1. **Introduction**

* A beginner language
* Generation
* Benefits to learner
* Tools
* Identifier
* Reserved word
* Programming Basics

1. **Operators**

* Arithmetic operator
* Assignment operator
* Bitwise operator

1. **Decision making**

* If statement
* If..Else Statement
* Comparison Operator
* Logical operator
* Operators Precedence
* Nested IF Statement
* Single Statement Suites

1. **LOOPS**

* While Loop
* Single Statement While Suites
* For Loop
* Single Statement For Suites
* Nested loops
* Control statement
* Break
* Else & while loop
* Continue
* Pass

1. **Numerical Functions**

* Conversion Type
* Mathematical Functions
* Random Number Function
* Mathematical Constants

1. **String**

* Escape Characters
* String Operators
* String Formatting Operator
* String Built-in Methods

1. **List**

* List Operations
* List Functions
* List Methods

1. **Tuples**

* Tuples Operations
* Tuple Functions
* Tuple To list and vice versa

1. **Dictionary**

* Dictionary operations
* Dictionary operations
* Dictionary Methods

1. **Time and calander**

* Date & Time
* Tick
* Time Tuple
* Time Functions
* Conversion directives
* Calander Functions

1. **Functions**

* Built-in Functions
* Functions Definition
* Functions Calls
* Pass by Values
* Pass by Reference
* Function Arguments
* Required Arguments
* Keyword Arguments
* Default Arguments
* Variable Length Arguments
* Anonymous Functions
* Return Statement
* Variables Scope
* Global v/s Local Variable

1. **Modules**

* Built-in Modules
* Import
* Specific Import without extension
* Import without extension
* Scripted Module
* Module Variables Scope
* Dir Function
* Globals & Locals Function
* Reload Function
* Packages

1. **Files**

* File Handling
* Opening Files
* File Modes
* File Object Attributes
* Writing in Files
* Reading from Files
* File Positions
* Renaming Files
* Removing Files
* File Functions

1. **Directories**

* Directories
* Directories Functions

1. **Exceptions**

* Exceptions / Interrupts / Events
* Assertions
* Exceptions
* Exception Handling
* Except Statement with No Exceptions
* Except statement for Multiple Exceptions
* Try & Finally Statements
* Arguments Exception
* Raising an Exception
* User-Defined Exceptions

1. **OOPS**

* Object Oriented Programming
* Attributes access statements
* Built-In Class Attributes
* Inheritance
* Generic Functionality
* Generic Operators
* Variables curtaining

1. **Regular Expression**

* Expressions
* Match / Search Functions
* Search and Substitute
* Find Function
* Regular Expression Patterns
* Expression Modifiers

1. **CGI**

* Common Gateway Interface
* Web Browsing
* Get Method
* Post Method
* Checkbox Data to Script
* Radio Button Data to Script
* Drop Down Box Data to Script
* Text Area Data to Script
* Upload File(s)
* File Accessing
* Scripts Environment Variable
* CGI Cookies
* Script based Webpage
* Script to Script
* HTML to Script
* Nested script based webpage

1. **Socket**

* Network service levels
* Sockets
* Socket Functions
* Socket Methods
* Socket Protocol
* Server to Client(s)

1. **SMTP**

* Simple Mail Transfer Protocol
* SMTP Function
* Sending Email
* Email with Subject
* Email with Nested HTML
* Sending Attachments in E-mail

1. **Multithread**

* Concurrent Programming
* Thread Functions
* Threading implementation
* Threads Synchronization
* Queue Functions

1. **XML**

* Extensible Markup Language
* APIs for XML
* SAX v/s DOM
* SAX Functions
* Document Object Model
* Minidom Module
* ElementTree Module
* Counting XML Elements
* Creating XML Documents
* Updating XML Elements
* Creating XML Sub-Elements
* Delete XML Elements
* Delete XML Sub Elements
* Delete XML All Elements

1. **MYSQL**

* PYMYSQL
* MYSQL Database
* Create Table Method
* Insert Method
* Read Method
* Update Method
* Delete Method
* Exceptions

1. **C Extensions**

* Extension
* Extension Parts
* Header File
* Functions
* Mapping Table
* Initialization
* Syntax
* Format and Code strings

1. **GUI**

* Tkinter
* GUI Attributes
* Dimensions
* Colors
* Fonts
* Anchors
* Relief styles
* Bitmaps
* Cursors
* Geometry Manager Classes
* Pack
* Grid
* Place