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LINGUISTIC BASIS OF TEACHING ORAL COMMUNICATION OF STUDENTS IN GERMAN LANGUAGE LESSONS Maxmurova Mavjuda Halimovna	65
LEXICAL-STYLISTIC GRADUINOMY IN UZBEK, ENGLISH, RUSSIAN Ne'matova Mohibegim Fazliddinovna	67
THE PEDAGOGICAL SKILL OF A MODERN TEACHER Haydarov Muzaffar O'rmonovich	70
VISUAL METHODS OF TEACHING HISTORY AND WAYS OF THEIR FORMATION Sharipova Munisa Erkinovna	72
THE ROLE AND SIGNIFICANCE OF CONDUCTING ART IN THE SYSTEM OF MUSIC EDUCATION Maftuna Komiljonovna Alimbayeva, Madina Uzakovna Teshayeva	74
CONCERT GENRE INTERPRETATION PROBLEMS (IN THE EXAMPLE OF A CONCERTO BY FRANCIS POULENC FOR PIANO AND ORCHESTRA) Maftuna Komiljonovna Alimbayeva, Madina Uzakovna Teshayev	76
APPLICATION OF PEDAGOGICAL TECHNOLOGIES IN ENGLISH LESSONS Pulatova Shakhzoda Khaydarovna	78
PSYCHOLOGICAL AND PEDAGOGICAL FOUNDATIONS OF TEACHING A FOREIGN LANGUAGE Tolibova Nodira Nusratovna	80
PHRASEOLOGISMS OF THE ENGLISH LANGUAGE WITH PROPER NAMES Mirkhadjaeva Mahliyo Islomovna	82
PROBLEMS OF CORRECT SPONUCEMENT IN TEACHING ENGLISH Bakhronova Zulfiya Ravshanovna	84
PROFESSIONAL COMPETENCE OF A FOREIGN LANGUAGE TEACHER Bobokulova Gulrukh Sharipovna	86
PHRASEOLOGICAL VARIANTS IN THE GERMAN LANGUAGE Samadova Sevar Akhatovna	88
ORGANIZATION OF GERMAN LANGUAGE PHRASEOLOGY TRAINING Mirzaeva Mukhayo Ruzievna	90
TYPES OF DICTIONARIES AND THEIR STRUCTURE Khusenova Mehriniso Uktamovna	92
ENCRYPTION IS A KEY ELEMENT OF INTEGRATED SECURITY Ataeva Gulsina Israilovna, Shokirov Obidzhon	94
THE USE OF INTEGRATED TECHNOLOGIES IN THE EDUCATIONAL PROCESS Ismoilova Mahsuma Narziqulovna, Barrayeva Sevara Shoim qizi, Samiyeva Gulshan Alisher qizi	97
SPREAD OF CORRUPT PRACTICIES IN THE RUSSIAN REGIONS Boris Zalivanskiy, Elena Samokhvalova	99
USE OF ETHNO-ARTISTIC TECHNOLOGIES IN THE WORLD ART LESSONS Julia Mikhailova	102
MASS ONLINE COURSES AS ONE OF THE INNOVATIVE WAYS OF LEARNING IN THE MODERN HIGHER EDUCATION SYSTEM Nadezhda Kornienko, Anastasia Miroshnikova, Elena Malyshkina	105
DISTANCE LEARNING FOR MEDICAL UNIVERSITY STUDENTS: PLUS AND MINUS Natalia Bratchikova	107
SARS-COV-2 and CARDIOVASCULAR SYSTEM Arina Vyuzhanina, Sergey Jeyranyan, Polina Plotnikov, Elena Udina	109
STUDY OF THE ORGANIZATION OF VOLUNTEER ACTIVITIES IN THE TERRITORY OF THE PERM KRAI DURING THE PERIOD OF COVID-19 NEW CORONAVIRAL INFECTION Vladislava Galanova	112
CLINICAL FEATURES OF THE COURSE OF COVID-19 IN PATIENT WITH END-STAGE OF CHRONIC KIDNEY DISEASE (CLINICAL CASE) Anastasia Gantseva, Danil Udin	114
ANALYSIS OF THE DEMAND AND PURCHASE OF MEDICINES DURING THE COVID 19 PANDEMIC Grebneva Marina, Maksimova Vladislava, Maria Kurilyak	117
ANALYSIS OF THE HEALTH STATE OF 4 COURSES STUDENT IN THE PERIOD OF DISTANCE LEARNING Nataliya Zhdanova, Elizaveta Sheveleva, Maria Kurilyak	120
COURSE OF NEW CORONAVIRUS INFECTION IN PERM REGION Zhel'nina Angelina	123
HOW DOES COVID-19 PROGRESS WITH OBESITY Mariya Kanaeva, Maria Kurilyak	125

Research Article

THE USE OF INTEGRATED TECHNOLOGIES IN THE EDUCATIONAL PROCESS

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Abstract.

This article deals with the use of integrated technologies in the educational process.

Key words: integrated technologies, communication, information technology, electronic textbook, electronic teaching aid, electronic educational and methodological complex, virtual laboratory work, computer program, electronic reference, electronic application.

Integratsiyalashgan texnologiya deganda, ikki va undan ortiq texnologiyalarni birlashtirish, umumlashtirish va ular orasidagi aloqadorlikni o'rnatishdan hosil bo'lgan texnologiyalar tushuniladi. O'quv jarayonida integratsiyalashgan texnologiyadan foydalanish deganda, pedagogik, axborot va kommunikatsiya texnologiyalarini birlashtirish, umumlashtirish va ular o'rtasidagi aloqadorlikni o'rnatish orqali faoliyat olib borish holati tushuniladi. Ta'lim oluvchilarning o'quv predmetlar bo'yicha o'zlashtirish darajasi darsning sifati va samaradorligini belgilovchi asosiy omillardan biridir. Ta'limning sifatini oshirishda darsni to'g'ri rejalashtirish va maqsadni to'g'ri va aniq belgilab olish muhimdir. Maqsadni belgilashda natijaga erishish uchun ketadigan vaqt, ta'lim oluvchining ehtiyoji va imkoniyatlari, ta'lim oluvchining maqsadga erishishga harakat qilishga yo'naltirilgan metodlar va natijani aniqlaydigan nazorat turlarini aniqlash alohida ahamiyat kasb etadi. Bunday maqsadga erishish uchun o'quv jarayoniga zamonaviy pedagogik texnologiyalarni joriy qilish zarur. Pedagogik texnologiya ta'lim jarayonida qo'llaniladigan pedagogik va texnologik yondashuvlarning integratsiyasi mahsulidir. Pedagogik texnologiya - o'quvchining mustaqil o'qishga, bilim olishga, fikrlashga o'rgatishni kafolatlaydigan jarayondir. Pedagogik texnologiya jarayonida o'qituvchi rahbarligida o'quvchi mustaqil ravishda bilim oladi, o'rganadi, o'zlashtiradi. Demak, pedagogik texnologiya insonga oldindan belgilangan maqsad bo'yicha ta'sir o'tkazish faoliyatidan iboratdir. Axborot texnologiyasi - axborotga ishlov berish uchun ushbu axborotdan foydalanuvchi jarayonlarning sermehnatligini kamaytirish va ularning ishonchligini va tezkorligini oshirish maqsadida zamonaviy kompyuterdan foydalanish bilan bog'liq jarayonni ifodalaydi. Zamonaviy axborot texnologiyalari ta'lim muassasalarida tahsil olayotgan yoshlarga yangicha yondashishlar asosida, bilim, malaka va ko'nikmalarini shakllantirish bilan bog'liq o'quv jarayonini tashkil etib, ta'limni yangi sifat bosqichiga ko'tarish imkonini berishi mumkin bo'lgan texnologiyadir. Kommunikatsion texnologiyalar - tarmoqdagi kompyuterlar orasida axborotlarni uzatish uchun marshrutlash (xarakterlarni belgilash) va bog'lanishlarni kommutatsiya qilish vazifasini bajaradigan texnologiyalardir. Ta'lim tizimining axborot-kommunikatsiya texnologiyalari quyidagi asosiy funksiyalar va talablarni bajaradi:

- ta'lim oluvchilar va ularning axborot muhitidan foydalanish faoliyatlarini qayd etish;
- ta'lim beruvchi va ta'lim oluvchilarning faoliyatini maslahat yo'li bilan qo'llab-quvvatlashni hisobga olish;
- ta'lim oluvchilarga zaruriy o'quv materiallarini mustaqil o'zlashtirish uchun tavsiya qilish;

- o'quv jarayonida, ta'lim oluvchilar tomonidan o'zlashtirilgan bilim, ko'nikma va malakalarning test yordamida, shuningdek, og'zaki va yozma usuldagi nazoratini tashkil qilish;

- axborot bazasida ta'lim oluvchilarga tavsiya qilingan o'quv materiallaridan, qo'shimcha adabiyot va boshqa vositalardan foydalanishi uchun o'quv muassasasi axborot resurslaridan masofadan turib foydalanish imkonini yaratish;

- virtual laboratoriya mashg'ulotlari va amaliy topshiriqlarni bajarishda masofadan turib ta'lim muassasasi xodimlarining maslahati va boshqa yordamlarini uyushtirish va hokazo.

Integrasiyalashgan texnologiyalar asosida tashkil etiladigan o'quv jarayonida o'quv predmetlarining asosiy mazmuni quyidagi o'quv-uslubiy materiallardan iborat bo'ladi:

- elektron darsliklar, elektron o'quv qo'llanmalar, elektron metodik qo'llanmalar va boshqa qo'shimcha materiallar;

- elektron o'quv-uslubiy majmualar;

- o'zini o'zi nazorat qilish uchun test dasturlari va savollar majmuasi;

- virtual laboratoriya ishlari va ularning tavsifi;

- mustaqil ishlar va nazorat ishlari;

- hisoblash dasturlari, elektron ma'lumotnomalar, elektron ilovalar;

- qo'shimcha dasturiy ta'minotlar.

Integrasiyalashgan texnologiyalarning qo'llanilishi natijasida o'quv mashg'ulotlari masofadan turib tarmoq texnologiyalari imkoniyatlaridan foydalangan holda tashkil etishga olib keladi. Bu esa masofali o'qitishni tashkil etishning asosidir. Masofali o'qitishda tarmoq texnologiyalarining asosiy vazifasi o'quv jarayonida o'qituvchi va o'quvchi orasidagi muloqotni ta'minlashdan iborat. O'qituvchi va o'quvchilar orasidagi doimiy muloqotsiz tashkil qilingan o'quv jarayoni ko'zlangan samarani bermaydi. Ta'lim tizimining kunduzgi shaklida o'qituvchi va o'quvchi orasidagi muloqot bir vaqt, bir joyda o'quv auditoriyasida amalga oshiriladi. Masofali o'qitishda esa bu jarayon telekommunikatsion vositalar asosida kompyuterning tarmoq texnologiyalari orqali amalga oshiriladi.

Yuqorida ko'rib chiqilgan uchta texnologiyalarning integrasiyalashgan holati ta'lim berish va o'zlashtirishning eng maqbul texnologiyasi deb qarash mumkin. Pedagogik va axborot texnologiyalari imkoniyalaridan foydalangan holda ta'lim oluvchilar uchun axborot-ta'lim muhitini yaratib, kommunikatsiya texnologiyalari vositalari asosida ta'lim oluvchilarga yetkazib berish jarayonlari integrasiyalashgan texnologiyalarning asosiy vazifasi hisoblanadi.

Xulosa qilib aytganda, zamonaviy talab darajasida o'quv jarayonini tashkil etish, ta'lim mazmunlarini umumlashtirish va to'ldirishda integrasiyalashgan texnologiyalar alohida ahamiyat kasb etib, ko'zlangan maqsadga erishishni kafolatlashga yordam beradi.

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