



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

COE/ELE 70B Milestones Compliance Report (MCR)

Project Title	Python Program for Ladder Iterative Load Flow
MCR Number	III
Project Manager for the MCR period	Parham Habibi
Team Players for the MCR period	<p>Student A: Abrar Ahsan</p> <p>Student B: Muhammad Shirazi</p> <p>Student D: Rehnuba Fairoj</p>
Faculty Supervisor	Dr Balasubramanian Venkatesh

1. **Tasks/ Deliverables Outlined for the Reporting Period** (Provide detailed information on the tasks to be completed and deliverables for the reporting period as per the Milestone and Deliverables document submitted to your FLC)

Group:

Student A: Integrate the Data Parser and the Calculation Engine. Demonstrate that the data parser is extracting the only information that is required into a separate array and depositing it into the calculation engine

Student B: Demonstrate the functionalities of the data parser

Student C: Demonstrate the functionalities of the Calculation Engine. Demonstrate the calculation engine output.

Student D: Assist in creating test cases for calculation engine. Assist in updating GUI.

2. **Progress Made in Reporting Period** (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/deliverables outlined for the reporting period as per the Milestone and Deliverables document submitted to your FLC)

Group: Progress has been demoed with further upgrades on the GUI and calculation engine. 10 bus system calculations engine has been developed and tested.

Student A: Data Parser and Calculation engine has been integrated and testing has begun

Student B: GUI created for showing status of the program.

Student C: Data Parser and Calculation Engine integration was conducted, and testing has begun

Student D: Working on Panda Power to derive test cases. Third GUI completed. Pending Integration to Program status GUI.

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

Group:

Student A: Type error happening with space structure in data Parser. Midterms affected on week 8 & 9 project speed.

Student B: Midterms affected on week 8 & 9 project speed.

Student C: The calculation engine does not provide the correct answer for 10 bus branched networks. Midterms affected on week 8 & 9 project speed.

Student D: Midterms affected on week 8 & 9 project speed.

4. Tasks/Deliverables to Be Completed in the Next Reporting Period (Outline the tasks/deliverables to be completed in the next phase. This should match the Milestone and Deliverables to be submitted by the project manager of the next phase. However, in consultation with (and approval of) your FLC, you can modify this to accommodate incomplete tasks/deliverables from previous period before submitting the Milestones and Deliverables for the next phase. Here you should also identify the Project Manager for the next period)

Group: Confirm Output file is produced, Update Data Parser and Calculation Engine to accommodate backward sweep in branches. Complete program status GUI and incorporate GUI with Data Parser and Calculation Engine.

Student A: Update Data Parser to be able to accommodate for a varied slack node then incorporate with Calculation engine.

Student B: Help update and generate output for the 33-bus network calculation engine.

Student C: Update Calculation engine to incorporate backward sweep in branches

Student D: Help update and generate output for the 33-bus network calculation engine.