

Advanced Statistics (DS2003)  
BDS-4A, 4B, 4C  
Spring 2025

Assignment-3 : CLO-4

**Instructions:**

- This assignment comprises the following questions, and each question carries 20 marks.
- You are required to upload a scanned copy of your assignment, in a single PDF format, over the Google classroom by [11:00 pm on 29-04-2025](#)
- You are also required to submit the hard copy of your assignment completed over A4 or assignment papers ONLY.
  - For sections A and C, a hard copy is due on Wednesday ([30-04-2025](#)) during the class.
  - For section B, a hard copy is due on Tuesday ([29-04-2025](#)) during the class.

Consider the datasets given in end problems **12.11, 12.12, 12.14, 12.56, and 12.57** of the reference book. For each dataset, perform the following tasks by using MATLAB:

1. Determine a multiple linear regression model
2. Perform individual variable screening using T-test

You can use the *MulReg.m* file, a MATLAB function uploaded over Google Classroom, to acquire the parameters which are required to perform the above-mentioned tasks. Submission of the datasets and MATLAB codes is not required.