*S. N. J. B's*
*K. K. H. A. ARTS & S. M. G. L. COMMERCE & S.P.H.J.SCIENCE COLLEGE.*
*CHANDWAD (NASHIK)*

# *Chemical and Pharmaceutical Analysis (30Hrs)*

1. *General Introduction*
2. *Sampling of solid,Liquid,and Gases: Defination,Types of samples,Sampling plan ,quality of sample,sample registration etc.*
3. *Sample Preparation methods:*
4. *Intrumental methods of analysis:Classification,advantages of instrumental methods,the limitations,sensitivity,accuracy,detection limit etc.*
   *i)PH-Metry*
   *ii)Colorimetry*
   *iii)UV-Spectrophotometer*
   *iv)Spectroflurometer*
   *v)Polarimeter*
   *vi)Potentiometer*
   *vii)Conductivity meter*

5. *Thermal Methods of Analysis: Introduction,Theory,and application of TGA,DSC, DTA etc.*

6. *Chromatographic Methods of Analysis:Liquid chromatography,Partition, Ion exchange, paper, Thin layer chromatography,Column,Gel chromatography,GC,GC-MS,HPLC etc.*
7. *Titrimetric methods of Analysis:*