**SNA 2018 – Network Analysis Lab Requirements**

These are the requirements for running the lab examples on your laptop:

NetworkX examples:

1. It is highly recommended to set up your Python programming environment with Anaconda:

<https://www.anaconda.com/download/>

and PyCharm (community edition is good enough)

<https://www.jetbrains.com/pycharm/>

1. Make sure you have Python 2.7 with the following installed packages:
   1. numpy
   2. pandas
   3. networkx
   4. matplotlib
2. Make sure you have jupyter notebook installed
3. Run from the command line in windows: jupyter notebook
   1. This will boot up the Jupiter notebook interface in your browser
4. Create a new folder and move the following files into it
   1. SNA-Lab.ipynb
   2. ga.edge.list.csv

These files will be available in Moodle under "מעבדות"

1. Next you can start the SNA-Lab.ipynb and see you can open it in your browser

igraph examples:

1. Install R

<https://www.r-project.org/>

1. Install the igraph library
   1. Open R
   2. Install the package with:

install.packages(“igraph")

1. Download karate.gml to your computer