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| | Python Training Course Content | | |
| | Duration : 60 days | | |
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| Sno | Topic | | |
| 1 | Training Overview | | |
| 2 | What are the Python Course Pre-requisites | | |
| 3 | Python Training Course Duration | | |
| 4 | Objectives of the Course | | |
| 5 | Who should do the course | | |
| 6 | Core Python | | |
| 6.1 | Introduction to Script / Interpreted languages | | |
| 6.2 | Introduction to Programming / Compiled languages | | |
| 6.3 | Introduction to Python | | |
| 6.4 | Different Modes in Python Exception | | |
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| 7 | Python IDEs | | |
| 7.1 | Text editors | | |
| 7.2 | Code editors | | |
| 7.3 | IDEs | | |
| 8 | First program | | |
| 9 | Variables and Data types | | |
| 9.1 | Strings | | |
| 9.2 | Integer, float, double | | |
| 9.3 | Boolean | | |
| 9.4 | Date and Time | | |
| | | | |
| 9.3 | Array Typs | | |
| 9.3.1 | Collections | | |
| 9.3.2 | Lists | | |
| 9.3.3 | Tuple | | |
| 9.3.4 | Sets | | |
| 9.3.5 | Dictionary | | |
| 9.3.6 | Array with numpy | | |
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| 10 | Operators in Python | | |
| 10.1 | Assignment operators | | |
| 10.2 | Arithmetic operators | | |
| 10.3 | Logical operators | | |
| 10.4 | Bitwise operators | | |
| 11 | Conditional Statements | | |
| 11.1 | If... | | |
| 11.2 | If... Else... | | |
| 11.3 | Nested If | | |
| 11.4 | if...else short hand | | |
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|------|------------------------------------|--|--|
| 12 | Loops | | |
| 12.1 | For loop | | |
| 12.2 | Do loop | | |
| 12.3 | While loop | | |
| 12.4 | Loop shorthands | | |
| | | | |
| 13 | Builtin functions | | |
| 14 | Custom Functions | | |
| 15 | Lambda functions | | |
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| 16 | Advanced Concepts in Python | | |
| 17 | Dunder / Magic methods | | |
| 18 | Python Modules / Packages | | |
| 19 | File Handling | | |
| 20 | Regular Expressions | | |
| 21 | Exception Handling | | |
| 22 | Logging | | |
| | | | |
| 23 | OOPs | | |
| 23.1 | Class and Objects | | |
| 23.2 | Inheritance | | |
| 23.3 | Polymorphism | | |
| 23.4 | Encapsulation | | |
| 23.5 | Abstraction | | |
| 23.6 | Interfacing | | |
| 23.7 | Method override | | |
| 23.8 | Method overload | | |
| 23.9 | Home Assignment | | |
| | | | |
| 24 | Parsers | | |
| 24.1 | XML | | |
| 24.2 | JSON | | |
| | | | |
| 25 | Data Base Communication | | |
| 26 | Multi-Threading | | |
| 25 | Multi-Processing | | |
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| 27 | Python for Databricks | | |
| 27.1 | Azure Databricks introduction | | |
| 27.2 | Databricks ecosystem | | |
| 27.3 | Databricks community edition | | |
| 27.4 | Workspace creation | | |
| 27.5 | Cluster creation | | |
| 27.6 | Notebook creation | | |
| 27.7 | Playing with Python in Databricks | | |
| 27.8 | Schedule a job | | |

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| 27.9 | Connecting with Data sources | | |
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| 28 | PySpark | | |
| 28.1 | Create Data tables from a file | | |
| 28.2 | Data frames | | |
| 28.3 | Data sets | | |
| 28.4 | Record sets | | |
| 28.5 | Visualization | | |
| 28.6 | Data process and restructure with PySpark | | |
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