

## PYTHON CURRICULUM – VAMA EDTECH

PYTHON BEGINNERS		
Sr. No	Topic	Learning outcome
1.	Introduction	Input, output, idle, different modes, python keywords
2.	Identifiers & Variables	Creating different names & entities, comment
3.	Data Types	Take data inputs from users
4.	Problem Solving	Programmes
5.	Operators	Arithmetic, relational, assignment
6.	Operators	Logical, Membership operators
7.	Input / output & Debugging	Handling data from users & troubleshooting problems
8.	Function	Inbuilt functions and problems on that
9.	If-else statements	Make simple Decisions
10.	Problem Solving	Programmes

Note: Intermediate level after completion of the beginner's level

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<b>PYTHON INTERMEDIATE</b>		
<b>Sr. No</b>	<b>Topic</b>	<b>Learning outcome</b>
1.	Loops & Range ()	Repeat fixed number of times
2.	Loops	Repeat within a repeating block
3.	Problem solving	Programs
4.	Project - 1	Create a game
5.	Strings	Dealing with & manipulating text data
6.	Strings	Solve Challenges
7.	Functions	Encapsulate task for multiple use.
8.	Project - 2	Predict answers
9.	List	List operations
10.	List	Built in functions

Note: Advanced level after completion of the Intermediate level

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<b>PYTHON ADVANCED</b>		
<b>Sr. No</b>	<b>Topic</b>	<b>Learning outcome</b>
1.	Dictionary	Operations
2.	Dictionary	Built in functions
3.	Problem Solving	Programs
4.	Project - 3	Create translator
5.	NumPy	Introduction to NumPy
6.	Array	Indexing & Slicing
7.	Operations	Manipulation Concatenation
8.	Operations	Reshaping, Splitting Arrays
9.	Problem solving	Programs
10.	Project - 4	Design Algorithm