SYLLABUS for half yearly exam

**COMPUTER SCIENCE (083)**

**Class - XII**

**Session - 2019 - 20**

|  |
| --- |
| **Topics to be covered** |
| * Revision of Python basics * Functions |
| * File handling * Using Python libraries |
| * Recursion * Idea of program efficiency |
| * Data visualization using Pyplot * Data-structures |
| * Computer networks |

**INFORMATICS PRACTICES (065)**

**Class - XII**

|  |
| --- |
| **Topics to be covered** |
| **Python Pandas**  Advanced operations on Data Frames, Descriptive statistics |
| Create a histogram, and quantiles.  Function application: pipe, apply, aggregation (group by), transform, and apply map.  Reindexing, and altering labels. |
| **Numpy** |
| Plotting with Pyplot  Basic Software Engineering   * Introduction to software engineering * Software Processes: waterfall model, evolutionary model, and component based model |
| Software Engineering (continue….)   * Delivery models: incremental delivery, spiral delivery * Process activities * Agile methods * Business use-case diagrams * Practical aspects |