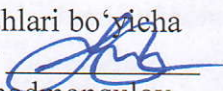


O‘ZBEKISTON RESPUBLIKASI
OLIY TA’LIM, FAN VA INNOVATSIYALAR VAZIRLIGI
SAMARQAND DAVLAT ARHITEKTURA – QURILISH UNIVERSITETI

“KELISHILGAN”
o‘quv ishlari bo‘yicha
prorektor 
M.T. Shodmonqulov
Ro‘yxatga olindi: № 29/a
«30» avgust 2024 yil



BIZNES MATEMATIKASI 1
FAN DASTURI

Bilim sohasi: 400000 – Biznes, boshqaruv va huquq

Ta’lim sohasi: 410000 – Biznes va boshqaruv

Ta’lim yo‘nalishi: 60410900 - Biznesni boshqarish

Kurs ma'lumotlari
Course Information Form

Modul kodi Code BIZ1030	O'quv yili 2024-2025	Semestr 1	ECTS – Kreditlar 1-semestr -4			
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)	Amaliyot (soat/hafta) Practical (hour/week)	Laboratoriya (soat/hafta) Laboratory (hour/week)		
Biznes matematika 1 Business mathematics 1	1-semestr -120	1-semestr -2			1-semestr -6	

Dastlabki shart Prerequisite	Yo'q None
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Semestr Semestr	Kuzgi Fall
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Kurs tili Course language	O'zbek Uzbek
O'quv kursi Level of Course	Birinchi kurs First Cycle
Ta'lim yo'nalishlari Course type	60410900 - Biznesni boshqarish
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	Ijtimoiy va tabiiy fanlar kafedrası Department of social and natural sciences
Kursga ma'sul Course Coordinator	Xudayorov Ulug'bek
O'qituvchilar Instructor(s)	Xudayorov Ulug'bek
Yordamchilar Asistant(s)	-

Fanni o'qitishdan maqsad Course objectives	Analistik fikrlash, modellashtirish, hayotiy muammolarni hal qilish va sharhlash qobiliyatini shu tarzda egallash. Gaining the ability of analytical thinking, modeling, solving and interpreting real life problems in this way.
Fanning mazmuni Course content	Sonlar, darajalar va irratsional ifodalar, identifikatsiya va faktorizatsiya, ratsional ifodalar va ularni soddalashtirish, Tenglamalar va grafiklar, Aloqa va funksiya, Biznes ilovalari, Moliyaviy matematika, Limitlar, Uzluksizlik, Hosila, Hosila ilovalari: Noaniq shakllar, maksimum va minimumlarni hisoblash, hosilaviy biznes ilovalari. Numbers, Exponents and radical expressions, Identities and factorization, Rational expressions and simplification, Equations and graphs, Relation and function, Business Applications, Financial

	Mathematics, Limit, Continuity, Derivative, Derivative applications: Indefinite shapes, maximum-minimum calculation, derivative business applications
Tavsiya qilingan yoki talab qilinadigan adabiyotlar ro'yxati Recommended Or Required Reading	<ol style="list-style-type: none"> 1. Basic Mathematical Analysis (for Business, Economics, Life Sciences and Social Sciences), 11th Edition, Authors: Ernest F. Haeussler, Jr., Richard S. Paul, Richard J. Wood, Translators: S. Demir, Ö. Uzun, AO Balce, A. Çağlar, Akademi Publishing, 2013. 2. For General Mathematics, Business, Economics, Life and Social Sciences / Calculus for Business, Economics, Life Sciences And Social Sciences, Barnett, Raymond A., Michael R. Ziegler, and Karl E. Byleen., Translated by Arif Sabuncuoğlu, 2019. 3. SH. SHaraxmetov, O.T. Kurbanov., Iqtisodchilar uchun matematika., O'z. faylasuflari milliy jamiyati nashriyoti., T-2017 4. Xurramov Sh.R. Oliy matematika. T.: «Tafakkur», 1-jild. 2018. 5. Xurramov Sh.R. Oliy matematika. Misol va masalalar. Nazorat topshiriqlari. 1- qism, 2- qism. T: Fan va texnologiyalar, 2015.
Tavsiya etilgan qo'shimcha dastur komponentlari Recommended Optional Program Components	Yo'q\ (bor bolsa yoziladi) None

Kursni o'rganish natijalari

Course learning outcomes

1.	Asosiy matematik bilimlarni olish Gaining basic math knowledge
2.	Analitik fikrlash qobiliyatini egallash Gaining analytical thinking ability
3.	Abstrakt fikrlash qobiliyatini egallash Gaining the ability to think abstractly
4.	Haqiqiy hayot muammolarini modellashtirish, yechish va sharhlash qobiliyatiga ega bo'lish Gaining the ability to model, solve and interpret real life problems

Haftalik mavzular va tegishli tayyorgarlik ishlari

Weekly Subjects and Related Preparation Studies

Hafta Week	Mavzular Themes	Resurslar Related preparation
1.	Haqiqiy sonlar to'plami, Funktsiyalar, Maxsus funktsiyalar.	1-4-darsliklar
2.	Funktsiyalarning kombinatsiyasi. Murakkab funktsiyalar, teskari funksiya, to'g'ri burchakli koordinatalar sistemasida grafiklar.	1-4-darsliklar
3.	Simmetriya, Funksiya grafiklarini ko'chirish va tasvirlash, to'g'ri chiziqlar, chiziqli funktsiyalar va uning tatbiqlari	1-4-darsliklar
4.	Kvadrat funktsiyalar, chiziqli tenglamalar sistemalari	1-4-darsliklar
5.	Ko'rsatkichli funktsiyalar, logarifmik funktsiyalar.	1-4-darsliklar
6.	Logarifmlarning xossalari. Logarifmik va ko'rsatkichli tenglamalar.	1-4-darsliklar
7.	Sonli ketma-ketliklar	1-4-darsliklar
8.	Funktsiyalarning limitlari.	1-4-darsliklar
9.	Hosilaning ta'rifi, uning geometrik, mexanik va iqtisodiy ma'nolari. Differensiallash qoidalari. A'asosiy elementar funktsiyalarning hosilalari.	1-4-darsliklar
10.	Differensiallanuvchanlik va uzluksizlik. Ko'paytirish va bo'lish qoidalari, murakkab funktsiyaning hosilasi	1-4-darsliklar
11.	Logarifmik funktsiyalarning hosilasi, ko'rsatkichli funktsiyalarning hosilalari	1-4-darsliklar

12.	Oshkormas funksiyani differensiallash, logarifmik differensial	1-4-darsliklar
13.	Yuqori tartibli hosilalar. Funksiyaning ekstremumi	1-4-darsliklar
14.	Yopiq sohadagi funksiyaning ekstremum qiymatlari. Funksiya grafigining qavariqligi	1-4-darsliklar
15.	Funksiyani to'liq tekshirish va grafigini chizish.	1-4-darsliklar

Baholash jarayoni

Evaluation System

Mashg'ulot turi Activities	Soni Number	Baholash Percentage of Grade
Darsga qatnashish Attendance / participation	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
O'zlashtirish ko'rsatgichi 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	2	30
Laboratoriya ishi Laboratory			
Amaliy ish (qo'shimcha vazifa) application			
Kurs ishi Field work			
Mustaqil ta'lim Study hours out of class	10	9	90
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			120
Jami yuklama / 30 (soat) Total workload / 30(h)			120/30=4
Kredit ECTS credit			4

Qo'shimcha eslatmalar Extra Notes	Yo'q\ (bor bolsa yoziladi) None
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Fan dasturi Mirozo Ulug'bek nomidagi Samarqand davlat Arxitektura-qurilish universitet kengashining 2024 yil ___-avgustdagi ___-sonli bayonnomasi bilan ma'qullangan.

Kafedra mudiri:



A. T. Quldoshev

Tuzuvchilar:



U.O. Xudayorov