



LINEAR ALGEBRA (MT-1004)

ASSIGNMENT # 01

TASK # 01 (Mandatory)

Weightage: 3%

DO Question number 1 till 20 from Exercise # 1.3

Submission Date: **27th September 2021** (Note: We will cover all related topics in this + coming week)

Instructions:

1. Do this task on either A4 Paper or Full Scape Paper.
2. Take clear snap via Cam-Scanner and make PDF file.
*For those who don't have any idea about Cam-Scanner (<https://www.youtube.com/watch?v=qVY6Du8WzZs>)
3. Share PDF file on Google Classroom.
4. Bring hard copy to in very next class of submission date. (If you will forget hardcopy then weightage -1%)

Task # 02

Extra Weightage: 1%

Compile a code by using **MATLAB / PYTHON** to transform the following linear system in to **Reduced Echelon Form**.

$$\begin{aligned}x_1 + x_2 + 2x_3 &= 8 \\ -x_1 - 2x_2 + 3x_3 &= 1 \\ 3x_1 - 7x_2 + 4x_3 &= 10\end{aligned}$$

- * Submit hard copy of coding along with the image of output.
- * If you are using any built-in command in any platform, specify its short description too along with coding.