**SMA 2453: SIMULATION AND MODELLING**

**GROUP 7 CAT 3**

**THE FREQUENCY TEST**

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**FREQUENCY TEST FOR RANDOM NUMBERS**

**Definition:**

A frequency test for random numbers is a procedure used to assess whether a set of generated numbers exhibits characteristics of randomness. The test evaluates the distribution of numbers within the dataset to determine if they conform to the expected behaviourur of random data

**FREQUENCY TEST BY USE OF EXCEL**

STEPS TO FOLLOW

1. Generate the random numbers using RAND() or enter the data set of random numbers in one column
2. Enter an array of bins or intervals. This is the score ranges you wish to analyze
3. Create a column on ins adjacent to the random numbers
4. Calculate the frequency using the formula =FREQUENCY(data\_array, bin\_array).
5. Display the frequency in the adjacent cell.
6. You can generate a histogram to display a table of the generated information.

