

Application Development

CSF-510

Agenda

- Course Management
- Anaconda Installation
- Introduction to Jupyter Notebook
- Python Data Types

Course Management

Learning Outcomes

- ☐ Knowledge of how to code
- ☐ Thorough knowledge about the web based application development using Python
- ☐ Hands-On experience of application development

Course Overview

| Week | Topics |
|-------|---|
| 1 | Introduction: Anaconda Installation, Jupyter Notebook, Variables and Data Types |
| 2 | Data Structures in Python: Lists, Tuples, Sets, Arrays, Dictionaries |
| 3 | Programming Fundamentals: Conditional Statements and Loops |
| 4 | Functions, Strings and File Handling |
| 5 | Numpy Library |
| 6 | Data Manipulation using Pandas |
| 7 | Data Visualization using Matplotlib |
| 8-9 | Using APIs in Python |
| 10 | Project |
| 11-12 | Web Development using Flask |
| 13-14 | Project Presentations |

Grading Plan (Tentative)

| Category | Score |
|---------------|----------|
| Assignments | 20 Marks |
| Hourlies (3) | 60 Marks |
| Final Project | 20 Marks |

Counselling Hours

Appointment Through Email: znasim@iba.edu.pk

Anaconda Installation

Installation

Download from the following link:

<https://www.anaconda.com/products/individual>

And follow installation instructions