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NOTES PDF (M3-R5)

○ LEVEL

Problem solving thr. Python Programming



INDIA'S No. 1 Channel

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O Level M3-R5 Python Live+Recorded Batch

Youtube Channel : New Ideas YT

Course Highlights

	Class Language	Notes PDF	Total Classes	Total Hours
Chapterwise Classes	Hinglish	Hindi/Eng	~58	~49 hrs
MCQs Classes	Hinglish	Hindi/Eng	~17	~11 hrs
Model Paper	Hinglish	Hindi/Eng	5	~9 hrs
Quick Shot	Hinglish	Hindi/Eng	4	3 hrs
One Liner	Hinglish	Hindi/Eng	3	2 hrs
Practical Classes	Hinglish	English	~52	~17 hrs
Viva	Hinglish	Hindi/Eng	~4	3 hrs
		Total	~143	~94 hrs

Note: Class की Duration : 14 Minute से 55 मिनट होगी यह उस टॉपिक पर Depend है |

~ यह symbol (चिन्ह) approx लगभग को दर्शाता है|

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Chapter wise Classes Curriculum

Type	Section Name
Chapter 1: Introduction to Programming	Introduction
Chapter 1: Introduction to Programming	Programming basics
Chapter 2: Algorithms and Flowcharts to Solve Problems	Algorithm 1
Chapter 2: Algorithms and	Algorithm 2

Flowcharts to Solve Problems	
Chapter 2: Algorithms and Flowcharts to Solve Problems	Flowchart 1
Chapter 2: Algorithms and Flowcharts to Solve Problems	Flowchart 2
Chapter 3: Introduction to Python	Basics 1
Chapter 3: Introduction to Python	Basics 2
Chapter 3: Introduction to Python	Basics 3
Chapter 3: Introduction to Python	Data types
Chapter 3: Introduction to Python	Input output
Chapter 3: Introduction to Python	4 Example programs
Chapter 3: Introduction to Python	Errors type casting
Chapter 3: Introduction to Python	Intro to string
Chapter 3: Introduction to Python	String functions
Chapter 3: Introduction to Python	String operations
Chapter 4: Operators, Expressions and Python Statements	Intro operators, operators
Chapter 4: Operators, Expressions and Python Statements	Operators class 2
Chapter 4: Operators, Expressions and Python Statements	Bitwise operators
Chapter 4: Operators, Expressions and Python Statements	Operators 4
Chapter 4: Operators, Expressions and Python Statements	Conditional statements
Chapter 4: Operators, Expressions and Python Statements	loops
Chapter 4: Operators, Expressions and Python Statements	Control statements
Chapter 5: Sequence Data Types	list Operations 1
Chapter 5: Sequence Data Types	list Operations 2
Chapter 5: Sequence Data Types	tuple Operations 1

Chapter 5: Sequence Data Types	tuple Operations 2
Chapter 5: Sequence Data Types	dic Operations 1
Chapter 5: Sequence Data Types	Dic Operations 2
Chapter 5: Sequence Data Types	dic Operations 3
Chapter 5: Sequence Data Types	Set Operations 1
Chapter 5: Sequence Data Types	Set Operations 2
Chapter 5: Sequence Data Types	Mis
Chapter 6: Functions	Intro, basics types
Chapter 6: Functions	Parameters, arguments
Chapter 6: Functions	Function intermediates
Chapter 6: Functions	math
Chapter 6: Functions	datetime
Chapter 6: Functions	Mis Functions
Chapter 6: Functions	Recursion
Chapter 6: Functions	Lamda function 1
Chapter 6: Functions	Lamda function 2
Chapter 7: File processing	Intro, types
Chapter 7: File processing	File modes, basics
Chapter 7: File processing	Write, read in file
Chapter 7: File processing	Operations on file, file processing
Chapter 7: File processing	CLA, Exceptions
Chapter 8: Scope and Modules	Module, namespace
Chapter 8: Scope and Modules	Operations of module
Chapter 8: Scope and Modules	LEGB, Sys
Chapter 8: Scope and Modules	Re module, dir
Chapter 9: NumPy Basics	Introduction to NumPy, basics
Chapter 9: NumPy Basics	Data types, attributes, creation of array

Chapter 9: NumPy Basics	Array types
Chapter 9: NumPy Basics	Basics operations- 1
Chapter 9: NumPy Basics	Basics operations- 2
Chapter 9: NumPy Basics	Basics operations- 3
Chapter 9: NumPy Basics	Universal functions
Chapter 9: NumPy Basics	broadcasting

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Detailed Syllabus of Python

) (i) Introduction to Programming

- i) The basic Model of computation, algorithms, flowcharts, Programming Languages, compilation, testing & debugging and documentation.

(ii) Algorithms and Flowcharts to Solve Problems

Flow Chart Symbols, Basic algorithms/flowcharts for sequential processing, decision based processing and iterative processing. Some examples like: Exchanging values of two variables, summation of a set of numbers, Decimal Base to Binary Base conversion, reversing digits of an integer, GCD (Greatest Common Divisor) of two numbers, Test whether a number is prime, factorial computation, Fibonacci sequence, evaluate 'sin x' as sum of a series, Reverse order of elements of an array, Find largest number in an array, Print elements of upper

triangular matrix, etc.

(iii) Introduction to Python

Python Introduction, Technical Strength of Python, Introduction to Python Interpreter and program execution, Using Comments, Literals, Constants, Python's Built-in Data types, Numbers (Integers, Floats, Complex Numbers, Real, Sets), Strings (Slicing, Indexing, Concatenation, other operations on Strings), Accepting input from Console, printing statements, Simple 'Python' programs.

(iv) Operators, Expressions and Python Statements

Assignment statement, expressions, Arithmetic, Relational, Logical, Bitwise operators and their precedence, Conditional statements: if, if-else, if-elif-else; simple programs, Notion of iterative computation and control flow –range function, While Statement, For loop, break statement, Continue Statement, Pass statement, else, assert.

(v) Sequence Data Types

Lists, tuples and dictionary, (Slicing, Indexing, Concatenation, other operations on Sequence datatype), concept of mutability, Examples to include finding the maximum, minimum, mean; linear search on list/tuple of numbers, and counting the frequency of elements in a list using a dictionary.

(vi) Functions

Top-down approach of problem solving, Modular programming and functions, Function parameters, Local variables, the Return statement, Doc Strings, global statement, Default argument values, keyword arguments, VarArgs parameters.

Library function-input(), eval(), print(), String Functions: count(), find(), rfind(), capitalize(), title(), lower(), upper(), swapcase(), islower(), isupper(), istitle(), replace(), strip(), lstrip(),rstrip(), split(), partition(), join(), isspace(), isalpha(), isdigit(), isalnum(), startswith(), endswith(), encode(), decode(), String: Slicing, Membership, PatternMatching, Numeric Functions: eval(), max(), min(), pow(), round(), int(), random(), ceil(), floor(), sqrt(), Date & Time Functions, Recursion.

(vii) File Processing

Concept of Files, File opening in various modes and closing of a file, Reading from a file, Writing onto a file, File functions-open (), close (), read (), readline(), readlines(),

write(), writelines(),tell(),seek(), Command Line arguments.

(viii) Scope and Modules

Scope of objects and Names, LEGB Rule Module Basics, Module Files as Namespaces, Import Model, Reloading Modules.

(ix) NumPy Basics

Introduction to NumPy ndarray, datatypes, array attributes, array creation routines, Array From Existing Data, Array From Numerical Ranges, Indexing & Slicing.



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