O‘ZBEKISTON RESPUBLIKASI LIY VA O‘RTA MAXSUS TA’LIM VAZIRLIGI
NAMANGAN DAVLAT UNIVERSITETI

“TASDIQLAYMAN”
Namangan davlat universiteti
Rektori, professor
_____ S.T.Turg‘unov
“____” _____ 2022-yil

# ISHCHI O‘QUV REJA

Ta’lim yo‘nalishi: *60540100 – Matematika*

Akademik daraja – BAKALAVR
O‘qish shakli – kredit tizimi
Ta’lim shakli – kechki
O‘qish muddati – 4,5 yil
*2-kurs, 2022/2023 o‘quv yili*

## I. O‘quv jarayoni jadvali

| kurs | Haftalar | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.17 | ENMS1809 | Ehtimollar nazariyasi va matematik statistika | 270 | | 120 | 60 | 60 | | | | 150 | | | | | | 6 | 2 | | | | | | | 6 | 3 | | 9 |
| 1.18 | NzM1304 | Nazariy mexanika | 120 | | 60 | 30 | 30 | | | | 60 | | | 4 | | | | | | | | 4 | | | | | | 4 |
| 1.19 | MFT1508 | Matematik fizika tenglamalari | 240 | | 90 | 44 | 46 | | | KI6 | 150 | | | | 6 | | | | | | | | 8 | | | | | 8 |
| 1.20 | MO'M1704 | Matematikani o'qitish metodikasi | 120 | | 60 | 30 | | | 30 | | 60 | | | | | | 4 | | | | | | | | 4 | | | 4 |
| 1.21 | KO'FN1510 | Kompleks o'zgaruvchili funktsiyalar nazariyasi | 300 | | 90 | 44 | 46 | | | | 210 | | | | 6 | | | | | | | | 10 | | | | | 10 |
| 1.22 | FAn1709 | Funktsional analiz | 270 | | 90 | 44 | 46 | | | KI7 | 180 | | | | | | 6 | | | | | | | | 9 | | | 9 |
| 1.23 | VHOB1807 | Variatsion hisob va optimallashtirish usullari | 210 | | 90 | 44 | 46 | | | | 120 | | | | | | | 6 | | | | | | | | 7 | | 7 |
| 1.24 | HUs1704 | Hisoblash usullari | 120 | | 60 | 30 | 30 | | | | 60 | | | | | | 4 | | | | | | | | 4 | | | 4 |
| **2.00** | | **Tanlov fanlar** | **960** | | **480** | **240** | **240** | **0** | **0** | | **480** | **0** | **0** | **0** | **4** | **0** | **16** | **0** | **12** | **0** | **0** | **0** | **0** | **4** | **0** | **16** | **0** | **12** | **0** | **32** |
| 2.01 | MAnTB2604 | Matematik analizning tanlangan boblari | 120 | | 60 | 30 | 30 | | | | 60 | | | | | | 4 | | | | | | | | 4 | | | | | 4 |
| | EM2604 | Elementar matematika | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.02 | MM2804 | Matematik modellashtirish | 120 | | 60 | 30 | 30 | | | | 60 | | | | | | | | 4 | | | | | | | | 4 | | | 4 |
| | IqM2804 | Iqtisodiy matematika | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.03 | KE2404 | Kombinatorika elementlari | 120 | | 60 | 30 | 30 | | | | 60 | | | | 4 | | | | | | | | 4 | | | | | | | 4 |
| | TME2404 | Trigonometriyadan masalalar echish | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.04 | DS2804 | Dinamik sistemalar | 120 | | 60 | 30 | 30 | | | | 60 | | | | | | | | 4 | | | | | | | | 4 | | | 4 |
| | AEO'2804 | Algebra elementlarini o'rganish | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.05 | AK2604 | Analizga kirish | 120 | | 60 | 30 | 30 | | | | 60 | | | | | | 4 | | | | | | | | 4 | | | | | 4 |
| | AAA2604 | Algebra va analiz asoslari | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.06 | KO'FNME2804 | Kompleks o'zgaruvchili funksiyalar nazariyasidan masalalar echish | 120 | | 60 | 30 | 30 | | | | 60 | | | | | | | | 4 | | | | | | | | 4 | | | 4 |
| | SME2804 | Streometriydan masalalar echish | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.07 | GYaE2604 | Geometrik yasash elementlari | 120 | | 60 | 30 | 30 | | | | 60 | | | | | | 4 | | | | | | | | 4 | | | | | 4 |
| | PMY2604 | Planimetriyadan masalalar yechish | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.08 | HO'FN2604 | Haqiqiy o'zgaruvchili funksiyalar nazariyasi | 120 | | 60 | 30 | 30 | | | | 60 | | | | | | 4 | | | | | | | | 4 | | | | | 4 |
| | O'N2604 | O'lchovlar nazariyasi | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | **JAMI** | **6180** | **0.0** | **2400** | **1126** | **1118** | **16** | **140** | **4KI** | **3780** | **20** | **20** | **20** | **20** | **20** | **20** | **20** | **20** | **0** | **30** | **30** | **24** | **23** | **30** | **24** | **23** | **22** | **0** | **206** |
| | | **Malakaviy amaliyotlar** | **570** | | 0 | | | | | | 570 | | | | | | | | | | | | | 2 | | 2 | | | 15 | 19 |
| | | **Yakuniy davlat attestatsiyasi** | **450** | | 0 | | | | | | 450 | | | | | | | | | | | | | | | | | | 15 | 15 |
| | | **Jami** | **1020** | | **0** | | | | | | **1020** | | | | | | | | | | **0** | **0** | **0** | **2** | **0** | **2** | **0** | **0** | **30** | **34** |
| | | **HAMMASI** | **7200** | **0** | **2400** | **1126** | **1118** | **16** | **140** | **4KI** | **4800** | **20** | **20** | **20** | **20** | **20** | **20** | **20** | **20** | **0** | **30** | **30** | **24** | **25** | **30** | **26** | **23** | **22** | **30** | **240** |

**Izoh:**

1. 1 (bir) kredit 30 (o`ttiz) akademik soatni tashkil qiladi. Bunda auditoriya yuklamasining kamida 50 foizini mustaqil ta'lim tashkil etadi.
2. Yakuniy davlat attestatsiyasi muddatlari tarkibiga bitiruv malakaviy ishini himoya qilish ham kiradi.
3. *"Falsafa" fanida "Dinshunoslik" va "Korrupsiyaga qarshi kurash" modullari, "O`zbekiston tarixi" fanida "Yangi O`zbekistonning taraqqiyot strategiyasi" moduli o`qitilishi ko`zda tutiladi.
4. Nazariya va amaliyot yaxlitligini ta'minlash uchun talabalarning malakaviy amaliyotlari bazaviy tashkilot va korxonalarda o'tkaziladi.

| O'quv jarayonining tarkibiy qismlari | Haftalar soni | Semestr | |
|---|---|---|---|
| Nazariy va amaliy ta'lim | 120 | 1–8 | Bitiruv malakaviy ishini himoya qilish yoki ixtisoslik fanlaridan Yakuniy davlat attestatsiya sinovi |
| Attestatsiyalar | 24 | 1–8 | |
| Kredit ta'lim tizimiga kirish | 8 | 1, 3, 5, 7 | |
| Malakaviy amaliyot | 19 | 4, 6, 9 | |
| Yakuniy davlat attestatsiyasi | 3 | 9 | |
| Ta'tillar | 10 | 1–9 | |
| **JAMI** | **184** | | |

**NamDU o'quv ishlari bo'yicha prorektori** — **D. Xolmatov**

**O'quv-uslubiy boshqarma boshlig'i** — **X. Mirzaaxmedov**

**Matematika fakulteti dekani** — **X.Mavlyanov**

**Matematik analiz kafedrasi mudiri** — **A. Mashrabboyev**

*Ushbu o'quv reja Namangan davlat universiteti Kengashining 2022-yil "30" 08 dagi № 1 - sonli majlisida muhokama qilinib, tasdiqqa tavsiya etildi.*