Course Title: Introduction to Python Scripting

Course Code: PESTECII188

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Usage Guidelines

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Document Revision History

Version	Date	Author(s)	Reviewer(s)	Description
1.0	30th March 2017	Namrata Mendis		Included the complete tool syllabus

CONTENTS

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1. Course Summary

Aims and Summary: This course aims at introducing the concept of scripting and the basics of Python Scripting.

2. Learning Objectives

After undergoing this module the students will be able to :
Understand the Python scripting basics and its various features.

3. Course Content / Syllabus

12 hours (Theory) + 3 hours (Lab)

Unit 1: Starting off (0.5 hours)

1. Background
2. What is Python?
3. Python release versions(2.x and 3.x)
4. Tools/IDE available

Unit 2: Scripting Basics - 1 (4 hours)

5. Syntax
6. Data Types
7. Operators
8. Control Flow
9. Functions

Unit 3: Scripting Basics - 2 (4 hours)

10. File Input and Output
11. Classes
12. Modules
13. Package Installation

Unit 3: Lab session - 3 hour (Lab exercises)

4. Course Structure

Activity	Indicative Hours
Lectures	12
Tutorials / Assignments	-
Lab Sessions / Hands on	3
Mock Projects	-

5. Method Assessment

*Assessment will be done on the Lab exercises performed by the candidates.

6. Course Resources

1. Class room presentations
2. Lab demonstrations
3. Hands on sessions

7. Recommended Reading

1. http://www.learnpython.org/
2. https://www.tutorialspoint.com/python/
3. Following text books can be referred:
   a. Learn Python The Hard Way by Zed A. Shaw (3rd edition – September 2013)
   b. Think Python - How to Think Like a Computer Scientist by Allen Downey (2.0.17 version – 2012 year edition)
   c. Beginning Python - From Novice to Professional, Second Edition by Magnus Lie Hetland (2008 year edition)

8. Lab Resources

1. Python IDE (visit http://www.python.org/download for the latest version)
2. Python Manual

9. Course Leaders with Mail ID

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