O'ZBEKISTON RESPUBLIKASI
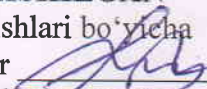## OLIY TA'LIM, FAN VA INNOVATSIYALAR VAZIRLIGI

MIRZO ULUG'BEK NOMIDAGI SAMARQAND DAVLAT ARXITEKTURA – QURILISH UNIVERSITETI

"KELISHILGAN"
o'quv ishlari bo'yicha
prorektor
M.T.Shodmonqulov
Ro'yxatga olindi: № 191/a
«30» avgust 2024 yil

"TASDIQLAYMAN"
Rektor
Ch.J. Turkyilmaz
avgust 2024 yil

AMALIY FANLAR BOYICHA STATISTIKA

FAN DASTURI

Bilim sohasi :   700 000   - Muxandislik, ishlov berish va qurilish sohalari

Ta'lim sohasi: 730 000   - Arxitektura va qurilish

Ta'lim yo'nalishi: 60730900   - Shahar qurilishi va loyihalash

Samarqand – 2024

Kurs ma'lumotlari
Course Information Form

Modul kodi Code TMF1570	O'quv yili 2024-2025	Semestr 2	ECTS – Kreditlar 2-semestr -3				
Modul turi Majburiy	Ta'lim tili O'zbek		Auditoriya soatlari				Mustaqil ta'lim (soat/hafta) Independent Education (hour/week)
Fan nomi Title	Jami yuklama		Ma'ruza (soat/hafta) Lecture (hour/week)	Amaliy (soat/hafta) Practical (hour/week)	Laboratoriya (soat/hafta) Laboratory (hour/week)		
Amaliy fanlar boyicha statistika	2-semestr -90		2-semestr -3				2-semestr -3

Dastlabki shart Prerequisite	Yo'q None

Semestr Semestr	Bahorgi Spring

Kurs tili Course language	O'zbek Uzbek
O'quv kursi Level of Course	Birinchi kurs First Cycle
Ta'lim yo'nalishlari Course type	60730900 - Shahar qurilishi va loyihalash
Kurs toifasi Course Category	Asosiy Core Courses
Dars shakli Mode of Delivery	An'anaviy (Yuzma – yuz muloqot) Face – to - face

Ma'sul kafedra Owner academic unit	Iqtisodiyot
Kursga ma'sul Cours Coordinator	Komilova M.Sh.
O'qituvchilar Instructor(s)	-
Yordamchilar Asistant(s)	-

Yo'nalish maqsadlari Course Objectives	Muhandislik dasturlarida statistikaning o'rni va ahamiyati bilan tanishtirish. Kimgastatistik ma'lumotlarni yig'ish, umumlashtirish va statistik ma'lumotlar uchun qo'llaniladigan usullarni o'rgatish xulosa chiqarish (intervalni baholash, gipoteza testlari). Talabaga asosiy bilim berish o'z kasbi bilan bog'liq statistik muammolarni hal qilish uchun statistik bilim maydon. To introduce the place and importance of Statistics in engineering applications. To teach statistical data collection, summarization and

	techniques used for statistical inference (interval estimation, hypothesis tests). To give the student basic statistical knowledge to solve statistical problems related to his / her professional field.
Yo'nalish mazmuni Course Content	Asosiy tushunchalar va ta'riflar, ma'lumotlarni yig'ish, statistik tahlil, ehtimollik taqsimotlar, statistik talqin, tanlab olish va tanlash taqsimoti, statistik xulosalar. Basic concepts and definitions, data collection, statistical analysis, probability distributions, statistical interpretation, sampling and sampling distributions, statistical inferences.
Kutilayotgan natijalar Course learning Outcomes	Talabalar kundalik masalalarda fikrlash tarzini o'zlashtira oladilar. Talabalar taqsimot qatorlarini tuzish va tahlil qilish usullarini egallash; statistik ko'rsatkichlar, ularning turlari va shakllari, taqqoslash yo'llari, makro va mikro iqtisodiy ko'rsatkichlar haqida chuqur tasavvurga ega bo'lish; tanlanma kuzatishning mohiyati, nazariy va amaliy masalalari, tanlanmaning reprezentativligini baholash yo'llarini bilish, ilmiy va tajribaviy gipotezalarni statistik tekshirish va yechimlarni olish usullarini egallash;bozor hodisalari o'rtasidagi sabab-oqibat bog'lanishlarini ochish uchun korrelyasion-regression tahlilni qo'llay olish;dinamika qatorlarini tuzish va tahlil qilish usulubiyatini bilish;statistika amaliyotida qo'llaniladigan iqtisodiy indekslarni hisoblash bo'yicha nazariy-amaliy bilimlarni uzviylik va uzluksizlikda o'rgatishdan iborat. Students can master the way of thinking in everyday matters. Students master the methods of drawing up and analyzing distribution lines; to have a deep understanding of statistical indicators, their types and forms, ways of comparison, macro and micro economic indicators; - to know the essence of sample observation, theoretical and practical issues, methods of evaluating the representativeness of the sample, statistical verification of scientific and experimental hypotheses and methods of obtaining solutions;- to be able to use correlation-regression analysis to reveal cause-and-effect relationships between market
O'qish uchun taklif yoki talab qilingan ro'yxat Recommended or required reading	**Asosiy adabiyotlar** 1. James McClave, Terry Sincich Statistics. Textbook. USA. 2017 p. 2. Daris Singpurwalla A Handbook of statistics: an Overview of Statistical Methods 1 st edition. 2017 year. 3. Аюбжонов А.Х., Соатов Н.М., Набиев X. Статистика. Дарслик – Т.: 2019, 814 бет 4. Аюбжонов А.Х., Соатов Н.М., Набиев X. Статистика. Дарслик – Т.: 2019, 433 бет 5. Soatov N.M., Nabiyev X., Nabiyev D.X., Tillxo'jaeva G.N. Statistika. Darslik. – T.: TDIU, 2011. – 546 bet. 6. Абдуллаев Ё. Статистика назарияси. дарслик. – Т.: Ўқитувчи, 2002. – 647 б. 7. Soatov N.M., Tillaxo'jayeva G.N. Statistika nazariyasi. Darslik. – T.: TDIU, 2005. – 248 bet.

Hafta	Mavzular	Resurslar Related preparation
1	Definition of statistics and basic concepts, the nature of statistical research, statistical data types, collection	James McClave, Terry Sincich Statistics. Textbook. USA. 2017 p

	and compilation of data; summarization of data, summarization of data by graphical methods Statistikaga ta'rif va asosiy tushunchalar, statistik tadqiqotning mohiyati, statistik ma'lumotlar turlari, ma'lumotlarni to'plash va tuzish; ma'lumotlarni umumlashtirish, ma'lumotlarni grafik usullar bilan umumlashtirish	
2	Statistik seriyalar Statistical series	Daris Singpurwalla A Handbook of statistics: an Overview of Statistical Methods 1 st edition. 2017 year.
3	Markaziy tendentsiya o'lchovlari, tahliliy vositalar va ularning xususiyatlari bilan tanishish Introduction to central tendency measures, analytical means and their properties	James McClave, Terry Sincich Statistics. Textbook. USA. 2017 p
4	Mod, median, kvartillar Mod, median, quartiles	James McClave, Terry Sincich Statistics. Textbook. USA. 2017 p
5	Dispersiya o'lchovlari: dispersiya va standart og'ish Dispersion measures: Variance and standard deviation	Daris Singpurwalla A Handbook of statistics: an Overview of Statistical Methods 1 st edition. 2017 year.
6	Permutatsiya, kombinatsiya, ehtimollik Permutation, combination, probability	Daris Singpurwalla A Handbook of statistics: an Overview of Statistical Methods 1 st edition. 2017 year.
7	Ehtimollik taqsimoti; diskret ehtimollik taqsimoti: Bernulli, binomial, gipergeometrik va Puasson taqsimotlari Probability distributions;discrete probability distributions: Bernoulli, binomial, hypergeometric and Poisson distributions	Daris Singpurwalla A Handbook of statistics: an Overview of Statistical Methods 1 st edition. 2017 year.
8	Ehtimollik taqsimoti; diskret ehtimollik taqsimoti: Bernulli, binomial, gipergeometrik va Puasson taqsimotlari Probability distributions;discrete probability distributions: Bernoulli, binomial, hypergeometric and Poisson distributions	James McClave, Terry Sincich Statistics. Textbook. USA. 2017 p
9	Uzluksiz ehtimollik taqsimotlari: Oddiy taqsimot va chisquared taqsimot Continuous probability distributions: Normal distribution and chisquared distribution	Daris Singpurwalla A Handbook of statistics: an Overview of Statistical Methods 1 st edition. 2017 year.
10	Uzluksiz ehtimollik taqsimotlari: Oddiy taqsimot va chisquared taqsimot Continuous probability distributions: Normal distribution and chisquared distribution	James McClave, Terry Sincich Statistics. Textbook. USA. 2017 p
11	Statistik tanlov va tanlama taqsimoti: oddiy tasodifiy namuna olish Statistical sampling and sampling distributions: Simple random sampling	James McClave, Terry Sincich Statistics. Textbook. USA. 2017 p

12	Gipotezalarning bir va ikkita namunali testlari One- and Two-Sample Tests of Hypotheses	James McClave, Terry Sincich Statistics. Textbook. USA. 2017 p
13	Gipotezalarning bir va ikkita namunali testlari One- and Two-Sample Tests of Hypotheses	James McClave, Terry Sincich Statistics. Textbook. USA. 2017 p
14	ANOVA ANOVA	James McClave, Terry Sincich Statistics. Textbook. USA. 2017 p
15	ANOVA ANOVA	James McClave, Terry Sincich Statistics. Textbook. USA. 2017 p

Kursni o'rganish natijalari Course learning outcomes	
1	Statistikaning asosiy tushunchalarini o'rganish Learning the basic concepts of Statistics
2	Ma'lumotlarni grafik tarzda taqdim eta olish Being able to present data graphically
3	Markaziy tendentsiya ko'rsatkichlarini hisoblash va izohlash Calculating and interpreting measures of central tendency
4	Tarqatish o'lchovlarini tushunish va hisoblash imkoniyatiga ega bo'lish Being able to understand and calculate distribution measures
5	Ehtimollar taqsimotini tushunish va ulardan foydalanish Being able to understand and use prpbability distributions
6	Statistik tanlamalar haqida bilimga ega bo'lish To have knowledge about statistical sampling
7	Gipotezalarni o'rnatish va gipotezalarni sinab ko'rish Being able to set up hypotheses and test of hypotheses

Baholash jarayoni Evaluation System		
Mashg'ulot turi Activities	**Soni** Number	**Baholash** Percentage of Grade
Darsga qatnashish Attendance / particition	15	20
Laboratoriya ishi Laboratory		
Amaliy ish (qo'shimcha vazifa) Application		
Kurs ishi Field work		
Maxsus kurs amalyoti (ish joyida) Special course internship (work placement)		
Testlar Quizzes / studio crtics		
Uyga vazifani baholash Homework assignments		
Ijodiy ish (taqdimot) Presentations / jury		
Loyiha ishi Project		
Seminar Seminar / workshop		
Oraliq nazorat Mid -Terms	2	30
Yakuniy nazorat Final	1	50

		50
O'zlashtirish ko'rsatgich Percentage of in – term studies		50
Yakuniy imtihon bahosi Percentage of final examination		50
Jami Total		100

ECTS taqsimoti ECTS workload table			
Topshiriqlar Activities	**Soni** Number	**Davomiyligi (soat)** Duration (hour)	**Umumiy yuklama** Total workload
Mashg'ulot soati Course hours	15	3	45
Laboratoriya ishi Laboratory			
Amaliy ish (qo'shimcha vazifa) application			
Kurs ishi Field work			
Mustaqil ta'lim Study hours out of class	15	3	45
Maxsus kurs amalyoti (ish joyida) Special course internship (work placement)			
Uyga vazifani baholash Homework assignments			
Testlar / Viktorina Quizzes / studio critics			
Loyiha ishi Project			
Ijodiy ish (taqdimot) Presentations / seminar			
Oraliq nazorat Mid – terms (Examination +Examination prep. Duration)			
Yakuniy nazorat(nazorat va nazoratga tayyorlanish soati) Final (examination +examination prep. Duration)			
Jami yuklama Total workload			90
Kredit ECTS credit			3

Fan dasturi Samarqand davlat arxitektura-qurilish universiteti Kengashning 2024 yil 30 - avgustdagi - 1 -sonli yig'ilishi qarori bilan ma'qullangan.

Kafedra mudiri : M.Sh.Komilova

Tuzuvchi: M.Sh.Komilova