**Data Analytics in Python with big data (Data Science -1)**

1. Introduction into Data Science [Alaa]
2. Tools of Data Science [Raed]
3. Python & Jupyter [Raed]
4. Hadoop & Spark [Alaa]
5. Introduction into analytics tools [Alaa]
6. Dataframe (Pandas) in python [Raed]
7. Read data from File
8. Read data from SKLearn
9. Data Extraction and transformation
10. Filter, Group By, Join, Choose specific columns
11. Introduction into Big data [Alaa]
12. Introduction into Spark (big Data) [Zainab]
13. Convert data between Pandas and Spark dataframe [Zainab]

Lab (10 hours):

1. Install Hadoop, Spark, Anaconda (Jupyter) [Zainab]
2. Hadoop commands [Zainab]
3. Spark (pyspark) [Alaa]
4. Jupyter 4 examples in python [Alaa]
5. Data Analytics project [Zainab, Raed, Alaa]