

Python syllabus

Front end languages

- Html – tags, elements, attributes, tables, forms ...
- Css – syntax, borders, margins, padding, combinators ...
- Javascript – syntax, variables, functions, events ...
- JQuery – syntax, selectors, effects, animate, chaining ...
- Bootstrap – containers, typography, images, jumbotron ...
- Sql – select, where, insert, update, delete, join ...

Python

- Basics – History, versions, mutability ...
- Operators and types – arithmetic, comparison, assignment operators ...
- Conditions and loops – if, for, while, break ...
- List – concatenation, slicing, comprehension, iteration, zipping ...
- Tuple – properties, create, delete, accessing values ...
- String – conversion, comparison, padding, slicing, formatting ...
- Dictionary – key-value, create, update, modify, getting keys or values ...
- Functions – definition, declaration, syntax, types ...
- Set – creation, addition, modification, set functions ...
- Module – naming and renaming, environment variables, global and local variables ...
- Exception handling – raising errors, try-except-else-finally, built-in exceptions ...
- Directory management – creation, deletion, listing directory contents ...
- Regular expression – regex module, findall, split, sub ...
- Class and concepts – constructors, destructors, overloading, overriding ...
- OOps concepts – objects, datahiding, inheritance ...
- Pymysql/mysql – establishing connection, creating cursor object, executing sql queries ...
- Iterators – manual iteration, iter and next functions ...
- Date and time – time and calendar related functions, datetime ...
- Lambda functions – map, filter, reduce ...
- Threading – single-thread, multi-thread ...
- Packages – creation, package structure and usage ...
- Django framework – primary settings, creating project and application, connecting pages, creating a website ...
- Data science – basics on anaconda technology, and supervised and unsupervised machine learning ...
- Final examination