

# MASTER A PROGRAMMING LANGUAGE – PYTHON

## CURRICULUM

### DAYS

### TOPIC

DAYS	TOPIC
DAY 1	<p>INTRODUCTION</p> <ul style="list-style-type: none"><li>• HISTORY</li><li>• WHY BETTER</li><li>• TYPE (PROCEDURAL AND STRUCTURAL)</li><li>• USE IN FUTURE TECHNOLOGY</li><li>• INSTALLATION</li></ul>
DAY 2	<ul style="list-style-type: none"><li>• SETUP and FIRST PROGRAM</li><li>• PYTHON IDENTIFIERS</li><li>• KEYWORDS AND INDENTATION</li><li>• TYPES OF COMMENTS</li></ul> <ul style="list-style-type: none"><li>• INTRODUCTION TO VARIABLES</li><li>• GETTING USER INPUT</li><li>• COMMAND LINE ARGUMENTS</li></ul>
DAY 3	<ul style="list-style-type: none"><li>• Variables</li><li>• NUMBERS</li><li>• PYTHON DATATYPES</li></ul> <p>QUIZ-1</p> <p>PYTHON COLLECTIONS</p> <ul style="list-style-type: none"><li>• BASIC OPERATORS</li><li>• LIST</li><li>• TUPLES</li></ul> <ul style="list-style-type: none"><li>• DICTIONARIES AND SET</li><li>• ITERATORS (Star patterns)</li></ul>
DAY 4	<p>Conditional Statements</p> <ul style="list-style-type: none"><li>• If – else Conditions</li><li>• More on Iterators Using Collections</li></ul> <ul style="list-style-type: none"><li>• Type Casting</li><li>• Strings</li><li>• MORE ON LISTS AND DICTIONARIES</li></ul> <p>QUIZ-2</p>
DAY 5	<p>FUNCTIONS (local function) and String Manipulation</p>

	Generators and Decorators, Modules and Packages(name = __main__)
<b>DAY 6</b>	Basic Local methods and FString
	User Define Methods and args ,kwags
<b>DAY 7</b>	QUIZ-3 Returning a result from function, ANONYMOUS FUNCTION
	Recursion
<b>DAY 8</b>	Introduction to OOPS and Scope Resolution
	What are classes and Objects Constructor Destructor
<b>DAY 9</b>	QUIZ-4 Inheritance
	Encapsulation and abstraction
<b>DAY 10</b>	Polymorphism
	EXCEPTION Handling AND ERRORS
<b>DAY 11</b>	QUIZ-5 TRY EXCEPT ELSE AND TRY FINALLY CLAUSE
	USER DEFINED EXCEPTION, RAISING EXCEPTION AND STANDARD EXCEPTIONS
<b>DAY 12</b>	Python File Handling
	Writing Creating and Deleting Files
	QUIZ-6

**DAY 13**

PYTHON REGEX  
MATCH , SEARCH, REPLACE

EXTENDED REGEX AND WILD CARD

