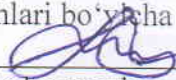


**O‘ZBEKISTON RESPUBLIKASI**  
**OLIY TA’LIM, FAN VA INNOVATSIYALAR VAZIRLIGI**  
**SAMARQAND DAVLAT ARXITEKTURA – QURILISH UNIVERSITETI**

**“KELISHILGAN”**  
o‘quv ishlari bo‘yicha  
prorektor   
M.T. Shodmonqulov  
Ro‘yxatga olindi: № 54/a  
«\_\_\_» avgust 2024 yil



**EKONOMETRIYA 1**

**FAN DASTURI**

**Bilim sohasi:** 300000 – Ijtimoiy fanlar, jurnalistika va axborot

**Ta’lim sohasi:** 310000 – Ijtimoiy va xulq atvorga mansub fanlar

**Ta’lim yo’nalishi:** 60310100 – Iqtisodiyot (tarmoqlar va sohalar bo’yicha)

**Kurs ma'lumotlari**  
Course Information Form

<b>Modul kodi</b> Code ITT 3270	<b>O'quv yili</b> 2024-2025	<b>Semestr</b> 5	<b>ECTS – Kreditlar</b> 5-semestr -6		
<b>Modul turi</b> Majburiy	<b>Ta'lim tili</b> O'zbek		<b>Auditoriya soatlari</b>		<b>Mustaqil ta'lim</b> (soat/hafta) Independent Education (hour/week)
<b>Fan nomi</b> Title	<b>Jami yuklama</b>	<b>Ma'ruza</b> (soat/hafta) Lecture (hour/week)	<b>Amaliy</b> (soat/hafta) Practical (hour/week)	<b>Laboratoriya</b> (soat/hafta) Laboratory (hour/week)	
Ekonometriya 1	5-semestr -180	5-semestr -4			5-semestr -8

<b>Dastlabki shart</b> Prerequisite	<b>Yo'q</b> None
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<b>Semestr</b> Semestr	<b>Kuzgi</b> Fall
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<b>Kurs tili</b> Course language	<b>O'zbek</b> Uzbek
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<b>O'quv kursi</b> Level of Course	<b>Uchunchi kurs</b> Third Cycle
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<b>Ta'lim yo'nalishlari</b> Course type	60310100 - Iqtisodiyot (tarmoqlar va sohalar bo'yicha)
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<b>Kurs toifasi</b> Course Category	Asosiy Core Courses
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<b>Dars shakli</b> Mode of Delivery	An'anaviy (Yuzma – yuz muloqot) Face – to - face
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<b>Ma'sul kafedra</b> Owner academic unit	Iqtisodiyot Economy
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<b>Kursga ma'sul</b> Cours Coordinator	I.X.Sobirov
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<b>O'qituvchilar</b> Instructor(s)	M.A.Turayeva
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<b>Yordamchilar</b> Asistant(s)	M.A.Rayimov
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<b>Fanni o'qitishdan maqsad</b> Course objectives	<p>Ushbu kursning maqsadi talabalarni asosiy ekonometrik usullar bilan qurollantirishdir. Ekonometrika - bu iqtisodiy ma'lumotlarni iqtisodiy nazariya asosida tahlil qiluvchi ijtimoiy fan. Iqtisodiy ma'lumotlarning tabiati statistik usullarni to'g'ridan-to'g'ri moslashtirishga inkon bermaganligi sababli, maxsus baholash va xulosa chiqarish usullari ishlab chiqilgan. Ekonometrika I ushbu usullarni kesa ma'lumotlar bazasida o'rgatadi.</p> <p>The aim of this course is to equip students with basic econometric methods. Econometrics is a social science that analyzes economic data under the light of economic theory. Since the nature of economic data does not permit straightforward adaptation of statistical methods special estimation and inference methods have been developed. Econometrics I teaches these methods in the cross-section data framework..</p>
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<b>Fanning mazmuni</b> Course content	Oddiy regressiya modeli, Oddiy eng kichik kvadratlarni baholash, Klassik regressiya modeli, Statistik xulosa, t, F va LM testlari,
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	<p>Cheklangan namuna va asimptotik xususiyatlar, Soxta o'zgaruvchilar, Spetsifikatsiya xatosi va heteroskedastiklik. Simple regression model, Ordinary Least Squares Estimation, Classical regression model, Statistical inference, t, F and LM tests, Finite sample and asymptotic properties, Dummy variables, Specification error and heteroskedasticity</p>
<p><b>Tavsiya qilingan yoki talab qilinadigan adabiyotlar ro'yxati</b> Recommended Or Required Reading</p>	<p><b>Asosiy adabiyotlar:</b></p> <ol style="list-style-type: none"> <li>1. Eric Matthes. Python Crash Course Paperback. England 2015. 205p.</li> <li>2. Discovering Computers 2016. Tools, Apps, Devices, and the Impact of Texnology. 691 pg.</li> <li>3. Krishna Rungta. Learn Python in 1 Day: Complete Python Guide with Examples. India 2016. -182 p.</li> <li>4. Narasimha Karumanchi. Data Structure and Algorithmic Thinking with Python Paperback. India 2015. 170p.</li> <li>5. Lentin Joseph. Fundamentals of Python for Robotics Programming, 2018</li> <li>6. John Hunt, A Beginners Guide to Python 3 Programming, <a href="http://www.springer.com/series/7592">http://www.springer.com/series/7592</a>, 2019</li> <li>7. Michael J. Ware, Introduction to Python Department of Physics and Astronomy Brigham Young University, 2019</li> <li>8. Hetland, M. L., Norton, P, Wilson, H. B. Introduction to Python Programming, Lecture Notes used in Semester 1 of the module Introduction to computational Physics (U24200, years 2019/2020, 2020/2021)</li> <li>9. Axadov A., Nazarov F. Python tilida dasturlash asoslari (1-qism), SamDU-2020.</li> </ol> <p><b>Qo'shimcha adabiyotlar:</b></p> <ol style="list-style-type: none"> <li>10. Eshtemirov S. Nazarov F. Algoritmash va dasturlash asoslari. O'quv qo'llanma. Samarqand 2019. -208 b.</li> <li>11. U.A. Nazarov, Informatika faniga kirish, darslik – 2023</li> <li>12. M.T. Shodmonqulov Informatika faniga kirish, o'quv qo'llanma (amaliy mashg'ulotlarni bajarish uchun), "Ilm Ziyozakovat" 2023 yil.</li> </ol> <p><b>Axborot manbalari:</b></p> <ol style="list-style-type: none"> <li>1. <a href="http://www.lex.uz">www.lex.uz</a> – O'zbekiston Respublikasi Qonun hujjatlari ma'lumotlari milliy bazasi;</li> <li>2. <a href="http://www.bologna.yildiz.edu.tr/index.php?r=program/bachelor">http://www.bologna.yildiz.edu.tr/index.php?r=program/bachelor</a></li> <li>3. <a href="https://dasturchi.uz/programming-tutorials/piton-darsliklar">https://dasturchi.uz/programming-tutorials/piton-darsliklar</a> <a href="https://pythonworld.ru/samouchitel-python">https://pythonworld.ru/samouchitel-python</a></li> </ol>
<p><b>Tavsiya etilgan qo'shimcha dastur komponentlari</b> Recommended Optional Program Components</p>	<p>Yo'q\ (bor bo'lsa yoziladi)</p> <p>None</p>

<b>Kursni o'rganish natijalari</b> Course learning outcomes	
1	<p>Talabalar kesma ma'lumotlar kontekstida ekonometrik tahlilning asosiy usullaridan foydalanish qobiliyatiga ega bo'ladi</p> <p>Students will be capable of using basic methods of econometric analysis in the context of cross-section data</p>
2	<p>Muvaffaqiyatli talabalar regressiya modellarini baholash uchun zarur bo'lgan bilim va ko'nikmalar bilan jihozlangan bo'ladi</p> <p>Muvaffaqiyatli talabalar regressiya modellarini baholash uchun zarur bo'lgan bilim va ko'nikmalar bilan jihozlangan bo'ladi</p>



3	Muvaffaqiyatli talabalar oddiy eng kichik kvadratlar tizimida qo'llaniladigan taxminlar bilan bog'liq muammolar manbalarini aniqlay oladilar.. Successful students will be able to determine the sources of problems associated with the assumptions used in the Ordinary Least Squares framework.
4	Talabalar GRETL va Eviews kabi ekonometrik dasturlar paketlaridan foydalanishlari mumkin. Students will be able to use econometric software packages such as GRETL and Eviews.
5	Muvaffaqiyatli talabalar regressiya sharoitida gipoteza testlarini o'tkazish uchun zarur bo'lgan bilim va ko'nikmalar bilan jihozlangan bo'ladi. Successful students will be equipped with the knowledge and skills necessary to conduct hypothesis tests in a regression setting.

<b>Haftalik mavzular va tegishli tayyorgarlik ishlari</b> Weekly Subjects and Related Preparation Studies		
<b>Hafta</b> Week	<b>Mavzular</b> Themes	<b>Resurslar</b> Related preparation
1.	Statistikani ko'rib chiqish, Ekonometrikaning ta'rifi, ko'lami va maqsadi, iqtisodiy ma'lumotlar turlari, ekonometrik tahlil bosqichlari	Darslik (1-bob, A, B,C-illovalar)
2.	Oddiy regressiya modeli, oddiy eng kichik kvadratlar (OLS) bahosi, Funktsional shakl va o'lchov shkalalari	Darslik Ch. 2
3.	Ko'p chiziqli regressiya modelining OLS bahosi, xususiyatlari OLS hisoblagichlari	Darslik Ch. 3
4.	OLS baholovchilarining chekli namunaviy xususiyatlari, xolislik va samaradorlik, Gauss-Markov teoremasi	Darslik Ch. 4
5.	Ko'p regressiya modelida xulosa chiqarish, Namuna taqsimoti OLS hisoblagichlari	Darslik Ch. 5
6.	Gipotezani tekshirish: t-test, intervalni baholash	Darslik Ch. 6
7.	Gipotezani tekshirish: F-testi, chiziqli cheklovlarni tekshirish	Darslik Ch. 7
8.	OLS baholovchilarining asimptotik xossalari, izchillik, asimptotik samaradorlik, asimptotik normallik, LM testi	Darslik Ch. 8
9.	OLS baholovchilarining asimptotik xossalari, izchillik, asimptotik samaradorlik, asimptotik normallik, LM testi	Darslik Ch. 9
10.	Funksional shakl, yaxshilik o'lchovlari, prognozlash va qoldiq tahlil qilish	Darslik Ch. 10
11.	Soxta o'zgaruvchi	Darslik Ch. 11
12.	Soxta o'zgaruvchi	Darslik Ch. 12
13.	Geteroskedastizm I	Darslik Ch. 8
14.	Geteroskedastizm II	Darslik Ch. 8
15.	Yakuniy nazorat	Darslik Ch. 9

<b>Baholash jarayoni</b> Evaluation System		
<b>Mashg'ulot turi</b> Activities	<b>Soni</b> Number	<b>Baholash</b> Percentage of Grade
<b>Darsga qatnashish</b> Attendance / participation	15	30
<b>Laboratoriya ishi</b> Laboratory		
<b>Amaliy ish (qo'shimcha vazifa)</b> Application		

<b>Kurs ishi</b> Field work		
<b>Maxsus kurs amalyoti (ish joyida)</b> Special course internship (work placement)		
<b>Testlar</b> Quizzes / studio critics		
<b>Uyga vazifani baholash</b> Homework assignments		
<b>Ijodiy ish (taqdimot)</b> Presentations / jury		
<b>Loyiha ishi</b> Project		
<b>Seminar</b> Seminar / workshop		
<b>Oraliq nazorat</b> Mid -Terms	2	20
<b>Yakuniy nazorat</b> Final	1	50
<b>O'zlashtirish ko'rsatgichi</b> Percentage of in – term studies		50
<b>Yakuniy imtihon bahosi</b> Percentage of final examination		50
<b>Jami</b> Total		100

<b>ECTS taqsimoti</b> ECTS workload table			
<b>Topshiriqlar</b> Activities	<b>Soni</b> Number	<b>Davomiyligi (soat)</b> Duration (hour)	<b>Umumiy yuklama</b> Total workload
<b>Mashg'ulot soati</b> Course hours	30	2	60
<b>Laboratoriya ishi</b> Laboratory			
<b>Amaliy ish (qo'shimcha vazifa)</b> application			
<b>Kurs ishi</b> Field work			
<b>Mustaqil ta'lim (maslahat)</b> Study hours out of class	15	8	120
<b>Maxsus kurs amalyoti (ish joyida)</b> Special course internship (work placement)			
<b>Uyga vazifani baholash</b> Homework assignments			
<b>Testlar / Viktorina</b> Quizzes / studio critics			
<b>Loyiha ishi</b> Project			
<b>Ijodiy ish (taqdimot)</b> Presentations / seminar			
<b>Oraliq nazorat</b> Mid – terms (Examination +Examination prep. Duration)			
<b>Yakuniy nazorat (nazorat va nazoratga tayyorlanish soati)</b> Final (examination +examination)			

