

Vidush Somany Institute of Research and Technology
Kadi

Department: CE

Mid Semester Exam Syllabus (Feb-2022)

Subject: Python Programming(CE602-N)

Unit	Topic
1	Introduction to Python Programming Language.: Introduction to Python Language, <ul style="list-style-type: none">• Strengths and Weaknesses and IDLE, Dynamic Types• Naming Conventions and String Values• String Operations and String Slices• Storing Operators and Numeric Data Types,• Conversions and Built In Functions
2	Data Collections and Language Component: <ul style="list-style-type: none">• Introduction,• Control Flow and Syntax and Indenting,• The if Statement and Relational Operators,• Logical, Operators and True or False,• Bit Wise Operators and The while Loop, break and continue,• The for Loop, Lists, and Tuples,• Sets, and Dictionaries,• Sorting Dictionaries and Copying Collections.
3	Object and Classes: <ul style="list-style-type: none">• Classes in Python and Principles of Object Orientation• Creating Classes and Instance Methods• File Organization and Special Methods• Class Variables and Inheritance• Polymorphism and Custom Exception Classes• Type Identification
4	Functions and Modules: <ul style="list-style-type: none">• Introduction• Defining Your Own Functions and Parameters

	<ul style="list-style-type: none">• Function Documentation and Keyword and Optional Parameters• Passing Collections to a Function and Variable Number of Arguments• Scope and Functions - "First Class Citizens"• Passing Functions to a Function and Mapping Functions in a Dictionary• Lambda and Modules• Standard Modules – sys• Standard Modules – math• Standard Modules – time• The dir Function
--	---