Assessment Type: Assignment # 1	**Course Name / Code: Linear Algebra II** / ES-304
Section: n/a	**Instructor:** Dr. Babar Zaman
Semester: Fall 2023	**Weightage: 2%**

Concerned CLOs:

- Be able to solve systems of linear equations, perform important matrix algebra operations and demonstrate associated understanding. (PLO1 -Engineering Knowledge) (Bloom's Taxonomy Level: C2 = Application)

Instructions:

- Assignment questions are from the **relevant sections of the textbook book covered in the class**. Please see the course handout to identify **the correct textbook edition.**
- Each assignment will be followed by a quiz and doing the assignment questions yourself will help you perform well in the **quizzes, and both carry significant weightage.**
- Thus, please make sure to **do the assignment yourself and in a manner such that the solutions for your questions are easily understood by the instructor**. These points will be considered in the marking of the assignment.
- Both, the **plagiarism policy as well as the late submission policy will be applied**, as follows:
    - **Plagiarism policy**: Any copying found in the assignment will be deemed plagiarism and **zero marks will be allocated to both/all the involved parties for the whole assignment.** Repeated violations may result in a more severe penalty.
    - **Late submission policy: (**Same day but late: -25%, One day late: -50%, More than 1 day late: -100%)
- The due date for this assignment is Friday**, September 22, 2023**. **Please submit your assignments solutions in the class/quiz on the due date**.

Assignment Tasks:

- **Chapter 1:**
    - Read book sections 1.1 to 1.6
    - Solve the following end-problems from the book

Sr. No.	Section No. and title	Problems
1	1.1- Systems of Linear Equations	4, 14, 21, 26, 31
2	1.2- Row reduction and echelon forms	4, 14, 18, 20b, 34, 37, 40, 43
3	1.3- Vector Equations	10, 14, 16, 21, 31, 33, 36, 37

4	1.4- The Matrix Equation Ax=b	3, 6, 10, 12, 14, 15, 17, 19, 26, 28, 33, 40, 44
5	1.5- Solution sets of Linear Systems	4, 6, 19, 22, 26, 30, 31, 38, 39, 40, 44, 46, 47, 50
6	1.6- Applications of Linear Systems	3, 8, 13