BP308P – PHARMACEUTICAL ENGINEERING (Practical)

Practicals Syllabus:

4 Hours / Week

S. No.	PRACTICALS
1.	To determination of radiation constant of brass, iron, unpainted and painted glass.
2.	To calculate the efficiency of steam distillation.
3.	To determine the overall heat transfer coefficient by heat exchanger.
4.	To study the Construction of drying curves (for calcium carbonate and starch).
5.	To study the determination of moisture content and loss on drying.
6.	To study the determination of humidity of air by using Dew point method.
7.	To study the Construction, working and application of rotary tablet machine.
8.	To study the Construction, working and application of fluidized bed coater.
9.	To study the Construction, working and application of fluid energy mill.
10.	To study the Construction, working and application of de humidifier.
11.	To evaluate size distribution of tablet granulations by sieving method.
12.	To perform construction of various size frequency curves including arithmetic and logarithmic probability plots.
13.	To verify the laws of size reduction using ball mill.
14.	To determining Kicks, Rittinger's, Bond's coefficients, power requirement and critical speed of Ball Mill.
15.	To study and demonstration of colloid mill.
16.	To study and demonstration of planetary mixer.
17.	To study and demonstration of fluidized bed dryer.
18.	To study and demonstration of freeze dryer.
19.	To study the factors affecting Rate of Filtration and Evaporation (Surface area, Concentration and Thickness/ viscosity).
20.	To study the effect of time on the Rate of Crystallization.
21.	To calculate the uniformity Index for given sample by using Double Cone Blender.