

# **SCHOOL OF COMPUTING SCIENCE &ENGINEERING (2021-25)**

(DATA ANALYTICS EXCEL TABLEAU)

SUBMITTED BY

SUBMITTED TO

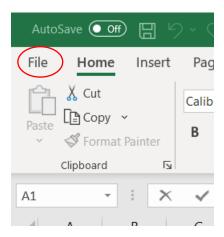
**ROUNAK KUMAR** (21SCSE1010515)

#### **EXPERIMENT NO-1**

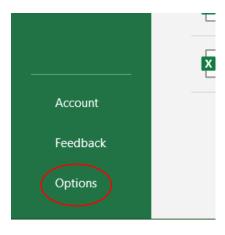
### **INSTALLING DATA ANALYSIS TOOL IN EXCEL**

AIM: Installing Data Analysis Tool in Excel.

**Procedure**: Step 1: Click on the file tab.

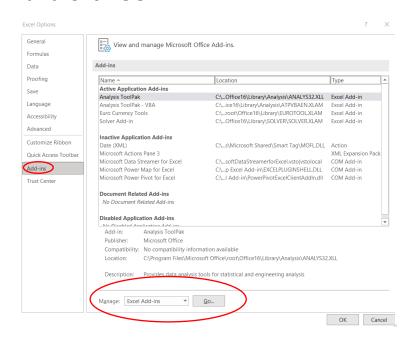


Step 2: Click Option then click Add-ins.

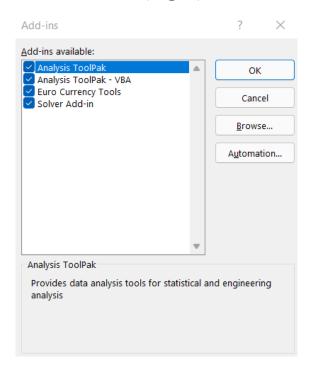


ROUNAK KUMAR (21SCSE1010515)

### Step 3: In the manage box, select Excel Add-ins and Click GO



Step 4: In Add-ins select the Analysis tool pack and Click OK. (Fig.4)



Step 5: Finished installing Data Analytics tool in Excel. (Fig.5)

ROUNAK KUMAR (21SCSE1010515)

#### P.NO-2

### **ANALYSIS USING FORMULAS IN EXCEL**

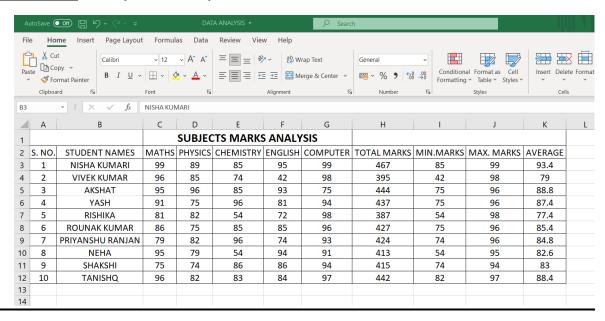
<u>AIM:</u> To find out the common functions (i.e., Sum, Avg. etc) on a given excel sheet.

<u>Procedure</u>: 1. First open a new excel and fill it by adding
Some details (i.e., Name, Subject Name, Marks,
Etc.) in row and column format.

- 2. Create new fields like (Sum, Avg., Max, Min, etc.)
- 3. Fill them by the help of formula bar.
- 4. Complete it and also innovate it (by adding Background colours, **B**, *I*, <u>U</u>, etc.)

**Output:** As shown in Figure.

**Result:** Analysis Completed.



#### **EXPERIMENT NO-2**

## TO PERFORM BASICS OPERATIONS AND FUNCTIONS USING EXCEL.

<u>AIM:</u> To find out common function (i.e., Sum, Max, Min, Count no.) and a bar graph on a given excel sheet.

Procedure: 1. First open a new excel and fill it by adding

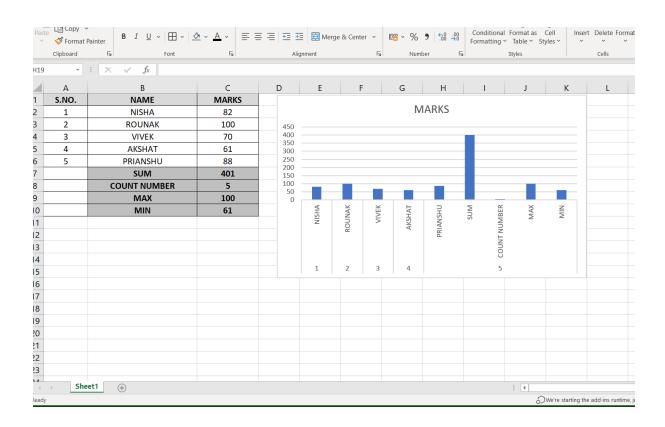
Some details (i.e., Name, Marks

etc.) in row and column format and to calculate the bar graph.

- 2. Create new fields like (Sum, Max, Min, Count no.).
- 3. Fill them by the help of autosum.
- 4. Complete it and innovate it (by adding **B**, *I*, <u>U</u>, etc.)

**Output:** As shown in Figure.

**Result:** Analysis Completed.



# TO PERFORM BASICS MATHEMATICAL FORMULAS AND FUNCTIONS IN EXCEL

AIM: To find out basic mathematical function using excel (i.e. sum, percentage, left, mid, right, concentrate, rand between, time etc) on a given excel sheet.

#### **PROCEDURE:**

- 1. Click on the file tab.
- 2. Then, fill it by adding some details (i.e. name, marks) in row and column format and to calculate the percentage and IF.
- 3. Create new fields using different functions like max, min, count, concatenate etc.
- 4. Fill them with the help of formula bar, the excel provide calculation of all the marks.

**OUTPUT:** As shown in the figure.

**RESULT:** Analysis is completed.

# TO PERFORM FILTERING OPERATIONS, PIVOT TABLES AND CHARTS USING EXCEL

#### **PROCEDURE:**

#### To filter data:

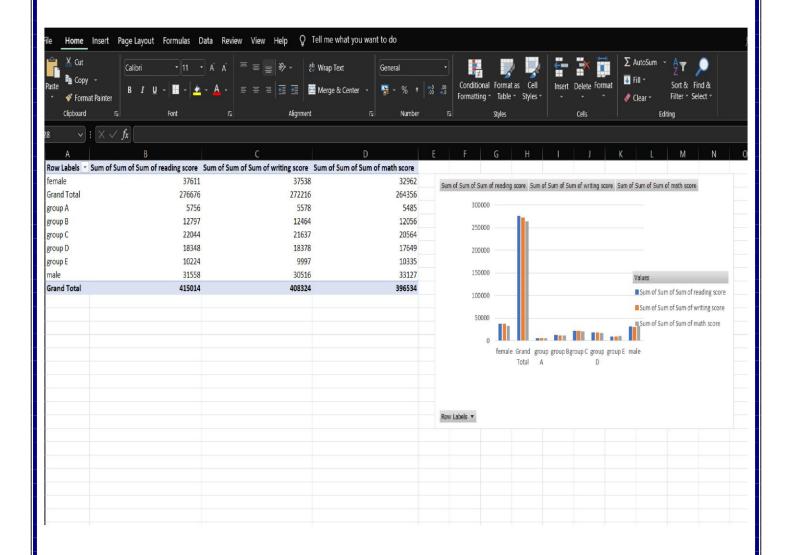
- 1. Select the data tab then locate the sort and filter group.
- 2. Click the filter command.
- 3. Then, drop down will appear in the header of each column.
- 4. Click the drop-down arrow that we want to filter.
- 5. The filter menu will appear.
- 6. Uncheck the boxes that we don't want to view and check the boxes next to the data that we want to view.
- 7. Click OK. All the data will be filtered.

#### **PIVOT TABLE:**

- 1. Select the cell that we want to create.
- 2. Select insert and then choose pivot table and choose the data that we want to analize.
- 3. Select a table or range. In table verify the cell range.
- 4. Now, select pivot table where we want to be placed.
- 5. Select new worksheet to place the pivot table and then select the location where we want to pivot table to appear.
- 6. Select OK button.

#### **BAR CHART:**

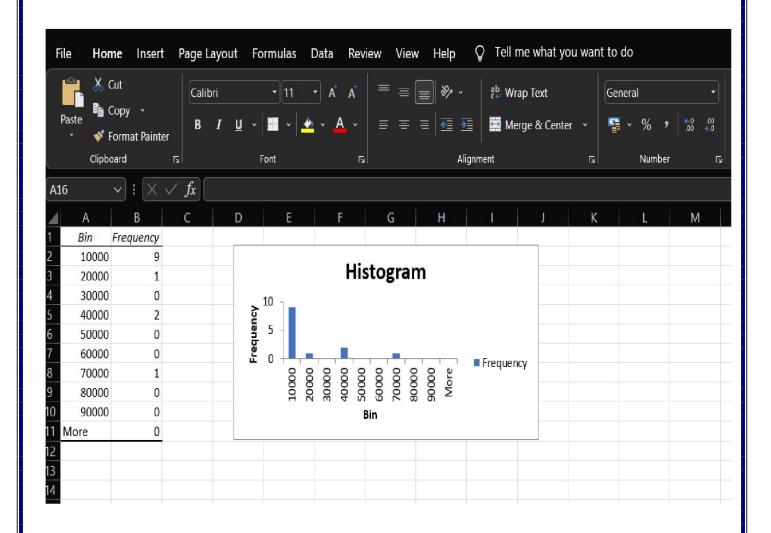
- 1. Arrange the data in rows/columns on the worksheet.
- 2. Select the data.
- 3.
- 4. On the insert tab, Click the bar chart.
- 5. Point the mouse on each of the icons then double click the chart type that suits our data.
- 6. A bar is inserted.



#### TO PERFORM HISTOGRAM IN EXCEL

#### **PROCEDURE:**

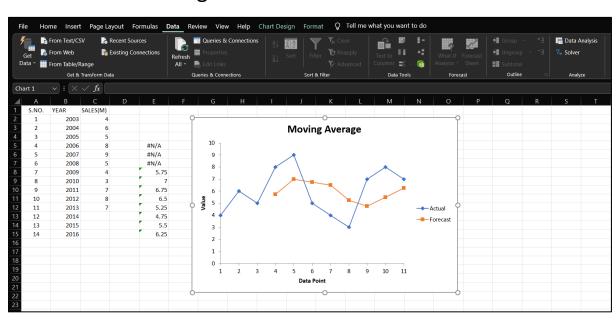
- 1. Select the entire datasheet.
- 2. Click the insert tab.
- 3. In the charts group, click on 'Insert Chart Option'.
- 4. On the Histogram group, Click on the Histogram chart icon.



#### TO PERFORM WITH MOVING AVERAGE.

### **PROCEDURE:**

- 1. Go to Data tab.
- 2. Click on the data analysis in the analyses group.
- 3. Data analysis dialog box will appear.
- 4. From the analysis drop down menu select the moving average and click on OK button.
- 5. We will get another moving average dialog box will appear.
- 6. Click on Input range. Then, select the range from which you want to get the input.
- 7. Tick on output range & select the cell where you want to show.
- 8. Tick on the chart output in the box.
- 9. Click on OK button. OUTPUT:
- 10. As shown in Figure.



#### TO PERFORM WITH EXPONENTIAL SMOOTHING.

#### **PROCEDURE:**

- 1. Go to data tab.
- 2. Click on Data Analysis in the analyses group.
- 3. Data analysis dialog box will appear.
- 4. From the analysis tool drop down menu select the exponential smoothing and click on OK button.
- 5. An exponential smoothing dialog box will appear.
- 6. Click on Input range. Then, select the range from which you want to get the input.
- 7. Then, tick on Chart Output.
- 8. Click on OK button.

**OUTPUT:** As shown in figure.

