



**Department of Electrical,
Computer, & Biomedical Engineering**
Faculty of Engineering & Architectural Science

COE/ELE 70AB Milestones Compliance Report (MCR)

Project Title	Python Program for Ladder Iterative Load Flow
MCR Number	II (weeks 6 & 7)
Project Manager for the MCR period	Student C: Muhammad Shirazi
Team Players for the MCR period	Student A: Abrar Ahsan Student B: Parham Habibi Student D: Rehnuba Fairoj
Faculty Supervisor	Dr. Balasubramanian Venkatesh

- Tasks Outlined for the Reporting Period (e.g. MCR I – Weeks 4 & 5)** (Provide detailed information on the tasks to be completed for the reporting period as per the milestone submitted to your FLC in Week3)

Group:

- 1) Simple implementation of the load flow calculations and GUI
- 2) Milestone compliance report 2

Student A: Implement a reading module to parse through excel data in IEEE data format.

Student B: Implement a simple ladder iterative load flow calculation engine.

Student C: Build basic GUI for user interactions and find data sources for development of GUI.

Student D: Build basic GUI for user interactions and find data sources for development of GUI.

- Progress Made in Reporting Period (e.g. MCR I – Weeks 4 & 5)** (Provide detailed information on the progress that you (as a group and individual) made during the reporting period. You can include figures, datasheets, flowcharts etc. and additional information as requested by your FLC. You should use your progress to justify compliance to the tasks outlined for the reporting period as per the milestones submitted to your FLC in Week3)

Group: Went over load flow calculations from the 'Distribution System Modeling and Analysis'

Student A: Implementation of reading module to read excel data and parse through it.

Student B: Simple load flow calculator for single bus.

Student C: GUI with file selector to point towards IEEE data format excel file.

Student D: GUI with file selector to point towards IEEE data format excel file.

3. **Difficulties Encountered in Reporting Period** (Provide detailed information on the difficulties and issues that you encountered during the reporting period and how you plan to address this in the following periods)

Group: No issues encountered during basic implementation phase

Student A: No difficulties, the implementation of the reading module works as intended.

Student B: No difficulties, simple load flow calculator works as verified by hand done calculations.

Student C: No difficulties, file selector opens and can browse through user's files for excel input.

Student D: No difficulties, file selector opens and can browse through user's files for excel input.

4. **Tasks to Be Completed in the Next Reporting Period** (Outline the tasks to be completed in the next reporting period. Please note this should match with your milestones submitted to your FLC in Week3, however in consultation with (and approval of) your FLC, you can modify this to accommodate incomplete tasks from previous period. Here you should also identify the Project Manager for the next period)

1) **Group: Milestone compliance report 3**

Student A: Combine the reading module with the calculation engine.

Student B: Combine work with student A and run testing on the calculation engine to account for edge cases.

Student C: Integrate GUI with the reading module and calculation engine.

Student D: Provide testing with student A and B to ensure program is functioning as intended.