EE 474 Term Project
Fall 2018

Objective: Implement a function in MATLAB environment that can forecast the power demand of the next day with one-hour resolution using data from an input file in xls format.

- You can use any load forecast method (Artificial neural networks, Deep-learning, Kalman filter, etc.)
- Data format:
  - First column – Data No,
  - Second column – Time (month/day/year hour:minute),
  - Third Column – Recorded power demand

BONUS: The implementations with the highest accuracy will be awarded with Bonus points.

- First: 10 points
- Second: 7 points
- Third: 5 points

You must submit a report and your m-file. The report should **not** include explanation of your code; rather it should include the following

a. The employed method, why and how you used it,
b. Any method/assumption/etc. you used to improve accuracy performance.
c. Test results.

- You should write a MATLAB function, which takes some arguments as inputs and returns some results as output. Your function name should be in the following format:

  e123456_surname_LF(argin1)

- Submit your m-file via the ODTUClass link 'project_1_code'.
- Submit your report via turnitin link provided in ODTUClass. At the end of your report provide your code as text.

Inputs: xls file path

Outputs: Hourly power demand forecast of the next day.