


Programming in Python

The background is a dark blue gradient. It features several decorative elements: a large, semi-transparent Python logo in the center-left; a large pie chart with a teal segment in the upper right; several smaller pie charts scattered on the right side; and a bar chart with four vertical bars of varying heights in the bottom right corner.

Basics and Advanced

- VectorE Tech

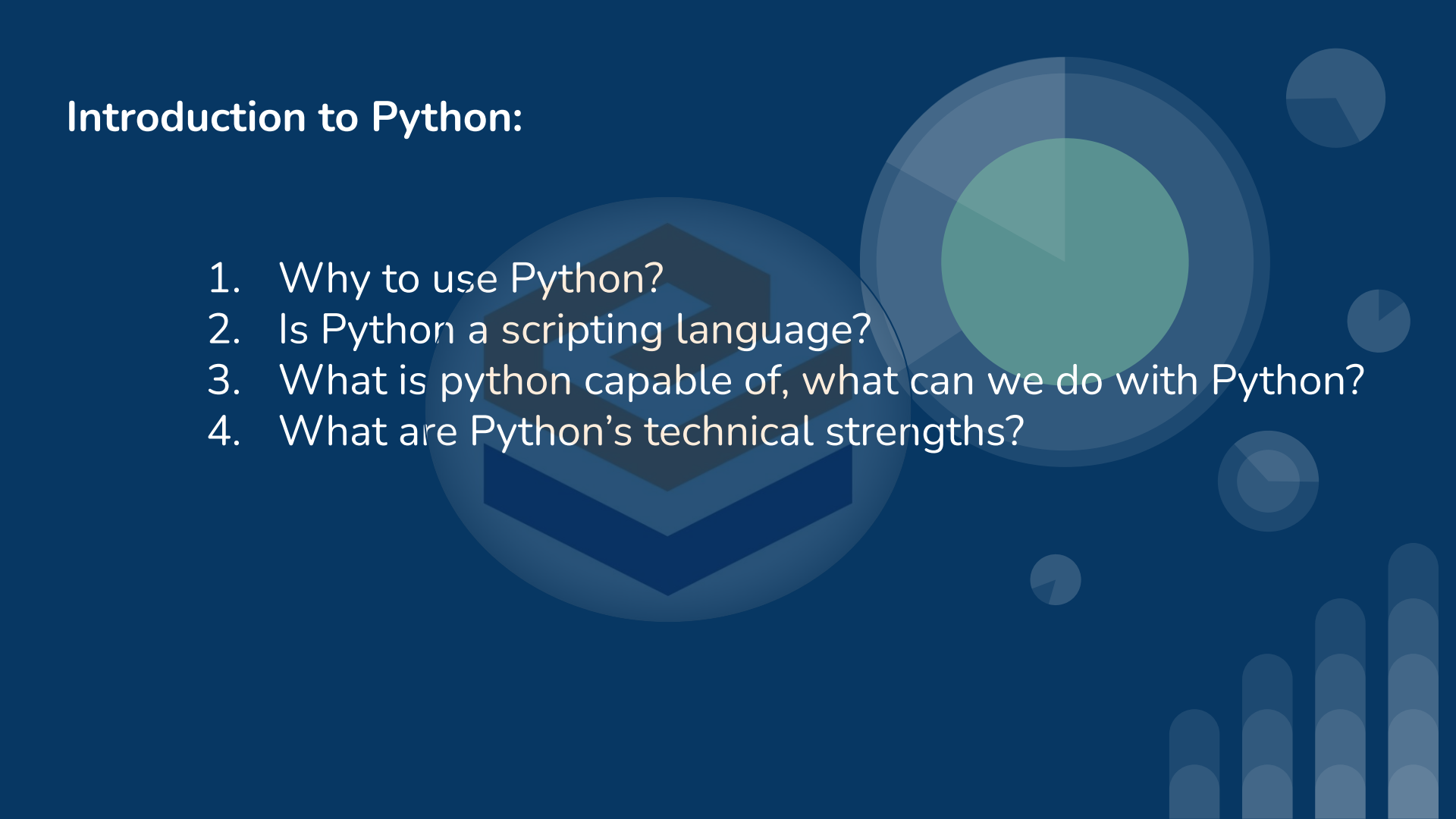
Course Structure:

1. Introduction to Python
 2. Basics
 3. Data types
 4. Operators
 5. Flow/control statements
 6. Loops
 7. Functions
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- The background features several decorative elements: a large, semi-transparent Python logo in the center-left; a large pie chart with a teal segment on the right side in the upper-right; a smaller pie chart in the top-right corner; another smaller pie chart in the middle-right; a bar chart with four vertical bars of increasing height in the bottom-right; and several small, semi-transparent circles scattered throughout the right side of the slide.

Course Structure:

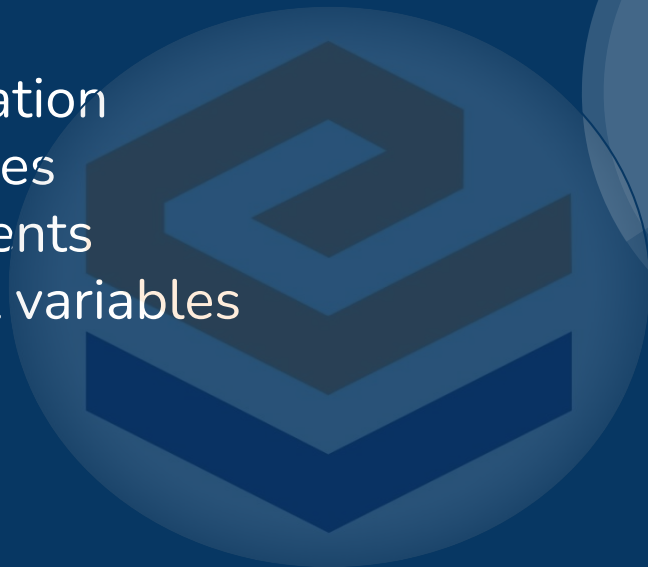
1. Modules
 2. Packages
 3. Classes
 4. OOPs concepts
 5. Exception Handling
 6. Decorators
 7. Standard coding principles
- 

Introduction to Python:

1. Why to use Python?
 2. Is Python a scripting language?
 3. What is python capable of, what can we do with Python?
 4. What are Python's technical strengths?
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Basics:

- Indentation
- Variables
- Comments
- Output variables




Data Types:

- Numeric Types
- Text Type
- Sequence Type
- Mapping Type
- Set Type
- Boolean Type
- Binary Type
- None Type

Operators:

- Arithmetic Operators
- Comparison Operators
- Assignment Operators
- Logical Operators
- Membership Operators
- Identity Operators
- Bitwise Operators

Flow/Control Statements:

- Conditions
 - If - Else
 - Elif
 - Break
 - Continue
 - Pass
- 

Loops:

- While
- For
- Else



Sequence DataTypes:

- Creation
- Access
- Update
- Remove
- Looping
- Comprehension
- Built-in methods

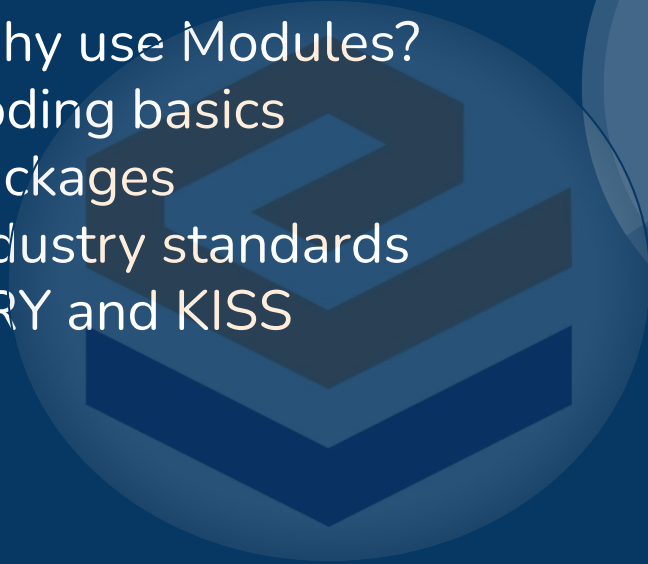


Functions:

- Why use functions?
- Coding functions
- Arguments
- Types of functions
- Recursion
- Lamda
- DRY and KISS

Modules & Packages:

- Why use Modules?
- Coding basics
- Packages
- Industry standards
- DRY and KISS



Classes:

- What is a class?
- Why to use it?
- How to create one?
- Object creation
- Class and instance methods/variables
- Industry standards

OOPs concepts:

- What are OOPs concepts?
- Why they are required?
- Abstraction
- Encapsulation
- Polymorphism
- Inheritance
- SOLID
- Code better

Exception Handling:

- What is exception?
- Why are they so special?
- Why to handle them?
- Code better with exception handling

The background features several semi-transparent blue graphics. On the left is a large hexagonal logo with a complex, interlocking geometric pattern. To its right is a large pie chart with a teal-colored slice. In the bottom right corner, there is a bar chart with four vertical bars of increasing height. Several smaller pie charts are scattered in the upper right area.

Any Questions?



Thank You !!!