

# FUTURE GEN TECHNOLOGIES

## PYTHON SYLLABUS

### Getting Started

- Course Introduction
- Learning objectives
- Configuring 3ds Max and 3ds Max design

### Introduction

- Python Syntax
- Python Comments
- Python Variables
- Python Variables
- Variable Names
- Assign Multiple Values
- Output Variables
- Global Variables

### Python Data Types

- Python Numbers
- Python Casting
- Python Strings
- Python Strings
- Slicing Strings
- Modify Strings
- Concatenate Strings
- Format Strings
- Escape Characters
- String Methods

- Python Booleans
- Python Operators

## Python Lists

- Python Lists
- Access List Items
- Change List Items
- Add List Items
- Remove List Items
- Loop Lists
- List Comprehension
- Sort Lists
- Copy Lists
- Join Lists

## List Methods

- Python Tuples
- Python Tuples
- Access Tuples
- Update Tuples
- Unpack Tuples
- Loop Tuples
- Join Tuples
- Tuple Methods
- Python Sets
- Python Sets
- Access Set Items
- Add Set Items
- Remove Set Items
- Loop Sets
- Join Sets
- Set Methods
- Python Dictionaries

## **Python Dictionaries**

- **Access Items**
- **Change Items**
- **Add Items**
- **Remove Items**
- **Loop Dictionaries**
- **Copy Dictionaries**
- **Nested Dictionaries**
- **Dictionary Methods**
- **Python If...Else**
- **Python While Loops**
- **Python For Loops**
- **Python Lambda**
- **Python Arrays**
- **Python Classes/Objects**
- **Python Inheritance**
- **Python Iterators**
- **Python Scope**
- **Python Modules**
- **Python Dates**
- **Python Math**
- **Python JSON**
- **Python Reg Ex**
- **Python PIP**
- **Python Try...Except**
- **Python String Formatting**
- **File Handling**
- **Python File Handling**
- **Python Read Files**
- **Python Write/Create Files**
- **Python Delete Files**

## NumPy

- Introduction
- Getting Started
- Creating Arrays
- Array Indexing
- Array Slicing
- Data Types
- Copy vs View
- Array Shape
- Array Reshape
- Array Iterating
- Array Join
- Array Split
- Array Search
- Array Sort
- Array Filter
- Random
- ufuncli

## Machine Learning

- Getting Started
- Mean Median Mode
- Standard Deviation
- Percentile
- Data Distribution
- Normal Data Distribution
- Scatter Plot
- Linear Regression
- Polynomial Regression
- Multiple Regression
- Scale

- **Train/Test**
- **Decision Tree**

## **MySQL**

- **Get Started**
- **Create Database**
- **Create Table**
- **Insert**
- **Select**
- **Where**
- **Order By**
- **Delete**
- **Drop Table**
- **Update**
- **Limit**
- **Join**

## **MongoDB**

- **Get Started**
- **Create Database**
- **Create Collection**
- **Insert**
- **Find**
- **Query**
- **Sort**
- **Delete**
- **Drop Collection**
- **Update**
- **Limit**

## **Pandas**

- **Home**
- **Introduction**
- **Environment Setup**
- **Introduction to Data Structures**
- **Series**
- **Data Frame**
- **Panel**
- **Basic Functionality**
- **Descriptive Statistics**
- **Function Application**
- **Rendering**
- **Iteration**
- **Sorting**
- **Working with Text Data**
- **Options & Customization**
- **Indexing & Selecting Data**
- **Statistical Functions**
- **Window Functions**
- **Aggregations**
- **Missing Data**
- **Group By**
- **Merging/Joining**
- **Concatenation**
- **Date Functionality**
- **Time delta**
- **Categorical Data**
- **Visualization**
- **IO Tools**
- **Sparse Data**
- **Caveats & Gatchis**
- **Comparison with SQL**

- **Future gen training & course syllabus can make the student to challenge on the success of international interviews.**

## **ABOUT US**

- **Future Gen Technologies Training center is an engineering training institute providing trainings on job oriented professional courses for . Our training programs cover Civil Engineering, Mechanical Engineering, Electrical Engineering & IT Engineering.**
- **The Aim of the Future Gen is to develop quality engineers by providing the real time practical knowledge.**
- **Future Gen Training center has a team of highly experienced & qualified teaching staff. Many of them are experienced with real time projects. Our courses training mainly focus on instructors past experience and practical examples. This will help the trainees to have a better understanding of the concept.**
- **Future gen technologies also comprise a placement cell and enjoy placement tie ups with many companies. Student gets the placement benefits after the completion of the course. Many of our students have been successfully placed with some reputed companies in India & other countries.**

## **WHY FUTURE GEN ?**

- **Future Gen provides the real time training on 100% job oriented courses on international projects & make every student to work on individual project in the training period.**
- **Knowledge of Students who trained under Future Gen will be as good as experienced professionals.**
- **Future gen provides digital training by In-depth demonstration on every aspect of course topics.**
- **Future Gen provides the complete support after completion of your course**
- **We provide excellent quality of infrastructure to our students**
- **Future gen provides the special training classes on personality development and interview skills after completion of course with 100% placement assistance.**
- **Highly qualified faculty with industry experience**
- **Training will be provided based on 20% theory and 80% practical concept**
- **Get fee Refund if not satisfied**



[WWW.FUTUREGENTECHNOLOGIES.COM](http://WWW.FUTUREGENTECHNOLOGIES.COM)

Thank & Regards,

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AMEERPET,KPHB HYDERABAD

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