

JDNET TECHNOLOGIES

(ISO 9001:2015 CERTIFIED INSTITUTION)

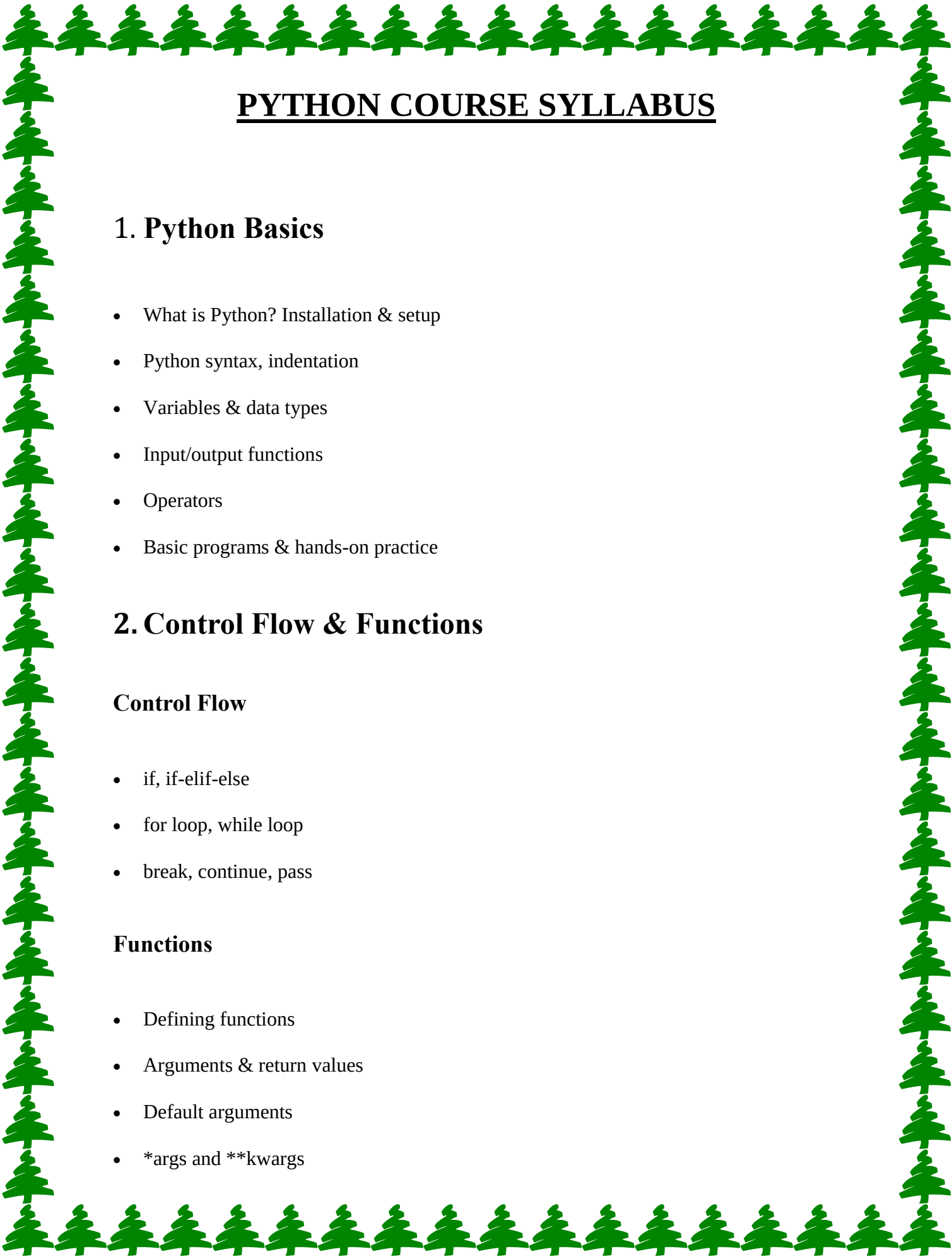
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PYTHON



TRAINING COURSES FOR ALL DEPARTMENTS



PYTHON COURSE SYLLABUS

1. Python Basics

- What is Python? Installation & setup
- Python syntax, indentation
- Variables & data types
- Input/output functions
- Operators
- Basic programs & hands-on practice

2. Control Flow & Functions

Control Flow

- if, if-elif-else
- for loop, while loop
- break, continue, pass

Functions

- Defining functions
- Arguments & return values
- Default arguments
- *args and **kwargs

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- Lambda functions

3. Data Structures

- Strings (slicing, methods)
- Lists (operations, list comprehension)
- Tuples & Sets
- Dictionaries (CRUD, methods)
- Nested data structures
- Practice tasks

4. File Handling & Error Handling

File Handling

- Reading & writing files
- Working with text & JSON

Exception Handling

- try, except, else, finally
- Custom exceptions

Modules & Packages

- Import statements
- pip usage

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- Virtual environment basics

5. OOP (Object-Oriented Programming)

- Classes & objects
- Constructors
- Inheritance (single, multilevel)
- Polymorphism & Method overriding
- Encapsulation
- Dunder methods (optional)

6. Python + Database OR Automation

- Introduction to DB
- MySQL / SQLite connection
- CRUD operations using Python
- Basic mini project (DB + Python)
- Automating file operations
- Working with OS module
- Basic web scraping (BeautifulSoup)
- Working with APIs (Requests library)

Connect With Us



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