IBM PY0101EN Olia\_Kravets > Допомога **Python Basics for Data Science Progress** Discussion Course Dates You are taking "Final Exam" as a timed exam. Show more **End My Exam** 12 00:52:08 **Python Basics for Data Science** Resume course Set a weekly learning goal Pick up where you left off Setting a goal motivates you to finish the course. You can always change it later. Welcome to Python Basics for Data Science! We are glad you are taking this course! The team spent a lot of time developing this Python Basics for Casual Regular Intense Data Science course so everyone can learn to program with this incredibly powerful language. 1 day a week 3 days a week 5 days a week As you may know, Python has become one of the top languages used not only by developers, but also by data scientists, data engineers, and researchers alike. It lends itself well to creating applications and Set a goal reminder analyzing big data. So we hope you enjoy this beginner's course in Python for Data Science. **Course Tools** Bookmarks Dismiss i Financial Assistance Updates Launch tour Collapse all 15% First-Time Learner Discount **About this course** 6 days left ✓ Earn a <u>verified certificate</u> of completion to **General Information** showcase on your resumé ✓ Unlock your access to all course activities, **Learning Objectives** including graded assignments ✓ Full access to course content and materials, Syllabus even after the course ends ✓ Support our mission at edX **Grading Scheme** Upgrade for \$84.15 (<del>\$99</del>) **Change Log** Use code **EDXWELCOME** at checkout  $\odot$ **Module 1 - Python Basics Important dates** Module Introduction and Learning Objectives 📋 ср, 13 бер. 2024 р. Video: Types (3:02) **Course starts вт**, 19 бер. 2024 р. Practice Quiz: Types **Graded Quiz: Python Basics** Video: Expressions and Variables (3:55) **⊞** чт, 11 квіт. 2024 р. Hands-On Lab: Your First Program, Types, Expressions, and Variables **Audit Access Expires** You lose all access to this course, including your For learners auditing the course progress. Practice Quiz: Expressions and Variables **і** чт, 20 черв. 2024 р. **Verification Upgrade Deadline** Video: String Operations (3:58) You are still eligible to upgrade to a Verified Certificate! Hands-On Lab: String Operations Pursue it to highlight the knowledge and skills you gain in this course. **Practice Quiz: String Operations** Upgrade to Verified Certificate 🛗 нд, 30 черв. 2024 р. Module 1 Cheatsheet: Python Basics **Course ends** Module 1 Summary: Python Basics After the course ends, the course content will be archived and no longer active. Module 1 Glossary: Python Basics View all course dates **Graded Quiz: Python Basics** Graded Quiz due 19 бер. 2024 p., 02:05 GMT+2 **Course Handouts** Python Cheat Sheet: The Basics  $\odot$ **Module 2 - Python Data Structures** Module Introduction and Learning Objectives Video: Lists and Tuples (8:51) Hands-On Lab: Lists Hands-On Lab: Tuples Reading: Cheat Sheet - Lists and Tuples

Practice Quiz: Lists and Tuples Video: Dictionaries (2:25)

Hands-On Lab: Dictionaries **Practice Quiz: Dictionaries** 

Video: Sets (5:17) Hands-On Lab: Sets

Reading: CheatSheet - Dictionaries & Sets

**Practice Quiz: Sets Discussion Prompt: Python Data Structures** 

Module 2 Summary: Python Data Structures Reading: Glossary - Python Data Structures **Graded Quiz: Python Data Structures** Graded Quiz due 21 бер. 2024 p., 15:10 GMT+2

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Module Introduction and Learning Objectives Video: Conditions and Branching (10:17) Hands-on Lab: Conditions and Branching Practice Quiz: Conditions and Branching

Video: Functions (13:31)

Hands-on Lab: Functions

**Practice Quiz: Functions** 

Video: Exception Handling (3:49)

Hands-On Lab: Exception Handling

Practice Quiz: Exception Handling

Video: Objects and Classes (10:52)

Hands-on Lab: Objects and Classes

Discussion Prompt: Classes in Python

Reading: Cheatsheet - Python Programming Fundamentals

Module 3 Summary: Python Programming Fundamentals

Reading: Glossary - Python Programming Fundamentals

**Graded Quiz: Python Programming Fundamentals** 

**Module 4 - Working with Data in Python** 

Module Introduction and Learning Objectives

Graded Quiz due 24 бер. 2024 p., 04:16 GMT+2

Video: Reading Files with Open (3:43)

Hands-On Lab: Reading Files with Open

Video: Writing Files with Open (2:54)

Video: Pandas: Loading Data

Hands-On Lab: Writing Files with Open

Practice Quiz: Reading & Writing Files with Open

Video: Pandas: Working with and Saving Data (2:06)

Practice Lab: Selecting data in a Dataframe

Obtain an IBM Cloud Feature Code

Video: One Dimensional NumPy (11:23)

Hands-On Lab: One Dimensional Numpy

Hands-On Lab: Two Dimensional Numpy

Reading: Cheatsheet - Working with Data in Python

Module 4 Summary: Working with Data in Python

Reading: Glossary - Working with Data in Python

Graded Quiz: Working with Data in Python

**Module 5 - APIs and Data Collection** 

Module Introduction and Learning Objectives

Video: Application Program Interface (5:12)

Video: REST APIs & HTTP Requests - Part 1 (4:11)

Video: REST APIs & HTTP Requests - Part 2 (4:56)

Hands-on Lab: Access REST APIs & Request HTTP

(Optional) Video: HTML for Webscraping (5:00)

Hands-on Lab: Working with different file formats

Practice Project: GDP Data Extraction and Processing

Module 5 Summary: APIs, and Data Collection

Module 5 Glossary: APIs, and Data Collection

Іспити з обмеженням по часу due 31 бер. 2024 р., 20:32 GMT+3

Video: Working with different file formats (csv, xml, json, xlsx) (4:11)

Practice Quiz: REST APIs, Webscraping, and Working with Files

(Optional) Video: Webscraping (4:59)

Cheat Sheet: APIs and Data Collection

**Discussion Prompt: JSON and HTTP** 

Graded Quiz: APIs, and Data Collection

Graded Quiz due 29 бер. 2024 p., 06:26 GMT+2

**Final Exam** 

**Python Cheat Sheet** 

**Course Rating** 

**Course Rating** 

**Python Cheat Sheet: The Basics** 

Instructions

Final Exam

Hands-On Lab: Introduction to API

Practice Quiz: Simple APIs

Hands-On Lab: API Examples

Hands-on Lab: Web Scraping

Graded Quiz due 26 бер. 2024 p., 17:21 GMT+2

Video: Two Dimensional NumPy (7:13)

Reading: Some Context on APIs

Practice Quiz: Numpy in Python

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Hands on Lab: Pandas

Practice Quiz: Pandas

Practice Quiz: Objects and Classes

Practice Lab: Text Analysis

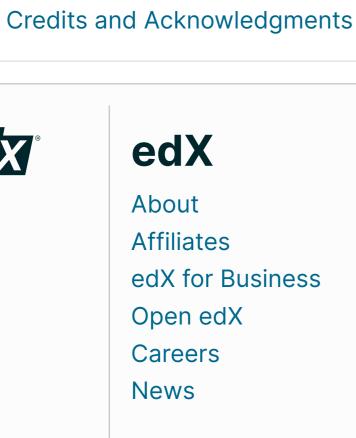
Reading: Objects and Classes

Reading: Exception Handling

Video: Loops (6:45) Reading: Loops Hands-on Lab: Loops **Practice Quiz: Loops** 

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