**A proposal of *Learn Python In Finance* Online Course**

**Course Name:**

Python In Finance Online Course

**Subjective:**

People who work in finance industry or business major students. Especially for whom deal with a lot data daily, or time costing repetitive procedures which can be computerized

**Objective:**

The course combines the knowledge of Finance and Computing Science. It starts from an introduction of a trend that the traditional manual work will be replaced by the computerization in the near future. Then follow by a demonstration how your daily repetitive and cumbersome works have been handed over to the automation scripts. Conclude that learning this course can save your hours, increase the working effort and assure the accuracy.

The course will cover the basic essential skills and knowledge about database, programming language and development pattern that all you need to know as a finance guy.

At the end it builds up you the sense and skills to facilitate and assist in your daily work in finance industry.

The students complete the course assignments will be issued a certificate from *Digital Pioneers* ®

**Training Methodology**

Will use ‘14 + 14’ training method. It means student will attend 14 hours online training course plus 14 hours hands on real case practise.

The lectures will answer students questions and assist in their assignments.

**Sessions**

Tutorials

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| # | **Title** | **Objective** | **Hours** | **Lecture** |
| 1 | Course Opening | Overview | 1 | HUBIN TIANSHAN |
| 2 | Environment Setup | Computer environment setup for this workshop | 1 | HEWEI |
| 3 | Python Basics | Variable, datatypes, list, array if else, random, function, module, execute py file, loops | 3 | HUBIN |
| 4 | Handling Excel by Python | Numpy, pandas | 2 | HEWEI |
|  | File / folder operations | File / folder operations | 1 | HEWEI |
| 5 | Handing Other data files by Python | Pdf, word, img, api | 2 | TIANSHAN |
| 6 | Reporting and Virtualization | Pivot table, Charts, Report, data virtualization | 2 | HEWEI |
| 7 | Data Modelling and DB Operation | OOP / MYSQL | 2 | TIANSHAN |

Practise

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| # | **Title** | **Hours** | **Lecture** |
| 1 | Case One （小英） | 4 |  |
| 2 | Case Two （胡斌） | 4 |  |
| 3 | Case Three（黄昳） | 4 |  |
| 4 | Free QA | 2 |  |

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| **Day 1** | **Day 2** | **Day 3** | **Day 4** |
|  | Handling Excel by Python  Environment Setup | Case One （小英） | Case Two （胡斌） |
| Course Opening  Python Basics | Reporting and Virtualization  Handing Other data files by Python | Data Modelling and DB Operation | Case Three（黄昳） |

**Materials and Assignments**

PDF version of session slides, course materials and assignments will be provided to each student

**Tuition Fee**

Company pay price: $400

Cash pay: $280

Group Discount price: $230