Learning Outcome: Student will be able to represent the data using suitable excel charts.

Blooms Taxonomy Level: BT3

1. Draw a column graph of the following distribution :

**----------------------------------------------------------------------**

**Life of Electric Lamps                      Frequency**  
**(hours)                                    Firm A            Firm B**

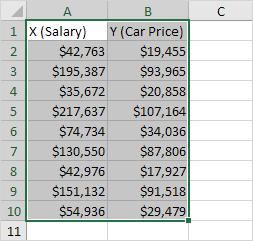
**---------------------------------------------------------------------**  
1010                                         10                  287  
1030                                         130                105  
1050                                         482                26  
1070                                         360                230  
1090                                         18                 352

1. Represent the following data of per capita income graphically by a suitable diagram:

Year 2004 -05 2005-06 2006-07 2007-08 2008-09 2009-10  
Per 24,143 27,131 31,206 40,775 46,249 54,151  
Capita   
income

1. Draw a multiple bar diagram from the following data

Year sales(Rs’000) profit(Rs’000) net profit(Rs’000)  
2011 120 40 20  
2012 135 45 30  
2013 140 55 35  
2014 150 60 40

1. Find out if there is relationship between person’s salary and his car price.
2. The following table gives the average approximate yield of rice in Ibs, per acre in various countries of the world in 2000–05.

**-------------------------------------------------------**

**Country Yield in lbs. per acre  
-------------------------------------------------------**  
India                                        728  
Siam                                        943  
U.S.A.                                      1469  
Italy                                          2903  
Egypt                                        2153  
Japan                                        2276  
**-------------------------------------------------------**  
Indicate this by a suitable diagram

1. Draw a suitable diagram for the following date of expenditure of an average working class family,

**---------------------------------------------------------------------------**  
**Item of Expenditure              Percentage of Total Expenditure**

**---------------------------------------------------------------------------**  
Food                                    65  
Clothing                               10  
Housing                                12  
Fuel and lighting                    5  
Miscellaneous                        8

1. Represent the following data with a suitable diagram.

**----------------------------------------------------**  
**Year      Men    Women    Children    Total**

**----------------------------------------------------**  
1990      180      110          100            390  
1995      200      140          125            465  
2000      250      200          150            600

1. The following table gives the number of companies at work in India for a few years. Represent the data by a suitable diagram.

**---------------------------------------------------------------------------------**

**Year     Public companies        Private companies        Total**

**---------------------------------------------------------------------------------**  
2000     5000                            20,000                          25,000  
2001     4000                            16,000                          20,000  
2002     6000                            18,000                          24,000  
2003     7000                            21,000                          28,000  
2004     5000                            15,000                          20,000

1. A rupee spent on “Khadi” is distributed as follows :

Farmer                                  20 Paise  
Carder and spinner                 35  
Weaver                                 25  
Washerman, dyer and printer   10  
Administrative Agency            10  
                                   Total 100  
Present the data in the form of a pie-diagram.

1. Draw a histogram from the following data :

**------------------------------------------------------------**  
**Classes                 Frequency**

**------------------------------------------------------------**  
0 – 10                   5  
10 – 20                 11  
20 – 30                 19  
30 – 40                 21  
40 – 50                 16  
50 – 60                 10  
60 – 70                 8  
70 – 80                 6  
80 – 90                 3  
90 – 100               1

1. Represent the following data on a histogram.  
   Average monthly income of 1035 employees in a construction industry is given below :

**------------------------------------------------------------**

**Monthly Income (Rs.)         No. of Workers**

**------------------------------------------------------------**  
600 – 700                           25  
700 – 800                           100  
800 – 900                           150  
900 – 1000                          200  
1000 – 1100                        140  
1100 – 1200                        80  
1200 – 1300                        50  
1300 – 1400                        30  
1400 or more                     20

1. Draw ogives by both the methods from the following data.

**Distribution of weights of the students of a college (Ibs.)**

**-----------------------------------------------------**

**Weights                   No. of Students**

**-----------------------------------------------------**  
90.5 – 100.5              5  
100.5 – 110.5           34  
110.5 – 120.5           139  
120.5 – 130.5           300  
130.5 – 140.5           367  
140.5 – 150.5           319  
150.5 – 160.5           205  
160.5 – 170.5           76  
170.5 – 180.5           43  
180.5 – 190.5           16  
190.5 – 200.5           3  
200.5 – 210.5           4  
210.5 – 220.5           3  
220.5 – 230.5           1

1. Draw an ogive by less than method :

**Profits             No. of          Profits               No. of**  
**(Rs. crores)     Companies    (Rs. crores)        Companies**

**------------------------------------------------------------------------**  
10—20              8                  60—70                  10  
20—30              12                 70—80                  7  
30—40              20                 80—90                  3  
40—50              24                 90—100                1  
50—6.0             15

**------------------------------------------------------------------------**