

# MUHANDISLIK

## & IQTISODIYOT

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ijtimoiy-iqtisodiy, innovatsion texnik,  
fan va ta'limga oid ilmiy-amaliy jurnal

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# **muhandislik** **& iqtisodiyot**

ijtimoiy-iqtisodiy, innovatsion texnik,  
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- 05.01.02 – Tizimli tahlil, boshqaruv va axborotni qayta ishlash
- 05.01.03 – Informatikaning nazariy asoslari
- 05.01.04 – Hisoblash mashinalari, majmualari va kompyuter tarmoqlarining matematik va dasturiy ta'minoti
- 05.01.05 – Axborotlarni himoyalash usullari va tizimlari. Axborot xavfsizligi
- 05.01.06 – Hisoblash texnikasi va boshqaruv tizimlarining elementlari va qurilmalari
- 05.01.07 – Matematik modellashtirish
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- 05.08.03 – Temir yo'l transportini ishlatish
- 05.08.06 – "G'ildirakli va gusenisali mashinalar va ularni ishlatish" (texnika fanlari)
- 05.09.01 – Qurilish konstruksiyalari, bino va inshootlar
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- 10.00.06 – Qiyosiy adabiyotshunoslik, chog'ishtirma tilshunoslik va tarjimashunoslik
- 10.00.04 – Yevropa, Amerika va Avstraliya xalqlari tili va adabiyoti
- 08.00.01 – Iqtisodiyot nazariyasi
- 08.00.02 – Makroiqtisodiyot
- 08.00.03 – Sanoat iqtisodiyoti
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- 08.00.11 – Marketing
- 08.00.12 – Mintaqaviy iqtisodiyot
- 08.00.13 – Menejment
- 08.00.14 – Iqtisodiyotda axborot tizimlari va texnologiyalari
- 08.00.15 – Tadbirkorlik va kichik biznes iqtisodiyoti
- 08.00.16 – Raqamli iqtisodiyot va xalqaro raqamli integratsiya
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# MUNDARIJA

KORXONALARDA ICHKI AUDIT TIZIMINING BOSHQARUV QARORLARI QABUL QILISHDAGI O'RNINI .....	24
<b>Mexmonaliyev Ulug'bek Erkinjon o'g'li</b>	
FISKAL SIYOSAT SAMARADORLIGI VA SOLIQ TUSHUMLARI DINAMIKASI: O'ZBEKISTON MISOLIDA ILMIY TAHLIL .....	30
<b>Abduraimova Nigora Abdugapparovna</b>	
YASHIRIN IQTISODIYOTNI KELTIRIB CHIQUARUVCHI ASOSIY OMILLAR HAMDA IQTISODIYOTGA TA'SIRI .....	37
<b>Toxtabayev Oybek Odilovich</b>	
QISHLOQ XO'JALIGI OZIQ-OVQAT SANOATI KORXONALARIDA ZAMONAVIY BOSHQARUV .....	42
<b>Rasulova Muxabbat Teshabayevna, Normurodov Sarvar Norboy o'g'li</b>	
O'ZBEKISTON GLOBAL-IQTISODIY RAQOBATBARDOSHLIGINI OSHIRISHDA RAQAMLI IQTISODIYOTNING O'RNINI .....	48
<b>Kuvatova Oliya Sheraliyevna</b>	
QURILISH SANOATIDA KICHIK BIZNES SUBYEKTLARINING IQTISODIY MOHIYATI VA ULARNI KAPITAL BOZORI INSTRUMENTLARI ORQALI MOLIALASHTIRISH IMKONIYATLARI.....	54
<b>Igitov Jurabek Kuzibekovich</b>	
IQTISODIY ISLOHOTLAR DAVRIDA TIJORAT BANKLARINING INVESTITSIYA FAOLIYATINI RIVOJLANTIRISHNING OMILLARI .....	61
<b>Yangiboyev F.B.</b>	
TIJORAT BANKLARIDA MUAMMOLI KREDITLARNI ERTA ANIQLASH VA BOSHQARISHNING INTEGRATSIYALASHGAN RISK-INDEKS MODELINI .....	68
<b>Kalandarov Abdulla Baxtiyorovich, Rajabov Shoxrux Suvon o'g'li</b>	
RUX VA QO'RG'OSHINNI SELEKTIV AJRATIB OLISHNI KOMBINATSIYALASH TEXNOLOGIYASI VA NAZARIYASI.....	74
<b>Eshonqulov Uchqun Xudaynazar o'g'li, Haqberdiyev Dilshod Qodir o'g'li</b>	
UY-JOY QURILISHI HAJMINI UZOQ MUDDATLI PROGNOZLASHDA EKONOMETRIK MODELLASHTIRISH USULLARINI TAKOMILLASHTIRISH .....	81
<b>Qidirniyazov Ajiniyaz Sherniyazovich</b>	
O'ZBEKISTONDA BOG'DORCHILIKNI RIVOJLANTIRISHDA IQLIM VA TABIIY OFATLAR NATIJASIDA YETKAZILDAN TALOFATLARNI DAVLAT TOMONIDAN KOMPENSATSIYA QILISH MEKANIZMI.....	85
<b>Sattorov Orifjon Boymurodovich</b>	
AHOLI MOLIVAVIY SAVODXONLIGINI OSHIRISH ORQALI YASHIRIN IQTISODIYOTNI QISQARTIRISH MEKANIZMLARI.....	90
<b>Abdug'aniyev Uchqun Habibulla o'g'li</b>	
O'ZBEKISTON QURILISH SANOATIDA KICHIK BIZNES SUBYEKTLARINING RIVOJLANISH DINAMIKASI VA TENDENSIYALARI .....	96
<b>Musaeva Aynura Abayxolievna</b>	
THEORETICAL AND METHODOLOGICAL FOUNDATIONS OF SOCIAL INFRASTRUCTURE TRANSFORMATION IN THE CONTEMPORARY ENVIRONMENT.....	104
<b>Normurodov Khusan Eshmakhmatovich</b>	
AKSIYADORLIK JAMIYATLARINING INVESTITSION FAOLLIGINI BAHOLASH YO'LLARI .....	108
<b>Begamov S.X.</b>	
DEBITORLIK QARZLARINING STRATEGIK BOSHQARUV HISOBINI TASHKIL QILISH YO'NALISHLARI .....	112
<b>Normatova Gulmira Xayrullaevna</b>	



SOLIQLARNI PROGNOZLASH METODOLOGIYASINI TAKOMILLASHTIRISH AMALIYOTI TAHLILI.....	118
<b>Ergashov Jamshid Ashurovich</b>	
MEHNAT XARAJATLARI HISOB: NAZARIY ASOSLAR, USULLAR VA BOSHQARUVDA AHAMIYATI.....	126
<b>Tulyaganov Abdumalik Abdiraximovich</b>	
KORPORATIV XIZMATLARNING BANK FOYDASIGA TA'SIRI: KOMISSION VA FOIZLI DAROMADLAR TAHLILI .....	131
<b>Qurbonov Abror Abdullayevich</b>	
TIJORAT BANKLARIDA MUAMMOLI KREDITLARNI BOSHQARISH TIZIMINI TAKOMILLASHTIRISHNING INSTITUTSIONAL VA TASHKILY MEXANIZMLARI.....	136
<b>Djamalov G'ofir Oribjanovich</b>	
OCHIQLIK INDEKSI VA KORRUPSIYAGA QARSHI KURASH SAMARADORLIGI: O'ZBEKISTON TAJRIBASINING INSTITUTSIONAL TAHLILI .....	144
<b>Diilshod Pulatov, Uchqun Abdug'aniyev</b>	
DUNYO SUG'URTA KOMPANIYALARINING MOLIVAVIY HOLATI VA NATIJALARI TAHLILI.....	153
<b>Alimov Baxodir Batirovich</b>	
QISHLOQ HUDUDLARIDA XIZMAT KO'RSATISH SAMARADORLIGINI OSHIRISH IMKONIYATLARI.....	160
<b>Yuldashova Nilufar Ziyabayevna</b>	
QURILISH TASHKILOTLARIDA BOSHQARUV SAMARADORLIGINI OSHIRISHNING INNOVATSION USULLARI .....	164
<b>Muxibova Guli Yarkinovna, Sharifxodjayeva Odina Ulug'bek qizi</b>	
AXBOROT-RESURS MARKAZLARINING TA'LIM JARAYONIGA TA'SIRINI BAHOLASH.....	168
<b>Pirmedova Xayitgul Muxammedovna</b>	
IJTIMOYIY HIMOYA QAMROVINI KENGAYTIRISH MEXANIZMLARI: XALQARO TAJRIBA VA INSTITUSIONAL YONDASHUVLAR.....	173
<b>Bafoyev Farrux Jo'raqulovich</b>	
KORXONALARDA AI-DRIVEN "DECISION SUPPORT SYSTEMS" (DSS)NI JORIY ETISHNING KONSEPTUAL ASOSLARI .....	181
<b>Mardanova Ra'no</b>	
STRENGTHENING THE FINANCING OF FAMILY-OWNED ENTERPRISES IN UZBEKISTAN THROUGH BANK CREDIT .....	186
<b>Baymuratova Zina Aqilbekovna, Ibadullaeva Asal Ulugbek qizi</b>	
SUN'IY INTELLEKT ASOSIDA DAVLAT BOSHQARUV TIZIMLARINI RAQAMLASHTIRISH .....	192
<b>Aytmuratov Qutlimurat Jalgasovich</b>	
ATTRACTING INVESTMENTS FROM FINANCIAL MARKETS AND FACTORS INFLUENCING THE INCREASE OF THEIR ATTRACTIVENESS .....	196
<b>Kholov Sherali Akhrorboyevich</b>	
MARKAZIY OSIYODA TRANSCHEGARAVIY SUV RESURSLARINI BOSHQARISH VA ADOLATLI TAQSIMLASHNING NAZARIY-HUQUQIY ASOSLARI.....	200
<b>Matkarimov Mansur</b>	
XALQARO XIZMATLAR SAVDOSIDA TIBBIY TURIZMNING IQTISODIY AHAMIYATI.....	206
<b>Farxodova Shohnoz Umidbek qizi</b>	
BANK XIZMATLARI SIFATINI BAHOLASHNING KO'P OMILLI INDIKATORLARI TIZIMI .....	213
<b>Ibroximov Iloxomjon Shavkatjon o'g'li</b>	
SANOAT KORXONALARINI IQTISODIY FAOLIYATINI OPTIMALLASHTIRISH YO'LLARI .....	219
<b>Tillayeva Barno Ramiztdinovna</b>	
NOTIJORAT TASHKILOTLAR FAOLIYATIDA AUDITORLIK TEKSHIRUVI VA AUDITORLIK HISOBOTLARINING O'ZIGA XOSLIGI.....	224
<b>Xolmirzayev Ulug'bek Abdulazizovich, Ubaydullayev Toxirjon Abdullajanovich</b>	



ЦИФРОВЫЕ ИНСТРУМЕНТЫ РЕИНТЕГРАЦИИ ВОЗВРАЩАЮЩИХСЯ ТРУДОВЫХ МИГРАНТОВ: МЕЖДУНАРОДНАЯ ПРАКТИКА И ВОЗМОЖНОСТИ ДЛЯ КЫРГЫЗСТАНА.....	230
<i>Амантурова Дилбара Кыдыкбековна</i>	
РОЛЬ ПРОФЕССИОНАЛЬНО-ОРИЕНТИРОВАННОЙ ЛЕКСИКИ В ЯЗЫКОВОЙ ПОДГОТОВКЕ ИНОСТРАННЫХ СТУДЕНТОВ ТЕХНИЧЕСКОГО ПРОФИЛЯ.....	237
<i>Асрарова М.У.</i>	
О СКОРИНГОВЫХ МЕТОДАХ ЭКСПРЕСС-АНАЛИЗА ДОХОДНОСТИ АКЦИЙ УЗБЕКСКИХ ЭМИТЕНТОВ.....	242
<i>Ирмухамедова Муслима Дилшодовна</i>	
UY-JOY QURILISHIDA ESKROU MEKANIZMLARINI JORIY ETISH ORQALI INVESTITSION XAVFSIZLIK VA MOLIVAVIY SHAFFOFLIKNI TA'MINLASH .....	247
<i>Karimov Inomjon Ortikbaevich</i>	
YASHIL IQTISODIYOT SHAROITIDA KICHIK BIZNESNING RAQOBATBARDOSHLIGINI OSHIRISH MASALALARI .....	254
<i>Kamoliddinov Ilhomjon Muxammadjonovich, Kobilov Murod Vakkosovich</i>	
TIJORAT BANKLARI RAQOBATBARDOSHLIGINING MOLIVAVIY BARQARORLIK KO'RSATKICHLARIGA TA'SIRINI BAHOLASH.....	259
<i>Axmedov Toxirjon Xasanjon o'g'li</i>	
SANOAT KORXONALARI IQTISODIY XAVFSIZLIGINI TA'MINLASHDA ENERGETIKA VA ISHLAB CHIQRISH SALOHİYATINING ROLI .....	264
<i>Tursunxo'jayev Sardor Jamoliddin o'g'li</i>	
TIJORAT BANKLARIDA KOMPLAENS-NAZORAT TIZIMI ORQALI RISKLARNI SAMARALI BOSHQARISH .....	270
<i>Fayziyev Sherzod Djunaydilloyevich</i>	
СОВЕРШЕНСТВОВАНИЕ УПРАВЛЕНИЯ БАНКОВСКИМИ РИСКАМИ И СТРАХОВАНИЯ ФИНАНСОВЫХ ОПЕРАЦИЙ В УСЛОВИЯХ РАЗВИТИЯ ДИСТАНЦИОННОГО БАНКИНГА В ХОРЕЗМСКОЙ ОБЛАСТИ.....	275
<i>Бахтиёров Худайберган Хамдам угли</i>	
DOIMIY BO'LMAGAN KUCH TA'SIRIDA DEFORMATSIYALANUVCHAN STANDART CHIZIQLI QATTIQ MODEL ISHLAB CHIQRISH VA SONLI TAHLIL QILISH.....	282
<i>Ahmadov Ilhom Aktam o'g'li, Isomova Sabohat Islom qizi</i>	
YOUTH ENTREPRENEURSHIP AS A FACTOR OF STRUCTURAL ECONOMIC TRANSFORMATION IN UZBEKISTAN.....	290
<i>Isakjanova Saboxat Muhamedovna</i>	
МОДЕЛИРОВАНИЕ САМОВОЗБУЖДЕНИЕ НЕЯВНОПОЛЮСНОГО СИНХРОННОГО ГЕНЕРАТОРА ПРОДОЛЬНО-ПОПЕРЕЧНОГО ВОЗБУЖДЕНИЯ .....	298
<i>Пирматов Нурали Бердиёрович, Бекишев Аллаберген Ергашевич, Бердиёров Улугбек Нурали угли, Бердиёров Улмасбек Нурали угли</i>	
YURTIMIZDAGI EKOLOGIK SOF YOG'OCH MATERIALLARIDAN TAYYORLANGAN ORAYOPMA KONSTRUKSIYALARINING CHO'ZILISHGA QARSHILIGI .....	305
<i>Yunusaliyev Elmurod Muhammadyaqubovich, Toshpulatov Ilhomjon Baxtiyorovich</i>	
AYDAR-ARNASOY KO'LLAR TIZIMINING SHAKLLANISH BOSQICHLARI VA ZAMONAVIY EKOLOGIK MUAMMOLARI .....	311
<i>Aminov Hamza Husanovich, Madrimov Rajabboy Masharipovich, Xamdullayeva Aziza Baxtiyor qizi</i>	
EXPLAINABLE AI YORDAMIDA SOC UCHUN TUSHUNTIRILADIGAN KIBERXAVF ANIQLASH TIZIMINI ISHLAB CHIQRISH .....	318
<i>N.N. Jo'rayev, A.Sh. Juraboyev</i>	
QUYOSH FOTOELEKTRIK MODULLARINI SUV YORDAMIDA TOZALASH VA SOVITISH USULLARI TAHLILI .....	324
<i>Ibragimov Umidjon Hikmatullayevich, Qodirov Jobir Ro'zimatovich, Izomov Shahzod Niyoz o'g'li, To'ymurodov Quvonchbek Sherzod o'g'li</i>	



RAQAMLI TEXNOLOGIYALARNING QURILISH SOHASIGA INTEGRATSIYASI: ILG'OR XALQARO TAJRIBA .....	332
<i>Fayziyeva Gulnoza Abdurahmonovna</i>	
ФАКТОРЫ НАЛОГОВОЙ КУЛЬТУРЫ И ИХ ВЛИЯНИЕ НА СОБИРАЕМОСТЬ НАЛОГОВ: СОЦИОЛОГИЧЕСКИЙ И ЭКОНОМИЧЕСКИЙ АНАЛИЗ .....	339
<i>Хакимова Ситора Ильёсжон кизи, Муталова Дилором Махамаджановна</i>	
ИННОВАЦИОННЫЕ МЕТОДЫ ЭКСПЕРТНОГО ПРОГНОЗИРОВАНИЯ КОМПЕТЕНЦИЙ В ЦИФРОВОЙ ЭКОНОМИКЕ .....	345
<i>Л.А. Кадырова, Б. Н. Эгамов</i>	
О'ЗБЕКISTON RESPUBLIKASIDA SUG'URTA BOZORINING TUZILISHI TAHLILI .....	350
<i>G'oziyeva Aziza Abdusalomovna</i>	
MINTAQALARDA INNOVATSION FAOLIYATNI MOLIYALASHTIRISH MANBALARINI DIVERSIFIKATSIYA QILISH MASALALARI .....	358
<i>Хамраев Quvvat Iskandarovich</i>	
KONTEYNERLI TASHUVLARNING JORIY HOLATI, MAVJUD MUAMMOLAR VA RIVOJLANTIRISH ISTIQBOLLARI .....	366
<i>Samatov G'affor Alloqulovich, Xolmatov Bekzod Nurmatovich, Toxirov Maxmudjon Murodjon o'g'li, Absattarov Isomiddin Xotam o'g'li</i>	
KICHIK BIZNES KORXONALARIDA ISHLAB CHIQRISH OMILLARI BO'YICHA NOMUVOFIQLIKNI ANIQLASH VA BARTARAF ETISH MEXANIZMI .....	381
<i>Kaypnazarova Gulshad Xojamuratovna</i>	
TASHQI SAVDO BALANSINI MUVOZANATLASHTIRISH: NAZARIY VA AMALIY JIHATLAR .....	386
<i>Rahimov Eshmurod Normurodovich, Misliiddinov Ikromjon Kamoliddin o'g'li</i>	
SIFATLI TIBBIY XIZMAT KO'RSATISH VA AHOLIGA QAMROVNI TA'MINLASHDA BOSHQARUV QARORLARINING AHAMIYATI .....	391
<i>Satvoldiyev Ulugbek Kamilovich</i>	
SUN'IY INTELLEKT TIZIMLARIDA GIPERPARAMETRLARNI MATEMATIK OPTIMALLASHTIRISH USULLARI .....	396
<i>Husan Arziqulov Normurod o'g'li</i>	
ENHANCING THE SERVICE SECTOR AS A MEANS OF CREATING EMPLOYMENT IN TOURISM INFRASTRUCTURE .....	401
<i>Zarikeev Rasul Polatovich</i>	
EXPANDING BANK CREDIT OPPORTUNITIES FOR FAMILY-OWNED ENTERPRISES IN UZBEKISTAN .....	406
<i>Isakov Janabay Yakipbaevich</i>	
BANKS' BROKERAGE AND ADVISORY SERVICES IN FACILITATING SECURITIES TRANSACTIONS AND IMPROVING MARKET LIQUIDITY .....	412
<i>Isakov Isobek Janabay uli</i>	
АКТУАЛЬНЫЕ ПРОБЛЕМЫ РАЗВИТИЯ МЕХАНИЗМОВ ФИНАНСИРОВАНИЯ ВНЕШНЕЙ ТОРГОВЛИ .....	416
<i>Ибрагимов Мансур Ахметович</i>	
ОПТИМИЗАЦИЯ ДЕЯТЕЛЬНОСТИ ЛОГИСТИЧЕСКИХ ПРОВАЙДЕРОВ В УСЛОВИЯХ ПОСТРОЕНИЯ НОВЫХ ЦЕПЕЙ ПОСТАВОК .....	421
<i>Маннапова Феруза Фахриддин кызы</i>	
О'ЗБЕКISTON RESPUBLIKASIDA ISLOM MOLIYASINI HUQUQIY TARTIBGA SOLISH VA INSTITUSIONAL ASOSLARINI TAKOMILLASHTIRISH MASALALARI .....	428
<i>Isroilov Obid Olimjonovich</i>	
OZIQ-OVQAT BOZORI KON'YUNKTURASINI BAHOLASHDA KO'P OMILLI REGRESSIYA MODELINING SAMARADORLIGI .....	433
<i>Abduraxmonov Adxamjon Sultonboyevich</i>	



AHOLI TURMUSH TARZINI YAXSHILASHNING ISTIQBOLLARI.....	438
<b>Djuraeva Didora Sobirjonovna</b>	
ZAMONAVIY MOLIYAVIY INFRATUZILMANING INSTITUSIONAL ASOSLARI: TO'LOV TIZIMLARI NAZARIYASI VA O'ZBEKISTON AMALIYOTI .....	441
<b>Toshniyozov Sherali Kamoliddinovich</b>	
XIZMAT KO'RSATISH KORXONALARIDA RAQAMLI MENEJMENT VA SUN'IY INTELLEKT ASOSIDA STRATEGIK BOSHQARUVNI TAKOMILLASHTIRISH .....	449
<b>Zayavitdinova Nafisa Muxammadovna</b>	
CORPORATE GOVERNANCE, FDI, AND URBANIZATION IN THE GREEN ECONOMIC TRANSFORMATION OF UZBEKISTAN .....	454
<b>Ablaeva Valentina</b>	
FEMALE ENTREPRENEURSHIP AND MICRO-ENTERPRISE DEVELOPMENT .....	460
<b>Dilafroz Kuchkorova</b>	
LEGIRLANGAN PO'LATLARDAN TAYYORLANGAN PROKATLASH JO'VALARINI CHIDAMLILIGINI OSHIRISH UCHUN TERMIK PUXTALASH TEXNOLOGIYALARINI TAKOMILLASHTIRISH.....	466
<b>Saydumarov Botir Muradovich, Berdiyev Darob Murotovich, Tashmatov Ravshan Qobilovich</b>	
SHAMOL TURBINASINING IKKI TOMONLAMA TA'MINLANADIGAN ASINXRON GENERATORI O'TKINCHI JARAYONLARINING TAHLILI .....	471
<b>Bekishev Allabergen Yergashevich, Kurbonov Najmiddin Abduxamidovich, Yunusov Obidxon Abdivait o'g'li, Jo'rayev Doston Majid o'g'li</b>	
TIJORAT BANKLAR FAOLIYATI SAMARADORLIGINI OSHIRISHGA TA'SIR QILUVCHI OMILLAR TAHLILI.....	479
<b>Babaxanova Dildora Rustamovna</b>	
RAQOBAT USTUNLIGIGA ERISHISHDA ZAMONAVIY MARKETING TEXNOLOGIYALARINI QO'LLASH .....	485
<b>Meliqulov Abduhalil Norinovich</b>	
JAMOAT AHAMIYATIGA EGA TASHKILOTLAR TOIFASIGA KIRITISH MEZONLARI, ULARNING MOLIYAVIY HISOBOTLARI VA AUDITIGA QO'YILADIGAN TALABLAR.....	490
<b>Shodiyev Murodjon Bakirovich</b>	
EFFICIENCY OF IMPROVING THE IT SERVICES EXPORT .....	494
<b>Uzakov Ortik Shaymardanovich</b>	
CHORVACHILIKDA ILK VETERINARIYA XIZMATI TARIXI: QADIMGI O'ZBEKISTON MISOLIDA.....	499
<b>Sayfudinova Djamila Badridinovna</b>	
AHOLINI IJTIMOYIY HIMOYALASH TIZIMINI BOSHQARISHGA BAG'ISHLANGAN DASTLABKI ILMIY QARASHLARNING SHAKLLANISHI VA ULARNING TAHLILI .....	503
<b>Xamroyev Anvar Ashurovich</b>	
AHOLINING MOLIYAVIY SAVODXONLIGINI RIVOJLANTIRISH OMILLARI HAMDA MOLIYAVIY TEXNOLOGIYALARDAN FOYDALANISHNING IQTISODIY AFZALLIKLARI.....	508
<b>A.A.Abdvoxidov</b>	
NODAVLAT OLIY TA'LIM MUASSASALARINING MOLIYAVIY HOLATINI KOMPLEKS BAHOLASH VA IQTISODIY SAMARADORLIGINI TAHLIL QILISH .....	518
<b>Turmanqulov Norpo'lat Sa'dullayevich</b>	
PERFORMANCE APPRAISAL FAIRNESS AND EMPLOYEE OUTCOMES IN UZBEKISTAN'S EDUCATIONAL INSTITUTIONS: A QUANTITATIVE INVESTIGATION .....	525
<b>Farida Nishanova</b>	
SANOAT KORXONALARIDA SIFAT BOSHQARUVI TIZIMLARINING ISHLAB CHIQRISH JARAYONIGA TA'SIRI .....	535
<b>O'.M. Baytanov</b>	



DIGITAL METHODS FOR MONITORING HAND HYGIENE AND AUTOMATIC NAIL SEGMENTATION USING COMPUTER VISION TECHNOLOGIES .....	540
<i>Shavkat Shukhratovich Azimov, Temurbek Zokir Ugli Daminov, Durdona Nurjonovna Rasulova, Dilorom Umrzakovna Nalibaeva</i>	
MATLAB-BASED OPTIMIZATION OF METHANE FEED INTAKE IN A GTL PLANT FOR SYNTHETIC FUEL PRODUCTION.....	545
<i>U.T. Beshimov, U.R. Azamatov, A.G. Makhsumov, E.E. Mashaev</i>	
НЕОБХОДИМОСТЬ ОБЕСПЕЧЕНИЯ ОПТИМАЛЬНОГО ИНВЕСТИЦИОННОГО ВЛОЖЕНИЯ В СОЦИАЛЬНО-ЗНАЧИМЫХ ИННОВАЦИОННЫХ ПРЕДПРИЯТИЯХ .....	554
<i>Зайналов Ж.П., Абдуллаева С.Ш., Нурмухамедов А.М.</i>	
INFORMATIKA FANINI O'QITISHDA ONLAYN TEST VA AVTOMATIK BAHOLASH TIZIMLARI: INNOVATSION METODLAR, ZAMONAVIY YONDASHUVLAR VA DOLZARB MUAMMOLAR TAHLILI.....	561
<i>Nasriddinov Zaynobbiddin Xusniddin o'g'li, Sayidov Nozimjon Abdulnosirovich</i>	
SERVOMOTORLARNING XARAKTERISTIKALARI .....	565
<i>Pirmatov Nurali Berdiyarovich, Egamov Akmal Mamarasulovich, Mamarasulov Nodir Akmal o'g'li</i>	
XIZMAT KO'RSATISH SOHASINI BOSHQARISHNING TASHKILY-IQTISODIY MEXANIZMLARINI TAKOMILLASHTIRISH.....	572
<i>O'rinov Komiljon Kozimovich</i>	
MAISHIY XIZMAT KO'RSATISHDA SIFAT NAZORATINI OSHIRISHNI RAQAMLASHTIRISH YO'LLARI.....	576
<i>Meliyev X.T.</i>	
INVESTIGATION OF THE EFFICIENCY OF FATS AND OILS REMOVAL FROM WASTEWATER GENERATED BY PUBLIC CATERING ENTERPRISES .....	585
<i>Durdona Obutjonova, Xayrullo Ibroximov, Ahmadjon Ibadullaev, Umar Chorshanbiev, Babaev Askar</i>	
INSON KAPITALINING IQTISODIY MAZMUNI, UNI MOLIALASHTIRISH MEXANIZMLARI VA O'ZBEKISTONDA RIVOJLANTIRISH ISTIQBOLLARI .....	591
<i>Ismailova Gulruh Faxriddinovna</i>	
HUDUDLARDA MOLIVAVIY INKLYUZIVLIKNI RIVOJLANTIRISH VA AHOLINING MOLIVAVIY SAVODXONLIGINI OSHIRISH MUAMMOLARI.....	596
<i>Azlarova Mushtariybegim Abror qizi</i>	
NORASMIY BANDLIK VA DAROMADLARNI SOLIQQA TORTISHDA SOLIQ IMTIYOZLARIDAN FOYDALANISH TAHLILI .....	600
<i>Bozorova Ozoda Raximovna</i>	
DAVLAT KORXONALARINI OMMAVIY JOYLASHTIRISH (IPO) ORQALI XUSUSIYLASHTIRISHNING DOLZARB MASALALARI VA ULARNI TAKOMILLASHTIRISH YO'NALISHLARI ("UZAUTO MOTORS" VA "O'ZBEKTELEKOM" AJ MISOLIDA).....	605
<i>Razikov Ulug'bek Zaripovich</i>	
QURILISHDA INNOVATSION FAOLIYAT TUSHUNCHASI VA TURLARI .....	611
<i>B.K.Abdusamatov, I.A.Yusupov</i>	
ИССЛЕДОВАНИЕ МЕТОДОВ ЗАКРЕПЛЕНИЯ ПОДВИЖНЫХ ПЕСКОВ И ЭФФЕКТИВНОСТИ ЗАЩИТНЫХ ЛЕСНЫХ ПОЛОС ВДОЛЬ ЖЕЛЕЗНЫХ ДОРОГ .....	615
<i>Лесов Кувандык Сагинович, Хуршида Абдимуминовна</i>	
SURXONDARYO VILOYATI TUMANLARIDA INVESTITSIYA MUHITINI YAXSHILASH OMILLARI.....	621
<i>Qosimova Nodira Saidovna</i>	
QISHLOQ XO'JALIGI ISHLAB CHIQRISH XARAJATLARINI OPTIMALLASHTIRISH VA RENTABELLIKNI OSHIRISH STRATEGIYALARI (ANDIJON VILOYATI MISOLIDA).....	627
<i>Sanjarbek Sotvoldiyev Dilshodbek o'g'li, Qodirov Zohidjon Eraliyevich</i>	



YIRIK KORXONALARDA SOLIQ NAZORATI TEKSHIRUVLARIGA OID ILMIY TALQINLARNING TAHLILI.....	632
<b>Qo'shaqov Asrorjon Nematjonovich</b>	
QUYOSH ISSIQXONALARIDA QUYOSH ENERGETIK QURILMALARIDAN FOYDALANISH USULLARI VA TEXNIK YECHIMLARI .....	640
<b>Komilova Nodira Abdirahmon qizi</b>	
IT-KORXONALARIDA INVESTITSIYA VA EKSPORTNI RIVOJLANTIRISH YO'NALISHLARI TAHLILI.....	648
<b>Uzaqov Ortik Shaymardanovich</b>	
O'ZBEKISTON IQTISODIY RIVOJLANISHIDA XALQARO MOLIYA INSTITUTLARI ISHTIROKIDA AMALGA OSHIRILAYOTGAN LOYIHALAR TAHLILI .....	655
<b>Rasulova Dilfuza Valiyevna</b>	
СТРУКТУРНЫЕ ОСОБЕННОСТИ И ФАКТОРЫ КОНКУРЕНТОСПОСОБНОСТИ ПОДОТРАСЛЕЙ ПИЩЕВОЙ ПРОМЫШЛЕННОСТИ УЗБЕКИСТАНА.....	666
<b>Уролова Севара Бехзод кизи</b>	
MAHALLIY BUDJETLARNI SHAKLLANTIRISH VA TAQSIMLASH JARAYONIDA FUQAROLAR ISHTIROKI: SO'ROVNOMA NATIJALARI ASOSIDA TAHLIL .....	672
<b>Shukurova Parizod, Soatova Nodira Boboxonovna</b>	
TRANSPORT SOHASIDA DASTURIY BUDJETLASHTIRISH: XORIJIY TAJRIBA.....	677
<b>Mirzayeva Dildora Inomovna, Alijonov Ahadjon Hasanboy o'g'li</b>	
BOSHQARUV ETIKASINING ZAMONAVIY BIZNESDA TUTGAN O'RNI VA RIVOJLANISH YO'NALISHLARI .....	686
<b>Suyunov Dilmurod Xolmurodovich, Qodirov Tuyg'un Uzoqovich</b>	
XIZMAT KO'RSATISH SOHASIDA KICHIK BIZNES VA XUSUSIY TADBIRKORLIK INFRATUZILMASINI RIVOJLANTIRISHDA RAQAMLI INNOVATSION-TEKNOLOGIYALARNI QO'LLASH YO'NALISHLARI .....	694
<b>Sh.A.Sultonov</b>	
MINTAQAVIY INVESTITSION SIYOSATNI TAKOMILLASHTIRISHDA DAVLAT-XUSUSIY SHERIKLIK MODELLARINING ROLI .....	700
<b>Qobilov Anvar Eshpo'latovich</b>	
MASHINASOZLIKDA DETALLARNI SARALAB YIG'ISHNING AFZALLIGI VA AHAMIYATI .....	705
<b>Baxramov Faxridin Xuzriddinovich, Abdixamidov Nurbek Ural o'g'li, Abdullayev Djura Xudoyorovich</b>	
ТРАНСФОРМАЦИЯ МЕХАНИЗМОВ НАЛОГООБЛОЖЕНИЯ СТРОИТЕЛЬНЫХ ОРГАНИЗАЦИЙ УЗБЕКИСТАНА В УСЛОВИЯХ ВНЕДРЕНИЯ СИСТЕМЫ ЭСКРОУ-СЧЕТОВ .....	712
<b>Жаксымуратов Казбек Раджович</b>	
O'ZBEKISTON IQTISODIYOTIDA KICHIK BIZNES VA TADBIRKORLIKNING RIVOJLANISH TENDENSIYALARI .....	717
<b>Nurullayev Baxrom Botirovich</b>	
XIZMATLAR SOHASI RIVOJIDA DAROMADLARNING INKLYUZIV O'SISHI, KAMBAG'ALLIK DARAJASI TUSHISHINING MUHIM OMILIDIR.....	724
<b>Saparov Murod Irgashovich</b>	
BOZOR MUNOSABATLARI RIVOJLANISHI SHAROITIDA SOLIQ TIZIMINING DOLZARB MASALALARI.....	728
<b>Umurzak Rajabov</b>	
TIJORAT BANKLARIDA RESURS BAZASI SHAKLLANISHINING RIVOJLANISH TENDENSIYALARI .....	734
<b>Bolibekov Shahboz Baxodir o'g'li</b>	
OLIY TA'LIM VA ISHLAB CHIQARISH KORXONALARI O'RTASIDAGI INNOVATSION HAMKORLIK .....	741
<b>Uzaydullayev Sherzod Shukurullayevich</b>	



QURILISH TARMOG'IDA KICHIK VA YIRIK KORXONALAR IQTISODIY SAMARADORLIGINI OSHIRISHDA INVESTITSION-INNOVATSION MEKANIZMLARNI TAKOMILLASHTIRISH.....	744
<b>Axmedova Nilufar Shuxratovna</b>	
КЛЮЧЕВЫЕ ЛИЧНОСТНЫЕ КАЧЕСТВА ПЕДАГОГА КАК ФАКТОРЫ РАЗВИТИЯ ПРОФЕССИОНАЛЬНОЙ КОМПЕТЕНТНОСТИ.....	750
<b>Киличева Феруза Бешимовна</b>	
NEYROPSIXOLINGVISTIKADA INVERSIV GAP KONSTRUKSIYALARINING FUNKSIONAL XUSUSIYATLARI .....	755
<b>Tuyboyeva Shakhnoza</b>	
ROLE OF MODERN MODELS IN REGIONAL PRODUCTION MANAGEMENT .....	758
<b>Abdullayev Muzaffar Abdujabbarovich</b>	
HUDUDIY BOSHQARUV SAMARADORLIGINI OSHIRISHDA RAQAMLI MONITORING TIZIMINING AHAMIYATI.....	761
<b>Karimova Shirin Zoxid qizi</b>	
MASOFAVIY BANK XIZMATLARINING ILMIIY-NAZARIY ASOSLARI VA ILG'OR XORIJ TAJRIBASI .....	766
<b>Xolmatova Asila Menglimurod qizi</b>	
QASHQADARYO VILOYATIDA NODAVLAT NOTIJORAT TASHKILOTLARINING IJTIMOIIY-IQTISODIY RIVOJLANISH TENDENSIYALARINI .....	773
<b>Sattorov Firdavs Ziyodullayevich</b>	
TUSHUM VA DAROMAD HISOBI KATEGORIYALARINI XALQARO MOLIIYAVIIY HISOBOT STANDARTLARI ASOSIDA TAHLILI.....	777
<b>Bayjanov Sarsengaliy Xalmuratovich</b>	
GLOBALLASHUV SHAROITIDA TADBIRKORLIKDA XALQARO SAVDO MUNOSABATLARINI RIVOJLANTIRISHNING METODOLOGIK ASOSLARINI SUN'IY INTELLEKT TEXNOLOGIYALARI ASOSIDA TAKOMILLASHTIRISH .....	783
<b>Xudayberdiyev Otabek Absalomovich</b>	
QASHQADARYO VILOYATINING TABIIY TURISTIK RESURSLARI VA ULARNING TURIZM RIVOJLANISHIDAGI ROLI .....	790
<b>Suyunova Dilnoza Mexridin qizi</b>	
O'ZBEKTELEKOM AK TEXNIK SAMARADORLIGINI BAHOLASH: DEA CCR MODELII VA MALMQUIST TFP INDEKSI ASOSIDA TAHLIL.....	794
<b>Salimova Husniya Rustamovna</b>	
BIZNES-JARAYONLARNI MODELLASHTIRISHNING MOHIYATI VA ULARNI MOLIIYAVIIY-IQTISODIY KO'RSATKICHLAR ORASIDAGI BOG'LIQLIK.....	800
<b>Qarshiyeva Moxinur Olim qizi</b>	
XORIIYIY TURISTLAR UCHUN KREATIV VA JOZIBADOR TURIZM MAHSULOTLARINI SHAKLLANTIRISH YO'LLARI .....	805
<b>Abdurasulov Shavqiddin Erkin o'g'li</b>	
XALQARO MOLIIYA INSTITUTLARI MOLIIYAVIIY RESURSLARINING O'ZBEKISTON IQTISODIY RIVOJLANISHIDAGI LOYIHALARDAGI ROLI VA SAMARADORLIGI .....	811
<b>Rasulova Dilfuza Valiyevna</b>	
IQTISODIY O'SISH VA ISHSIZLIK O'RTASIDAGI BOG'LIQLIKNING NAZARIY MODELLARI .....	818
<b>Rasulev Alisher Fayziyevich, Qodirov Asliddinxo'ja Mahammadjon o'g'li</b>	
RESPUBLIKAMIZDAGI YIRIK AKSIYADORLIK JAMIYATLARIDA "XALQCHIL IPO"NI O'TKAZISH ISTIQBOLLARI .....	822
<b>Ibragimov G'anjion G'ayratovich</b>	
МЕТОДОЛОГИЯ ОПРЕДЕЛЕНИЯ КОНКУРЕНТОСПОСОБНОСТИ ПРОДУКЦИИ ВИНОГРАДНОЙ ОТРАСЛИ.....	829
<b>Сапаев Д.Х.</b>	



SABZAVOT EKISHDA TUPROQNING FIZIK-MEXANIK XUSUSIYATLARI .....	835
<b>Ravshanov Hamraqu</b> l Amirqulovich, <b>Aliqulova Sevara Muxiddinovna</b>	
TIJORAT BANKLARIDA INVESTITSIYA LOYIHALARINI LOYIHAVIY MOLIYALASHTIRISH MEXANIZMINI TAKOMILLASHTIRISH .....	839
<b>Abdurazakova Nasiba Sultanovna</b>	
O'ZBEKISTON HUDUDLARINI IQTISODIY RIVOJLANTIRISHDA MAHALLIY DAVLAT HOKIMIYATI ORGANLARINING ROLINI YANADA KUCHAYTIRISH YO'NALISHLARI .....	844
<b>Bekchanov Davron Masharipovich</b>	
TOG'LI SHAROITLARDI AVTOGREYDERLARNING YOQILG'I SARFIGA TA'SIR QILUVCHI FAKTORLAR .....	848
<b>Sarmonov Azizbek Xoshimjonovich, Abdukarimova Shoxsanam Murodjon qizi</b>	
JAHON AMALIYOTIDA TASHQI SAVDO SIYOSATINI TARTIBGA SOLISH MEXANIZMLARI VA ILG'OR TAJRIBALAR .....	855
<b>G'iyosov Ilhom Karimovich, Toxirova Risolat Abdushukur qizi</b>	
O'ZBEKISTONDA ISLOMIY BANK XIZMATLARINI TATBIQ QILISH IMKONIYATLARIGA TA'SIR QILUVCHI OMILLAR .....	862
<b>Absamatov Asqar Ergashovich</b>	
ALOQA XIZMATLARINI RAQAMLASHTIRISH ASOSIDA RIVOJLANTIRISHNING IQTISODIY MEXANIZMLARINI ASOSIY YO'NALISHLARI .....	868
<b>Nazarov Sanjar Nasridinovich</b>	
RAQAMLI MEXANIZMLAR ASOSIDA INVESTITSIYA SAMARADORLIGINI OSHIRISH YO'LLARI .....	873
<b>Abdiyev Alimardon Chorshanbiyevich, Shamsiyeva Ruksora Nasirovna</b>	
MAMLAKATIMIZ MAHALLALARIDA TADBIRKORLIK VA HUNARMANDCHILIKNI RIVOJLANISH DINAMIKASI TAHLILI .....	876
<b>Tuxtasinov Zafarjon Odiljonovich</b>	
O'ZBEKISTONDA YASHIL IQTISODIYOTNI RIVOJLANTIRISHDA QAYTA TIKLANUVCHI ENERGIYA RESURSLARIDAN FOYDALANISHNI MODELLASHTIRISH .....	880
<b>Qo'ziboyev Behzod Hamidovich</b>	
BARQAROR SANOAT VA ESG INTEGRATSIYASI: MUAMMOLAR VA IMKONIYATLAR .....	884
<b>Turg'unov Jasurbek Alimardon o'g'li</b>	
OT TRADITIONNOGO POLIVA K TOCHNOMU OROSHENIU: SRABNITEL'NYI ANALIZ EFFEKTIVNOSTI ISPOL'ZOVANIYA VODY V KLOPKOVODSTVE BUHARSKOY OBLASTI .....	890
<b>Rahimov Olim Xamitovich, Gulchexra Salimovna Narzullaeva</b>	
DIGITAL TECHNOLOGIES AS A KEY DRIVER OF SOCIO-ECONOMIC PROGRESS: A QUANTITATIVE ANALYSIS OF IMPACT TRANSMISSION MECHANISMS .....	898
<b>Bozorova Irina Jumanazarovna</b>	
RAQOBQT BARDOSHLIKNI OSHIRISHDA MEHMONXONA INNOVATSIYALARINING STRATEGIK AHAMIYATI .....	904
<b>Usmanova Gulida Valiyevna</b>	
KO'CHMAS MULK QIYMATINI OMMAVIY VAHOLASH UCHUN KOB-DUGLAS GIBRID MODELINI QO'LLASH .....	910
<b>Xushvaqtov Jasur Shuhrat o'g'li</b>	
SANITARNO-ZASHITNAYA ZONA KAK INSTRUMENT OHRANI OKRUZHAJOUSHAY SREDDY PRI REALIZACII KRUPNOMASHTABNYYH ENERGETICHESKYYH PROEKTOV (NA PRIMERE SHERABADSKOY SOLNECHNOY FOTOELEKTRICHESKOY STANЦИИ V RESPUBLIKE UZBEKISTAN) .....	919
<b>Omandavlatov Sirojiddin Sodikovich</b>	
ZAHARLI CHIQUINDILARNING ATROF-MUHIT VA INSON SALOMATLIGIGA TA'SIRINI KOMPLEKS VAHOLASH .....	924
<b>Ruziyeva Iroda Davutovna, Mavlonova Shaxnoza Rahmatovna</b>	



ИНТЕЛЛЕКТУАЛЬНЫЕ ТРАНСПОРТНЫЕ СИСТЕМЫ НА ОСНОВЕ VANET ДЛЯ ПОВЫШЕНИЯ БЕЗОПАСНОСТИ ДОРОЖНОГО ДВИЖЕНИЯ.....930  
Лазарев Амир Пишембаевич, Шахобиддинов Алишер Шопатхиддинович

STRENGTHENING THE FINANCIAL RESOURCE BASE OF COMMERCIAL BANKS IN THE CONTEXT OF DIGITALIZATION .....938  
Dilnoza Xaitboyeva



# STRENGTHENING THE FINANCIAL RESOURCE BASE OF COMMERCIAL BANKS IN THE CONTEXT OF DIGITALIZATION

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**Abstract.** In the modern era of digitalization, commercial banks face both challenges and opportunities in managing their financial resources efficiently. Strengthening the financial resource base is crucial for ensuring the stability, competitiveness, and sustainable growth of banking institutions. This paper examines strategies for enhancing the financial resource base of commercial banks through digital technologies, including the implementation of advanced financial management systems, digital payment solutions, and data-driven decision-making. The study also highlights the role of regulatory frameworks and risk management in supporting resource mobilization. By leveraging digital tools, banks can optimize their capital structure, improve liquidity management, and expand access to financial products and services. The findings suggest that a robust financial resource base supported by digitalization is essential for maintaining the resilience and long-term performance of commercial banks.

**Keywords:** commercial banks, financial resource base, digitalization, financial management, liquidity, digital banking, risk management.

**Annotatsiya.** Raqamlashtirishning zamonaviy davrida tijorat banklari moliyaviy resurslarini samarali boshqarishda bir vaqtning o'zida ham muammolar, ham imkoniyatlarga duch kelmoqda. Moliyaviy resurslar bazasini mustahkamlash bank institutlarining barqarorligi, raqobatbardoshligi va barqaror o'sishini ta'minlashda muhim ahamiyatga ega. Ushbu maqolada tijorat banklarining moliyaviy resurslar bazasini raqamli texnologiyalar orqali rivojlantirish strategiyalari, jumladan ilg'or moliyaviy boshqaruv tizimlarini joriy etish, raqamli to'lov yechimlari hamda ma'lumotlarga asoslangan qarorlar qabul qilish masalalari ko'rib chiqiladi. Tadqiqotda, shuningdek, resurslarni jalb qilishni qo'llab-quvvatlashda tartibga soluvchi mexanizmlar va risklarni boshqarishning o'rni yoritiladi. Raqamli vositalardan foydalanish orqali banklar kapital tuzilmasini optimallashtirishi, likvidlikni boshqarishni yaxshilashi hamda moliyaviy mahsulot va xizmatlardan foydalanish imkoniyatlarini kengaytirishi mumkin. Tadqiqot natijalari shuni ko'rsatadiki, raqamlashtirish bilan qo'llab-quvvatlangan mustahkam moliyaviy resurslar bazasi tijorat banklarining barqarorligi va uzoq muddatli faoliyat samaradorligini ta'minlashda muhim omil hisoblanadi.

**Kalit so'zlar:** tijorat banklari, moliyaviy resurslar bazasi, raqamlashtirish, moliyaviy boshqaruv, likvidlik, raqamli bank xizmatlari, risklarni boshqarish.

**Аннотация.** В современную эпоху цифровизации коммерческие банки сталкиваются как с вызовами, так и с возможностями в процессе эффективного управления своими финансовыми ресурсами. Укрепление базы финансовых ресурсов является ключевым фактором обеспечения устойчивости, конкурентоспособности и долгосрочного роста банковских институтов. В данной статье рассматриваются стратегии повышения финансовой ресурсной базы коммерческих банков с использованием цифровых технологий, включая внедрение современных систем финансового управления, цифровых платёжных решений и принятие решений на основе данных. Также в исследовании освещается роль регуляторных механизмов и управления рисками в поддержке мобилизации ресурсов. Использование цифровых инструментов позволяет банкам оптимизировать структуру капитала, улучшать управление ликвидностью и расширять доступ к финансовым продуктам и услугам. Результаты исследования показывают, что прочная база финансовых ресурсов, поддерживаемая цифровизацией, является важным условием обеспечения устойчивости и долгосрочной эффективности деятельности коммерческих банков.

**Ключевые слова:** коммерческие банки, база финансовых ресурсов, цифровизация, финансовый менеджмент, ликвидность, цифровой банкинг, управление рисками.



## INTRODUCTION

In recent years, rapid digital transformation has reshaped the global financial landscape, compelling commercial banks to innovate and adapt to new technological advancements. Digitalization has influenced customer expectations, competitive dynamics, and operational processes, making it essential for banking institutions to strengthen their financial resource base in order to remain resilient and sustainable. A robust financial resource base enables banks to absorb economic shocks, support credit expansion, and invest in new digital platforms and services.

The adoption of digital technologies such as electronic payments, mobile banking, artificial intelligence (AI), and big data analytics has not only improved operational efficiency but also expanded opportunities for mobilizing deposits and managing risks more effectively. However, these opportunities come with challenges, including cybersecurity threats, regulatory compliance, and the need for substantial investment in technology infrastructure. Banks must carefully balance digital innovation with sound financial management to secure both profitability and stability.

This paper investigates strategies that commercial banks can employ to strengthen their financial resource base through digitalization. The focus will be on technological adoption, risk mitigation, regulatory alignment, and optimizing financial management practices in the context of the digital era.

## REVIEW OF LITERATURE ON THE SUBJECT

Digitalization has transformed the way financial institutions operate, introducing new tools for capital mobilization, risk management, and customer engagement. Berger and Bouwman (2017) emphasized that digital technologies improve operational efficiency and facilitate access to diverse financial resources, which strengthens banks' resilience to economic shocks.

Gomber, Koch, and Siering (2017) highlighted that fintech innovations, including online lending platforms, blockchain, and AI-based analytics, significantly enhance the financial capabilities of commercial banks. These technologies enable better monitoring of financial risks and streamline resource allocation.

Furthermore, Ozili (2018) demonstrated that digital finance contributes to financial inclusion, allowing banks to expand their depositor base and generate new streams of revenue. Natarajan and Varma (2021) argued that post-COVID-19, digital banking solutions have become indispensable, as they provide alternative channels for mobilizing funds while maintaining operational continuity.

Regulatory compliance is another crucial aspect of digitalization. Heffernan (2019) noted that regulatory frameworks must adapt to the rapidly evolving digital environment to ensure that banks maintain sufficient liquidity and capital adequacy. PwC (2021) suggested that integrating digital technologies with strong governance frameworks allows banks to optimize resource management while safeguarding against operational and cybersecurity risks.

Overall, the literature confirms that a well-managed financial resource base, supported by digitalization, is essential for enhancing banks' performance, stability, and competitiveness in the modern financial ecosystem.

## RESEARCH METHODOLOGY

This paper employs a qualitative research approach, combining secondary data analysis and case study examination. Data were collected from scholarly articles, industry reports, and publications by international financial institutions such as the IMF, World Bank, and Deloitte.

The study focuses on three key areas:

1. Digital Technology Adoption: Evaluating how banks implement mobile banking, AI, and big data analytics to strengthen resource mobilization and risk management.
2. Risk Management Practices: Assessing strategies for mitigating operational, financial, and cybersecurity risks associated with digital banking.
3. Regulatory Compliance and Governance: Investigating the impact of regulatory frameworks on banks' ability to maintain a stable and efficient financial resource base.

Case studies of leading commercial banks adopting digital strategies were analyzed to identify best practices, common challenges, and practical recommendations. This methodology allows for a comprehensive understanding of how digitalization can enhance banks' financial resource base.

## ANALYSIS AND RESULTS

Digitalization offers multiple avenues for strengthening the financial resource base of commercial banks. Firstly, technological solutions like mobile banking and digital payment systems increase customer engagement

and deposit mobilization. For instance, banks that provide seamless online services tend to attract a wider depositor base, thus increasing available funds for lending and investment (Sahay, Čihák, & N'Diaye, 2020).

Secondly, the integration of big data analytics and AI allows banks to monitor credit risks, detect fraudulent activities, and optimize capital allocation. Zhang and Xiong (2021) highlight that data-driven decision-making reduces non-performing loans and enhances overall financial stability. By using predictive models, banks can forecast liquidity needs and adjust their financial strategies proactively.

Thirdly, risk management and regulatory compliance play a critical role in sustaining a strong financial base. Regulatory bodies require banks to maintain capital adequacy ratios, liquidity coverage ratios, and risk management protocols. Compliance ensures that banks can weather economic downturns while continuing to provide credit and other financial services. Deloitte (2020) emphasizes that banks combining digital tools with rigorous governance frameworks achieve higher operational efficiency and maintain financial resilience.

Moreover, digitalization contributes to cost efficiency. Automating routine banking operations reduces administrative expenses, enabling banks to allocate more resources towards lending, investments, and innovative financial products. This results in a stronger, more diversified financial resource base that can support sustainable growth.

Despite these advantages, challenges remain. Cybersecurity threats, system integration complexities, and the high cost of technology adoption require careful planning. Banks must invest in employee training, robust IT infrastructure, and continuous monitoring systems to mitigate these risks effectively.

In conclusion, digitalization is not a mere operational upgrade but a strategic enabler for commercial banks to strengthen their financial resources. By leveraging technology, banks can increase liquidity, diversify revenue streams, enhance risk management, and ultimately ensure long-term sustainability and competitiveness.

## CONCLUSIONS AND SUGGESTIONS

Strengthening the financial resource base of commercial banks in the context of digitalization is a strategic imperative for modern banking institutions. Digital technologies have enabled banks to streamline operations, attract new customers, enhance risk assessment frameworks, and diversify financial products. These developments contribute to increased liquidity, improved capital adequacy, and more efficient management of financial resources.

However, digital transformation also poses challenges, including cybersecurity risks, regulatory compliance, and the need for continuous investment in technology. Banks must develop comprehensive digital strategies that balance innovation with financial stability, ensuring that technological adoption enhances rather than compromises their financial base.

Ultimately, a robust financial resource base supported by digitalization strengthens commercial banks' resilience, promotes economic growth, and fosters financial inclusion. Institutions that successfully integrate digital solutions into their financial management frameworks are better positioned to thrive in the increasingly competitive and dynamic banking environment.

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