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MUNDARIJA

OZIQ-OVQAT MAXSULOTLARI EKSPORTINI MARKETING STRATEGIYALARI ASOSIDA OSHIRISH YO‘LLARI	9
Yunusov Baxodir Marisovich	
ENHANCING EXPORT STRATEGIES FOR LIGHT INDUSTRY ENTERPRISES.....	22
Djurabaev Otabek Djurabayevich	
BALIQCILIKDA BIOLOGIK AKTIVLAR HISOBI VA ICHKI NAZORATINI XALQARO STANDARTLAR ASOSIDA TAKOMILLASHTIRISH.....	29
Dusmurotov Radjabbay Davlatbayevich, Aitimbetov Amirbek Qoishibekovich	
O‘ZBEKISTON RESPUBLIKASIDA ISHLAB CHIQRISH KORXONALARINING IQTISODIY RIVOJLANISHINING STATISTIK TAHLILI	37
Egamshukurov Zayniddin Sodikovich	
KORXONA MAHSULOTLARI ISTE‘MOLCHILARI MOTIVATSIYASIDA CHEKLI ALMASHTIRISH NORMASI MASALALARI.....	45
Jalilov Jamshid G‘anijonovich	
MINTAQADA TURIZMNI RIVOJLANTIRISH HAMDA AHOLI TURMUSH FARAVONLIGINI OSHIRISHDA TURIZM INFRATUZILMASI ROLINI BAHOLASH.....	52
Jumaniyazova Sharifa Rashidovna	
DIGITAL MARKETING TOOLS AND BUSINESS DEVELOPMENT STRATEGIES.....	61
Khudoyarova Ziyoda Maratovna, Erkaboyeva Jasmina Safarali qizi	
KICHIK BIZNES VA XUSUSIY TADBIRKORLIKNING RIVOJLANISH NAZARIY ASOSLARI VA XORIJIY TAJRIBALARI.....	68
Mirazimova Zulfiya	
TURIZMNI RIVOJLANTIRISHDA IT TEXNOLOGIYALARDAN FOYDALANISHNING MOHIYATI.....	79
Musirmanov Shohboz Usmon o‘g‘li	
AHOLINING TURMUSH DARAJASI VA FARAVONLIGINING ASOSIY KO‘RSATKICHLARI VA DINAMIKASI	86
Muxamedova Muslima Maxmudovna	
DEVELOPMENT STRATEGIES FOR GLOBAL COMPANIES IN CURRENT CONDITIONS.....	96
Nasimov Bakhtiyor Vasiyevich	
QISHLOQ XO‘JALIGIDA PAXTA-TO‘QIMACHILIK KLASTERLARINI RIVOJLANTIRISH YO‘NALISHLARI.....	104
Qurbonov Alisher Boboqulovich	

ZAMONAVIY RAQAMLI TEXNOLOGIYALARDAN FOYDALANISH SHAROITIDA SUG'URTA KOMPANIYALARI UCHUN SAMARALI MARKETING STRATEGIYALARI	110
Rashidova Dildora Rasul qizi	
ELEKTRON TIJORATNI RIVOJLANISHIGA TA'SIR ETUVCHI OMILLARNI ANIQLASH	116
Ravshanova Muhayyo Maxmanazarovna	
TELEKOMMUNIKATSION VOSITALAR ISHLAB CHIQRISH KORXONALARINING INNOVASION FAOLIYATI SAMARADORLIGINI OSHIRISH.....	122
Shaislamova Muazzamxon Raximxodjaevna	
KICHIK BIZNES SUB'EKTLARINING RAQOBATBARDOSHLIGINI RAQAMLI MARKETING STRATEGIYALARI ASOSIDA OSHIRISH.....	130
Tursunxo'jayev Axrorxo'ja Jamoliddin o'g'li	
KO'P O'LCHOVLI KAMBAG'ALLIK INDEKSINI HISOBLASH BO'YICHA ALKIRE-FOSTER USULI VA TAVSIYALARI	140
Urazbayev Raxmatjon Otajanovich	
RAQAMLI TRANSFORMATSIYANING IQTISODIYOTNI BARQAROR RIVOJLANTIRISHDAGI AHAMIYATI HAMDA EKOLOGIK, IJTIMOYIY VA BOSHQARUVNING INVESTITSIYALAR BILAN INTEGRATSIYASI	151
Amonov Mirzohid Tuymuratovich	
QORAQALPOG'ISTON RESPUBLIKASIDA AGROSANOAT MINTAQAVIY-IQTISODIY MAJMUASI RIVOJLANISH DINAMIKASINI BAHOLASH	161
Bekchanov Xalmurza Tursinbayevich	
“MAHALLA YETTILIGI” TIZIMIDA RAQAMLI TRANSFORMATSIYANING IJTIMOYIY AHAMIYATI.....	172
Imomov Jamshidxon Odilovich, Muzaffarova Dilbar Mamalatif qizi, Islomova Dilrabo Salomovna	
CHAKANA SAVDODA MARKETING VOSITALARIDAN SAMARALI FOYDALANISH.....	194
Ismoilov Shohjahan O'tkir o'g'li	
RAQOBAT SHAROITIDA OLIY TA'LIM TASHKILOTLARINING BOSHQARUV MEXANIZMINI TAKOMILLASHTIRISH.....	200
Nishanbaev Behzod Qahramaonjon o'g'li, Saidov Mash'al Samadovich	
INFLYATSIYA VA MAKROIQTISODIY BARQARORLIK O'RTASIDAGI MUVOZANAT: NAZARIY YONDASHUVLAR VA STRATEGIK YO'NALISHLAR	210
Baratov Diyorbek Fazliddin o'g'li	
SANOAT KORXONALARIDA RAQAMLI MARKETING FAOLIYATINI TASHKIL ETISHNING IJTIMOYIY-IQTISODIY MOHIYATI.....	218
Rajabova Mohichehra Abduxoliqovna	

KICHIK BIZNESDA INNOVATSION MENEJMENT TIZIMINI TAKOMILLASHTIRISH YO‘LLARI.....	227
Salayev Jasurbek Komilovich	
OLIY TA‘LIM TASHKIOTLARIDA SIFAT MENEJMENTI TAMOYILLARI ASOSIDA KADRLARLAR TAYYORLASH STARTEGIYASINI ISHLAB CHIQISH.....	237
Ahmedova Nigora Temur qizi, Saidov Mash‘al Samadovich	
ЗАРУБЕЖНЫЙ ОПЫТ РАЗВИТИЯ КЛАСТЕРИЗАЦИИ.....	248
Ахмедова Мадина Шухрат кизи	
МАРКЕТИНГОВЫЕ ИССЛЕДОВАНИЯ КАК ИНСТРУМЕНТ ФОРМИРОВАНИЯ КЛИЕНТСКОЙ СТРАТЕГИИ КОММЕРЧЕСКИХ БАНКОВ.....	258
Кахрамонов Хуршиджон Шухрат угли, Маннабова Хулкар Фарход кизи	
СОВЕРШЕНСТВОВАНИЕ ИСПОЛЬЗОВАНИЯ МАРКЕТИНГОВЫХ СТРАТЕГИЙ В ПОВЫШЕНИИ КОНКУРЕНТОСПОСОБНОСТИ ПРЕДПРИЯТИЙ.....	267
Рахимова Тамила Баходур кизи	
RIVOJLANGAN MAMLAKATLAR QIMMATLI QOG‘OZLAR BOZORI RIVOJLANISHINING ASOSIY XUSUSIYATLARI.....	279
Ibodullaev Abror Axrorovich	
ЭКОНОМИЧЕСКАЯ БЕЗОПАСНОСТЬ В ФОРМИРОВАНИИ И РАЗВИТИИ КЛАСТЕРОВ ПРОИЗВОДСТВЕННОЙ ПРОМЫШЛЕННОСТИ.....	285
Садриддинова Нигора Хуснидиновна	
KIMYO KORXONALARI TASHQI IQTISODIY FAOLIYATIDA MARKETING STRATEGIYALARINI TANLASHNING USLUBIY YONDASHUVLARINI ISHLAB CHIQISH.....	295
Akramov Bo‘ribek Faxriddin o‘g‘li	
PANDEMIYA VA INQIROZLARLARNING IJTIMOIIY SOHALARGA TA‘SIRINI BAXOLASH.....	304
Jumanov Eshmamat Turdiyevich, Ergashev Mirjon Yorqin o‘g‘li, Aslonov Muhammad Tosh o‘g‘li	
QASHQARYO VILOYATINING IQTISODIY O‘SISHINI TA‘MINLASHDA XORIJIY INVESTITSIYALARNI O‘ZLASHTIRISHNING IQTISODIY TAHLILI.....	311
Azimov Allaberdi O‘rinovich, Begaliyeva Madina Abdusamatovna	
TIJORAT BANKLARI MUAMMOLI KREDITLARNI KAMAYTIRISH MEKANIZMLARI.....	317
Jumanov Eshmamat Turdiyevich, Aslonov Muhammad Tosh o‘g‘li, Ergashev Mirjon Yorqin o‘g‘li	
VARYING FORMS OF LEVERAGE ANALYSIS AND ITS USAGE.....	324
Abduqodirova Mohinur Anvar qizi	

ROLE OF INSTITUTIONAL FRAMEWORKS IN FACILITATING INDIAN INVESTMENT IN UZBEKISTAN.....	336
Abror Kucharov, Jyoti Meshram	
TRANSPORT TIZIMINI SAMARALI RIVOJLANTIRISHNING ILMIY ASOSLARI	344
Fayzullayev Javlonbek Sultonovich	
KICHIK BIZNES SUBYEKTLARIDA RAQAMLI MARKETING FAOLIYATINI TASHKIL ETISH	357
Ergashxodjaeva Shaxnoza Jasurovna, Parpiyeva Gulhayo Ravshanbek qizi	
KICHIK BIZNESNI RIVOJLANTIRISH ORQALI MINTAQA IQTISODIYOTINI BARQAROR RIVOJLANTIRISH OMILLARI	366
Jumanov Ruslanbek Bobojonovich	
THE ROLE OF THE PROFESSION OF GUIDE INTERPRETERS IN TODAY’S WORLD	373
Yaxshibayeva Raziya Imanali qizi	
RAQAMLI TRANSFORMATSIYANING AN’ANAVIY SANOATDA STRATEGIK QARORLAR QABUL QILISHGA TA’SIRI.....	380
Mullabayev Baxtiyarjon Bulturbayevich, Tyurahanov Shamsitdin Djamshid o‘g‘li	
AGROSANOAT MAJMUASINI RIVOJLANTIRISHDA IJTIMOY INFRATUZILMASINING ROLI VA O‘RNI.....	389
Sultonov Sirojiddin Normurolovich	
THE ROLE OF THE STATE IN THE DEVELOPMENT OF TOURISM IN UZBEKISTAN	396
Olimova Sevara Komil kizi	
QISHLOQ XO‘JALIGIDAGI XAVFLARNI BOSHQARISH STRATEGIYALARI: DEHQONCHILIKDAGI NOANIQLIKLARNI VA TAVAKKALCHILIKLARNI BARTARAF ETISH	406
Mullabayev Baxtiyarjon Bulturbayevich, Mo‘minov Muslimbek Mirzoxid o‘g‘li	
DEVELOPMENT OF THE ECONOMY OF UZBEKISTAN BASED ON INNOVATIVE ACTIVITIES	416
Mukumova Nargis Nuriddinovna, Nasirov Dilshod Farhadovich, Toshimov Ulugbek Hakimovich	
MOLIYAVIY SAVODXONLIK VA IJTIMOY TARMOQLARNING IQTISODIY BARQARORLIKKA TA’SIRI.....	424
Eshpulatova Muazzam Barnoyevna	
ICHKI AUDITDA TAHLILY AMALLARNI QO‘LLASHNING NAZARIY ASOSLARI	435
Maxmudova Sharifa Elmurodovna	
THE ECONOMIC SIGNIFICANCE OF ADALINE NEURAL NETWORKS IN FINANCIAL DECISION-MAKING	445
Mirzayev Shoxrux Normurod o‘g‘li	

AHOLINING IJTIMOIIY-IQTISODIY TURMUSH DARAJASINI OSHIRISHNI XUSUSIY TADBIRKORLIKNI RIVOJLANTIRISHNING IQTISODIY TAHLILI	454
Raximov Anvar Norimovich, Annayev Abbas Baxtiyor o‘g‘li	
ULGURJI SAVDO MARKETINGINING O‘ZIGA XOS XUSUSIYATLARI.....	460
Xolmamatov Diyor Haqberdiyevich	
ELEKTR ENERGIYASI UCHUN TARIF REJALARINI LOYIHALASH.....	470
Samiyev Shohrux Faxriddin o‘g‘li	
TA‘LIM SOHASINI RIVOJLANTIRISHDA INVESTITSION LOYIHALARNI BOSHQARISH MEXANIZMINI TAKOMILLASHTIRISH.....	480
Adxamova Komilabonu Ilxom qizi, Saidov Mash‘al Samadovich	
IJTIMOIIY MUHIM OZIQ-OVQAT MAHSULOTLAR NARXLARINING KELGUSI TENDENSIYALARINI PROGNOZLASHNI EKONOMETRIK TAHLILLAR ASOSIDA MODELLASHTIRISH	489
Jumayev Olimjon Sadulloyevich	
MARKETING VA LOGISTIKA TAMOYILLARI ASOSIDA HUDUDLARDA AGROLOGISTIKA MARKAZLARINI RIVOJLANTIRISH.....	511
Xolmamatov Diyor Haqberdiyevich	
SANOAT KLASTERLARINING SHAKLLARI VA KLASTER SUBYEKTLARINING O‘ZARO KORPARATIV MUNOSABATLARI	522
Mamadaliyev Anaxon Ziyodillayevich	
DEHQON BOZORI SAVDOSINING XARIDORLAR TALAB-EHTIYOJINI QONDIRISHDAGI O‘RNI VA ROLI.....	527
Ivatov Irisbek	
QISHLOQ XO‘JALIGINI IXTISOSLASHISHINING INTENSIV RIVOJLANISHNI TA‘MINLASHDAGI AHAMIYATI	535
Saburov Jumanazar Saliyevich	
CHAKANA SAVDO FAOLIYATIDA NEYROMARKETING STRATEGIYALARIDAN FOYDALANISH AHAMIYATI	542
Saminjonov Nurilloxon Abdubanno o‘g‘li	
SANOAT KLASTERLARI – SANOAT SALOHIYATINI OSHIRISHNING STRATEGIK YO‘NALISHI SIFATIDA	549
Sobirov Azizbek Avazbekovich	
NEFT VA GAZ RESURSLARIDAN FOYDALANISHDA INNOVATSION TEXNOLOGIYALAR VA ULARNING IQTISODIY SAMARADORLIGI.....	555
Xalimov Akmaljon Axmadovich	
OLIY TA‘LIM TIZIMIDA RAQAMLI TEXNOLOGIYALARNI QO‘LLASH USULLARINI TAKOMILLASHTIRISH.....	561
Xusniddinov Yorqinjon Muhiddin o‘g‘li	
APPLE KOMPANIYASINING MARKETING STRATEGIYALARIDAN FOYDALANISH TAHLILI.....	567
Yaxyoxonov Niyozxo‘ja Baxroil o‘g‘li	

RAQAMLI MARKETINGNING ZAMONAVIY TURIZMGA TA’SIRI	575
Abduvaxidov Abdumalik Maxkamovich	
TOSHKENT SHAHRIDA BOLALAR VA O’SMIRLAR TURIZMINI RIVOJLANTIRISH MEXANIZMLARINING ASOSIY TAMOYILLAR.....	584
Islomova Dilrabo Salomovna	
O’ZBEKISTON RESPUBLIKASI HUDUDLARIDA BILIM IQTISODIYOTINING RIVOJLANISH DARAJASINI BAHOLASH UCHUN USLUBIY YORDAMNI SHAKLLANTIRISH	591
Xolmirzayev Ulug‘bek Abdulazizovich	
OLIY TA’LIM TIZIMINI MIQDOR VA SIFAT KO‘RSATKICHLARI ASOSIDA BAHOLASH MEZONLARI VA KO‘RSATKICHLARI.....	602
Hakimova Mushtariybonu Hamid qizi, Bozorova Muazzam Hamid qizi,	
IHTTNING CRAM METODOLOGIYASI ASOSIDA TAHLIL (CHEXIYA TAJRIBASI).....	608
Hakimov Hakimjon Abdullo o‘g‘li	
SANOAT KORXONALARIDA TEXNIK TARTIBGA SOLISH TIZIMIDA SIFAT MENEJMENTIDAN FOYDALANISHNI TAKOMILLASHTIRISH	615
Raximov Ilyos Muydinovich	
MILLIY MODANING GLOBAL MADANIY VA RAQAMLI KOMMUNIKATSIYA UYG‘UNLIGIGA ASOSLANGAN STRATEGIK MARKETING YONDASHUVI.....	627
Tuxtaeva Oydinoy Normamatovna	
RESEARCH ON THE EFFECTS OF INTEREST RATE, INFLATION RATE AND GROSS DOMESTIC PRODUCT (GDP) ON THE LEVEL OF FOREIGN DIRECT INVESTMENT (FDI) INFLOWS (EVIDENCE FROM UZBEKISTAN)	637
Azimov Shakhzod	
OLIY TA’LIM MUASSASALARINING INNOVATSION TA’LIM LOYIHALARI ASOSIDA RAQOBATBARDOSHLIGINI OSHIRISH	649
Eshov Mansur Po‘latovich	
ENHANCING RETAIL PERFORMANCE: THE ROLE OF ECO-MARKETING STRATEGIES IN ACHIEVING ECONOMIC EFFECTIVENESS.....	663
Zilola Davronova G‘ulomovna	

RESEARCH ON THE EFFECTS OF INTEREST RATE, INFLATION RATE AND GROSS DOMESTIC PRODUCT (GDP) ON THE LEVEL OF FOREIGN DIRECT INVESTMENT (FDI) INFLOWS (EVIDENCE FROM UZBEKISTAN)

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Abstract

This study investigates the macroeconomic determinants of foreign direct investment (FDI), focusing on the effects of interest rates, inflation, and gross domestic product (GDP) on FDI inflows. Using a log-linear Ordinary Least Squares (OLS) regression model and a dataset comprising 33 annual observations, we examine the relationship between the natural logarithms of FDI, interest rates, inflation, and GDP. The results indicate that inflation has a statistically significant and negative impact on FDI, suggesting that rising inflation discourages investment inflows. Interest rates exhibit a positive and marginally significant effect on FDI, while GDP does not show a statistically meaningful relationship. Variance Inflation Factor (VIF) and Belsley-Kuh-Welsch diagnostics suggest moderate multicollinearity, particularly involving GDP, but not at a level requiring model revision. These findings highlight the sensitivity of FDI to macroeconomic stability, especially inflation, and underscore the importance of maintaining a favorable investment climate.

Keywords: Variance Inflation Factor (VIF), Belsley-Kuh-Welsch diagnostics, A log-linear Ordinary Least Squares (OLS), Inflation, FDI, GDP, Uzbekistan, Interest rate.

Annotatsiya

Ushbu tadqiqotda xorijiy to'g'ridan-to'g'ri investitsiyalarning (XTI) makroiqtisodiy omillarini, xususan, foiz stavkalari, inflyatsiya va yalpi ichki mahsulot (YAIM)ning XTI oqimlariga ta'sirini o'rganilgan. Tadqiqotda log-chiziqli Oddiy Eng Kichik Kvadratlar (OEKQ) regressiya modeli hamda 33 yillik yillik kuzatuvdan iborat ma'lumotlar to'plami qo'llanilgan. FDI, foiz stavkalari, inflyatsiya va YAIM ko'rsatkichlarining tabiiy logarifmlariga asoslangan bog'liqlik tahlil qilingan. Natijalar inflyatsiyaning XTIGA statistik jihatdan sezilarli va salbiy ta'sir ko'rsatishini, ya'ni inflyatsiya darajasining ortishi investitsiya oqimlarini kamaytirishini ko'rsatdi. Foiz stavkalari XTIGA ijobiy, biroq chegaraviy darajada ahamiyatli ta'sir ko'rsatgan. YAIM esa statistik jihatdan ahamiyatli bog'liqlik namoyon qilmagan. Varians inflyatsiya koeffitsiyenti (VIF) va Belsley-Kuh-Welsch diagnostikasi natijalari o'rtacha darajadagi kollinearlikni, ayniqsa YAIM bilan bog'liq holat mavjudligini ko'rsatgan, biroq bu modelni qayta ko'rib chiqishni talab qiladigan darajada emas. Ushbu natijalar XTIning makroiqtisodiy barqarorlikka, ayniqsa inflyatsiyaga nisbatan sezgirligini

ta'kidlaydi hamda investitsiyalar uchun qulay muhitni ta'minlash zarurligini ko'rsatadi.

Kalit so'zlar: varians inflyatsiya koeffitsiyenti (VIF), Belsley–Kuh–Welsch diagnostikasi, log-chiziqli Oddiy Eng Kichik Kvadratlar (OEKQ), inflyatsiya, XTI, YAİM, O'zbekiston, foiz stavkasi.

Аннотация

Данное исследование анализирует макроэкономические детерминанты прямых иностранных инвестиций (ПИИ), сосредотачивая внимание на влиянии процентных ставок, инфляции и валового внутреннего продукта (ВВП) на приток инвестиций. С использованием лог-линейной модели обыкновенных наименьших квадратов (ОНК) и набора данных из 33 годовых наблюдений изучается взаимосвязь между натуральными логарифмами ПИИ, процентных ставок, инфляции и ВВП. Результаты показывают, что инфляция оказывает статистически значимое и отрицательное влияние на ПИИ, что свидетельствует о снижении инвестиционной привлекательности при росте инфляции. Процентные ставки демонстрируют положительное, но статистически незначительное влияние, тогда как ВВП не показывает значимой зависимости. Диагностика VIF и Belsley-Kuh-Welsch указывает на умеренную мультиколлинеарность, особенно с участием ВВП, но не на уровне, требующем пересмотра модели. Эти результаты подчеркивают чувствительность ПИИ к макроэкономической стабильности, особенно к инфляции, и важность поддержания благоприятного инвестиционного климата.

Ключевые слова: коэффициент инфляции дисперсии (VIF), диагностика Belsley-Kuh-Welsch, лог-линейная модель ОНК, инфляция, ПИИ, ВВП, Узбекистан, процентная ставка.

INTRODUCTION

Foreign direct investment (FDI) plays a vital role in the economic development of transition economies, and Uzbekistan is no exception. Since gaining independence in 1991, Uzbekistan has embarked on a gradual process of economic reform aimed at liberalizing markets, modernizing its industrial base, and integrating more fully into the global economy. In recent years, the government has intensified its efforts to attract foreign investors by improving the business environment, reforming regulatory frameworks, and offering a range of investment incentives. However, the effectiveness of these measures is also shaped by broader macroeconomic conditions.

Understanding the macroeconomic factors that influence FDI inflows is crucial for Uzbekistan as it seeks to position itself as a regional investment hub in Central Asia. Among the key variables affecting investor decisions are interest rates, inflation, and gross domestic product (GDP)—each serving as a signal of economic stability, potential returns, and market size. While theoretical models typically suggest that low

inflation, favorable interest rates, and strong economic growth attract more investment, empirical findings vary significantly across countries and contexts.

This study examines the impact of interest rates, inflation, and GDP on FDI inflows in Uzbekistan using a log-linear Ordinary Least Squares (OLS) regression model. The analysis is based on 33 annual observations of macroeconomic data, with all variables log-transformed to improve linearity and interpretability. The regression results indicate that inflation has a statistically significant and negative impact on FDI, suggesting that price instability serves as a deterrent to foreign investors. Interest rates show a positive but only marginally significant relationship with FDI, potentially reflecting investor expectations of higher returns in a high-interest-rate environment. GDP, meanwhile, does not exhibit a statistically significant effect on FDI inflows in this model.

These findings underscore the importance of maintaining macroeconomic stability—particularly in terms of inflation control—as Uzbekistan continues to pursue an open and investment-friendly economic agenda. While GDP growth remains a cornerstone of long-term development, this analysis suggests that reducing inflationary pressures may yield more immediate and measurable improvements in attracting foreign capital. As such, the study offers valuable insights for policymakers aiming to enhance Uzbekistan’s investment climate in an increasingly competitive global landscape (Figure 1).

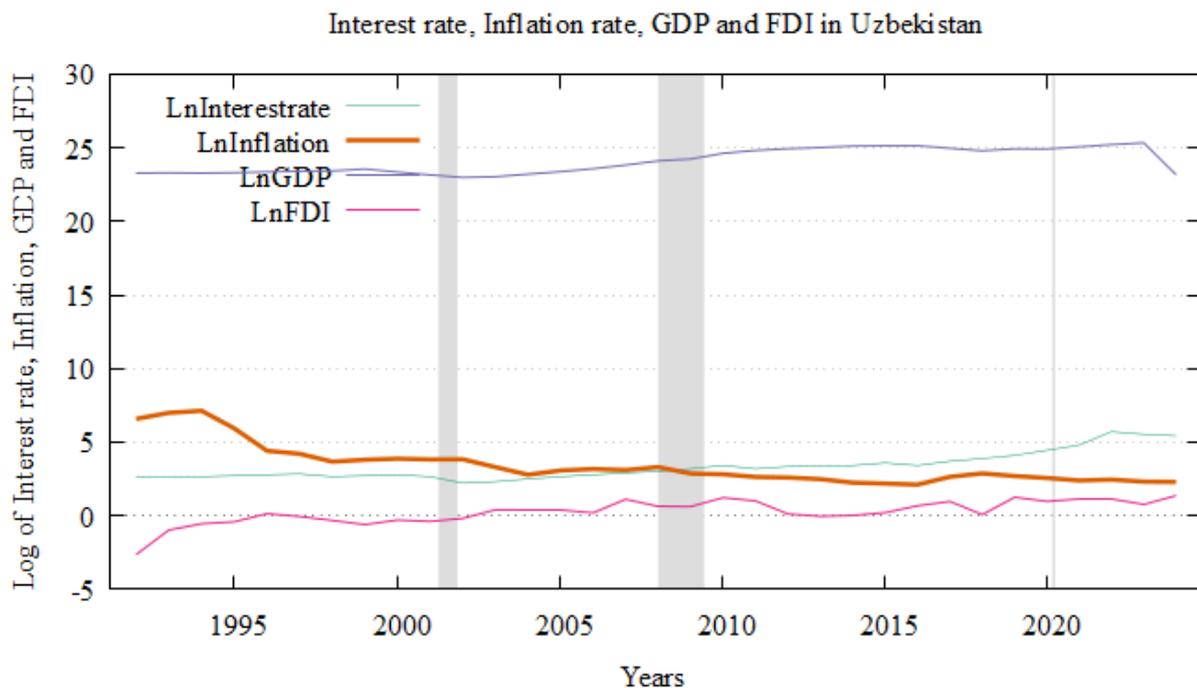


Figure 1. Overall trends for the log of GDP, Interest rate, Inflation rate and FDI in Uzbekistan.

This line graph is created by the author (on Gretl) based on data from World Bank Open Data. <https://databank.worldbank.org/>

The time-series graph (Figure 1) displays the logged values of interest rate (LnInterstrate), inflation rate (LnInflation), GDP (LnGDP), and foreign direct investment (LnFDI) in Uzbekistan from 1992 to 2023. Over this period, LnGDP (in blue) remains the highest among the four indicators, showing a steady upward trend from the early 2000s, suggesting consistent economic growth. However, there is a noticeable drop around 2022–2023, which may indicate a recent economic shock or downturn. LnInflation (green line) stays relatively stable with a slight upward trend post-2016, potentially reflecting economic reforms or shifts in monetary policy.

LnInterstrate (orange line) starts high in the early 1990s, then declines sharply during the late 1990s and early 2000s, stabilizing afterward. This likely reflects the government's efforts to transition from high inflationary policies to more stable macroeconomic management. LnFDI (magenta line), while generally lower than the other variables, shows a gradual increase over the years, with some fluctuations. This upward trend suggests improving investor confidence or liberalization policies, although volatility remains a factor. The shaded bands in the graph (early 2000s and around 2008–2010) may represent economic crises or significant transitions, during which the indicators show varying levels of instability or adjustment.

LITERATURE REVIEW

Numerous empirical studies have analyzed the relationship between interest rates and FDI inflows, with varying results depending on the country, the structure of the economy, and the type of FDI being considered.

For example, Asiedu (2002) analyzed the impact of macroeconomic variables on FDI in African countries, finding that higher interest rates tend to deter FDI, as they increase the cost of financing investments. This result is consistent with the cost of capital theory, which suggests that higher interest rates make it more expensive for foreign investors to finance projects, particularly in economies with limited access to capital markets.

Chakrabarti (2001), in his analysis of 30 developing countries, also found that interest rates were negatively associated with FDI, with a stronger impact in countries where the financial sector is underdeveloped. In contrast, Ghosh and Ghosh (2009) found a positive relationship between interest rates and FDI in India, where the relationship was influenced by the monetary policy regime and the size of the market.

A study by Froot and Stein (1991) examined the relationship between interest rates and FDI inflows to developed economies, concluding that low interest rates often attract FDI due to the cheaper cost of financing, especially for industries requiring large capital investment.

Inflation has long been considered a critical variable for determining FDI, with most studies suggesting a negative relationship between inflation and foreign investment. Asiedu (2002) and Onyeiwu and Shrestha (2004) argue that high inflation increases uncertainty about future returns and erodes the value of profits, making FDI

less attractive. The volatility of inflation is often cited as a key factor that discourages investors from committing to long-term projects in high-inflation economies.

Agarwal (2000) in a study of 75 developing countries, found that inflation has a significant negative effect on FDI, particularly in countries with unstable inflation rates, as it creates economic uncertainty and risks. Empirical evidence from Latin America by Sosa (2005) found a similar pattern. The study concluded that countries with low and stable inflation rates tend to attract higher FDI, while periods of inflationary pressure led to an outflow of capital, as foreign investors seek safer, more predictable environments. De Mello (1999) found that inflation control is crucial for countries looking to increase FDI inflows, with inflation volatility being a key deterrent for investors. This is particularly important for economies in transition, like Uzbekistan, where inflationary pressures can destabilize the investment climate.

GDP is one of the most commonly used proxies for market size and economic potential, with many studies finding a strong positive relationship between GDP growth and FDI inflows. Dunning (1981) first argued that market-seeking FDI is positively related to the size of the host country's economy. Larger economies typically offer more opportunities for profit and provide the infrastructure, labor, and consumer markets that multinational firms seek.

A study by Kinoshita and Campos (2003) on FDI in transition economies, including former Soviet states, found that GDP growth is a significant determinant of FDI, as it signals a larger, growing market with increased consumer demand. Similarly, Kaufmann (2005) found that strong GDP growth attracts FDI inflows, particularly in Central and Eastern European countries transitioning to market economies. Lipsey (2001), in a comprehensive survey of FDI trends across multiple countries, concluded that GDP growth correlates positively with FDI inflows in both developed and developing economies, as it reflects a booming economy where returns on investment are likely to be high.

In Uzbekistan, studies by Kuchkarov (2017) and Jumaniyozov (2020) suggest that GDP growth has a positive influence on FDI inflows. These studies found that economic growth, coupled with market reforms, has been crucial in attracting foreign investment, especially in sectors like mining, energy, and infrastructure. Tashkent State University (2020) conducted a study specifically focused on Uzbekistan, showing that stable inflation, moderate interest rates, and strong GDP growth were key determinants for foreign investors in sectors such as manufacturing, agriculture, and energy. Rakhimov (2021) analyzed how the macroeconomic environment, including interest rates and inflation, affected FDI flows into Uzbekistan, concluding that stable inflation and lower interest rates were critical for attracting FDI. The study also

highlighted the importance of economic diversification, which is linked to GDP growth, as a key factor in attracting foreign investment.

METHODOLOGY

The method of this study is to disentangle and capture the impact of inflation, interest rate and GDP on FDI through ordinary least squares (OLS). The data obtained from the World Bank Database is used for doing the analysis from 1992 to 2023. The independent variables of the model are inflation, interest rate and GDP. The dependent variable is FDI. To take account of the economic significance of the model, the natural logarithm of the variable data is considered.

The model used is going to verify whether inflation, interest rate and GDP have an impact on FDI and also estimate and measure the scale of the impact. According to the theoretical basis, the functional forms of the models related to inflation and FDI, GDP and FDI as well as interest rate and FDI used in this study are specified as follows. The regression model of the impact of inflation, interest rate and GDP on FDI in Uzbekistan:

$$\ln(\text{FDI})_{ij} = \beta_0 + \beta_1 \ln(\text{InterestRate})_{ij} + \beta_2 \ln(\text{Inflation})_{ij} + \beta_3 \ln(\text{GDP})_{ij} + e_{ij}$$

In the formula, i represents a certain country and j represents a certain year of observation. For the double logarithmic model, the economic significance of the variable coefficients is very clear. α is intercept term. β represents the elasticity coefficients of inflation, interest rate and GDP relative to FDI. And e is random disturbance term.

ANALYSIS AND RESULTS

Ordinary least squares (OLS) method of regression was used to evaluate the slope of the coefficients of the autoregressive model. The use of OLS relies on the stochastic process being stationary. In the case where the stochastic process is not stationary, the use of OLS can result in invalid estimates. These estimates are called 'spurious regression' results thus high adjusted R^2 values and high t-ratios yielding results with no economic meaning. Gretl is used for estimation, and the statistical significance level of 5% is uniformly set in the model. A total of 33 observations are included from 1992 to 2023 and the model above is estimated to capture the impact of inflation, interest rate and GDP on FDI of Uzbekistan.

Estimation of the Model:

The estimation of the model being inflation, interest rate and GDP on FDI is expressed in the functional form below as:

Model:

$$\ln(\text{FDI})_{ij} = \alpha_0 + \beta_1 \ln(\text{InterestRate})_{ij} + \beta_2 \ln(\text{Inflation})_{ij} + \beta_3 \ln(\text{GDP})_{ij} + e_{ij}$$

Estimation of the Model:

Dependent variable: $\ln(\text{FDI})_{ij} \rightarrow$ Log of FDI for country i in year j

Independent variables: $\ln(\text{Inflation})_{ij}$, $\ln(\text{InterestRate})_{ij}$ and $\ln(\text{GDP})_{ij} \rightarrow$
Log of Inflation, Interest rate and GDP for country i in year j

Intercept (α_0) \rightarrow Represents the baseline level of FDI when Inflation, Interest rate and GDP is at 1 (in log scale)

Coefficient (β_1) \rightarrow Measures the elasticity of FDI with respect to interest rate (i.e., the % change in FDI for a 1% change in interest rate)

Coefficient (β_2) \rightarrow Measures the elasticity of FDI with respect to inflation (i.e., the % change in FDI for a 1% change in inflation)

Coefficient (β_3) \rightarrow Measures the elasticity of FDI with respect to GDP (i.e., the % change in FDI for a 1% GDP)

Error term (e) \rightarrow Captures unobserved factors that influence FDI.

Adopting Gretl, the estimation result is provided below (table 1).

Table 1.

OLS Estimation of inflation, interest rate and GDP on FDI in Uzbekistan from 1992 to 2023¹

OLS, using observations 1-33 Dependent variable: LnFDI

Variable	Coefficient	Std. Error	t-ratio	p-value	
LnInterestrate	0.217937	0.125302	1.739	0.0922	*
LnInflation	-0.352460	0.0740135	-4.762	<0.0001	***
LnGDP	0.0296374	0.0245450	1.207	0.2367	
Mean dependent var	0.236061		S.D. dependent var		0.810135
Sum squared resid	8.315970		S.E. of regression		0.526497
Uncentered R-squared	0.635921		Centered R-squared		0.604043
F(3, 30)	17.46655		P-value(F)		9.51e-07
Log-likelihood	-24.08253		Akaike criterion		54.16506
Schwarz criterion	58.65458		Hannan-Quinn		55.67565

Interpretation of the outcome					
Variable	Coefficient	Std. Error	t-ratio	p-value	Interpretation
LnInterest Rate	0.218	0.125	1.739	0.0922	A 1% increase in interest rates is associated with a 0.22% increase in FDI , significant at the 10% level .
LnInflation	-0.352	0.074	-4.762	<0.0001	A 1% increase in inflation is associated with a 0.35% decrease in FDI , highly statistically significant (p < 0.001).

¹ Author's work

Interpretation of the outcome					
Variable	Coefficient	Std. Error	t-ratio	p-value	Interpretation
LnGDP	0.030	0.025	1.207	0.2367	A 1% increase in GDP is associated with a 0.03% increase in FDI , but not statistically significant (p = 0.2367).
R-squared	0.604	-	-	-	This means that 60.4% of the variation in FDI is explained by the model. It's a good fit, but not perfect — leaving some room for other factors that are not included in the model.

If GDP is highly correlated with other independent variables in the model (inflation or interest rates), it might “lose” its individual statistical significance. This is a common econometric issue—the effect is still there but not clearly distinguishable. Thus, Variance Inflation Factors (VIFs) and the Belsley-Kuh-Welsch (BKW) collinearity diagnostics are carried out to verify multicollinearity problem (table 2, 3).

Table 2.

Variance Inflation Factors (VIFs) and Belsley-Kuh-Welsch (BKW) collinearity diagnostics.¹

Variance Inflation Factors				
Minimum possible value = 1.0				
Values > 10.0 may indicate a collinearity problem				
LnInterstrate	1.791			
LnInflation	1.724			
LnGDP	2.184			
VIF(j) = 1/(1 - R(j) ²), where R(j) is the multiple correlation coefficient between variable j and the other independent variables				
Belsley-Kuh-Welsch collinearity diagnostics:				
lambda	cond	LnIntere ~	LnInflat ~	LnGDP
2.826	1.000	0.005	0.013	0.003
0.159	4.217	0.105	0.434	0.004
0.015	13.657	0.890	0.553	0.994

¹ Author's work

lambda = eigenvalues of inverse covariance matrix (smallest is 0.0151508)			
cond = condition index			
note: variance proportions columns sum to 1.0			
According to BKW, cond ≥ 30 indicates "strong" near linear dependence, and cond between 10 and 30 "moderately strong". Parameter estimates whose variance is mostly associated with problematic cond values may themselves be considered problematic.			
Count of condition indices ≥ 30 :			
Count of condition indices ≥ 10 :			
Variance proportions ≥ 0.5 associated with cond ≥ 10 :			
LnIntere~	LnInflat~	LnGDP	
0.890	0.553	0.994	

Table 3.

Variance Inflation Factors (VIFs)¹

Variable	VIF	Interpretation
LnInterestRate	1.791	Low collinearity
LnInflation	1.724	Low collinearity
LnGDP	2.184	Low/moderate collinearity

VIF Interpretation:

- **VIF values < 10** generally suggest **no major collinearity issue**. Here, all VIF values are below 3, which indicates **low collinearity** among the independent variables (table 4).

Table 4.

Belsley-Kuh-Welsch (BKW) Collinearity Diagnostics²

Lambda	Condition Index (cond)	LnInterestRate	LnInflation	LnGDP
2.826	1.000	0.013	0.003	0.003
0.159	4.217	0.434	0.004	0.004
0.015	13.657	0.890	0.553	0.994

Condition Index (cond):

- Highest condition index = 13.657, which falls between 10 and 30, indicating

¹ Author's work

² Author's work

moderate collinearity.

- According to the BKW diagnostic rules, if $\text{cond} > 10$ and < 30 , it suggests moderate collinearity.

- The very high condition index here signals that there is some linear dependence among the predictors, but not extremely problematic. If this value were ≥ 30 , it would suggest a more severe multicollinearity problem.

Variance Proportions:

- For the highest condition index (13.657), the variance proportions are:

- LnInterestRate: 0.890

- LnInflation: 0.553

- LnGDP: 0.994

This tells us how much of the variance in the regression coefficients is associated with multicollinearity due to the condition index. Specifically:

- LnGDP has an extremely high proportion of variance (0.994) linked to the condition index of 13.657, indicating that LnGDP is highly correlated with the other predictors, especially with LnInflation.

- LnInterestRate also has a high proportion (0.890), but it is less extreme.

- LnInflation has a moderate correlation with the condition index (0.553), indicating that it is moderately related to other variables in the model.

Conclusion from VIFs: The maximum VIF value of 2.184 is acceptable, meaning there is no immediate concern. There is no significant multicollinearity based on the VIFs in the model. All the values are well below 10, which means each predictor (InterestRate, Inflation, and GDP) is reasonably independent from the others.

CONCLUSION AND SUGGESTIONS

The findings of this study reveal that inflation has a significant and negative impact on foreign direct investment (FDI) inflows in Uzbekistan, indicating that rising inflation undermines macroeconomic stability and discourages foreign investors. Interest rates show a positive but only marginally significant relationship with FDI, suggesting that a stable and predictable monetary policy plays a supportive yet limited role in attracting investment. Gross Domestic Product (GDP), meanwhile, does not exhibit a statistically meaningful effect, implying that while economic growth is important, it may not serve as a standalone determinant for investment inflows. Although multicollinearity diagnostics indicate some level of linear dependency involving GDP, it is not severe enough to compromise the model's validity.

To foster greater FDI inflows, it is essential to maintain low and stable inflation through effective institutional reforms and consistent monetary discipline. Enhancing the transparency of the Central Bank's policy actions and ensuring predictability in financial markets can build investor confidence. Interest rate stability over the medium term can also create a favorable investment environment. Furthermore, streamlining

regulatory procedures, ensuring legal protection for investors, and reinforcing macro-financial stability are critical for establishing a trustworthy and competitive investment climate. Sustained economic growth, underpinned by long-term strategic planning and aligned with macroeconomic stability, will play a decisive role in ensuring the continuous attraction of foreign direct investment.

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