



| IKKINCHI KURS          |             |  |             |            |            |            |           |            |          | 3-semestr        | 4-semestr        | 3-semestr        | 4-semestr        |           |
|------------------------|-------------|--|-------------|------------|------------|------------|-----------|------------|----------|------------------|------------------|------------------|------------------|-----------|
|                        |             |  |             |            |            |            |           |            |          | 15               | 15               | 18               | 22               | 40        |
|                        |             |  |             |            |            |            |           |            |          | 20               | 14               | 26               | 16               | 42        |
| <b>1.00.</b>           |             | <b>Majburiy fanlar</b>                                       | <b>1260</b> | <b>508</b> | <b>198</b> | <b>204</b> | <b>90</b> | <b>16</b>  |          | <b>752</b>       |                  |                  |                  |           |
| 1.01.                  | EL1306      | Elektr va magnetizm  | 180         | 74         | 36         | 38         |           |            |          | 106              | 5                |                  | 6                | 6         |
| 1.02.                  | FP1234620   | Fizpraktikum   | 240         | 90         |            |            | 90        |            |          | 150              | 3                | 3                | 4                | 8         |
| 1.03.                  | OA1406      | Optika   | 180         | 90         | 44         | 46         |           |            |          | 90               |                  | 6                |                  | 6         |
| 1.04.                  | AU13412     | Amaliy va umumiy astrofizika                                 | 360         | 150        | 74         | 76         |           |            | KI       | 210              | 5                | 5                | 6                | 12        |
| 1.05.                  | Dim1304     | Dinshunoslik   | 120         | 30         | 14         |            |           | 16         |          | 90               | 2                |                  | 4                | 4         |
| 1.06.                  | DT1306      | Differensial tenglamalar                                     | 180         | 74         | 30         | 44         |           |            |          | 106              | 5                |                  | 6                | 6         |
| <b>2.00.</b>           |             | <b>Tanlov fanlari</b>  | <b>240</b>  | <b>92</b>  |            |            |           |            |          | <b>148</b>       |                  | <b>6</b>         |                  | <b>8</b>  |
| 2.01.                  | ATKFO2404   | Axborot texnologiyalarini kasbiy faoliyatda qo'llash (ECTS)  | 120         | 46         | 14         | 16         | 16        |            |          | 74               |                  | 3                |                  | 4         |
| 2.02.                  | UMFNE2404   | Umumta'lim maktablarida fizikadan namoyishli eksperimentlar  | 120         | 46         | 20         |            |           | 26         |          | 74               |                  | 3                |                  | 4         |
| 2.03.                  | AO'ITQ2404  | Astronomiya o'qitishda innovatsion texnologiyalarni qo'llash | 120         | 46         | 20         |            |           | 26         |          | 74               |                  | 3                |                  | 4         |
| 2.04.                  | QFOM2404    | Qiziqarli fizika va olimpiada masalalari                     | 120         | 46         |            | 46         |           |            |          | 74               |                  | 3                |                  | 4         |
| <b>2.00.</b>           |             | <b>Malaka amaliyoti</b>                                      | <b>60</b>   |            |            |            |           |            |          | <b>60</b>        |                  |                  |                  | <b>2</b>  |
| <b>Semestrda jami</b>  |             |  | <b>1560</b> | <b>600</b> |            |            |           |            |          | <b>960</b>       | <b>20</b>        | <b>20</b>        | <b>26</b>        | <b>26</b> |
| <b>UCHINCHI KURS</b>   |             |  |             |            |            |            |           |            |          | <b>5-semestr</b> | <b>6-semestr</b> | <b>5-semestr</b> | <b>6-semestr</b> |           |
|                        |             |  |             |            |            |            |           |            |          | 15               | 15               | 18               | 22               | 40        |
| <b>1.00.</b>           |             | <b>Majburiy fanlar</b>                                       | <b>960</b>  | <b>390</b> | <b>148</b> | <b>136</b> | <b>90</b> | <b>16</b>  | <b>0</b> | <b>570</b>       | <b>12</b>        | <b>14</b>        | <b>16</b>        | <b>16</b> |
| 1.01.                  | QF1504      | Quyosh fizikasi  | 120         | 46         | 14         | 16         |           | 16         |          | 74               | 3                |                  | 4                | 4         |
| 1.02.                  | ES1506      | Elektronika va signallarni qayta ishlash                     | 180         | 60         | 30         |            | 30        |            |          | 120              | 4                |                  | 6                | 6         |
| 1.03.                  | AY1606      | Atom, yadro va elementar zarralar fizikasi                   | 180         | 74         | 30         | 44         |           |            |          | 106              |                  | 5                |                  | 6         |
| 1.04.                  | FP1234620   | Fizpraktikum   | 120         | 60         |            |            | 60        |            |          | 60               |                  | 4                |                  | 4         |
| 1.05.                  | NFA167812   | Nazariy fizika asoslari                                      | 360         | 150        | 74         | 76         |           |            |          | 210              | 5                | 5                | 6                | 12        |
| <b>2.00.</b>           |             | <b>Tanlov fanlari</b>  | <b>480</b>  | <b>210</b> |            |            |           |            |          | <b>270</b>       | <b>8</b>         | <b>6</b>         | <b>10</b>        | <b>6</b>  |
| 2.01.                  | YO'F2505    | Yarim o'tkazgichlar fizikasi                                 | 150         | 60         | 20         | 20         |           | 20         |          | 90               | 4                |                  | 5                | 5         |
| 2.02.                  | ShA2505     | Sharq astronomiyasi  | 150         | 60         | 30         |            |           | 30         |          | 90               | 4                |                  | 5                | 5         |
| 2.03.                  | KA2505      | Kosmonavtika asoslari  | 150         | 60         | 30         |            |           | 30         |          | 90               | 4                |                  | 5                | 5         |
| 2.04.                  | FO2504      | Kvant optika   | 150         | 60         | 20         | 20         |           | 20         |          | 90               | 4                |                  | 5                | 5         |
| 2.05.                  | KSXT2604    | Kasbiy sohada xorijiy tillar (ECTS)                          | 120         | 60         |            | 60         |           |            |          | 60               |                  | 4                |                  | 4         |
| 2.06.                  | YFG2604     | Yosh fiziologiyasi va gigiyenasi                             | 120         | 60         | 30         |            |           | 30         |          | 60               |                  | 4                |                  | 4         |
| 2.07.                  | STTFAO'2602 | STEAM ta'lim tizimida fizika va astronomiyani o'qitish       | 60          | 30         | 14         |            | 16        |            |          | 30               |                  | 2                |                  | 2         |
| 2.08.                  | LF2602      | Lazer fizikasi   | 60          | 30         | 14         | 16         |           |            |          | 30               |                  | 2                |                  | 2         |
| 2.09.                  | MSA2604     | Moliyaviy savodxonlik asoslari                               | 120         | 60         | 30         |            |           | 30         |          | 60               |                  | 4                |                  | 4         |
| 2.10.                  | MedTal2504  | Media ta'lim   | 120         | 60         | 30         | 30         |           |            |          | 60               | 4                |                  | 4                | 4         |
| <b>3.00.</b>           |             | <b>Malaka amaliyoti</b>                                      | <b>60</b>   |            |            |            |           |            |          | <b>60</b>        |                  |                  |                  | <b>2</b>  |
| <b>Semestrda jami</b>  |             |  | <b>1500</b> | <b>600</b> |            |            |           |            |          | <b>900</b>       | <b>20</b>        | <b>20</b>        | <b>26</b>        | <b>24</b> |
| <b>TO'RTINCHI KURS</b> |             |  |             |            |            |            |           |            |          | <b>7-semestr</b> | <b>8-semestr</b> | <b>7-semestr</b> | <b>8-semestr</b> |           |
|                        |             |  |             |            |            |            |           |            |          | 15               | 15               | 19               | 21               | 40        |
| <b>1.00.</b>           |             | <b>Majburiy fanlar</b>                                       | <b>960</b>  | <b>390</b> | <b>164</b> | <b>120</b> |           | <b>106</b> |          | <b>570</b>       | <b>16</b>        | <b>10</b>        | <b>20</b>        | <b>12</b> |
| 1.01.                  | OM1706      | Osmon mexanikasi   | 180         | 74         | 30         | 44         |           |            |          | 106              | 5                |                  | 6                | 6         |
| 1.02.                  | YF1806      | Yulduzlar fizikasi   | 180         | 74         | 30         |            |           | 44         |          | 106              |                  | 5                |                  | 6         |
| 1.03.                  | GA1704      | Galaktik astronomiya   | 120         | 46         | 14         | 16         |           | 16         |          | 74               | 3                |                  | 4                | 4         |
| 1.04.                  | AF17810     | Astrofizikaning matematik usullari                           | 300         | 120        | 60         | 60         |           |            |          | 180              | 3                | 5                | 4                | 10        |
| 1.05.                  | KA1706      | Kosmogoniya asoslari   | 180         | 76         | 30         |            |           | 46         |          | 104              | 5                |                  | 6                | 6         |
| <b>2.00.</b>           |             | <b>Tanlov fanlari</b>  | <b>480</b>  | <b>210</b> |            |            |           |            |          | <b>270</b>       | <b>4</b>         | <b>10</b>        | <b>6</b>         | <b>10</b> |
| 2.01.                  | MTN2806     | Modda tuzilishi nazariyasi                                   | 180         | 90         | 44         | 46         |           |            |          | 90               |                  | 6                |                  | 6         |
| 2.02.                  | ZATB2806    | Zamonaviy astronomiyaning tanlangan boblari                  | 180         | 90         | 44         |            |           | 46         |          | 90               |                  | 6                |                  | 6         |
| 2.03.                  | QTEM2804    | Qayta tiklanuvchi energiya manbalari                         | 120         | 60         | 30         |            |           | 30         |          | 60               |                  | 4                |                  | 4         |

|                       |            |   |              |             |    |    |  |    |  |             |           |            |           |            |            |
|-----------------------|------------|---|--------------|-------------|----|----|--|----|--|-------------|-----------|------------|-----------|------------|------------|
| 2.04.                 | YTO'RK2804 | Yangi tahrirdagi O'zbekiston Respublikasi Konstitutsiyasi | 120          | 60          | 30 |    |  | 30 |  | 60          |           | 4          |           | 4          | 4          |
| 2.05.                 | AMYM2706   | Astronomiyadan masalalar yechish metodikasi               | 180          | 60          |    | 60 |  |    |  | 120         | 4         |            | 6         |            | 6          |
| 2.06.                 | PF2706     | Polimerlar fizikasi                                       | 180          | 60          | 30 |    |  | 30 |  | 120         | 4         |            | 6         |            | 6          |
| 3.00.                 |            | <b>Malaka amaliyoti</b>                                   | <b>180</b>   |             |    |    |  |    |  | <b>180</b>  |           |            | <b>2</b>  | <b>4</b>   | <b>6</b>   |
|                       |            | <b>Semestrda jami</b>                                     | <b>1620</b>  | <b>600</b>  |    |    |  |    |  | <b>1020</b> | <b>20</b> | <b>20</b>  | <b>28</b> | <b>26</b>  | <b>54</b>  |
| <b>BESHINCHI KURS</b> |            |   |              |             |    |    |  |    |  |             | 9-semestr | 10-semestr | 9-semestr | 10-semestr |            |
|                       |            |   |              |             |    |    |  |    |  |             | 15        | 0          | 20        | 0          | 20         |
| 3.00.                 |            | <b>Malaka amaliyoti</b>                                   | <b>480</b>   |             |    |    |  |    |  | <b>480</b>  |           |            | <b>16</b> |            | <b>16</b>  |
| 4.00.                 |            | <b>Yakuniy davlat attestatsiyasi</b>                      | <b>240</b>   |             |    |    |  |    |  | <b>240</b>  |           |            | <b>8</b>  |            | <b>8</b>   |
|                       |            | <b>Semestrda jami</b>                                     | <b>720</b>   |             |    |    |  |    |  | <b>720</b>  |           |            | <b>24</b> |            | <b>24</b>  |
|                       |            | <b>JAMI</b>   | <b>7 200</b> | <b>2400</b> |    |    |  |    |  | <b>4800</b> |           |            |           |            | <b>240</b> |

| Yuklama taqsimoti                   | soat         | kredit     |
|-------------------------------------|--------------|------------|
| Majburiy fanlar                     | 4980         | 166        |
| Tanlov fanlari                      | 1200         | 40         |
| Malaka amaliyoti                    | 780          | 26         |
| BMI (Yakuniy davlat attestatsiyasi) | 240          | 8          |
| <b>HAMMASI:</b>                     | <b>7 200</b> | <b>240</b> |

**Izoh:** 1. 1 (bir) kredit 30 (o'ttiz) akademik soatni tashkil qiladi.

- Oliy ta'lim muassasasi ixtisoslik fanlarining dasturlarini ishlab chiqishda yetakchi oliy ta'lim muassasasi hamda kadrlar buyurtmachilarini e'tiborga oladi.
- 1-9 semestrda mutaxassislik fanlarining sillabuslarida mustaqil ta'lim mazmuni joriy semestrda amaliyot dasturi mazmuniga mos kelishi va bir birini to'ldirishi, talabning amaliyoti mustaqil ta'lim topshirig'ini bajarish uchun asos sifatida xizmat qilishi nazarga tutish kerak.
- Yakuniy davlat attestatsiyasi muddatlari tarkibiga bitiruv malakaviy ishini himoya qilishi ham kiradi.
- O'quv rejaga kiritiladigan ixtisoslikka oid fanlarning amaliy mashg'ulotlari va laboratoriya ishlari oliy ta'lim muassasasi hamda bazaviy tashkilotlarga o'tkaziladi.
- Nazariya va amaliyot yaxlitligini ta'minlash uchun talabalarning malakaviy amaliyotlari ta'lim muassasalari, bazaviy tashkilotlarga o'tkaziladi.
- 1-4 kurs talabalarining yozgi ta'til davrida avvalgi semestrlarda o'zlashtirilmagan fanlari uchun yozgi semestr tashkil qilinishi mumkin. Bunda yozgi ta'tilning birinchi haftasi ro'yxatga olish haftaligi, keyingi to'rt hafta yozgi semestr hisobidan akademik davr hisoblanadi.

| O'quv jarayonining tarkibiy qismi | Haftalar   | Semestri  | Davlat attestatsiyasi   |
|-----------------------------------|------------|-----------|---|
| Nazariy va amaliy ta'lim          | 120        | 1 - 8     | Bitiruv malakaviy ishini himoya qilish yoki ixtisoslik fanlaridan Davlat attestatsiyasi |
| Attestatsiya                      | 23         | 1 -9      |   |
| Malaka amaliyoti                  | 27         | 4,6,7,8,9 |   |
| BMI                               | 4          | 9         |   |
| Kredit haftaligi                  | 4          | 1,2,4,6   |   |
| Ta'til                            | 56         | 1 - 8     |   |
| <b>Jami</b>                       | <b>234</b> |           |   |

Navoiy davlat pedagogika instituti  
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qarori bilan ma'qullangan

O'quv ishlari bo'yicha prorektor

O'quv-uslubiy boshqarma boshlig'i

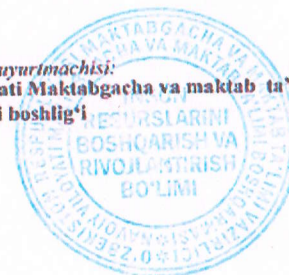
"Fizika va astronomiya" kafedrasini mudiri



G. Yodgorov

A. Axmedov

Kadrlar buyurtmachisi:  
Navoiy viloyati Maktabgacha va maktab ta'limi  
boshqarmasi boshlig'i




R. Hayitova