

EML3041 Computational Methods

What to Do In-Class Worksheet

Fall 2023

Week Five: Sep 25 - Sep 29

Chapters

Chapter 04.07 LU Decomposition Method for Solving Simultaneous Linear Equations

Sequence of Work in Class for Tuesday

1. Lecture on why LU decomposition is better than Gaussian Elimination for special cases.
2. Do in-class exercise handout questions by yourself. Give justification and show work.
3. Redo in-class exercise handout questions with your group of 2. Revise justification and solutions, if needed, and show your work.

Sequence of Work in Class for Thursday

1. Continuing the lecture on LU Decomposition about computational time.
2. Do in-class exercise handout questions by yourself. Give justification and show work.
3. Redo in-class exercise handout questions with your group of 2. Revise justification and solutions, if needed, and show your work.
4. Submit the asked question asked to be submitted at the end of the class

Sequence of Work in Class for Friday

1. Introducing Interpolation
2. In-class exercises

What if I Finish the Work for Day?

1. Solve the free response questions from all chapters 04.XX.
2. Solve the problem-set questions at the end of textbook chapters 04.06, 04.07.



The QR code is the link to the textbook – use it for reference and solving more problems if finished. Alternatively, use short link if you wish: <https://bit.ly/3RMpaAe>