



GUJARAT TECHNOLOGICAL UNIVERSITY

Expert Lecture on Python by Mr. Jaysinh Shukla at GTU PG SCHOOL, BISAG, Gandhinagar

Gujarat Technological University's Open Source Technologies Clubs (OSTCs) are designed to encourage students and faculty members to participate actively in the world-wide open source movement. GTU has created GTU Python User Group (<http://www.meetup.com/gtupython/>) under Open Source Technologies Club. This Meetup group will help GTU Students, Python developers, learners, employers, and enthusiasts of all kinds to meet under one umbrella. GTU OSTC is continuously organizing various workshops under this GTU Python User Group.

An expert lecture on Python was organized at GTU PG SCHOOL, BISAG for 1st Semester on 10th October-2015 from 10:00 AM to 02:00 PM. The lecture was delivered by Mr. Jaysinh Shukla, Member of Python Software Foundation (PSF) and ARD Productions Pvt. Ltd (UK, London).

Following subject related topics briefly explained by experts.

1. **"Beginning with Git protocol"** - In which he explain Use of Git. Why it is needed? What is git repository. Popular Git commands, init, fetch, checkout, branch, push, fetch, rebase etc. How to manage your code repository at Github Open source and free.
2. **"REST API using Django and Django Rest framework"** - Introduce the concept of Restful API and develop fast and perfect API using Django, Django Models and Views and Django Rest Framework provides Serializer interface.
3. **"Virtual environment for package management"** - Why Virtual environment is useful. How to install and manage python packages without colliding it with system packages. Uses of pip. How pip is useful for generating fresh python application built.
4. **"re - Python's built in regular expression module"** - Introduction to Regular Expressions. Patterns available in python. Examples of using the regular expressions. Popular Visual tools to test Python regular expressions.
5. **"unittest - Python's built in Unit testing framework"** - Introduction to Unit testing. How to write small test case for any present python code. How to run unit testing and get the result of it. Various assert methods to test specific scenario. Use of setUp() and tearDown() methods.

6. "Using mechanize library to build small bot" - Mechanize library is very simple to learn. How to scrap web page using mechanize. How to use mechanize for automating the common steps at any website. Limits of mechanize. About bot to automate simple tasks for hasjob portal.

7. "Introduction to Bootstrap3" - Bootstrap is very popular web framework for developing responsive websites for Mobile, Tablet and Computers. Various interfaces of Bootstrap, How to use it, and various components of Bootstrap.

The expert lecture ended with question answer session with students. He explained the subject in great depth and the students enjoyed the lecture.

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