



**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	III (weeks 8 & 9)
Project Manager for the MCR period	Student D: Rehnuba Fairoj
Team Players for the MCR period	Student A: Abrar Ahsan Student B: Parham Habibi Student C: Muhammad Shirazi
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) Understanding Load Flow and implementing Ladder Iterative method**
- 2) Milestone compliance report 3**

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: Handwritten calculation execution for two busses from given IEEE 32 bus data set using Panda Power for reference.

Student A: Student A worked with Student B and ran tests on the calculation engine from Data Reader to Calculation Engine. Data Parser completed.

Student B: Student A worked with Student B and run tests on the calculation engine from Data Reader to Calculation Engine.

Student C: Running through integration techniques for Student A's implementation with the GUI and run tests to ensure the inputs are moving into the system.

Student D: Run tests along with Student A and B. Run tests on Student C's implementation.

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)

Group: Milestone compliance report 4

Student A Student A will combine with Student B and run tests on the calculation engine from Data Reader to Calculation Engine. Data is to be provided by Student D.

Student B Student A will combine with Student B and run tests on the calculation engine from Data Reader to Calculation Engine. Data is to be provided by Student D.

Student C Integrate Student A's implementation with the GUI and run tests to ensure the inputs are moving into the system.

Student D Run tests along with Student A and B. Run tests on Student C's implementation