

Faqat Python'ning o'zi bo'ladi (backendga mos), ya'ni:

- Django, PostgreSQL, Flask yoki AI kutubxonalarisiz
 - 0 dan boshlanib → Junior Backend Developer tayyorlashga mos Python
 - 4 oy (16 hafta, 48 dars, 96 soat)
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4 OYLIK PYTHON KURSI (Backend uchun tayyorlov)

1-OY: Python Asoslari (12 dars, 24 soat)

1-hafta

- 1-dars: Python va backend kirish, IDE o'rnatish, Hello World
- 2-dars: O'zgaruvchilar va ma'lumot turlari (int, float, str, bool)
- 3-dars: Operatorlar (arifmetik, mantiqiy, taqqoslash)

2-hafta

- 4-dars: If/else shartlar
- 5-dars: For va while looplar
- 6-dars: Amaliy mashqlar – oddiy algoritmlar

3-hafta

- 7-dars: String metodlari va slicing
- 8-dars: List (qo'shish, o'chirish, index, slicing)
- 9-dars: Tuple va Set

4-hafta

- 10-dars: Dictionary – key/value bilan ishlash
 - 11-dars: Funksiya kirish (**def**, parametr, return)
 - 12-dars: Amaliy loyiha – Oddiy CRUD (ro'yxat ustida)
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2-OY: Funksiyalar, Fayllar, Kutubxonalar (12 dars, 24 soat)

5-hafta

13-dars: *args, **kwargs, default parametrlar

14-dars: Lambda, map, filter, reduce

15-dars: List/dict comprehensions

6-hafta

16-dars: Fayllar bilan ishlash (**open**, read, write)

17-dars: JSON bilan ishlash

18-dars: Error handling (try/except/finally, raise)

7-hafta

19-dars: Modul va paketlar (math, random, os, sys)

20-dars: Datetime, time va pathlib kutubxonalari

21-dars: Virtual environment va pip bilan ishlash

8-hafta

22-dars: Amaliy loyiha – Quiz Game (JSON savollar)

23-dars: Mustahkamlash mashqlari

24-dars: 1–2 oy bo'yicha oraliq test

3-OY: OOP (12 dars, 24 soat)

9-hafta

25-dars: Class va obyektlar

26-dars: Constructor (**__init__**) va metodlar

27-dars: Encapsulation (private/public atributlar)

10-hafta

28-dars: Inheritance (meros olish)

29-dars: Polymorphism

30-dars: Magic methods (**__str__**, **__len__**, **__repr__**)

11-hafta

31-dars: Class va fayllar bilan ishlash

32-dars: Static va class methods

33-dars: Context manager (**with** statement)

12-hafta

34-dars: Loyihada OOP qo'llash – “Kitoblar bazasi” dasturi

35-dars: Testing (unittest kirish)

36-dars: Amaliy loyiha – CLI Todo App (OOP asosida)

4-OY: Kengaytirilgan Python va Yakuniy loyiha (12 dars, 24 soat)

13-hafta

37-dars: Decorators

38-dars: Iterators va Generators

39-dars: Comprehensions advanced

14-hafta

40-dars: Logging

41-dars: Configurations (**dotenv**, json, ini fayllar)

42-dars: Typing (type hints, mypy)

15-hafta

43-dars: Multithreading

44-dars: Multiprocessing

45-dars: Asyncio (async/await kirish)

16-hafta

46-dars: Amaliy loyiha – Mini CRUD dastur (fayl/JSON asosida)

47-dars: Loyihani GitHub'ga joylash

48-dars: Yakuniy test va sertifikatlash

Natija

4 oy oxirida o'quvchi:

- Python asoslari, funksiyalar, fayl va modul ishlashni mukammal biladi
 - OOP (class, inheritance, polymorphism, magic methods) ni ishlata oladi
 - Decorator, generator, async kabi advanced Python mavzularini ko'radi
 - CLI asosida oddiy CRUD loyihalar qila oladi
 - Backend framework (Django/Flask) va SQL o'rganishga tayyor bo'ladi
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