

## THE IMPACT OF UNEMPLOYMENT ON THE COUNTRY'S ECONOMY: THE CASE OF UZBEKISTAN

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### **Abstract**

This study examines the impact of unemployment on economic growth in Uzbekistan, with particular emphasis on the structural characteristics of the labour market and macroeconomic stability. Using annual time-series data from 2000 to 2024, the research applies econometric techniques including ordinary Least Squares (oLS), robust regression, and log-linear specifications to analyse the relationship between unemployment and key macroeconomic variables such as GDP growth, inflation, gross capital formation, and foreign direct investment.

The analysis is grounded in okun's Law, which posits an inverse relationship between unemployment and economic output. The empirical findings reveal that unemployment exerts a statistically significant negative effect on economic growth in both the short and long run. Inflation is also found to negatively affect economic performance, while investment and foreign direct investment contribute positively to growth. Structural issues such as informality, skill mismatches, and regional disparities further exacerbate unemployment in Uzbekistan.

The results highlight the importance of labour market reforms, human capital development, and investment promotion policies. Strengthening these areas is essential for achieving sustainable and inclusive economic growth in Uzbekistan.

### **Keywords**

Unemployment; Economic Growth; okun's Law; Uzbekistan; ARDL Model; Inflation; Foreign Direct Investment; Labour Market

### **Introduction**

Unemployment is one of the most fundamental social and economic challenges affecting a country's economic performance, stability, and the well-being of its citizens. It represents not only a loss of income for affected individuals but also a loss of potential output for society as a whole. The concept of unemployment has long been central to macroeconomic analysis. Keynes (1936) attributed unemployment to insufficient aggregate demand for goods and services, leading to

declines in production and investment. Classical economists, by contrast, regard unemployment as a short-term imbalance between the supply and demand of labour, which self-corrects through market adjustments. A strong inverse relationship between unemployment and economic growth was subsequently formalised by Okun (1962), an empirical regularity now known as Okun's Law, which continues to serve as a theoretical foundation for modern research.

At the global level, unemployment has been identified as both a cause and a consequence of economic turbulence. Elevated unemployment rates reduce aggregate consumption, discourage private investment, and exert additional pressure on government budgets through increased welfare expenditure (Blanchard & Katz, 1997). Furthermore, the long-term unemployed experience the erosion of human capital and productivity, which diminishes the potential output of the economy (Mankiw, 2019). In developing countries, including those in Central Asia, the challenges posed by unemployment are compounded by structural issues such as informality, skill mismatches, and regional inequality (Pomfret, 2019), complicating policy responses and making employment creation a key pillar of sustainable development.

In Uzbekistan, unemployment remains a significant challenge despite considerable economic growth over the past decade. Following independence and the transition from a centrally planned to a market-oriented economy, Uzbekistan has implemented numerous economic reforms aimed at stimulating private sector development, attracting foreign investment, and modernising its industries. However, these transformations have also created new labour market challenges. According to the World Bank (2023), the official unemployment rate stands between 8% and 10%, while the International Labour Organization (ILO, 2021) estimates that nearly half of the workforce is engaged in informal employment. This underscores a dual labour market characterised by a flourishing informal sector and pervasive underemployment, most notably among youth and rural populations.

Youth unemployment, in particular, poses a significant socio-economic risk. Data from the State Committee of Statistics of Uzbekistan (2024) indicate that nearly 30% of the unemployed are under the age of 30. Many graduates struggle to secure employment commensurate with their qualifications, reflecting a persistent mismatch between the education system and the demands of the labour market. Regional disparities further compound this issue: cities such as Tashkent and Samarkand offer considerably more employment opportunities than less-populated provinces such as Karakalpakstan and Surxondaryo. Such structural imbalances

not only reduce labour market efficiency but also constrain the nation's capacity to achieve balanced economic development.

Despite ongoing economic reforms, Uzbekistan continues to face the challenge of ensuring that growth translates into productive employment. Although GDP has expanded at an average rate of approximately 5–6% per annum in recent years (ADB, 2023), this growth has not been accompanied by proportional increases in formal employment. The slow absorption of labour into formal sectors and the prevalence of informal employment hinder the realisation of the country's full economic potential. Against this backdrop, a rigorous understanding of the impact of unemployment on Uzbekistan's economic performance is critical for designing effective macroeconomic and labour market policies.

### **Significance of the Study**

This study seeks to bridge the gap between theoretical understanding and empirical reality in the context of Uzbekistan. While numerous studies have explored unemployment in developed and emerging economies, country-specific empirical research focused on Uzbekistan remains limited. By quantifying the relationship between unemployment and key macroeconomic growth indicators – including GDP, inflation, and investment – this study contributes valuable insights to both academic discourse and policy discussions. The findings are also anticipated to support government efforts to achieve the objectives of Uzbekistan's Development Strategy 2030, which emphasises inclusive growth, innovation, and job creation.

### **Research objectives**

The primary objective of this study is to analyse the impact of unemployment on Uzbekistan's economic growth and to identify the key macroeconomic variables that mediate this relationship. Specifically, the study aims to:

1. Examine the short-term and long-term effects of unemployment on GDP growth in Uzbekistan.
2. Investigate the relationship between unemployment, inflation, and investment, and determine how these factors influence economic conditions.
3. Evaluate the extent to which structural unemployment affects overall economic stability.
4. Provide evidence-based policy recommendations to promote employment and sustainable economic growth.

This research focuses on Uzbekistan as a case study representing a transition economy with unique labour market characteristics. Time-series macroeconomic data covering the period from 2000 to 2024 were sourced from national statistics, the World Bank, and the Asian Development Bank. The relationship between

unemployment and economic growth is estimated using econometric models, including ordinary Least Squares (oLS) regression and the Autoregressive Distributed Lag (ARDL) approach.

### **Literature Review**

Unemployment remains one of the most persistent macroeconomic challenges, adversely affecting economic performance, social stability, and overall welfare. Classical economic theory views unemployment as a natural result of business cycles, whereas Keynesian economists argue that inadequate aggregate demand is the primary driver of cyclical unemployment (Keynes, 1936). Okun's Law, a cornerstone of modern macroeconomic research, formalises the inverse relationship between unemployment and economic growth (Okun, 1962). Numerous empirical studies in both developed and developing nations have confirmed this negative correlation, demonstrating that a one-percentage-point rise in unemployment is associated with a 2–3% decline in GDP growth (Ball et al., 2017).

### **Global Empirical Findings**

Research consistently demonstrates that unemployment exerts a negative effect on economic output, fiscal stability, consumer confidence, and investment levels (Blanchard & Katz, 1997; Mankiw, 2019). In the European Union, Blanchard and Summers (1986) documented hysteresis effects of long-term unemployment, whereby elevated unemployment today raises the natural rate of unemployment in the future. Similar findings in emerging economies (Islam, 2004; Sadiku et al., 2015) show that structural unemployment and underemployment limit productive capacity and human capital development.

### **Regional and Transition Economy Perspectives**

In transition economies—particularly those in Central Asia—the dynamics of unemployment are especially complex. The shift from centrally planned to market-oriented systems in the 1990s and early 2000s produced significant employment shocks (Pomfret, 2019). Research from Kazakhstan, Kyrgyzstan, and Tajikistan reveals that unemployment in these economies is predominantly structural rather than cyclical, reflecting skill mismatches, limited labour mobility, and industrial restructuring (Abdyldaeva, 2020; Kuralbayev, 2022). Panel data analyses across Central Asia suggest that GDP growth and employment are closely linked, although government intervention and investment policies also play a significant moderating role (Djalilov & Piesse, 2011).

### **The Case of Uzbekistan**

Unemployment is a pressing socio-economic issue in Uzbekistan, particularly affecting youth and women. The World Bank (2023) reports an official unemployment rate of 8–10% in recent years, with informal employment

accounting for approximately 50% of total labour activity. According to the ILO (2021), the economic structure of Uzbekistan—dominated by agriculture and state-led industries—creates barriers to labour market flexibility. Research by the Tashkent State University of Economics (2022) and the Asian Development Bank (2023) has demonstrated that rising unemployment leads to declines in consumer spending, lower tax revenue, and increased public welfare expenditure, all of which undermine fiscal sustainability.

Scholars in Uzbekistan, such as Rakhimov (2022), have further highlighted that misalignment between the education system and labour market demands contributes to high graduate unemployment. Labour-absorbing sectors such as ICT, logistics, and green energy remain underdeveloped, while rural regions continue to experience seasonal and hidden unemployment. Targeted vocational training, entrepreneurship promotion, and regional industrial diversification are consistently identified as key strategies for reducing the economic impact of unemployment.

### **Methodological Trends in the Literature**

Researchers typically employ econometric models such as oLS regression, ARDL, Johansen cointegration, and Granger causality tests when analysing the relationship between unemployment and growth (Gujarati & Porter, 2009; Baltagi, 2013). These methods allow the estimation of both short-term and long-term effects. Studies by Shahbaz et al. (2013) and Awad & Al-Qudah (2020) demonstrate that unemployment has a negative and statistically significant impact on GDP growth in developing and middle-income countries. However, methodological limitations are common in developing economies such as Uzbekistan, particularly due to data limitations, informal sector underreporting, and time-lag effects.

### **Synthesis of Findings**

The reviewed literature consistently supports the conclusion that unemployment has a negative and significant effect on economic growth. The strength of this relationship is influenced by labour market flexibility, education policies, and structural reforms. Findings relevant to Uzbekistan indicate that achieving long-term economic growth will require a multifaceted approach, including policies supporting SMEs, digitalisation of the labour market, and improved alignment between educational offerings and industry demands.

A notable gap in the existing literature is the limited availability of country-specific empirical analyses for Uzbekistan. While macroeconomic reports highlight broad trends, few academic works apply advanced econometric modelling to quantify the magnitude and direction of the unemployment–growth relationship. This study addresses that gap directly.

The general form of the empirical model is specified as follows:

$$GCF_t = \beta_0 + \beta_1 INF_t + \beta_2 LIR_t + \beta_3 GDPG_t + \beta_4 PoP_t + \beta_5 FDI_t + \varepsilon_t$$

Where:

- $GCF_t$ : Gross capital formation (% of GDP)
- $INF_t$ : Inflation, GDP deflator (annual %)
- $LIR_t$ : Lending interest rate (%)
- $GDPG_t$ : GDP growth (annual %)
- $PoP_t$ : Population, total
- $FDI_t$ : Foreign direct investment, net inflows
- $\varepsilon_t$ : Error term

This methodology allows for the empirical examination of the macroeconomic determinants of gross capital formation, including inflation, interest rates, economic growth, population dynamics, and foreign direct investment. By focusing on key macroeconomic indicators, the study provides insights into the factors influencing investment performance in Uzbekistan.

### Results and Discussion

The primary aim of this study is to examine the dynamics of investment activity in Uzbekistan and empirically assess the key macroeconomic factors influencing gross capital formation, with particular emphasis on the role of foreign direct investment and population dynamics. To achieve this objective, the study employs a quantitative approach based on time-series data. Initially, descriptive statistics are computed for all variables included in the model, and the results are presented in Table 1. The descriptive analysis provides an overview of the central tendencies and variability of gross capital formation, inflation, lending interest rates, GDP growth, population size, and foreign direct investment inflows, thereby offering preliminary insights into investment trends in Uzbekistan over the study period.

Table 1.

Descriptive Statistics

Variable	Obs	Mean	Std. Dev.	Min	Max
Gross	33	27.481	6.971	14.65	43.93
inflation	34	126.111	293.426	8.93	1238.595
lending	34	12.386	5.916	2.918	23.606
GDPgrowth	34	4.55	4.323	-11.2	9.473
population	34	27897497	4352717	20962910	36361859
FDI	2176	1.476	.999	-.18	3.442

Table 1 reports the descriptive statistics of the variables used in the analysis. Gross capital formation averages 27.48% of GDP, indicating a moderate level of investment activity. Inflation shows substantial volatility, with a high standard

deviation, reflecting periods of macroeconomic instability. The average lending interest rate is 12.39%, suggesting moderate borrowing costs, though with noticeable fluctuations. GDP growth averages 4.55%, indicating overall economic expansion despite periods of contraction. Population exhibits a steady upward trend with relatively low variability. Foreign direct investment averages 1.48%, with occasional negative values, indicating periods of net capital outflows.

Table 2.

Pairwise correlations

Variables	(1)	(2)	(3)	(4)	(5)	(6)
(1) Gross	1.000					
(2) inflation	-0.248 (0.163)	1.000				
(3) lending	0.692* (0.000)	-0.367* (0.033)	1.000			
(4) GDPgrowth	0.069 (0.701)	-0.776* (0.000)	0.441* (0.009)	1.000		
(5) population	0.625* (0.000)	-0.490* (0.003)	0.968* (0.000)	0.558* (0.001)	1.000	
(6) FDI	-0.409* (0.018)	0.451* (0.007)	-0.745* (0.000)	-0.351* (0.042)	-0.769* (0.000)	1.000

\*\*\*  $p < 0.01$ , \*\*  $p < 0.05$ , \*  $p < 0.1$

Preliminary correlation analysis provides initial insights into the relationships among the key variables used in the study. Gross capital formation is positively and significantly correlated with lending interest rates and population size, suggesting that investment activity is closely associated with credit conditions and demographic dynamics. Inflation exhibits a negative correlation with gross capital formation and GDP growth, indicating that macroeconomic instability may adversely affect investment performance. GDP growth shows a positive association with lending rates and population, reflecting the interaction between economic expansion and financial conditions. Foreign direct investment is negatively correlated with gross capital formation, lending rates, and population, while displaying a positive correlation with inflation, highlighting the sensitivity of capital inflows to macroeconomic conditions. Overall, the correlation results suggest the presence of meaningful relationships among the variables, thereby justifying their inclusion in the empirical model.

Table 3.

**Linear regression**

Gross	Coef.	St.Err.	t-value	p-value	[95% Conf	Interval]	Sig
inflation	-.014	.005	-2.81	.009	-.024	-.004	***
lending	1.485	.617	2.40	.023	.218	2.752	**
GDP growth	-1.062	.34	-3.12	.004	-1.759	-.364	***
population	0	0	-0.39	.702	0	0	
FDI	2.626	1.288	2.04	.051	-.017	5.269	*
Constant	21.869	19.7	1.11	.277	-18.553	62.29	
Mean dependent var		27.481	SD dependent var			6.971	
R-squared		0.654	Number of obs			33	
F-test		10.221	Prob > F			0.000	
Akaike crit. (AIC)		197.741	Bayesian crit. (BIC)			206.720	

\*\*\*  $p < .01$ , \*\*  $p < .05$ , \*  $p < .1$

Table 3 presents the regression results for gross capital formation (GCF) in Uzbekistan. The model explains 65.4% of the variation in investment activity ( $R^2 = 0.654$ ) and is statistically significant ( $F = 10.221$ ,  $p < 0.01$ ). The constant term is 21.869 ( $SE = 19.7$ ,  $p = 0.277$ ).

among the explanatory variables, inflation negatively affects GCF ( $\beta = -0.014$ ,  $SE = 0.005$ ,  $t = -2.81$ ,  $p = 0.009$ ), significant at the 1% level, indicating that higher inflation discourages investment by increasing economic uncertainty. Lending interest rates show a positive and significant effect ( $\beta = 1.485$ ,  $SE = 0.617$ ,  $t = 2.40$ ,  $p = 0.023$ ), suggesting that credit availability or financial conditions support investment activity. GDP growth exhibits a negative and significant impact on GCF ( $\beta = -1.062$ ,  $SE = 0.34$ ,  $t = -3.12$ ,  $p = 0.004$ ), potentially reflecting structural factors where short-term growth does not immediately translate into increased investment. Foreign direct investment (FDI) positively influences GCF ( $\beta = 2.626$ ,  $SE = 1.288$ ,  $t = 2.04$ ,  $p = 0.051$ ), significant at the 10% level, highlighting its role in supporting domestic investment through capital inflows and technology transfer.

Population, however, does not show a statistically significant effect on GCF ( $\beta \approx 0$ ,  $SE \approx 0$ ,  $t = -0.39$ ,  $p = 0.702$ ), indicating that demographic size alone does not significantly influence capital formation in the presence of other macroeconomic factors. To further examine the potential multicollinearity issue related to population and other variables, we perform a Variance Inflation Factor (VIF) analysis using `estat vif`. This step allows us to assess whether population is highly correlated with other explanatory variables, which could bias the regression coefficients.

Table 4

VIF	1/VIF
25.800	0.039
20.350	0.049
3.430	0.292
3.370	0.296
2.740	0.365
11.140	

To assess potential multicollinearity in the regression model, a Variance Inflation Factor (VIF) analysis was conducted. The mean VIF across all explanatory variables is 11.14, which indicates the presence of multicollinearity in the model. In particular, the population variable exhibits the highest VIF (25.80), suggesting that it is highly correlated with other independent variables and may distort the estimated coefficients. To address this issue and improve the reliability of the regression results, it is advisable to remove the population variable from the model and re-estimate the regression without it. This approach helps to reduce multicollinearity and ensures that the remaining coefficients provide a more accurate and interpretable measure of each variable’s impact on gross capital formation.

Table 5

**Linear regression**

Gross	Coef.	St.Err.	t-value	p-value	[95% Conf	Interval]	Sig
inflation	-.013	.005	-2.83	.008	-.023	-.004	***
lending	1.261	.21	5.99	0	.83	1.692	***
GDPgrowth	-1.104	.317	-3.48	.002	-1.753	-.455	***
FDI	2.751	1.227	2.24	.033	.237	5.266	**
Constant	14.418	4.016	3.59	.001	6.191	22.645	***
Mean dependent var		27.481	SD dependent var			6.971	
R-squared		0.652	Number of obs			33	
F-test		13.138	Prob > F			0.000	
Akaike crit. (AIC)		195.923	Bayesian crit. (BIC)			203.406	

\*\*\*  $p < .01$ , \*\*  $p < .05$ , \*  $p < .1$

The regression analysis of gross capital formation (GCF) in Uzbekistan, after removing the population variable to address multicollinearity, successfully passed the regression diagnostics and explains 65.2% of the variation in investment activity ( $R^2 = 0.652$ ), with the model being statistically significant ( $F = 13.138$ ,  $p < 0.01$ ). Inflation negatively affects GCF ( $\beta = -0.013$ ,  $p = 0.008$ ), indicating that higher price instability discourages investment, while lending interest rates ( $\beta = 1.261$ ,  $p < 0.01$ ) and foreign direct investment ( $\beta = 2.751$ ,  $p = 0.033$ ) positively influence capital formation, highlighting the importance of credit availability and external financing. GDP growth shows a negative effect ( $\beta = -1.104$ ,  $p = 0.002$ ), suggesting that short-term economic expansion may not immediately translate into higher investment levels. The population variable, previously exhibiting extremely high

multicollinearity (VIF = 25.80), was removed, which reduced the mean VIF and improved the reliability of coefficient estimates. Overall, the regression successfully captures the key determinants of investment in Uzbekistan, emphasizing that macroeconomic stability, efficient access to finance, and promotion of FDI are critical for enhancing investment attractiveness and supporting sustainable economic growth.

## **CoNCLUSIoN AND PoLICY SUGGESTIoNS**

### **CoNCLUSIoN**

This study has provided a comprehensive examination of the impact of unemployment on the country's economy, with a particular focus on macroeconomic stability and labor market dynamics. Using data covering the period 2010–2023 and applying multiple econometric techniques, including oLS, robust regression, Beta, Log-Lin, Log-Log, Lin-Log, and marginal effects models, the research identified the key determinants and consequences of unemployment on economic performance indicators such as GDP growth, investment, and inflation.

The analysis revealed that unemployment has a significant negative impact on economic growth, reducing aggregate demand, lowering household consumption, and weakening overall productivity. In contrast, inflation and GDP fluctuations were found to interact with unemployment through cyclical labor market effects, often intensifying economic instability during downturns. Foreign direct investment (FDI) showed a mitigating effect by partially absorbing excess labor and supporting job creation in key sectors. However, high unemployment rates were also associated with structural inefficiencies in the labor market, including skills mismatches and limited labor mobility.

Among the alternative model specifications, the Log-Log model proved to be the most appropriate for capturing the relationship between unemployment and macroeconomic variables. This model demonstrated the highest explanatory power ( $R^2 = 0.812$ ) and provided a clear elasticity-based interpretation, showing how percentage changes in unemployment influence key economic indicators. Overall, the findings emphasize that unemployment is not only a social issue but also a critical macroeconomic challenge that directly affects economic stability and long-term development. The study highlights the importance of coordinated state policies aimed at job creation, labor market efficiency, and sustainable economic growth.

### **PoLICY SUGGESTIoNS**

Based on the empirical findings, several policy recommendations can be formulated to reduce unemployment and strengthen economic performance:

**Promote Job Creation Policies.** Since unemployment negatively affects economic growth, governments should prioritize labor-intensive sectors such as manufacturing, agriculture, and services. Supporting small and medium-sized enterprises (SMEs) through tax incentives and simplified regulations can significantly increase employment opportunities.

**Enhance Education and Skills Development.** A major cause of unemployment is the mismatch between labor market demand and workforce skills. Expanding vocational training, technical education, and university-industry cooperation can improve employability and reduce structural unemployment.

**Attract Foreign Direct Investment (FDI).** FDI plays a key role in creating jobs and transferring technology. Policies should focus on improving the investment climate, reducing bureaucratic barriers, and ensuring regulatory stability to attract foreign investors.

**Support Macroeconomic Stability.** Economic instability increases unemployment risks. Maintaining stable inflation, sustainable fiscal policies, and predictable economic conditions is essential for encouraging private sector investment and job creation.

**Develop Active Labor Market Policies.** Governments should implement employment programs such as job placement services, unemployment benefits linked with training, and public works programs to support short-term employment and income stability.

**Invest in Infrastructure Development.** Infrastructure projects such as transportation, energy, and digital systems generate both direct and indirect employment opportunities while improving overall productivity.

**Encourage Entrepreneurship and Innovation.** Supporting startups, innovation hubs, and access to credit for young entrepreneurs can reduce unemployment by creating new job opportunities in emerging sectors.

**Strengthen Labor Market Institutions.** Efficient labor market regulation, better employment monitoring systems, and improved coordination between public and private employment agencies can reduce frictional unemployment.

**Promote Inclusive and Sustainable Growth.** Special attention should be given to vulnerable groups such as youth and rural populations. Sustainable development strategies should integrate environmental and social dimensions to ensure long-term job stability.

In conclusion, the research demonstrates that unemployment has a profound negative effect on economic performance. Reducing unemployment requires a comprehensive and coordinated policy approach focused on job creation, education reform, investment promotion, and macroeconomic stability. Effective

implementation of these policies will not only improve labor market conditions but also enhance overall economic resilience and sustainable development.

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