;

Saidov Ulugbek Aripovich – filologiya fanlari nomzodi, dotsent, O'zbekiston Respublikasi Prezidenti huzuridagi Davlat siyosati va boshqaruvi akademiyasi.

12.00.00- YURIDIK FANLAR:

Axmedshayeva Mavlyuda Axatovna – yuridik fanlar doktori, professor, Toshkent davlat yuridik universiteti;

Muxitdinova Firyuza Abdurashidovna – yuridik fanlar doktori, professor, Toshkent davlat yuridik universiteti;

Esanova Zamira Normurotovna – yuridik fanlar doktori, professor, O'zbekiston Respublikasida xizmat ko'rsatgan yurist, Toshkent davlat yuridik universiteti;

Hamroqulov Bahodir Mamasharifovich – yuridik fanlar doktori, professor v.b., Jahon iqtisodiyoti va diplomatiya universiteti;

Zulfiqorov Sherzod Xurramovich – yuridik fanlar doktori, professor, O'zbekiston Respublikasi Jamoat xavfsizligi universiteti;

Xayitov Xushvaqt Saparbayevich – yuridik fanlar doktori, professor, O'zbekiston Respublikasi Prezidenti huzuridagi Davlat siyosati va boshqaruvi akademiyasi;

Asadov Shavkat G'aybullayevich – yuridik fanlar doktori, dotsent, O'zbekiston Respublikasi Prezidenti huzuridagi Davlat siyosati va boshqaruvi akademiyasi;

Ergashev Ikrom Abdurasulovich – yuridik fanlari doktori, professor, Toshkent davlat yuridik universiteti;

Utemuratov Maxmut Ajimuratovich – yuridik fanlar nomzodi, professor, Toshkent davlat yuridik universiteti;

Saydullayev Shaxzod Alixanovich – yuridik fanlar nomzodi, professor, Toshkent davlat yuridik universiteti;

Hakimov Komil Baxtiyarovich – yuridik fanlar doktori, dotsent, Toshkent davlat yuridik universiteti;

Yusupov Sardorbek Baxodirovich – yuridik fanlar doktori, professor, Toshkent davlat yuridik universiteti;

Amirov Zafar Aktamovich – yuridik fanlar doktori (PhD), O'zbekiston Respublikasi Sudyalari oliy

kengashi huzuridagi Sudyalari oliy maktabi;

Jo'rayev Sherzod Yuldashevich – yuridik fanlar nomzodi, dotsent, Toshkent davlat yuridik universiteti;

Babadjanov Atabek Davronbekovich – yuridik fanlar nomzodi, professor, Toshkent davlat yuridik universiteti;

Normatov Bekzod Akrom o'g'li — yuridik fanlar bo'yicha falsafa doktori, Toshkent davlat yuridik universiteti;

Rahmatov Elyor Jumaboyevich — yuridik fanlar nomzodi, Toshkent davlat yuridik universiteti;

13.00.00- PEDAGOGIKA FANLARI:

Xashimova Dildarxon Urinboyevna – pedagogika fanlari doktori, professor, Toshkent davlat yuridik universiteti;

Ibragimova Gulnora Xavazmatovna – pedagogika fanlari doktori, professor, Toshkent davlat iqtisodiyot universiteti;

Zakirova Feruza Maxmudovna – pedagogika fanlari doktori, Toshkent axborot texnologiyalari universiteti huzuridagi pedagogik kadrlarni qayta tayyorlash va ularning malakasini oshirish tarmoq markazi;

Kayumova Nasiba Ashurovna – pedagogika fanlari doktori, professor, Qarshi davlat universiteti;

Taylanova Shoxida Zayniyevna – pedagogika fanlari doktori, dotsent;

Jumaniyozova Muhayyo Tojiyevna – pedagogika fanlari doktori, dotsent, O'zbekiston davlat jahon tillari universiteti;

Ibraximov Sanjar Urunbayevich – pedagogika fanlari doktori, Iqtisodiyot va pedagogika universiteti;

Javliyeva Shaxnoza Baxodirovna – pedagogika fanlari bo'yicha falsafa doktori (PhD), Samarqand davlat universiteti;

Bobomurotova Latofat Elmurodovna — pedagogika fanlari bo'yicha falsafa doktori (PhD), Samarqand davlat universiteti.

19.00.00- PSIXOLOGIYA FANLARI:

Karimova Vasila Mamanosirovna – psixologiya fanlari doktori, professor, Nizomiy nomidagi Toshkent davlat pedagogika universiteti;

Hayitov Oybek Eshboyevich – Jismoniy tarbiya va sport bo'yicha mutaxassislarni qayta tayyorlash va malakasini oshirish instituti, psixologiya fanlari doktori, professor

Umarova Navbahor Shokirovna– psixologiya fanlari doktori, dotsent, Nizomiy nomidagi Toshkent davlat pedagogika universiteti, Amaliy psixologiyasi kafedrasini mudiri;

Atabayeva Nargis Batirovna – psixologiya fanlari doktori, dotsent, Nizomiy nomidagi Toshkent davlat pedagogika universiteti;

Shamshetova Anjim Karamaddinovna – psixologiya fanlari doktori, dotsent, O'zbekiston davlat jahon tillari universiteti;

Qodirov Obid Safarovich – psixologiya fanlari doktori (PhD), Samarkand viloyat IIB Tibbiyot bo'limi psixologik xizmat boshlig'i.

22.00.00- SOTSILOGIYA FANLARI:

Latipova Nodira Muxtarjanovna – sotsiologiya fanlari doktori, professor, O'zbekiston milliy universiteti kafedra mudiri;

Seitov Azamat Po'latovich – sotsiologiya fanlari doktori, professor, O'zbekiston milliy universiteti;

Sodiqova Shohida Marxaboyevna – sotsiologiya fanlari doktori, professor, O'zbekiston xalqaro islom akademiyasi.

23.00.00- SIYOSIY FANLAR

Nazarov Nasriddin Ataqulovich –siyosiy fanlar doktori, falsafa fanlari doktori, professor, Toshkent arxitektura qurilish instituti;

Bo'tayev Usmonjon Xayrullayevich –siyosiy fanlar doktori, dotsent, O'zbekiston milliy universiteti kafedra mudiri.

OAK Ro'yxati

Mazkur jurnal Vazirlar Mahkamasi huzuridagi Oliy attestatsiya komissiyasi Rayosatining 2022-yil 30-noyabrda 327/5-son qarori bilan tarix, iqtisodiyot, falsafa, filologiya, yuridik va pedagogika fanlari bo'yicha ilmiy darajalar yuzasidan dissertatsiyalar asosiy natijalarini chop etish tavsiya etilgan ilmiy nashrlar ro'yxatiga kiritilgan.

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MUNDARIJA

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TO THE CONTENT OF PRACTICAL CLASSES ON THE MODULE “DECISION SUPPORT SYSTEMS” OF THE ACADEMIC DISCIPLINE “INFORMATION TECHNOLOGIES IN MANAGEMENT”

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Abstract. The article discusses the capabilities of some decision support systems, the study of which within the framework of the academic discipline “Information Technologies in Management” strengthens students' knowledge and skills in alternative methods and means of decision making.

Keywords: decision support system, “QM for Windows”, MPriority, SPSS, MiniTab, expert system, neural network technology.

“BOSHQARISHDA AXBOROT TEXNOLOGIYALARI” O‘QUV FANINING “QARORLAR QABUL QILISHNI QO‘LLAB-QUVVATLASH TIZIMLARI” MODULI BO‘YICHA AMALIY DARSLAR MAZMUNIGA OID

Karimov Akramjon Zaynobidinovich

Toshkent davlat yuridik universiteti,
Umumta'lim fanlar va madaniyat kafedrası
professori v.b., f.-m.f.n., dotsent

Annotatsiya. Maqolada qarorlar qabul qilishni qo‘llab-quvvatlash tizimlaridan ayrimlarining imkoniyatlari ko‘rib chiqilgan, ularni “Boshqaruvda axborot texnologiyalari” o‘quv fani doirasida o‘rganish talabalarining qaror qabul qilishning muqobil usullari va vositalari bo‘yicha bilim va ko‘nikmalarini mustahkamlaydi.

Kalit so‘zlar: qarorlarni qo‘llab-quvvatlash tizimi, “QM for Windows”, MPriority, SPSS, MiniTab, ekspert tizimi, neyrotarmoq texnologiyasi.

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Introduction

The academic discipline "Information Technologies in Management" naturally contains topics aimed at forming, enriching and strengthening the professional competence of the future specialist. In addition, the main subjects of most areas of education that train specialists in the field of management include the discipline "Information Technologies in Management" and, in our opinion, the inclusion of the topic "Decision Support Systems" in this discipline is appropriate, based on the requirements of the fast-paced modern era.

If the academic discipline "Decision Support Systems", included in the profile "Design and Development of Artificial Intelligence Systems" of the main professional educational

program in the specialty "Information Systems and Technologies" [1], is intended for specialists in this particular field, then within the framework of the academic discipline taught to students of the social and humanitarian direction, the topic "Decision Support Systems (DSS)" is designed to provide students of the initial year of the bachelor's degree with an approximate minimum of knowledge and skills at the user level.

The decision-making process is a unique intellectual analytical process that requires the necessary knowledge, experience and abilities of the decision maker (DM) or the decision-making group. Experience and intuition may not always be equally effective in decision-making. Analytical methods, especially software tools created on the basis of these methods – computer decision-making systems, can effectively help decision makers in difficult and complex situations that require decision-making.

Methods and literature review

The methodological basis of this article is a review and analysis of domestic and foreign sources devoted to the issues of teaching DSS. Both academic publications and normative and methodological materials were studied, including the working programs of universities, as well as the results of the introduction of practice-oriented approaches into the educational process.

A literature review showed that DSS training is most often implemented using case methods, simulation models, the use of specialized software, and students' project activities. Considerable attention is paid to developing systemic thinking skills, modeling decision-making processes, and analyzing criteria for the effectiveness of choice.

In foreign practice, the emphasis is on integrating DSS with other components of management information systems, including ERP and BI systems. At the same time, online platforms and environments for visual modeling are actively used, which allows students to master both theoretical aspects and practical tools.

The methodological approach presented in this article, which consists in the implementation of the module "Decision Support Systems" in the academic discipline "Information Technologies in Management", was formed on the basis of the experience of teaching this discipline, as well as the synthesis of the above-mentioned practices with their adaptation to the conditions of domestic higher education. At the same time, the main attention is paid to the development of students' competencies in the field of analysis of management tasks, the choice of rational solutions based on criteria, as well as the development of digital tools that implement the functions of the DSS.

This methodological study is based on a selective review of current decision support systems that can be used in the educational process when studying the discipline "Information Technologies in Management". The brief review we have presented does not claim to be complete and is of a guiding nature when forming the content of practical classes.

Discussion. DSS studied in practical classes

Below we briefly discuss the capabilities of some decision support software tools.

Program «QM for Windows». This program has separate modules aimed at solving many types of practical problems, each of which serves to achieve an optimal solution based on quantitative methods. For example, the software module of this system, called "Project Management", is effectively used in planning large projects. It pays attention to the optimal distribution of time, labor and financial resources. This module is a tool for optimal project management.

Also, the "Linear Programming" module of the "QM for Windows" program is created on the basis of the linear programming method, helps to come to the correct and most effective specific solution for linear programming problems, in particular, the optimal organization of production, ensuring a given coverage, distribution of financial resources, food rations, when preparing various pharmaceutical or chemical mixtures and solutions.

In addition, many modules of the QM for Windows program, such as Assignment, Decision Analysis, Forecasting, Game Theory, Transportation, allow you to come to a certain conclusion when making decisions on various types of issues.

MPriority Program. The hierarchy analysis method and the MPriority program created on its basis can be effectively used in decision-making by indicating the most effective option from alternative solutions, according to the definition of criteria priorities in multi-criteria problems.

It is noteworthy that the only author of the analytic hierarchy process is the American scientist Thomas Saaty [2].

The MPriority program assumes that decision makers have the ability to distinguish between alternative solutions and subjective criteria for their evaluation, correctly set criteria priorities, and compare their aspects that correspond to the criteria from descriptions of alternative solutions. Consequently, the significance of applying the hierarchy process analysis method to multi-criteria problem solving is also emphasized by the fact that it takes into account not only quantitative indicators, but also the mental and spiritual-psychological characteristics of the decision maker.

One of the advantages of the MPriority program is that the program interface is simple and intuitive. After entering the basic data into the program, an analytical process takes place with the participation of the program user. The user does not need special mathematical training. MPriority allows the user or decision maker to choose the most effective solution among alternative solutions, taking into account the priorities of the criteria.

Programs "SPSS" and "MiniTab". It is possible to forecast the activity of the system by quantitatively assessing the course of activity in the sample based on multifactorial correlation-regression analysis. Effective automated software tools for correlation-regression analysis have been created, which are now decision support systems. These include the programs "SPSS" ("Statistical Package for the Social Sciences") and "MiniTab". These systems are capable of determining correlations of processes in the social, economic, political and other spheres, showing their quantitative and graphical expression, assessing the density of dependence, automatically calculating statistical values, building a regression model, showing the values of forecasting intervals, and are also capable of predicting the future of processes of a certain type through time series analysis.

Expert systems. These systems, which are considered automated intelligent information systems based on a knowledge base in a specific area, are among the most modern software tools that support decision making. Their mathematical support consists mainly of Boolean algebra and the rules and procedures of formal logic. However, recently, due to the rapid development of neural network technologies, hybrid intelligent tools such as neural networks with deep learning and equipped with fuzzy logic have become the basis of modern intelligent systems.

The capabilities of the original expert systems are manifested in decision-making by representatives of a professional network differentiated in different spheres on issues related to a similar sphere, or in obtaining information related to the same similar sphere for which the knowledge base of the expert system is formulated. If classical expert systems are distinguished by the ability to recommend a specific solution based on a knowledge base on complex issues, then in the work [3] “a stable tendency was identified towards building DSS based on integrated neural network approaches, which is practically possible and economically feasible, since it allows obtaining distributed and trainable DSS, stable over time and able to adapt to a changing corporate IT landscape.” Indeed, by today, expert systems are becoming fundamentally trainable, capable of accumulating knowledge in the process of functioning, analyzing and generalizing the results of experts' actions. “In fact, expert systems are gradually acquiring cognitive abilities associated with cognition, forecasting and human-like methods of decision-making.”[4].

Results and conclusion

The organization of practical sessions on Decision Support Systems (DSS) within the academic course "Information Technologies in Management" involved developing a comprehensive teaching and methodological package. This was implemented using software tools such as "QM for Windows," "MPriority," and "MiniTab." Student engagement and enthusiasm in completing practical tasks using these programs indicate the success and appropriateness of integrating this topic into the core curriculum during the early years of the bachelor's program. While this topic serves mainly as an introduction for students, it effectively draws their attention to modern digital tools for analysis, decision-making, and management. More detailed study and proficiency in DSS can be pursued in advanced courses covering statistical analysis, system analysis, management, and decision-making techniques. Therefore, dedicating only a minimal number of hours to SPSS and expert systems is sufficient, considering that these areas might require knowledge from other related disciplines and additional training, which can be delivered through seminars as part of the "Information Technologies in Management" course.

In summary, it is important to recognize that students may one day become managers. Therefore, they should understand that a modern manager—regardless of the management field—must possess key leadership skills such as systematic thinking, proficiency in contemporary analytical decision-making methods, and familiarity with decision support software. These competencies are essential for making accurate and effective decisions.

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