## Most Important.

22. Dec. 2013 Sprob

## Normal Distribution:-

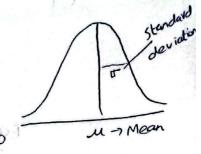
Introdution-Applications (Normal distritution) [Assignment

Introduction - Applications (Hypothesis testing)

(entired tendency - Mean ? Dispertion - Varance ?? Skewness -> Yi .0

Kurtosis -> 1/2 =0

Symmetric data Normal data Mormal probability function



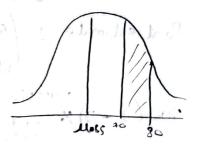
The marks of MTH260 is normally distributed with mean 65 and variance is 100. Find the probability that the marks, of a student will be between to to 80.

Vay ( N ) = 52

E(2) = E(x)-u Standard Normal Vasiable.

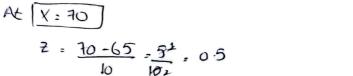
X: marks of student X~N(65,100)

$$V(z) = \frac{c^2}{c^2} = 1$$



P[70 < x < 80] = P[0522<15]

$$\frac{z}{x-65} \Rightarrow p[z<1.5] \cdot p[z<0.5]$$



$$\frac{At \ x = 80}{2 = 80 - 65} = 1.5$$

