

Learn Here.. Lead Anywhere..!!



H.No: 7-1-413/2, Beside Sonabai Temple, Near Reliacne Fresh, Balkampet Rd, Ameerpet, Hyderabad - 500038

Python Fullstack Course Content

Core Python

- 1. Introduction to python
- 2. History Of Python
- 3. Advantages & Disadvantages of Python
- 4. Introduction to Interpreter
- 5. Python Installation
- 6. Python Program Execution Flow
- 7. Python Syntaxes
- 8. Introduction to IDE (Eclipse, PyCharam)
- 9. Python Program Development
- 10. Identifiers, keywords
- 11. Basic data types
- 12. Dynamic Typing
- 13. Type conversion functions
- 14. Operators
- 15. Operator Precedence
- 16. input/output
- 17. Reading User Input
- 18. Displaying Output
- 19. Formatting Output
- 20. Variables, expressions
- 21. Operators
- 22. Selection control statements

(if, if..else)

- 23. range data type ,indexing and slicing
- 24. Iterative control statements

(while, for..in, while...else, for..in .. else)

25. Transfer control statements

(Break & continue)

- 26. Python strings
- 27. List
- 28. Tuple
- 29. Set
- 30. Dictionary
- 31. Functions
- 32. Definition and advantages of a function
- 33. Understanding scope
- 34. Default arguments
- 35. Keyword arguments
- 36. Variable length arguments
- 37. Lambda expressions
- 38. Documentation & Annotations
- 39. Types of arguments
- 40. Scope of variables
- 41. Global variables
- 42. Local variables
- 43. Nested functions
- 44. Lambda functions
- 45. Exceptions
- 46. Syntax errors vs Runtime errors
- 47. Handling, Raising exceptions
- 48. Built-in exceptions
- 49. MemoryError
- 50. NameError
- 51. ValueError
- 52. TypeError
- 53. User-defined exceptions
- 54. Clean-up actions

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PYTHON OOPS AND ADVANCED CONCEPTS

- 55. Introduction to OOPS
- 56. OOPS principles
- 57. Classes and Objects
- 58. Instance variables
- 59. Instance methods
- 60. Class variables,
- 61. Class methods
- 62. Constructors
- 63. Inheritance
- 64. Abstract classes
- 65. Inner classes
- 66. Exception handling
- 67. Regular expressions
- 68. File handling
- 69. Accessing (reading / writing) files
- 70. Serialization
- 71. Multithreading
- 72. Introduction to Database
- 73. Python Database Connectivity
- 74. CRUD Operations with Database
- 75. Unit Testing
- 76. Mini Projects Development
- 77. Debugging

Django Framework

- 78. Introduction to Web Development
- 79. Introduction to Django Framework
- 80. Features of Django
- 81. Django Installation
- 82. MVC Model
- 83. HTTP Concepts
- 84. Views
- 85. URL Mapping

Templates

- 86. Django Template Language
- 87. Utilities of Templates
- 88. Creating Template Objects
- 89. Tags, Variables and Filters
- 90. Rendering Templates
- 91. Template Inheritance

Django Forms

- 92. Form Handling
- 93. Form Classes
- 94. Form validations and Error Messages
- 95. Form Display
- 96. Capturing Form data
- 97. Advanced Form Processing

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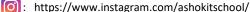


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Django Models

98. Django Models

99. Model Fields

100. **Model Inheritance**

101. Primary keys and the Model

102. **Dynamic Webpages**

103. **Toggle Hidden Content**

104. JQuery and AJAX integration

105. **Serialization and Deserialization**

REST API Development

106 .	Dianaa	DECT	Framework
TUD.	Diango	RESI	rianiework

107. **REST Principles**

108. Serializer class

109. **Model Serializers**

110. **REST APIs**

111. JSON, parsing object to JSON and back

112. **Swagger**

113. **POST MAN**

114. **REST Client Development**

115. **REST Security**

Misc Discussion

116. Page redirection

117. **Sending Emails**

118. **Deploying Django framework**

119. **Generic views**

120. File uploading

121. Cookie handling

122. **Session Management**

123. **Mini Projects Development**

TOOLS

124. **Git HUB**

125. **Jenkins**

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