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The main directions of socio-economic development of New Uzbekistan: problems and solutions

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The main directions of socio-economic development of New Uzbekistan: problems and solutions collection of materials of the international scientific and practical conference on the topic

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Department of Economics and tourism of Jizzakh branch of the National University of Uzbekistan named after Mirzo Ulugbek
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In the collection of materials of the conference, the role and role of Science, Education and production in the era of globalization, the pressing problems of the issues of interaction of these processes, feedback on their solutions were presented by mature specialists of the field.

In addition, research on the scientific and practical topic, carried out in the economics, Exact Sciences, Natural Sciences and socio-humanities during the globalization period, information is presented in the scientific and practical fields, which includes the latest innovative technologies in the fields of production.

It can be argued that this collection is one of the specific intersections of current thoughts and innovative ideas of the world of science. This scientific and practical conference was actively attended by professors and scientific researchers engaged in scientific research in Uzbekistan and foreign countries. In increasing the position of the scientific and practical conference, the professors and teachers of domestic and foreign higher educational institutions made a significant contribution.

Professors and teachers of foreign higher educational institutions who actively participated in the work of the conference made a worthy contribution to the high level of interaction with scientists of our country. The processes of international cooperation with foreign countries and exchange with them in the field of Science in the era of globalization have a positive effect on the development of Higher Education, the fields of Science and production. The materials of this conference are special in that they include a wide range of research, from theoretical developments to practical solutions, demonstrating the diversity of approaches and directions in this area.

In conclusion, it should be noted that this scientific and practical conference will be a very useful collection for everyone who is interested in modern research in the fields of further development of Higher Education, Science, Education and production in the era of globalization. The authors are responsible for the content and quality of the articles and abstracts included in the collection.

INNOVATSION TEXNOLOGIYALAR QURILISH VA ENERGETIKA SOHASIDA



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Annotatsiya: Ushbu maqola qurilish va energetika sohalarida innovatsion texnologiyalarning rivojlanishi va ularning amaliyotda qo‘llanilishi tahliliga bag‘ishlanadi. Maqolada innovatsion texnologiyalarni qo‘llashning istiqbollarini, shu jumladan, atrof-muhitni muhofaza qilish, iqtisodiy samaradorlikni oshirish va barqaror rivojlanishni ta'minlashdagi o‘rni haqida fikr yuritiladi. Maqola ushbu sohaga bog‘liq manbalar asosida yozildi va to‘liq muallif tomonidan yoritildi.

Kalit so‘zlar: qurilish, energetika, 3d, texnologiya, robototexnika, infratuzilma, innovatsion texnologiya, samaradorlik.

Kirish:

Qurilish va energetika sohalari jamiyat hayotining asosiy sektorlaridan hisoblanadi. Ushbu sohalarda innovatsion texnologiyalarni joriy etish nafaqat ishlab chiqarish jarayonlarini yaxshilash, balki atrof-muhitni muhofaza qilish, resurslarni tejash va energetik samaradorlikni oshirishda ham muhim rol o‘ynaydi. Qurilishda yangi materiallar, avtomatlashtirilgan tizimlar, raqamli texnologiyalar va robototexnikaning rivojlanishi, shu bilan birga, energetika sohasidagi qayta tiklanuvchi energiya manbalarining kengayishi va energiya saqlash tizimlarining takomillashuvi, sohaning istiqbollarini yangi darajaga olib chiqadi. Shu bilan birga, innovatsiyalarni amalga oshirishda yuzaga keladigan texnik, iqtisodiy va ekologik muammolarni hal etish zarurati mavjud. Maqolaning keying jabhalarida qurilish va energetika sohasidagi innovatsion texnologiyalar tahlil qilinadi, ularning amaliyotda qo‘llanishi va kelajakdagi istiqbollari haqida so‘z yuritiladi.

Qurilish va energetika sohalarida innovatsion texnologiyalarni joriy etish sohaning samaradorligini oshirish, ekologik ta'sirni kamaytirish va resurslarni tejashga yordam beradi. Qurilish sohasida yangi materiallar, 3D bosish texnologiyalari, robototexnika va Internet of Things (IoT) kabi innovatsiyalar jarayonlarni sezilarli darajada yaxshilamoqda. Yangi qurilish materiallari, masalan, yuqori kuchlanishga chidamli betonlar va ekologik toza materiallar, binolarda energiya tejash imkoniyatlarini yaratadi. 3D bosish texnologiyalari esa inshootlarni tez va samarali qurish imkonini beradi, shu bilan birga materiallarni tejashga yordam beradi. Robototexnika yordamida qurilish jarayonlarini avtomatlashtirish va xavfsizlikni oshirish mumkin. IoT texnologiyalari esa qurilish binolarida energiya sarfini optimallashtirish va binoning holatini real vaqt rejimida kuzatish imkonini beradi.

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Energetika sohasida esa qayta tiklanuvchi energiya manbalaridan foydalanish, energiya saqlash texnologiyalari va sun'iy intellekt (AI) yordamida energiya taqsimotini boshqarishning yangi usullari rivojlanmoqda. Quyosh va shamol energiyasidan foydalanish, global energiya ishlab chiqarish tizimining asosiy yo‘nalishlariga aylangan. Shu bilan birga, energiya saqlash texnologiyalari, masalan, akkumulyatorlar, qayta tiklanuvchi energiya manbalaridan olingan ortiqcha energiyani saqlash va zarur bo‘lganda foydalanish imkoniyatini yaratadi. Sun'iy intellekt texnologiyalari energiya tizimlarining samaradorligini oshirishga yordam beradi, energiya taqsimotini optimallashtirish va energiya iste'molchilarining ehtiyojlarini prognozlashda qo‘llaniladi.

Biroq, innovatsion texnologiyalarni joriy etishda bir qator qiyinchiliklar ham mavjud. Yangi texnologiyalarni amalga oshirish uchun katta miqdorda dastlabki investitsiyalar, texnologik infratuzilma va me'yoriy hujjatlar talab etiladi. Shuningdek, ijtimoiy tayyorgarlik va texnologiyalarga bo‘lgan ishonch ham muhim ahamiyatga ega. Innovatsiyalarni keng joriy etish barqaror rivojlanishga, atrof-muhitni muhofaza qilish va resurslarni tejashga qaratilgan global tendentsiyalar bilan uyg‘un ravishda amalga oshirilsa, ular ijtimoiy va iqtisodiy jihatdan ham samarali bo‘ladi.

Xulosa

Xulosa qilib aytganda, qurilish va energetika sohalaridagi innovatsion texnologiyalar, ularning samarali joriy etilishi natijasida, jamiyatda yuqori sifatli infratuzilma yaratish, energiya samaradorligini oshirish va ekologik izni kamaytirish imkoniyatlarini beradi. Biroq, bu jarayonning muvaffaqiyatli bo‘lishi uchun zarur infratuzilma, huquqiy asoslar va jamiyatning tayyorligi muhim omillardir.

Foydalanilgan adabiyotlar

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